

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: P1213371

Luminaire Tested: 4SNLED-LD5-21SL-RW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213371
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: 4SNLED-LD5-21SL-RW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

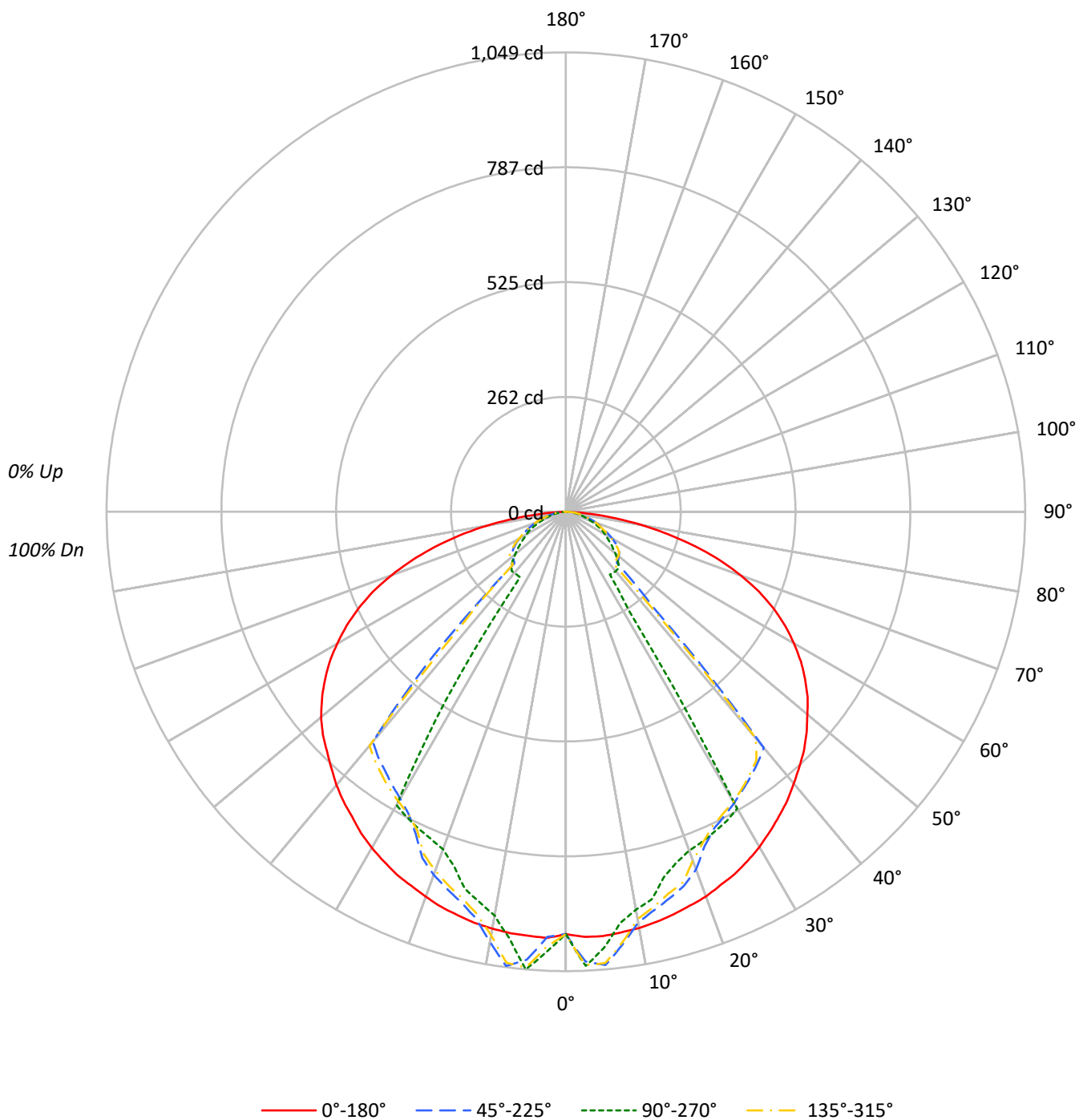
Lumens per Lamp: N/A
Luminaire Lumens: 1931.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 16
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7793	7793	7793	7793
5°	7869	7851	7865	8240
10°	7877	7098	7887	7208
15°	7894	6568	7912	6776
20°	7951	6229	7951	6206
25°	8020	6110	8032	6053
30°	8102	6003	8122	5931
35°	8195	1367	8213	1426
40°	8327	1422	8377	1468
45°	8526	1413	8556	1465
50°	8726	1279	8843	1312
55°	8994	1135	9066	1151
60°	9222	1009	9242	1022
65°	9385	880	9362	867
70°	9250	710	9222	684
75°	8587	546	8651	523
80°	6969	388	7250	355
85°	3771	233	3983	179

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 9448 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	4.9
10°-20°	260.9	13.5
20°-30°	386.4	20.0
30°-40°	389.3	20.2
40°-50°	304.1	15.7
50°-60°	234.9	12.2
60°-70°	157.7	8.2
70°-80°	80.5	4.2
80°-90°	22.4	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°	742.1	38.4
0°-40°	1131.4	58.6
0°-60°	1670.4	86.5
0°-90°	1931.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1931.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	964	964	964	964	964	
5°	973	1000	972	1049	973	93
15°	952	864	954	891	952	269
25°	913	805	914	798	913	421
35°	849	175	851	182	849	532
45°	769	170	772	176	769	593
55°	667	124	672	126	667	596
65°	524	83	522	82	524	515
75°	307	42	309	40	307	321
85°	55	13	58	10	55	76
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°	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3
2.5°	971.8	975.3	978.0	979.8	980.6	980.6	981.1	981.5	987.3	989.9	991.7
5°	972.7	976.2	981.5	988.6	994.8	1000.1	1004.5	1010.7	1016.9	1023.5	1025.7
7.5°	968.7	973.1	983.7	996.6	1008.5	1016.9	1022.6	1026.6	1029.7	1030.1	1032.3
10°	965.2	973.1	987.7	1004.5	1019.5	1029.7	1029.7	1027.5	1030.6	1018.6	1006.7
12.5°	959.0	967.8	987.7	1009.8	1024.0	1027.9	1026.2	1017.3	999.2	984.6	978.0
15°	951.5	963.4	988.2	1012.9	1024.8	1026.2	1009.4	986.8	973.1	964.3	953.2
17.5°	943.1	959.0	988.6	1013.3	1017.8	1011.6	979.8	965.6	951.5	930.7	915.7
20°	935.1	950.6	985.1	1007.2	1009.8	982.0	957.2	942.2	918.3	900.2	893.6
22.5°	922.8	940.9	982.0	998.8	988.6	956.3	932.5	908.6	887.0	881.7	873.7
25°	912.6	931.6	974.9	988.6	961.6	932.9	905.1	877.2	867.1	859.6	852.5
27.5°	898.9	922.3	965.6	970.0	932.9	907.7	867.1	854.7	845.4	837.0	833.9
30°	883.9	912.6	952.8	944.4	909.1	871.9	841.9	830.4	823.8	814.9	811.4
32.5°	866.6	898.0	938.7	914.8	883.4	837.0	817.6	808.7	799.9	793.3	771.2
35°	848.9	885.2	921.9	886.5	852.5	810.5	793.3	785.3	776.9	752.6	729.6
37.5°	830.8	871.0	901.5	856.0	811.4	783.1	768.5	759.7	740.7	709.7	698.2
40°	810.1	853.8	875.5	824.6	775.6	755.3	741.6	732.7	689.9	676.2	672.6
42.5°	789.3	837.0	843.6	794.1	746.0	725.6	714.2	685.0	655.8	648.8	650.1
45°	769.4	818.9	808.7	750.8	715.0	698.2	678.8	638.6	623.1	626.7	627.5
47.5°	745.5	797.2	772.1	707.5	683.2	666.4	623.1	598.8	596.6	601.5	604.1
50°	719.9	772.9	733.2	668.2	648.8	628.9	579.8	567.4	570.1	575.0	578.0
52.5°	696.0	745.5	692.9	631.5	614.7	569.2	536.1	538.3	542.7	548.4	550.2
55°	666.9	712.4	650.1	594.4	578.5	518.8	503.8	509.1	513.5	518.4	521.9
57.5°	636.4	674.4	599.3	552.9	527.2	474.2	475.5	479.1	482.1	487.9	201.5
60°	601.5	631.1	543.6	514.4	463.6	438.8	440.2	446.3	449.4	251.0	138.8
62.5°	565.2	580.7	493.2	470.7	405.3	403.5	409.7	412.3	280.6	132.6	129.9
65°	523.7	520.6	443.7	407.9	365.5	367.2	373.9	360.6	124.2	124.2	123.3
67.5°	477.7	459.2	395.5	337.6	327.0	331.0	338.1	118.0	114.9	115.8	112.7
70°	425.1	399.1	345.6	285.9	289.5	293.4	114.0	106.9	105.6	103.4	97.2
72.5°	369.5	333.7	282.8	248.4	250.6	157.3	99.9	96.3	91.9	87.5	80.9
75°	307.1	260.7	207.7	207.7	210.8	89.7	87.1	81.3	76.5	70.7	66.7
77.5°	240.9	200.6	161.3	167.5	81.8	75.1	70.3	64.1	60.1	56.6	54.4
80°	176.3	140.1	121.5	108.7	63.6	57.0	52.1	48.6	46.8	44.6	42.0
82.5°	115.8	84.4	84.4	51.3	44.6	39.3	38.0	35.4	33.6	32.3	30.9
85°	55.2	49.1	37.1	31.4	27.8	25.2	24.3	23.0	23.0	22.5	22.1
87.5°	20.3	22.1	16.4	15.9	15.0	14.6	15.0	15.0	15.5	15.0	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

