

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: P1213372

Luminaire Tested: 4SNLED-LD5-22SL-LC-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-22SL-LC-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

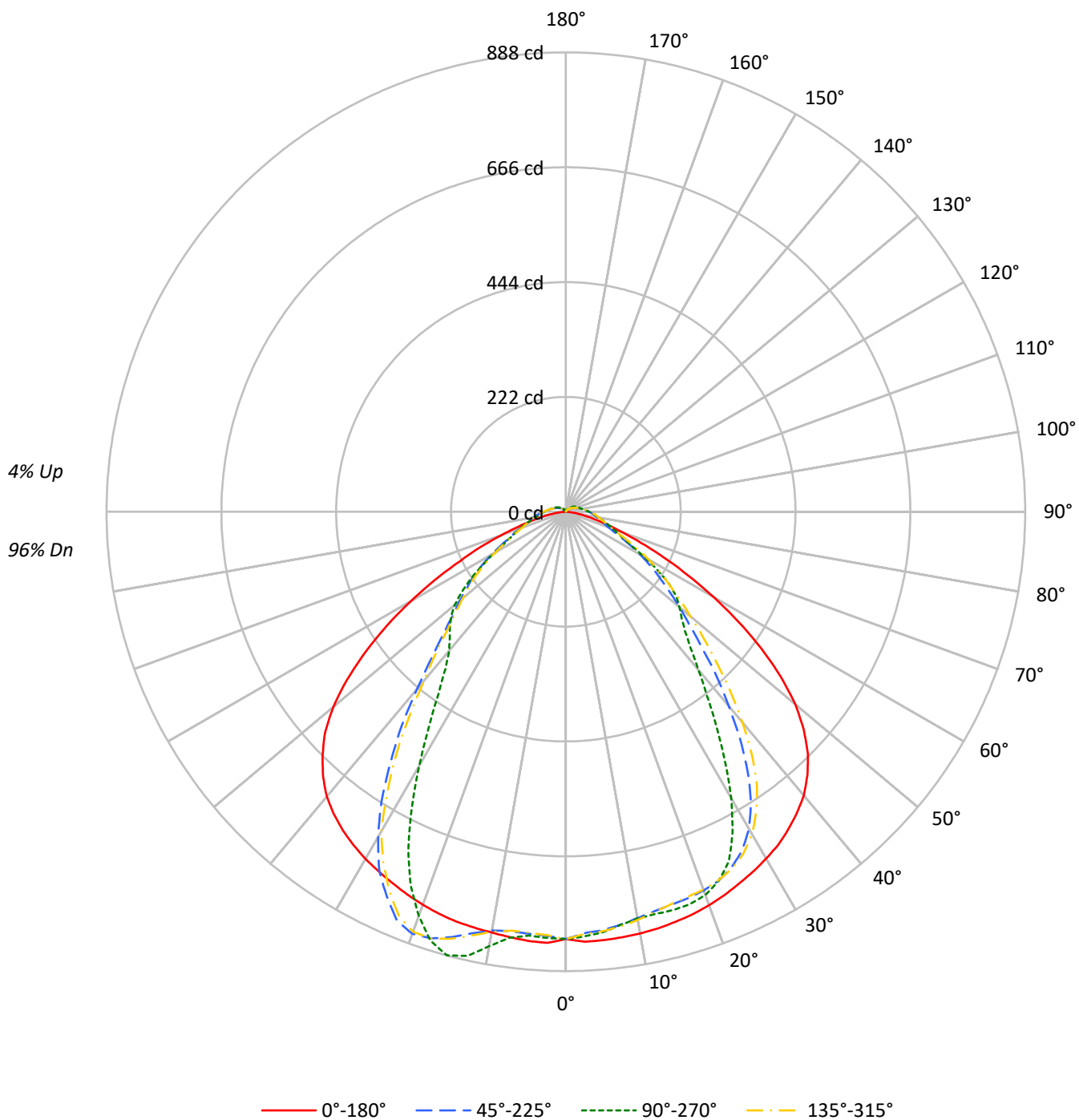
Lumens per Lamp: N/A
Luminaire Lumens: 1969.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6674	6674	6674	6674
5°	6723	6410	6737	6460
10°	6755	6143	6740	6560
15°	6807	6061	6803	6749
20°	6881	5965	6875	6288
25°	6967	5659	6962	5468
30°	7097	4904	7102	4345
35°	7237	3966	7257	3356
40°	7359	3193	7390	2813
45°	7333	2705	7371	2634
50°	7017	2490	7115	2435
55°	6226	2238	6381	2034
60°	5050	1713	5317	1571
65°	3754	1310	4045	1243
70°	2552	1132	2879	1082
75°	1669	1021	1943	965
80°	1079	952	1265	876
85°	553	950	731	868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 7371 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	4.0
10°-20°	233.4	11.9
20°-30°	354.9	18.0
30°-40°	380.7	19.3
40°-50°	330.4	16.8
50°-60°	244.9	12.4
60°-70°	140.3	7.1
70°-80°	77.7	3.9
80°-90°	47.3	2.4
90°-100°	30.8	1.6
100°-110°	20.6	1.0
110°-120°	13.9	0.7
120°-130°	8.5	0.4
130°-140°	4.5	0.2
140°-150°	2.0	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	666.8	33.9
0°-40°	1047.5	53.2
0°-60°	1622.7	82.4
0°-90°	1888.0	95.9
90°-120°	65.3	3.3
90°-150°	80.4	4.1
90°-180°	81.0	4.1
0°-180°	1969.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	826	826	826	826	826	
5°	831	816	833	822	831	79
15°	820	797	820	888	820	232
25°	793	746	792	721	793	366
35°	750	508	752	430	750	469
45°	662	326	665	317	662	507
55°	462	244	473	222	462	409
65°	210	124	226	117	210	211
75°	60	78	70	74	60	68
85°	8	54	11	50	8	11
90°	0	45	1	42	0	0
95°	0	37	0	35	0	0
105°	0	28	0	26	0	0
115°	0	23	0	20	0	0
125°	0	17	0	14	0	0
135°	0	11	0	9	0	0
145°	0	6	1	5	0	0
155°	1	3	1	3	1	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9
2.5°	831.9	829.8	828.9	827.2	828.5	833.6	830.2	824.7	825.1	815.3	820.4
5°	831.1	828.5	827.2	825.5	826.4	831.1	827.7	822.1	821.7	811.9	816.6
7.5°	829.8	827.2	825.1	823.8	824.2	828.1	823.8	817.4	816.1	805.5	809.7
10°	827.7	825.9	823.0	820.8	820.4	824.7	817.8	811.4	808.5	797.4	801.6
12.5°	824.7	822.1	819.1	815.3	814.9	817.4	811.9	802.9	799.9	791.0	795.7
15°	820.4	817.4	814.0	809.7	807.6	809.3	802.5	794.4	793.9	786.3	792.7
17.5°	815.7	811.4	807.6	801.6	798.6	799.9	794.4	787.1	788.0	783.3	790.5
20°	809.3	804.6	798.6	792.7	788.4	790.5	786.7	781.1	782.4	779.0	785.4
22.5°	802.1	795.7	788.4	781.6	778.2	781.1	778.2	773.5	773.9	771.8	775.6
25°	792.7	785.4	776.9	768.4	766.6	768.8	767.1	763.2	761.5	758.1	759.8
27.5°	784.1	776.0	765.4	756.4	753.4	757.7	753.8	747.4	742.8	738.1	734.6
30°	774.3	764.5	752.6	742.3	739.8	741.5	735.9	726.1	713.7	707.8	698.4
32.5°	763.7	750.9	735.9	724.4	722.7	721.4	711.2	697.1	677.9	666.0	651.5
35°	749.6	735.5	717.6	703.5	700.9	693.7	677.1	658.3	633.5	613.1	588.3
37.5°	733.8	717.2	698.4	679.6	672.4	657.9	634.4	614.8	577.2	552.5	522.6
40°	715.9	695.8	672.8	650.2	638.2	614.8	587.9	558.9	522.6	489.3	464.2
42.5°	691.1	669.8	642.5	617.3	596.8	565.7	534.1	493.2	459.9	431.7	406.1
45°	661.7	636.1	604.5	574.2	548.2	511.1	474.0	433.0	405.3	372.4	355.0
47.5°	623.7	596.0	562.3	528.6	494.5	453.5	414.7	375.4	347.7	324.2	311.4
50°	578.9	553.3	516.2	476.1	438.6	395.9	357.1	327.6	300.8	286.3	276.5
52.5°	523.5	499.6	461.6	418.1	381.8	340.0	304.6	280.7	261.5	250.9	247.4
55°	461.6	440.7	403.2	362.6	325.5	287.1	260.2	239.3	227.0	220.6	221.0
57.5°	395.5	379.3	343.9	307.6	272.6	243.6	219.3	202.6	193.3	192.8	194.1
60°	329.4	317.4	286.7	255.5	224.8	201.4	183.4	171.9	166.0	166.4	166.0
62.5°	266.2	255.1	232.9	207.3	183.0	167.2	151.0	146.3	141.2	140.8	140.8
65°	209.5	200.9	183.0	164.7	146.3	136.1	128.0	122.4	118.6	117.7	118.2
67.5°	157.4	154.0	141.6	129.3	117.7	111.3	104.5	103.2	100.3	100.3	101.1
70°	117.3	114.8	107.9	100.7	96.0	91.7	88.3	88.3	87.9	87.5	89.6
72.5°	84.9	85.3	83.2	77.6	77.2	76.4	75.5	76.8	77.2	78.5	81.1
75°	59.7	61.0	61.0	60.2	61.9	64.0	65.3	67.4	70.0	71.7	74.7
77.5°	42.2	42.2	44.4	46.9	50.3	54.2	57.6	60.6	64.0	66.1	68.7
80°	27.3	28.6	32.0	36.7	41.4	46.5	51.2	55.0	58.4	61.9	63.6
82.5°	16.2	18.3	22.6	28.6	34.6	41.0	45.6	50.3	54.2	57.6	58.9
85°	8.1	11.1	16.2	22.6	29.0	35.8	41.8	46.1	50.3	53.3	55.0
87.5°	2.6	6.0	11.5	17.5	24.3	31.1	37.5	42.2	46.1	48.6	50.3
90°	0.0	3.0	8.1	14.5	20.9	27.7	33.7	38.8	42.7	44.8	46.1
92.5°	0.0	1.7	6.4	11.9	17.9	24.7	30.7	35.4	38.8	41.0	41.8
95°	0.4	1.3	4.7	9.8	15.8	22.2	27.7	32.0	35.4	37.5	38.0
97.5°	0.4	0.9	3.8	8.1	13.7	19.6	25.2	29.4	32.0	34.1	34.6
100°	0.4	0.9	3.0	7.3	11.9	17.5	22.6	26.5	29.4	31.1	31.6