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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°	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3
2.5°	996.1	999.6	1002.3	1006.7	1012.5	1017.3	1021.7	1027.9	1037.7	1040.3	1042.5
5°	1025.7	1027.0	1030.1	1033.7	1034.6	1036.8	1036.3	1039.0	1040.3	1043.4	1036.8
7.5°	1027.5	1020.4	1012.0	1004.5	999.2	994.3	991.2	996.1	998.8	1001.0	994.3
10°	990.4	982.0	977.1	972.7	967.4	959.9	949.7	951.9	951.0	951.0	948.8
12.5°	966.9	955.0	942.6	931.6	926.7	926.3	926.7	931.6	931.6	931.1	928.5
15°	930.3	918.8	912.6	909.9	909.9	908.6	908.6	913.9	912.6	912.6	911.3
17.5°	906.0	898.0	893.6	890.5	889.2	891.4	894.0	896.2	896.7	894.9	887.8
20°	886.1	878.6	873.3	874.1	873.7	875.0	876.3	868.8	859.6	847.2	841.4
22.5°	865.3	859.6	855.6	855.6	850.3	841.9	829.5	826.9	825.5	819.8	814.9
25°	845.4	838.8	833.0	815.4	804.3	805.6	803.4	799.0	798.6	798.1	799.9
27.5°	825.5	808.3	786.2	783.5	779.1	778.7	781.3	783.5	783.5	785.3	787.5
30°	784.4	764.5	760.6	755.7	757.5	763.7	765.0	768.1	769.0	772.1	773.8
32.5°	746.9	738.0	734.5	736.7	742.4	747.7	750.8	752.2	754.4	757.0	759.2
35°	716.4	713.7	716.8	721.7	727.4	731.8	734.5	737.1	739.3	741.6	743.3
37.5°	693.8	695.6	700.0	706.2	711.9	715.5	717.7	720.8	723.9	726.5	715.9
40°	672.6	677.0	681.9	688.5	693.4	696.9	699.1	703.1	676.6	306.3	167.9
42.5°	654.1	658.9	662.5	667.8	673.1	675.7	656.3	293.0	165.7	164.8	167.0
45°	631.5	635.5	641.2	645.2	650.1	426.9	163.1	164.8	162.2	164.0	164.8
47.5°	608.5	614.7	617.8	589.5	175.4	162.2	160.4	162.2	160.4	162.6	161.3
50°	582.5	590.0	419.8	158.7	157.3	156.4	158.2	157.3	158.7	160.4	156.9
52.5°	555.9	344.3	153.8	152.9	153.8	152.9	156.0	153.8	154.2	152.5	148.0
55°	188.3	148.9	147.6	147.2	149.8	149.8	149.8	146.3	144.1	139.6	136.6
57.5°	144.1	144.1	143.6	144.1	143.2	142.3	138.3	135.2	132.1	126.0	124.2
60°	136.6	136.6	136.6	136.6	132.6	130.8	124.6	122.0	116.7	113.6	111.8
62.5°	130.4	129.5	125.5	124.2	119.8	114.9	111.4	108.7	103.4	101.6	100.3
65°	121.5	118.4	113.6	108.3	106.1	100.8	99.0	95.0	92.4	91.0	90.2
67.5°	106.9	102.5	98.6	95.0	91.0	89.3	87.1	84.0	82.2	81.3	80.4
70°	91.5	88.4	84.4	82.2	79.5	78.2	75.1	74.2	72.9	71.6	70.3
72.5°	76.5	74.7	72.9	69.8	68.9	68.1	65.0	63.2	61.4	59.7	58.8
75°	64.1	62.8	61.9	59.2	57.9	55.2	53.0	51.7	50.4	49.1	48.2
77.5°	52.6	51.7	49.1	47.3	46.4	44.2	43.3	43.8	42.9	41.1	40.2
80°	41.1	40.2	38.0	38.0	37.1	36.2	35.4	34.5	33.6	32.3	31.4
82.5°	31.4	30.5	29.6	28.7	27.8	27.4	27.0	26.1	25.2	24.3	23.9
85°	22.1	21.7	21.2	20.8	20.3	19.9	19.4	18.6	17.7	17.2	16.8
87.5°	15.0	14.6	14.1	13.7	13.3	12.8	12.4	11.9	11.0	10.6	10.2
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):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3
2.5°	1042.5	1044.7	1042.5	1037.7	1034.6	1033.2	1035.9	1035.9	1037.7	1039.9	1040.3
5°	1026.2	1020.9	1014.7	1008.5	1005.4	1003.6	998.8	999.6	1001.0	1001.9	1002.7
7.5°	985.5	978.4	970.0	962.1	959.0	956.3	950.6	950.6	950.6	951.0	953.7
10°	944.0	940.9	937.3	932.0	928.1	926.7	921.9	923.2	922.3	923.6	926.7
12.5°	924.5	921.0	917.9	912.6	908.2	906.4	904.2	905.5	905.1	907.3	909.9
15°	906.8	905.1	901.5	897.6	893.6	890.0	882.1	879.4	877.7	875.5	878.6
17.5°	877.7	865.3	856.9	850.7	846.3	843.2	841.0	841.0	842.3	843.6	846.3
20°	837.9	834.4	830.4	823.8	819.3	817.6	816.2	816.2	818.5	820.2	825.1
22.5°	810.5	810.1	808.7	805.6	803.4	803.4	803.9	804.8	807.8	810.5	815.4
25°	797.7	799.5	798.6	796.8	795.5	795.9	795.0	795.9	799.0	801.7	805.6
27.5°	787.5	790.2	789.3	786.6	784.4	785.3	786.6	785.8	788.4	791.5	794.6
30°	773.8	774.3	776.0	772.9	772.1	773.4	773.8	774.7	777.4	779.6	782.2
32.5°	758.4	761.9	761.4	758.4	758.4	759.7	760.1	730.5	675.3	581.6	555.9
35°	743.3	747.3	740.7	624.4	432.2	230.7	178.1	171.9	173.2	174.1	175.0
37.5°	549.8	260.7	166.2	167.5	168.8	170.1	171.5	172.8	174.1	175.4	175.9
40°	165.3	164.8	166.2	167.9	169.3	170.1	171.9	173.2	174.6	175.9	176.3
42.5°	163.5	164.4	165.7	167.5	169.3	171.0	172.4	174.1	175.0	175.9	176.3
45°	162.6	164.4	166.2	167.5	168.8	169.7	170.6	171.0	170.6	170.6	171.5
47.5°	161.3	163.1	163.5	163.1	163.5	163.1	163.1	163.1	161.7	161.3	161.3
50°	156.4	156.4	155.6	153.8	153.3	152.9	152.0	151.6	149.8	149.4	149.4
52.5°	146.3	145.8	144.5	142.3	141.4	140.5	140.1	139.6	137.9	137.0	137.4
55°	134.3	133.5	132.1	129.5	129.0	128.2	127.7	127.3	125.5	126.4	125.1
57.5°	123.3	121.5	119.8	119.3	117.6	117.1	116.7	116.2	114.9	115.3	114.5
60°	110.0	109.6	108.7	106.9	106.9	106.5	106.5	105.6	104.7	104.3	104.3
62.5°	100.3	99.0	98.1	98.1	96.8	96.8	96.8	95.9	95.0	95.5	95.0
65°	89.7	89.3	88.8	87.9	87.9	87.5	87.5	86.6	85.3	85.7	84.9
67.5°	80.9	80.0	79.1	78.7	76.9	76.0	75.6	75.1	73.4	73.8	72.9
70°	69.8	68.5	67.6	66.7	65.4	64.5	64.5	63.6	62.3	62.8	61.9
72.5°	58.3	57.5	56.6	56.1	54.8	54.4	53.9	53.5	52.1	52.6	52.1
75°	48.6	48.6	48.2	47.7	46.4	45.1	44.2	43.8	42.9	43.3	42.4
77.5°	40.2	39.3	38.4	38.4	37.1	36.2	35.4	35.4	35.4	34.9	34.5
80°	31.4	30.5	30.5	30.1	29.2	28.3	27.8	27.8	27.4	27.4	27.0
82.5°	23.9	23.0	22.5	22.5	21.7	21.2	20.8	20.3	20.3	20.3	19.9
85°	16.8	15.9	15.5	15.5	14.6	14.1	14.1	13.7	13.7	13.3	13.3
87.5°	10.2	9.7	9.3	9.3	8.4	8.0	8.0	8.0	7.5	7.5	7.1
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: P1213371