102.5°	0.4	0.4	2.6	6.0	10.7	15.4	20.1	23.9	26.5	28.2	29.0
105°	0.4	0.4	2.1	5.1	9.4	13.7	17.9	21.8	23.9	25.6	26.5
107.5°	0.4	0.4	1.7	4.3	8.1	11.9	16.2	19.2	21.8	23.5	24.3
110°	0.4	0.4	1.3	3.8	6.8	10.7	14.1	17.1	19.6	21.3	22.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.4	0.4	1.3	3.4	6.0	9.4	12.4	15.4	17.5	19.2	20.5
115°	0.4	0.4	1.3	3.0	5.5	8.1	11.1	13.7	15.8	17.5	18.8
117.5°	0.4	0.4	1.3	2.6	4.7	7.3	9.8	12.4	14.1	15.8	17.1
120°	0.4	0.4	0.9	2.1	4.3	6.4	8.5	10.7	12.8	14.5	15.8
122.5°	0.4	0.4	0.9	2.1	3.4	5.5	7.7	9.4	11.5	12.8	14.1
125°	0.4	0.4	0.9	1.7	3.0	5.1	6.8	8.5	9.8	11.5	12.8
127.5°	0.4	0.4	0.9	1.7	2.6	4.3	6.0	7.7	9.0	10.2	11.1
130°	0.4	0.4	0.9	1.3	2.1	3.4	5.1	6.4	8.1	9.0	9.8
132.5°	0.4	0.4	0.4	1.3	1.7	2.6	3.8	5.5	6.8	8.1	8.5
135°	0.4	0.4	0.4	0.9	1.7	2.1	3.0	4.3	5.5	6.8	7.7
137.5°	0.4	0.4	0.4	0.9	1.3	2.1	2.6	3.4	4.7	5.5	6.8
140°	0.4	0.4	0.4	0.9	1.3	1.7	2.1	3.0	3.8	4.7	5.5
142.5°	0.4	0.4	0.4	0.9	0.9	1.3	1.7	2.6	3.0	3.8	4.7
145°	0.4	0.4	0.4	0.9	0.9	1.3	1.7	2.1	2.6	3.0	3.8
147.5°	0.4	0.4	0.4	0.9	0.9	0.9	1.3	1.7	2.1	2.6	3.0
150°	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.7	2.1	2.6
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.3	1.7	2.1
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.7	1.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9
2.5°	818.7	819.5	824.7	824.2	823.4	822.5	822.5	821.7	822.5	824.7	823.8
5°	814.4	815.7	819.5	819.1	818.3	817.8	817.4	816.1	817.0	820.0	819.1
7.5°	806.7	808.0	811.4	809.7	808.5	809.3	807.2	805.9	807.6	810.6	810.2
10°	798.6	799.5	803.8	802.9	800.8	801.2	799.1	798.2	800.3	802.1	802.5
12.5°	793.1	796.1	799.9	799.5	799.1	799.5	797.4	796.5	797.8	799.5	799.1
15°	791.8	795.7	799.9	799.9	800.3	800.8	798.6	797.4	798.6	799.9	799.5
17.5°	790.5	795.2	799.1	798.6	799.1	799.9	796.5	795.7	797.4	799.1	798.2
20°	786.3	790.5	793.1	792.2	792.2	792.7	788.4	788.4	791.0	792.2	792.7
22.5°	774.3	779.4	779.4	777.3	777.3	775.6	774.3	771.8	774.8	776.9	778.6
25°	756.4	758.5	756.0	751.3	748.7	746.6	740.6	745.7	745.7	752.1	754.3
27.5°	731.2	726.5	719.3	709.5	707.3	700.5	696.7	698.0	700.1	709.1	715.9
30°	689.9	675.8	663.4	659.1	649.7	642.9	636.1	639.5	643.4	648.5	662.5
32.5°	635.2	621.6	601.5	594.3	584.5	575.9	567.8	573.0	579.8	583.2	598.6
35°	572.5	556.3	538.0	525.6	515.4	510.7	500.4	507.7	514.9	517.5	530.7
37.5°	506.0	489.3	473.1	462.5	452.6	449.7	442.8	448.0	453.5	457.3	468.4
40°	442.8	427.5	415.1	407.9	401.0	398.5	395.9	398.0	402.3	405.3	413.8
42.5°	388.7	376.3	367.8	363.5	358.8	355.4	355.8	356.7	358.8	365.2	369.0
45°	341.3	334.0	328.5	327.6	324.7	324.2	323.8	325.5	326.8	330.6	333.6
47.5°	303.3	300.3	299.1	300.8	302.1	300.3	301.2	303.3	305.9	305.9	305.5
50°	273.5	274.3	276.0	279.9	282.4	283.3	284.1	286.7	287.1	288.0	286.7
52.5°	249.1	250.0	254.7	260.7	263.7	264.9	266.6	269.2	269.2	270.1	268.3
55°	224.4	225.7	230.4	236.4	238.9	240.6	242.3	244.0	245.3	247.0	245.7
57.5°	197.1	200.9	203.9	205.6	207.3	208.6	209.9	210.3	212.9	213.3	215.4
60°	168.1	168.9	171.9	171.5	170.2	173.6	171.9	174.9	177.9	181.7	182.2
62.5°	140.4	140.8	142.9	142.1	143.8	143.3	144.6	144.6	146.8	148.5	150.6
65°	118.6	119.0	120.7	120.7	120.3	121.6	122.9	123.7	123.7	125.0	126.7
67.5°	102.4	103.7	105.4	106.2	107.1	107.1	108.4	108.8	109.6	110.1	110.9
70°	91.3	93.0	94.7	95.6	96.0	96.8	97.3	97.3	98.1	98.6	99.4
72.5°	83.2	84.9	86.2	86.2	87.0	87.5	87.5	87.9	88.3	89.2	90.0
75°	76.4	77.6	78.5	78.1	78.1	78.1	78.5	78.5	79.4	80.2	81.1
77.5°	70.0	71.2	71.2	70.4	70.4	70.4	70.4	70.8	71.2	72.1	73.0
80°	65.3	65.3	64.8	64.8	64.0	63.6	63.6	64.0	64.0	64.8	66.1
82.5°	60.2	60.2	59.7	59.3	58.9	58.4	58.4	58.9	59.3	59.7	60.6
85°	55.5	55.5	54.6	54.6	54.2	54.2	54.2	54.2	54.6	55.0	55.9
87.5°	50.8	50.3	49.9	49.5	49.5	49.5	49.5	49.5	49.9	50.8	51.2
90°	46.1	45.6	45.2	45.2	44.8	44.8	45.2	45.2	45.6	46.1	46.5
92.5°	41.8	41.4	41.0	41.0	40.5	40.5	41.0	40.5	41.4	41.4	41.8
95°	38.0	37.5	37.1	37.1	37.1	37.1	37.1	37.1	37.5	37.5	38.0
97.5°	34.6	34.1	33.7	33.7	34.1	33.7	34.1	34.1	34.1	34.6	35.0
100°	31.6	31.1	31.1	31.6	31.1	31.1	31.6	31.6	31.6	31.6	32.0
102.5°	29.0	29.0	29.0	29.0	29.0	29.0	29.4	29.4	29.4	29.4	29.9
105°	26.5	26.9	26.9	26.9	27.3	27.3	27.3	27.7	27.7	27.7	27.7
107.5°	24.7	25.2	25.2	25.6	25.6	26.0	26.0	26.0	26.0	26.5	26.5
110°	23.0	23.5	23.9	24.3	24.3	24.7	24.7	24.7	24.7	24.7	24.7



TEST NUMBER: P1213372

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	21.3	21.8	22.2	23.0	23.5	23.5	23.5	23.5	23.9	23.9	23.5
115°	19.6	20.5	20.9	21.8	22.2	22.2	22.6	22.6	22.6	22.6	22.2
117.5°	17.9	19.2	19.6	20.5	20.9	20.9	21.3	21.3	21.3	21.3	20.9