CATALOG NUMBER: 4SNLED-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°	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3
2.5°	1040.3	1040.3	1037.2	1038.1	1036.8	1038.5	1036.3	1036.3	1039.0	1039.0	1040.7
5°	1003.2	1001.0	1000.5	999.6	995.2	997.0	994.8	992.6	995.7	995.7	999.6
7.5°	952.4	948.4	950.1	947.5	944.8	940.9	942.2	940.4	942.6	945.7	949.7
10°	926.3	922.8	925.0	922.3	923.6	917.9	918.3	918.8	921.0	921.9	925.4
12.5°	909.5	908.6	907.7	906.8	907.7	904.6	902.9	903.3	904.2	904.6	907.3
15°	874.1	868.4	870.2	864.0	864.4	864.9	861.3	864.9	864.4	870.2	875.5
17.5°	845.4	845.4	842.3	839.7	837.9	837.5	834.8	836.6	834.8	838.3	839.7
20°	825.5	825.1	824.6	823.3	818.9	819.3	820.7	816.7	816.2	815.8	818.5
22.5°	816.2	816.7	814.9	814.9	810.9	811.8	812.3	807.8	808.3	807.0	808.3
25°	806.5	807.4	805.2	805.2	804.3	803.9	801.7	802.5	799.9	797.7	799.9
27.5°	795.0	796.8	795.0	795.9	794.1	793.3	791.9	791.1	788.4	788.0	789.3
30°	784.4	785.3	784.9	782.7	782.2	779.6	780.9	778.2	775.6	776.0	776.9
32.5°	402.2	384.0	296.1	267.4	264.7	274.4	325.3	396.0	513.1	626.7	708.4
35°	175.4	175.4	175.4	175.0	175.0	174.6	174.1	173.7	173.2	172.8	172.4
37.5°	176.3	176.3	176.3	176.3	175.9	175.4	175.4	174.6	174.1	173.7	173.2
40°	176.8	177.2	177.2	177.2	176.8	176.8	176.3	175.4	175.0	174.1	173.2
42.5°	176.3	176.8	176.8	176.3	176.3	175.9	175.9	175.4	175.0	174.6	174.1
45°	170.6	171.0	170.1	170.1	169.7	169.7	169.7	169.7	169.7	170.1	170.1
47.5°	160.4	160.4	160.0	159.5	159.5	159.1	159.5	159.1	160.0	160.4	161.3
50°	148.5	148.5	147.6	147.2	147.2	147.2	147.2	147.6	148.0	148.9	149.8
52.5°	136.1	136.1	135.7	135.2	134.8	134.8	136.1	135.7	136.1	136.6	137.9
55°	124.2	124.6	123.7	123.7	123.3	123.3	123.3	123.7	124.2	124.6	126.0
57.5°	114.0	114.0	113.1	113.1	113.1	112.7	114.0	113.1	113.6	114.0	114.9
60°	103.9	103.4	103.4	103.0	103.0	103.0	103.9	103.4	103.4	103.9	104.7
62.5°	94.6	94.6	94.1	94.1	93.7	93.7	94.6	94.1	94.1	94.6	95.0
65°	84.0	84.0	83.5	83.1	84.4	83.1	84.4	83.5	84.4	84.9	85.7
67.5°	72.0	72.0	72.0	71.6	71.6	72.5	72.9	72.0	72.5	73.4	73.8
70°	61.4	61.4	61.0	61.0	61.0	61.9	62.3	61.4	61.9	62.3	63.2
72.5°	52.1	51.3	51.3	50.8	51.7	51.7	52.1	51.7	52.1	52.1	53.0
75°	42.9	42.0	42.0	42.0	42.9	42.4	42.9	42.4	42.9	42.9	43.3
77.5°	34.5	34.0	33.6	33.6	34.5	34.5	34.5	34.0	34.5	34.9	35.4
80°	27.0	26.5	26.1	26.1	27.0	27.0	27.0	27.4	27.0	27.4	27.8
82.5°	19.9	19.4	19.0	19.9	19.9	19.9	19.9	20.3	19.9	20.3	20.8
85°	13.3	12.8	12.4	13.3	13.3	13.3	13.3	13.7	13.3	13.7	14.1
87.5°	7.1	6.6	6.6	7.1	7.1	7.1	7.5	7.5	7.5	8.0	8.0
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: P1213371