120°	16.6	17.5	18.3	18.8	19.2	19.6	19.6	20.1	20.1	20.1	19.6
122.5°	15.4	16.2	17.1	17.5	17.9	18.3	18.3	18.3	18.3	18.3	18.3
125°	13.7	14.5	15.4	15.8	16.2	16.6	16.6	17.1	17.1	17.1	16.6
127.5°	12.4	13.2	13.7	14.5	14.9	14.9	15.4	15.4	15.4	15.4	14.9
130°	10.7	11.5	12.4	12.8	13.2	13.2	13.7	13.7	13.7	13.7	13.7
132.5°	9.4	10.2	10.7	11.5	11.5	11.9	11.9	12.4	12.4	12.4	11.9
135°	8.5	9.0	9.4	10.2	10.2	10.7	10.7	10.7	10.7	10.7	10.7
137.5°	7.7	8.1	8.5	9.0	9.0	9.4	9.4	9.4	9.4	9.8	9.4
140°	6.4	7.3	7.7	7.7	8.1	8.1	8.1	8.5	8.5	8.5	8.1
142.5°	5.5	6.0	6.4	6.8	7.3	7.3	7.3	7.3	7.7	7.3	7.3
145°	4.3	5.1	5.5	6.0	6.4	6.4	6.4	6.4	6.4	6.4	6.4
147.5°	3.4	3.8	4.7	5.1	5.1	5.5	5.5	5.5	5.5	5.5	5.5
150°	3.0	3.0	3.8	4.3	4.7	4.7	4.7	4.7	4.7	4.7	4.7
152.5°	2.1	2.6	3.0	3.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8
155°	2.1	2.1	2.6	2.6	3.0	3.0	3.0	3.0	3.4	3.0	3.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213372

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9
2.5°	822.5	822.1	823.8	822.1	813.6	817.0	815.7	820.4	820.8	822.1	826.4
5°	818.3	818.3	820.4	818.7	810.6	814.0	813.6	818.3	819.1	820.0	824.7
7.5°	809.7	810.2	813.1	811.9	803.3	808.5	808.0	813.6	815.3	817.0	821.3
10°	801.6	801.2	804.6	803.3	795.2	801.2	800.8	806.3	808.9	811.9	817.0
12.5°	797.4	796.1	797.4	796.1	787.1	791.8	792.2	798.6	801.6	805.5	811.4
15°	797.4	795.2	795.2	792.7	782.4	785.4	785.8	790.1	793.9	797.8	805.0
17.5°	796.5	794.4	793.9	791.8	780.7	780.7	780.3	783.3	785.4	789.3	796.9
20°	791.8	791.0	790.5	789.3	779.0	777.3	776.5	776.5	777.7	779.0	786.7
22.5°	779.4	780.3	781.1	782.0	773.9	770.9	771.3	770.5	769.2	769.2	775.6
25°	756.4	760.7	764.1	767.9	763.2	761.1	763.7	762.4	760.2	758.5	764.1
27.5°	719.7	728.7	735.9	745.3	745.7	744.0	750.9	750.0	749.6	747.0	751.3
30°	668.9	683.0	692.8	706.5	718.0	719.7	731.2	732.9	734.6	733.4	737.6
32.5°	607.5	626.7	643.4	664.7	675.8	685.6	701.8	708.6	715.4	717.6	722.3
35°	540.5	562.3	581.9	605.4	622.9	644.2	663.8	674.1	689.4	695.4	702.2
37.5°	477.0	497.4	516.6	540.1	568.3	590.4	614.8	637.8	658.7	667.2	677.5
40°	420.7	437.3	455.6	476.1	501.7	530.7	557.2	589.2	613.9	631.0	645.9
42.5°	378.0	386.1	401.9	420.2	440.7	470.1	497.0	532.9	562.7	587.0	611.8
45°	340.0	343.9	355.4	365.2	386.1	412.1	440.7	475.7	506.8	538.0	567.8
47.5°	307.6	312.3	317.8	323.8	338.7	360.5	385.2	416.8	448.0	484.2	518.3
50°	285.8	287.1	288.0	290.5	299.5	314.4	334.5	361.4	391.2	430.0	466.3
52.5°	266.6	266.6	264.1	262.8	266.2	275.6	287.1	306.3	337.0	372.9	411.3
55°	246.2	242.3	241.5	237.2	238.1	242.3	247.9	262.8	288.0	318.7	355.8
57.5°	217.6	215.9	215.9	214.2	210.8	212.9	214.2	224.8	242.7	269.2	301.6
60°	184.7	183.9	186.0	186.4	183.4	184.7	184.3	190.7	203.5	224.8	251.7
62.5°	151.9	155.7	156.1	157.9	156.1	155.7	157.9	163.4	169.8	186.0	206.9
65°	127.6	129.7	130.1	132.3	131.4	131.4	133.1	137.4	141.2	152.3	168.5
67.5°	111.8	110.9	111.3	112.6	111.3	110.9	112.2	114.8	117.7	124.6	136.1
70°	99.4	98.6	98.6	98.6	96.8	95.6	96.0	96.8	98.1	102.0	109.2
72.5°	90.0	90.0	88.7	87.5	86.2	85.3	84.5	83.6	83.2	84.5	88.3
75°	81.5	81.9	81.5	80.2	78.5	76.8	75.1	73.4	71.2	70.4	70.8
77.5°	73.8	74.2	74.7	74.2	72.5	70.4	67.8	65.3	62.3	59.3	57.6
80°	67.0	67.8	68.3	67.8	66.6	64.8	61.9	58.9	54.6	50.8	46.5
82.5°	61.0	62.3	62.7	62.7	61.9	60.2	56.7	53.3	48.6	43.5	38.0
85°	56.3	57.2	58.0	58.0	57.6	55.9	52.5	48.6	43.9	38.0	32.0
87.5°	51.6	52.0	52.9	53.8	52.9	51.2	48.2	43.9	39.2	33.3	26.5
90°	46.9	47.4	48.2	49.1	48.6	46.9	44.4	40.5	35.4	29.0	22.2
92.5°	42.2	43.1	43.5	43.9	44.4	43.1	41.0	37.1	32.0	25.6	19.2
95°	38.8	38.8	39.7	40.1	40.5	39.2	37.5	33.7	29.0	23.0	16.6
97.5°	35.4	35.4	36.3	36.3	36.7	35.8	34.1	30.7	26.0	20.5	14.1
100°	32.0	32.4	32.9	33.3	33.3	32.9	31.1	27.7	23.5	18.3	12.4
102.5°	29.9	29.9	30.3	30.3	30.7	29.9	28.2	25.2	20.9	16.2	10.7
105°	27.7	27.7	28.2	28.2	27.7	26.9	25.2	22.6	18.8	14.1	9.4
107.5°	26.0	26.0	26.0	26.0	25.6	24.7	23.0	20.1	16.6	12.8	8.5
110°	24.7	24.3	24.3	23.9	23.5	22.2	20.5	17.9	14.9	11.1	7.3

TEST NUMBER: P1213372

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	23.5	23.0	22.6	22.2	21.3	20.1	18.3	16.2	13.2	9.8	6.4
115°	22.2	21.8	21.3	20.5	19.6	18.3	16.6	14.5	11.5	8.5	5.5
117.5°	20.9	20.5	19.6	18.8	17.9	16.6	14.9	12.8	10.2	7.7	5.1
120°	19.2	18.8	18.3	17.5	16.6	14.9	13.2	11.5	9.0	6.8	4.3
122.5°	17.9	17.5	16.6	16.2	14.9	13.7	11.9	10.2	8.1	6.0	3.8
125°	16.2	15.8	15.4	14.5	13.7	11.9	10.7	9.0	7.3	5.1	3.0
127.5°	14.9	14.5	13.7	12.8	11.9	10.7	9.4	8.1	6.4	4.3	3.0
130°	13.2	12.8	12.4	11.5	10.7	9.4	8.5	6.8	5.5	3.8	2.6
132.5°	11.5	11.5	11.1	10.2	9.4	8.5	7.3	6.0	4.7	3.4	2.1
135°	10.7	10.2	9.8	9.0	8.5	7.3	6.4	5.1	3.8	3.0	1.7