CATALOG NUMBER: 4SNLED-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°	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3
2.5°	1043.4	1044.7	1044.3	1041.6	1039.0	1035.9	1033.7	1034.1	1038.5	1039.9	1035.9
5°	999.6	1008.0	1008.0	1013.8	1010.7	1008.0	1009.8	1019.5	1024.4	1031.9	1034.6
7.5°	954.6	958.5	958.1	963.8	963.0	963.0	964.3	977.1	983.3	989.5	991.2
10°	929.4	933.4	932.9	933.4	932.0	928.9	928.9	934.7	940.0	943.1	944.0
12.5°	911.3	913.5	913.0	913.0	912.1	909.5	909.1	913.9	919.7	923.6	924.1
15°	884.3	890.5	891.8	897.6	896.2	892.7	893.6	897.6	901.1	904.6	903.3
17.5°	844.1	847.2	847.6	849.8	848.9	848.9	854.3	868.8	878.6	887.0	887.8
20°	821.1	823.3	822.4	827.3	825.1	824.6	826.0	832.2	836.6	840.6	847.6
22.5°	810.1	811.8	810.5	810.9	807.0	803.4	802.5	807.4	812.3	817.6	817.6
25°	800.8	802.1	801.7	800.8	797.7	792.8	791.9	792.8	794.6	795.0	791.9
27.5°	789.7	790.6	790.6	791.1	787.1	782.7	781.8	780.9	782.7	782.2	777.4
30°	778.2	776.9	777.4	777.8	774.3	770.3	768.5	768.1	769.8	769.4	764.5
32.5°	750.8	761.0	761.9	762.8	759.7	756.1	754.4	753.0	753.9	753.5	749.1
35°	171.9	175.0	214.3	485.2	658.9	729.6	737.1	735.4	735.8	735.8	732.3
37.5°	172.4	171.9	171.5	170.1	168.8	167.9	290.3	619.1	717.3	717.7	714.6
40°	172.4	171.9	171.5	170.6	168.8	167.5	165.3	163.5	167.5	368.6	674.4
42.5°	173.2	172.4	171.5	170.6	168.8	167.0	165.3	163.1	164.4	163.5	161.3
45°	170.6	170.1	170.1	169.7	168.8	167.0	164.8	162.2	160.9	162.2	160.0
47.5°	162.2	162.6	164.0	164.4	164.4	164.8	163.5	161.7	159.5	160.9	158.2
50°	150.7	151.6	152.0	154.2	155.1	156.9	157.3	157.3	156.9	158.7	156.9
52.5°	138.3	139.2	141.4	142.3	143.2	145.8	146.7	148.0	148.9	151.6	153.3
55°	126.4	126.8	127.7	129.5	130.8	133.0	134.3	135.7	137.9	139.2	144.5
57.5°	115.3	115.8	117.6	118.0	118.9	120.6	122.0	123.7	125.5	126.4	132.6
60°	104.7	105.2	106.5	106.9	107.4	109.2	110.5	111.8	113.1	114.0	118.4
62.5°	95.5	95.5	96.8	96.8	97.2	98.6	99.4	100.3	101.6	102.1	104.3
65°	86.2	86.6	87.5	87.5	87.9	88.8	89.3	89.7	91.0	91.0	92.8
67.5°	74.7	75.1	76.5	77.3	77.8	79.5	80.0	80.4	81.3	81.8	82.6
70°	63.6	64.1	65.4	65.8	66.3	67.6	68.5	69.8	71.2	72.5	73.4
72.5°	53.5	53.9	55.2	55.2	56.6	57.0	57.9	58.3	59.7	60.5	61.9
75°	43.8	44.2	45.5	45.5	46.8	47.3	47.7	48.2	49.1	49.9	50.8
77.5°	35.8	35.8	37.6	38.4	39.3	39.3	39.8	39.8	39.8	40.2	41.1
80°	28.3	28.3	29.6	30.5	31.4	31.4	31.8	32.3	32.7	32.7	33.1
82.5°	21.2	21.2	22.5	23.0	23.9	23.9	23.9	24.3	24.7	24.3	25.2
85°	14.6	14.6	15.5	15.9	16.8	16.8	16.8	17.2	17.7	17.2	17.7
87.5°	8.4	8.8	9.3	9.7	10.2	10.6	10.6	10.6	11.0	11.0	11.5
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: P1213371

CATALOG NUMBER: 4SNLED-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°	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3
2.5°	1031.5	1026.2	1025.7	1019.5	1017.8	1018.2	1013.3	1011.6	1003.6	1001.9	993.5
5°	1035.4	1038.1	1036.8	1036.3	1037.7	1036.8	1033.2	1031.5	1030.1	1026.6	1019.5
7.5°	991.7	993.5	994.8	1000.5	1005.4	1013.8	1022.6	1028.4	1032.8	1033.7	1027.9
10°	947.1	955.5	961.2	970.0	977.1	982.0	987.3	992.1	1004.9	1017.8	1025.3
12.5°	924.1	926.3	925.8	930.7	935.6	948.4	960.8	967.8	977.5	983.3	997.0
15°	904.6	905.1	906.4	909.9	912.6	917.0	922.8	933.4	952.8	961.6	969.2
17.5°	887.0	887.0	887.8	890.9	894.5	898.4	902.0	906.4	916.1	930.7	949.3
20°	858.7	871.0	872.4	871.9	873.7	881.2	882.1	890.0	894.9	900.7	918.8
22.5°	816.7	824.2	834.8	851.2	857.3	860.9	863.5	867.1	874.6	881.2	888.7
25°	793.7	798.6	801.7	806.5	819.3	840.1	844.1	848.1	852.9	857.8	867.1
27.5°	773.4	772.9	775.1	779.6	783.1	794.1	813.6	829.1	829.9	837.0	845.0
30°	758.8	756.1	753.0	752.2	757.0	762.8	768.5	792.8	809.6	813.2	821.5
32.5°	745.1	740.7	736.3	732.7	729.6	734.5	738.0	748.6	770.3	790.6	795.0
35°	728.3	723.9	718.6	714.6	709.7	709.3	708.9	719.0	726.1	750.4	771.6
37.5°	711.1	706.2	701.8	697.4	692.5	689.0	686.8	689.4	696.0	706.6	742.0
40°	692.9	687.2	682.8	679.2	672.6	670.0	665.5	663.8	664.2	673.5	692.1
42.5°	414.1	660.2	662.5	658.5	652.7	649.2	644.3	642.1	637.7	642.1	652.7
45°	159.5	161.3	483.0	638.1	631.1	626.7	622.2	620.0	615.2	611.6	621.4
47.5°	156.4	158.2	154.7	219.2	602.4	603.7	598.4	596.2	591.3	588.7	586.0
50°	154.2	155.6	152.9	153.8	150.7	552.0	574.1	571.4	566.1	563.0	557.7
52.5°	152.0	152.0	150.3	148.0	147.2	147.6	464.5	546.2	540.0	536.9	529.9
55°	145.0	145.8	147.6	144.1	143.2	142.7	141.4	442.4	511.3	507.8	501.6
57.5°	134.3	136.1	141.0	140.1	140.1	136.6	135.7	135.7	410.6	478.2	472.0
60°	122.0	123.7	129.0	130.8	132.1	131.3	130.4	129.9	128.2	432.6	440.6
62.5°	109.2	110.9	112.7	118.4	120.2	122.4	125.1	123.7	122.0	122.0	407.5
65°	95.5	98.1	99.0	104.3	106.5	110.5	112.7	115.8	114.9	114.5	116.7
67.5°	83.5	86.6	87.1	89.3	93.2	95.0	97.7	103.4	106.1	106.9	107.8
70°	73.4	75.1	76.5	77.3	80.0	80.4	85.3	89.3	93.2	97.7	99.0
72.5°	63.2	64.5	67.2	66.3	67.2	68.9	71.6	74.2	78.2	84.4	88.4
75°	51.7	52.6	54.4	55.2	57.0	58.3	60.1	62.3	65.8	68.9	74.2
77.5°	41.5	42.0	43.3	43.8	45.5	46.8	49.9	51.3	53.5	55.7	58.8
80°	33.6	33.6	34.0	34.0	35.4	36.7	38.9	40.2	42.9	44.6	44.6
82.5°	25.6	25.6	27.0	27.0	27.8	27.8	29.2	29.2	30.5	31.4	32.3
85°	18.1	18.6	19.4	19.0	19.9	19.4	20.3	21.2	21.7	21.2	20.8
87.5°	11.9	11.9	12.8	12.4	12.8	12.8	13.7	13.7	14.1	14.1	13.7
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: P1213371

CATALOG NUMBER: 4SNLED-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°	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3
2.5°	990.4	983.7	979.8	974.9	973.6	972.2	974.0	974.0	971.4	969.2	965.2
5°	1013.3	1006.3	998.8	990.8	983.3	975.3	972.2	971.8	966.9	964.3	963.0
7.5°	1025.3	1021.7	1013.3	1002.3	990.8	976.7	970.5	966.9	962.1	961.2	961.2
10°	1026.6	1022.6	1018.2	1010.3	997.0	978.4	966.5	959.4	955.0	958.1	963.8
12.5°	1013.8	1021.3	1017.3	1012.0	1001.4	978.9	961.6	951.0	949.7	957.7	972.7
15°	981.1	1003.2	1014.2	1008.9	1000.5	978.0	953.7	941.3	941.3	957.7	977.1
17.5°	956.3	973.6	1000.5	1004.9	995.2	976.2	946.2	931.6	935.6	959.4	980.2
20°	936.0	946.6	972.7	997.4	988.2	972.2	935.1	920.1	928.1	956.8	984.6
22.5°	904.2	925.4	941.3	978.0	981.1	964.7	924.1	906.0	921.9	956.8	982.4
25°	873.3	898.9	915.7	951.5	970.5	955.5	913.9	890.9	915.2	955.5	980.6
27.5°	851.6	863.5	894.0	919.7	954.6	943.1	900.2	874.6	906.8	948.4	970.5
30°	828.6	836.6	866.6	890.9	933.4	928.9	886.1	856.5	896.2	941.8	944.0
32.5°	803.4	812.3	827.7	863.1	903.7	915.7	870.2	838.3	884.7	931.6	913.0
35°	777.8	784.4	796.8	834.8	869.3	895.8	850.7	817.6	876.8	916.1	883.4
37.5°	752.2	759.2	769.8	801.7	833.0	877.2	833.9	796.8	862.2	888.7	852.5
40°	727.9	731.8	742.9	762.8	803.0	858.2	814.9	775.1	847.2	853.8	810.5
42.5°	683.2	703.1	713.3	729.2	769.0	832.2	792.8	752.2	830.4	818.9	768.5
45°	635.1	678.4	682.8	698.7	738.9	804.3	772.1	729.6	814.5	788.8	728.7
47.5°	595.7	627.1	652.7	666.0	703.1	771.6	752.6	710.6	790.6	750.8	689.9
50°	560.8	577.6	624.0	633.7	660.2	732.3	729.6	688.5	757.5	703.1	651.8
52.5°	526.8	538.7	580.7	601.5	623.1	689.9	702.2	666.9	721.2	655.4	613.4
55°	497.2	501.1	524.1	567.9	587.3	647.0	672.2	641.7	675.3	609.9	576.3
57.5°	466.7	463.1	479.9	536.1	550.2	603.2	640.4	616.1	638.1	563.5	537.8
60°	434.9	430.0	437.1	474.2	510.9	559.9	602.8	587.8	593.1	517.5	495.0
62.5°	401.7	396.9	394.6	418.1	472.4	515.3	564.8	556.4	537.8	475.5	441.9
65°	367.2	362.4	358.8	368.1	430.0	457.4	522.4	520.2	477.3	431.3	372.1
67.5°	111.8	329.7	322.2	321.7	362.4	404.8	476.4	472.9	416.3	384.0	320.4
70°	100.8	267.4	284.2	280.2	297.9	351.3	423.8	421.2	357.1	308.0	283.3
72.5°	92.4	94.6	251.0	246.6	250.6	298.7	369.0	361.9	302.7	243.1	244.8
75°	79.1	83.1	86.6	208.1	202.8	247.5	309.4	298.3	249.7	200.6	204.6
77.5°	64.5	69.4	72.0	151.6	164.0	176.3	247.0	232.5	171.9	160.4	76.5
80°	48.2	52.1	56.6	60.5	124.6	123.3	183.4	168.8	119.8	99.9	59.7
82.5°	35.4	36.7	39.3	43.8	49.5	82.6	118.0	103.9	83.1	45.5	41.1
85°	22.1	23.9	25.2	26.5	30.1	49.5	58.3	46.4	34.9	27.8	26.1
87.5°	14.1	14.1	13.7	14.1	14.6	17.7	19.9	19.0	15.0	14.1	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: P1213371

CATALOG NUMBER: 4SNLED-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°	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3
2.5°	960.8	954.6	954.6	952.8	954.1	954.1	953.7	954.1	957.2	959.0	962.1
5°	960.3	958.5	962.5	967.4	973.1	980.2	982.0	988.2	993.9	1001.4	1009.4
7.5°	966.1	972.2	979.8	987.7	999.2	1007.6	1015.1	1022.6	1027.9	1035.0	1039.4
10°	974.5	986.8	999.6	1009.8	1022.2	1029.3	1034.1	1035.0	1027.5	1015.6	1005.8
12.5°	986.4	1001.0	1012.9	1022.6	1028.4	1025.7	1011.6	997.0	988.6	976.2	959.0
15°	996.6	1009.8	1022.2	1018.2	1002.7	988.2	977.1	959.9	943.1	931.6	924.1
17.5°	1001.0	1013.8	1009.4	988.6	974.0	957.2	934.7	921.4	910.4	901.5	897.1
20°	1003.6	1001.4	977.5	962.5	934.2	918.8	904.2	891.8	883.4	879.0	878.1
22.5°	996.6	969.6	949.3	922.3	901.5	888.7	877.2	867.1	861.3	857.8	855.6
25°	973.1	941.8	911.7	890.5	872.8	861.8	852.9	844.5	837.5	835.7	831.3
27.5°	940.4	914.8	875.0	858.7	843.2	837.9	828.2	819.8	813.6	808.3	794.1
30°	913.5	872.8	844.1	829.1	819.8	813.6	802.5	793.7	783.1	763.7	755.7
32.5°	880.3	840.1	812.7	804.3	792.8	787.5	775.1	755.7	739.3	731.4	731.0
35°	837.5	804.3	784.4	776.9	767.6	758.8	733.2	715.5	707.5	708.4	715.0
37.5°	801.7	772.1	759.2	748.6	738.0	715.5	693.8	685.4	687.6	692.1	695.2
40°	765.4	742.9	728.3	719.9	696.0	673.9	662.5	665.5	669.5	672.6	676.6
42.5°	730.1	714.2	699.6	683.2	650.5	638.6	641.2	645.2	648.8	653.2	657.2
45°	696.5	682.3	665.5	628.4	612.1	615.2	619.1	622.2	627.5	630.6	634.6
47.5°	664.7	649.6	620.0	587.3	585.6	591.7	595.3	599.3	603.2	595.3	328.4
50°	628.9	613.4	568.3	555.9	559.9	565.7	570.1	574.1	511.3	203.3	156.4
52.5°	593.5	554.2	525.5	529.0	533.0	539.6	542.7	403.0	160.4	152.9	153.3
55°	554.2	503.8	495.4	499.8	503.4	510.0	338.1	148.0	147.2	146.7	150.3
57.5°	492.3	461.8	465.4	469.8	473.3	334.1	144.1	143.2	143.6	144.1	144.5
60°	437.1	430.4	434.4	438.4	310.2	139.2	136.6	137.0	138.8	137.4	133.9
62.5°	393.3	398.6	402.6	352.7	132.1	130.8	132.1	130.8	127.7	125.5	121.1
65°	359.7	365.0	368.1	124.2	123.7	125.5	124.2	119.8	114.9	108.7	107.4
67.5°	324.4	329.7	118.0	114.9	116.7	114.5	109.2	103.9	100.3	95.0	92.8
70°	287.7	123.3	106.9	106.5	103.4	99.9	94.1	88.8	84.4	82.2	80.0
72.5°	207.7	97.7	96.3	92.8	87.5	82.6	77.8	74.7	72.5	71.2	69.8
75°	86.6	84.9	80.9	74.7	69.4	67.2	63.6	61.4	60.5	57.9	57.0
77.5°	72.5	68.9	63.2	58.8	55.7	54.4	51.7	49.1	47.7	47.3	45.5
80°	55.7	50.8	48.2	46.0	45.1	42.0	38.9	37.6	36.7	36.2	34.9
82.5°	38.0	36.2	34.5	31.4	31.4	30.1	28.7	27.8	27.0	27.0	26.1
85°	24.7	23.4	23.0	21.7	21.7	20.8	20.3	19.9	19.4	19.0	18.6
87.5°	14.1	14.1	14.6	14.1	14.1	13.7	13.3	12.8	12.4	12.4	11.5
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: P1213371