137.5°	9.4	9.0	8.5	8.1	7.3	6.4	5.5	4.3	3.4	2.6	1.7
140°	8.1	7.7	7.7	6.8	6.4	5.5	4.7	3.8	3.0	2.1	1.3
142.5°	7.3	6.8	6.4	6.0	5.5	4.7	3.8	3.0	2.6	1.7	1.3
145°	6.4	6.0	5.5	5.1	4.7	3.8	3.4	2.6	2.1	1.7	1.3
147.5°	5.1	5.1	4.7	4.3	3.8	3.4	3.0	2.6	1.7	1.3	0.9
150°	4.3	4.3	3.8	3.4	3.4	3.0	2.6	2.1	1.7	1.3	0.9
152.5°	3.8	3.4	3.4	3.0	3.0	2.6	2.1	1.7	1.3	1.3	0.9
155°	3.0	3.0	3.0	2.6	2.6	2.1	1.7	1.7	1.3	0.9	0.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213372

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9
2.5°	827.2	822.1	826.4	834.1	833.2	832.3	831.5	833.2	838.7	835.8	831.1
5°	825.9	820.8	825.5	832.8	832.3	831.1	830.2	831.9	837.5	834.5	829.4
7.5°	823.4	818.7	822.1	829.4	829.4	828.5	827.7	829.4	834.5	831.9	826.8
10°	819.1	815.7	819.1	825.9	826.4	824.7	823.8	825.9	831.1	829.8	825.5
12.5°	815.7	812.3	816.1	823.0	823.4	821.7	820.4	823.0	829.8	830.6	829.4
15°	811.0	808.0	812.7	820.0	820.0	818.7	818.7	822.1	831.5	835.3	837.5
17.5°	804.2	802.1	807.6	814.9	815.3	814.4	814.9	821.7	834.1	843.4	849.4
20°	795.7	794.8	800.8	808.5	809.7	810.2	812.3	822.5	839.6	852.4	858.4
22.5°	785.4	785.8	792.7	800.8	802.5	803.8	808.0	822.5	843.9	857.5	860.1
25°	773.9	775.2	782.4	792.2	794.4	796.9	804.2	823.0	845.1	854.1	849.8
27.5°	761.5	764.1	773.5	783.7	786.3	790.5	799.9	820.4	839.2	839.6	823.8
30°	748.7	751.7	762.8	774.8	779.0	783.3	794.8	814.4	824.7	811.0	783.3
32.5°	734.2	738.5	749.6	764.1	769.2	774.8	786.3	802.9	799.1	769.6	730.0
35°	715.9	721.8	734.6	751.7	756.4	763.7	771.8	775.6	758.5	716.7	671.9
37.5°	693.3	702.2	717.2	736.8	741.9	746.6	748.7	738.1	703.9	658.7	612.2
40°	667.2	680.9	697.1	718.9	724.0	724.0	716.3	693.7	650.6	591.3	539.7
42.5°	635.7	652.3	672.8	694.5	699.7	693.7	675.3	635.7	586.6	520.5	465.9
45°	597.3	619.5	642.5	665.1	667.7	654.4	621.6	571.3	510.7	449.2	397.2
47.5°	551.6	580.6	605.8	631.4	628.0	605.8	561.9	504.7	440.7	382.7	340.9
50°	500.4	534.6	562.7	587.0	579.8	549.1	497.4	437.7	374.1	324.7	290.1
52.5°	445.8	485.1	513.2	532.9	523.0	486.4	429.6	372.4	320.4	275.2	252.1
55°	389.1	428.8	457.8	473.1	460.3	420.7	364.8	312.7	263.7	234.2	220.6
57.5°	334.0	371.2	398.5	410.8	394.6	355.0	303.3	259.4	224.0	199.2	192.4
60°	281.1	311.4	337.5	346.8	329.4	292.7	248.3	213.3	187.3	170.2	166.8