CATALOG NUMBER: 4SNLED-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°	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3
2.5°	966.1	970.5	971.4	986.4	994.8	994.3	991.7	999.6	994.8	992.1	994.8
5°	1017.3	1022.6	1027.0	1043.4	1049.1	1051.8	1051.4	1055.8	1052.2	1049.1	1049.1
7.5°	1042.5	1044.3	1046.0	1042.1	1039.4	1035.0	1028.4	1018.6	1013.8	1008.5	1001.9
10°	1001.0	995.2	997.4	989.5	982.9	978.0	971.8	963.8	957.2	952.4	944.8
12.5°	950.1	949.7	950.6	951.9	945.3	941.3	936.5	930.7	925.8	920.5	914.4
15°	919.2	919.7	923.2	921.9	919.7	917.4	912.1	910.4	906.0	900.2	896.7
17.5°	897.1	899.3	902.9	901.1	897.6	895.4	891.4	887.4	883.4	879.0	873.7
20°	877.7	879.9	882.1	879.9	873.3	870.2	864.9	852.5	843.6	834.8	826.9
22.5°	856.5	857.8	856.0	848.9	832.2	824.2	818.0	814.5	807.0	802.1	797.2
25°	829.9	822.4	810.9	803.0	796.4	792.8	790.2	789.7	788.8	788.0	785.8
27.5°	786.6	784.0	777.8	774.7	775.1	776.5	776.9	778.2	776.9	775.1	773.4
30°	754.4	755.7	756.1	757.0	759.2	760.6	761.0	762.8	761.9	760.6	759.7
32.5°	734.0	737.1	738.9	741.6	742.9	745.1	745.1	747.7	745.1	744.7	743.8
35°	717.3	719.9	720.8	724.8	726.1	728.3	728.3	730.5	728.3	705.8	557.3
37.5°	700.5	703.1	704.9	708.4	708.9	710.2	655.4	479.5	309.4	239.5	183.0
40°	680.6	683.7	685.4	686.8	482.6	306.3	210.8	171.5	171.5	172.8	174.1
42.5°	659.4	661.6	460.9	268.3	167.0	166.6	167.9	169.3	170.6	172.4	174.1
45°	518.4	261.6	166.2	162.2	163.5	165.3	167.0	168.8	171.0	172.8	173.7
47.5°	170.1	159.5	161.7	160.0	162.2	164.4	166.2	167.9	168.4	168.8	168.4
50°	157.3	157.3	158.7	158.7	160.4	161.3	161.3	161.3	159.5	159.1	157.8
52.5°	152.0	155.6	153.8	154.7	153.8	152.5	151.1	149.8	147.2	146.3	144.5
55°	149.4	150.7	146.3	145.0	143.2	139.6	137.9	136.1	133.9	133.0	130.8
57.5°	143.2	140.1	135.2	133.0	129.9	126.4	124.6	123.3	121.1	120.2	118.9
60°	131.7	125.5	122.4	119.8	116.2	113.1	111.8	110.9	109.2	108.7	107.4
62.5°	117.6	112.3	109.6	106.1	103.4	101.6	100.3	99.9	98.1	98.1	97.2
65°	102.1	99.4	97.2	93.7	92.4	90.6	90.2	89.7	88.8	88.4	87.5
67.5°	89.7	87.9	84.9	83.1	82.2	80.9	80.0	79.1	77.3	76.5	75.1
70°	78.7	77.3	74.2	72.9	71.2	68.9	67.6	66.7	65.4	64.5	63.2
72.5°	68.1	64.1	61.9	60.5	59.2	57.0	56.6	55.7	54.4	53.9	52.6
75°	54.8	51.7	50.4	49.5	48.2	46.8	46.8	46.8	45.5	45.1	44.6
77.5°	43.8	42.0	41.1	40.2	39.8	38.9	37.6	37.1	35.8	35.8	35.4
80°	33.6	32.7	31.8	31.4	30.9	30.1	29.2	28.7	27.4	27.4	27.0
82.5°	24.7	24.3	23.9	23.4	23.0	22.5	21.2	20.8	19.9	19.9	19.4
85°	17.7	17.2	16.4	15.9	15.9	15.5	14.1	13.7	12.8	12.8	12.8
87.5°	11.0	10.6	10.2	9.7	9.3	8.8	8.0	7.5	7.5	6.6	6.2
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: P1213371

CATALOG NUMBER: 4SNLED-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°	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3
2.5°	989.5	997.0	996.1	1001.4	1002.7	1005.4	1006.3	1006.7	1000.1	1005.4	1005.8
5°	1047.8	1049.1	1050.0	1052.2	1054.4	1054.9	1052.7	1050.0	1050.9	1049.1	1044.7
7.5°	1001.0	994.3	993.0	991.2	990.4	989.5	985.5	989.0	985.1	983.3	977.1
10°	943.5	937.3	936.9	936.9	938.2	937.8	936.9	935.1	938.7	936.5	935.1
12.5°	913.5	911.3	912.6	911.7	915.2	916.1	915.2	915.2	914.4	912.6	913.5
15°	895.4	893.6	894.9	893.6	896.2	896.7	894.5	895.8	893.6	891.4	890.5
17.5°	871.5	867.5	864.4	860.0	860.4	859.6	856.9	856.9	854.7	848.9	849.4
20°	825.5	821.5	819.8	819.8	822.0	822.9	822.4	823.3	821.1	820.2	816.7
22.5°	796.8	796.4	797.2	799.5	803.0	807.8	808.3	808.3	808.3	807.8	803.4
25°	786.6	786.6	787.5	790.6	793.3	796.8	797.7	798.6	797.7	797.7	793.7
27.5°	775.1	774.3	776.0	779.1	782.2	784.9	787.1	787.5	786.2	786.2	787.5
30°	761.0	760.6	762.8	765.9	768.5	771.2	773.4	775.1	773.4	773.4	772.1
32.5°	746.4	746.4	747.3	728.7	675.7	608.5	609.9	571.0	544.0	510.0	555.1
35°	465.8	339.0	291.2	246.6	215.2	194.9	194.4	187.8	184.7	182.5	182.1
37.5°	175.9	176.8	178.5	179.4	180.7	181.6	182.1	182.1	182.1	182.1	181.6
40°	175.4	177.2	178.5	179.9	181.2	182.1	182.1	182.5	183.0	183.0	183.0
42.5°	175.9	177.7	179.4	180.7	181.6	182.1	182.5	183.0	183.0	183.0	183.0
45°	175.4	176.3	176.3	176.8	176.8	176.8	177.2	177.2	176.8	176.3	177.2
47.5°	168.8	168.8	167.5	167.0	166.6	165.7	166.2	165.7	165.3	164.8	165.7
50°	157.3	155.6	154.7	153.8	153.3	152.5	152.9	152.5	152.0	151.1	152.5
52.5°	143.6	143.2	141.4	140.5	140.1	140.5	139.6	139.2	138.8	138.3	138.8
55°	130.4	128.6	128.2	127.3	126.8	127.3	126.8	126.4	126.0	125.5	126.0
57.5°	118.4	117.1	116.7	115.8	115.8	115.8	115.8	115.3	114.9	114.5	114.9
60°	106.9	106.1	105.6	105.6	105.2	105.2	105.2	104.7	104.3	104.3	104.7
62.5°	97.2	97.2	95.9	95.5	95.5	95.9	95.5	95.0	94.6	94.1	95.0
65°	87.1	85.3	84.9	84.0	83.1	83.5	83.1	82.6	82.2	81.8	82.6
67.5°	74.7	74.2	72.5	71.6	71.2	71.6	71.2	70.7	70.3	69.8	70.7
70°	62.8	62.8	61.0	60.5	60.1	60.1	59.7	59.7	59.2	58.8	59.7
72.5°	52.1	52.1	51.7	50.8	50.4	49.9	49.5	49.1	49.1	49.5	49.5
75°	43.3	42.4	40.7	41.1	40.7	40.2	40.2	39.8	39.3	40.2	39.8
77.5°	34.0	33.6	32.3	32.7	32.3	31.8	31.8	31.4	30.9	31.4	31.4
80°	25.6	25.6	25.2	24.7	24.7	24.3	23.9	23.9	23.4	23.9	23.9
82.5°	18.6	18.6	18.1	17.7	17.2	17.2	16.8	16.8	16.8	16.8	16.8
85°	11.9	11.5	11.5	10.6	10.6	10.6	10.2	10.2	10.2	10.2	10.2
87.5°	5.7	5.7	5.3	5.3	4.9	4.4	4.4	4.0	4.0	4.4	4.4
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: P1213371

CATALOG NUMBER: 4SNLED-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°	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3
2.5°	997.9	1003.6	998.8	1001.0	1001.4	1008.9	1008.5	1010.3	1007.2	1003.6	998.8
5°	1048.7	1046.0	1042.5	1050.9	1046.5	1051.8	1053.6	1057.1	1057.1	1056.7	1052.7
7.5°	983.7	978.0	982.4	985.5	986.8	983.3	990.4	998.3	1004.9	1008.9	1009.4
10°	932.9	934.7	934.2	935.6	938.7	938.2	942.6	947.1	948.8	951.5	952.4
12.5°	909.1	908.6	909.5	912.6	914.4	913.9	918.3	921.0	921.9	922.3	921.9
15°	890.0	887.0	889.2	889.6	890.9	890.9	896.2	900.2	902.0	902.9	902.0
17.5°	854.3	846.7	853.8	853.8	858.7	857.8	866.2	872.8	876.3	879.0	879.0
20°	818.9	815.4	818.0	817.1	820.7	820.2	825.5	829.9	833.0	835.2	837.9
22.5°	804.8	805.6	801.7	802.1	802.1	801.7	804.3	806.5	807.4	808.7	807.8
25°	795.5	796.4	795.0	792.8	791.9	792.8	794.1	796.8	797.2	796.4	793.3
27.5°	786.2	783.5	785.8	781.8	780.9	782.7	784.4	784.9	785.3	785.3	782.7
30°	772.1	769.8	772.1	770.3	768.5	770.3	771.6	771.6	772.5	772.9	769.8
32.5°	539.6	544.0	615.6	658.9	719.9	750.8	756.6	756.6	757.5	757.5	754.8
35°	183.8	184.3	199.3	216.1	251.9	296.1	354.0	384.0	485.7	607.2	724.8
37.5°	181.6	181.2	180.7	180.3	179.9	179.4	178.5	178.1	180.7	214.3	290.8
40°	182.5	182.1	181.2	180.7	180.3	179.4	179.0	178.1	177.2	176.3	175.4
42.5°	182.5	182.1	181.6	181.2	180.7	180.3	179.4	178.5	177.7	176.3	175.0
45°	176.3	176.3	176.8	176.8	177.2	177.2	177.2	176.8	176.8	176.3	174.6
47.5°	164.8	164.8	166.2	166.2	167.0	167.9	167.9	168.8	170.1	171.0	171.5
50°	151.6	151.6	152.9	153.3	154.2	155.6	156.9	157.3	158.7	160.4	162.2
52.5°	138.3	138.3	139.6	139.6	140.5	141.9	143.2	143.6	145.4	147.2	149.4
55°	126.0	126.0	126.8	127.3	127.7	128.6	129.9	129.9	131.7	133.0	135.2
57.5°	114.9	115.8	115.8	115.8	116.2	117.1	118.0	118.0	119.3	120.6	122.4
60°	104.3	105.2	105.2	105.2	105.6	106.1	106.9	106.9	107.8	108.7	110.5
62.5°	94.6	95.5	95.5	95.9	95.9	96.3	97.2	96.8	97.7	98.1	99.4
65°	82.2	83.1	83.5	84.0	84.4	85.3	86.6	86.2	87.5	88.4	89.7
67.5°	70.3	71.2	71.2	71.6	72.0	72.9	73.8	73.8	75.1	76.0	77.8
70°	59.2	60.1	60.1	60.5	61.0	61.9	62.8	62.3	63.6	64.5	65.8
72.5°	49.1	49.9	49.9	50.4	50.4	51.3	52.1	53.0	53.0	53.9	54.8
75°	39.8	40.2	40.7	40.7	41.1	41.5	42.4	43.3	43.8	44.2	45.1
77.5°	31.4	31.8	32.3	32.3	32.7	33.1	33.6	35.4	36.2	36.7	36.7
80°	23.9	24.3	24.3	24.3	24.7	25.2	26.1	26.1	27.8	27.8	28.3
82.5°	16.8	17.2	17.2	17.2	17.7	18.6	19.0	19.4	20.3	20.8	20.8
85°	10.2	10.6	10.6	10.6	11.0	11.5	12.4	12.8	13.3	13.3	13.7
87.5°	4.0	4.4	4.9	4.9	5.3	5.7	6.2	6.6	7.1	7.1	7.5
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: P1213371

CATALOG NUMBER: 4SNLED-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°	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3
2.5°	993.5	996.6	993.5	995.2	997.4	993.5	984.2	980.6	979.3	974.0	970.5
5°	1048.7	1048.7	1047.4	1050.9	1050.5	1044.3	1034.6	1030.1	1025.7	1020.0	1015.6
7.5°	1009.4	1012.9	1015.1	1028.8	1037.7	1038.5	1044.7	1046.0	1047.8	1046.0	1043.4
10°	952.8	951.5	957.7	970.5	978.0	982.0	993.9	999.6	1004.5	1014.2	1024.4
12.5°	921.0	922.8	925.4	934.7	941.8	940.0	944.8	948.8	954.6	964.3	978.9
15°	899.8	901.5	904.2	911.3	915.7	913.5	916.1	918.8	922.8	927.6	936.5
17.5°	876.8	879.9	883.0	890.5	894.5	894.0	896.2	897.1	898.4	901.5	907.7
20°	841.0	850.7	856.9	867.1	872.8	871.9	875.9	877.2	879.0	882.1	884.7
22.5°	808.3	810.9	814.0	825.1	834.8	846.7	849.4	852.9	857.3	860.4	863.1
25°	789.7	788.0	789.3	796.8	802.1	803.0	807.0	818.5	830.4	835.7	841.9
27.5°	778.7	776.9	776.5	780.0	780.9	778.7	777.8	781.3	790.2	799.0	817.6
30°	766.7	764.5	762.8	765.9	767.2	764.1	758.4	755.3	760.6	762.8	770.3
32.5°	752.6	750.4	749.5	751.3	752.2	749.5	743.3	739.8	738.9	737.1	738.9
35°	736.7	734.5	733.2	733.6	735.4	733.2	727.9	723.4	721.2	716.4	712.8
37.5°	379.6	537.8	698.2	715.0	716.8	716.4	711.1	706.2	704.0	698.2	696.5
40°	173.7	194.0	291.2	380.5	548.9	697.4	692.5	687.6	683.7	681.9	675.3
42.5°	173.2	173.7	174.1	171.9	213.0	362.8	535.6	668.6	666.0	661.6	656.7
45°	173.2	171.0	172.8	170.1	171.0	170.6	212.6	342.9	610.3	637.7	635.5
47.5°	171.5	170.1	171.9	169.7	167.0	168.4	166.6	168.8	263.4	446.8	612.1
50°	163.5	164.4	167.5	167.0	164.8	166.6	163.5	166.2	164.0	179.9	346.5
52.5°	151.6	153.3	156.4	159.1	160.0	162.2	161.3	162.2	160.4	160.9	161.3
55°	137.4	139.6	142.3	146.3	148.0	151.6	154.2	155.6	157.8	157.3	153.8
57.5°	124.2	126.4	128.6	132.6	136.6	138.3	143.2	145.8	151.6	150.3	149.4
60°	111.8	113.6	115.8	116.7	121.5	124.6	129.0	131.7	139.2	141.0	143.6
62.5°	100.8	101.6	103.4	104.7	107.8	110.9	113.1	117.6	121.5	127.3	131.3
65°	90.6	91.5	92.8	93.7	94.1	98.6	99.9	104.7	106.1	112.3	115.8
67.5°	79.1	80.9	82.6	83.5	84.4	87.1	87.9	90.2	93.2	95.9	100.3
70°	67.2	68.5	70.3	71.6	73.4	75.1	77.8	79.1	81.3	83.1	86.6
72.5°	56.1	57.5	58.3	59.7	61.0	62.3	64.5	67.6	69.4	72.5	73.4
75°	45.5	46.8	47.7	48.6	49.9	50.8	51.7	54.8	56.6	59.2	61.9
77.5°	37.6	37.6	38.4	41.1	40.7	40.7	41.5	43.3	44.6	46.4	49.1
80°	29.2	29.6	30.1	32.3	32.7	33.1	32.7	34.0	35.4	35.8	37.6
82.5°	21.7	22.1	22.1	23.4	24.7	24.7	24.7	25.2	26.5	27.0	27.8
85°	14.6	15.0	15.5	15.9	16.8	17.2	17.7	17.7	18.6	19.0	19.4
87.5°	8.0	8.8	9.3	9.7	10.2	10.6	11.0	11.5	11.9	12.4	12.8
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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CATALOG NUMBER: 4SNLED-LD5-21SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3
2.5°	969.2	966.9	965.6	962.1	961.2	955.5	956.3	955.5	955.5	956.8	961.2
5°	1010.7	1000.1	997.4	989.9	983.7	973.1	966.5	963.0	957.7	955.5	958.5
7.5°	1039.0	1031.0	1024.4	1017.8	1008.9	996.6	987.3	976.7	967.8	959.4	957.2
10°	1034.1	1043.0	1043.0	1039.0	1030.6	1018.2	1007.2	993.9	978.4	965.2	957.2
12.5°	993.0	1008.5	1020.9	1030.1	1038.5	1030.1	1019.1	1008.5	991.2	971.8	957.2
15°	947.9	963.8	979.3	998.8	1019.1	1027.5	1027.0	1014.7	999.2	978.9	958.5
17.5°	916.1	927.2	935.6	956.8	981.5	1003.2	1017.8	1018.6	1003.6	985.5	959.0
20°	892.3	900.2	907.3	919.2	940.9	967.4	994.3	1009.4	1006.7	986.8	960.3
22.5°	870.6	876.3	882.1	890.9	908.2	925.4	956.8	987.7	1001.0	984.6	959.0
25°	848.9	855.1	859.6	865.7	879.4	893.6	915.7	954.1	983.7	982.9	956.3
27.5°	823.3	831.7	837.0	845.4	854.7	865.3	880.3	916.6	959.0	974.0	949.3
30°	792.4	804.8	812.7	822.0	829.9	839.2	851.2	873.3	925.8	956.8	941.8
32.5°	747.7	769.8	787.5	796.4	805.2	813.2	823.8	842.3	885.2	933.4	933.4
35°	715.9	726.1	742.0	767.6	778.7	786.6	796.4	810.9	838.3	905.5	919.7
37.5°	691.2	695.2	703.1	728.3	749.1	761.9	771.6	780.9	807.8	867.5	902.0
40°	672.6	671.3	670.4	682.3	711.9	732.3	743.3	752.6	773.4	822.0	878.6
42.5°	651.0	649.6	645.2	648.3	662.9	696.9	713.7	723.9	741.1	774.3	852.9
45°	628.4	626.2	624.4	621.4	626.7	645.7	680.1	695.2	704.9	734.5	820.7
47.5°	605.4	602.4	600.1	597.5	594.4	603.2	635.9	662.9	679.7	698.2	781.8
50°	572.7	576.7	574.1	571.0	568.3	566.6	580.3	624.4	645.2	660.2	734.5
52.5°	270.0	525.0	547.1	544.0	540.5	537.4	540.5	574.1	611.6	623.6	677.5
55°	153.8	233.8	486.6	514.4	511.3	506.9	504.2	515.7	571.9	587.8	625.3
57.5°	148.0	148.5	214.8	463.6	480.8	476.8	473.7	476.4	524.1	551.1	579.8
60°	143.2	143.2	143.2	205.1	443.3	444.6	440.6	436.2	457.0	510.0	533.9
62.5°	132.6	135.2	136.6	136.6	202.4	410.6	406.6	405.3	406.1	460.5	487.9
65°	118.9	125.1	127.7	129.5	129.5	212.6	371.7	369.5	366.4	387.1	441.5
67.5°	103.9	110.0	115.8	119.3	119.8	123.7	221.8	332.8	328.4	328.8	392.0
70°	88.4	93.7	99.9	105.2	110.0	112.3	115.8	276.2	290.8	284.6	335.9
72.5°	76.5	78.7	83.1	88.4	94.1	99.4	102.5	110.0	252.3	245.7	255.4
75°	63.6	65.4	68.5	72.0	76.5	82.6	87.9	93.2	133.9	205.9	204.6
77.5°	49.5	52.6	56.1	58.3	60.5	65.0	72.0	77.3	82.6	139.2	164.0
80°	38.0	40.2	42.0	44.2	46.8	49.9	52.6	58.8	65.0	69.8	125.5
82.5°	28.3	29.6	30.9	31.8	32.7	34.5	39.3	41.5	45.5	49.9	59.2
85°	19.9	20.8	21.7	22.1	22.5	23.0	24.7	25.2	29.2	30.1	35.8
87.5°	12.8	13.3	14.1	14.6	14.6	15.0	15.5	15.5	15.5	14.6	17.7
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: P1213371

CATALOG NUMBER: 4SNLED-LD5-21SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	964.3	964.3
2.5°	964.7	971.8
5°	963.4	972.7
7.5°	959.9	968.7
10°	954.6	965.2
12.5°	948.8	959.0
15°	944.0	951.5
17.5°	938.7	943.1
20°	931.6	935.1
22.5°	924.5	922.8
25°	916.6	912.6
27.5°	906.4	898.9
30°	897.1	883.9
32.5°	888.3	866.6
35°	876.3	848.9
37.5°	864.0	830.8
40°	849.4	810.1
42.5°	833.9	789.3
45°	814.5	769.4
47.5°	797.2	745.5
50°	773.4	719.9
52.5°	744.2	696.0
55°	709.7	666.9
57.5°	672.6	636.4
60°	632.8	601.5
62.5°	584.7	565.2
65°	528.1	523.7
67.5°	454.3	477.7
70°	372.5	425.1
72.5°	311.6	369.5
75°	255.4	307.1
77.5°	202.4	240.9
80°	126.4	176.3
82.5°	84.9	115.8
85°	51.3	55.2
87.5°	19.9	20.3
90°	0.0	0.0

(END OF REPORT)