62.5°	232.1	256.8	277.3	284.6	267.5	238.9	200.5	174.5	156.1	147.6	143.3
65°	191.6	206.1	227.0	225.7	215.4	189.0	160.8	142.5	130.5	125.0	122.4
67.5°	150.6	163.8	177.0	178.8	166.0	147.6	129.3	116.0	109.6	106.7	105.4
70°	116.5	126.3	134.4	132.3	125.4	113.9	102.4	95.1	92.6	91.3	91.3
72.5°	90.4	95.6	99.4	96.8	92.6	86.6	81.1	78.1	78.5	79.4	80.2
75°	70.0	71.2	72.1	69.5	68.7	64.8	64.4	64.8	67.4	70.0	71.2
77.5°	53.8	52.0	50.8	48.2	48.6	48.2	50.3	53.8	57.6	61.4	64.8
80°	41.4	37.5	34.6	32.0	33.3	35.4	39.7	44.8	49.9	54.2	58.4
82.5°	32.0	26.5	22.2	19.6	22.2	25.6	31.1	37.5	43.5	48.2	52.9
85°	24.7	18.3	13.2	10.7	13.2	18.3	24.3	31.6	38.0	43.1	47.8
87.5°	19.2	13.2	7.3	4.3	7.3	12.8	19.6	26.5	32.9	38.8	43.5
90°	15.4	9.0	3.4	0.9	3.8	9.0	15.4	22.2	28.6	35.0	39.7
92.5°	12.4	6.4	1.7	0.0	2.1	6.8	12.8	19.2	25.6	31.6	36.3
95°	10.2	5.1	1.3	0.0	1.7	5.1	10.2	16.6	22.6	28.6	32.4
97.5°	8.5	3.8	0.9	0.0	0.9	4.3	8.5	14.1	20.1	25.6	29.4
100°	7.3	3.4	0.9	0.0	0.9	3.4	7.3	12.4	17.5	22.6	26.5
102.5°	6.0	2.6	0.4	0.4	0.4	2.6	6.4	10.7	15.4	20.1	23.9
105°	5.5	2.1	0.4	0.4	0.4	2.1	5.5	9.4	13.7	17.9	21.3
107.5°	4.7	1.7	0.4	0.4	0.4	1.7	4.7	8.1	12.4	16.2	19.2
110°	3.8	1.7	0.4	0.4	0.4	1.7	3.8	7.3	10.7	14.1	17.1



TEST NUMBER: P1213372

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	3.4	1.3	0.4	0.4	0.4	1.3	3.4	6.4	9.4	12.8	15.4
115°	3.0	1.3	0.4	0.4	0.4	1.3	3.0	5.5	8.1	11.1	13.7
117.5°	2.6	1.3	0.4	0.4	0.4	0.9	2.6	4.7	7.3	9.8	12.4
120°	2.1	0.9	0.4	0.4	0.4	0.9	2.1	4.3	6.4	8.5	10.7
122.5°	2.1	0.9	0.4	0.4	0.4	0.9	1.7	3.4	5.5	7.3	9.4
125°	1.7	0.9	0.4	0.4	0.4	0.4	1.7	3.0	4.7	6.4	8.1
127.5°	1.7	0.9	0.4	0.4	0.4	0.4	1.3	2.6	3.8	5.5	7.3
130°	1.3	0.9	0.4	0.4	0.4	0.4	0.9	2.1	3.4	4.7	6.0
132.5°	1.3	0.9	0.4	0.4	0.4	0.4	0.9	1.7	2.6	3.8	5.1
135°	1.3	0.4	0.4	0.4	0.4	0.4	0.4	1.3	2.1	3.0	3.8
137.5°	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.7	2.1	3.4
140°	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3	1.7	2.6
142.5°	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3	2.1
145°	0.9	0.4	0.4	0.9	0.9	0.4	0.4	0.9	0.9	1.3	1.7
147.5°	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	1.3
150°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213372

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9
2.5°	830.2	820.4	825.5	823.8	825.5	829.8	829.4	828.1	828.9	826.8	824.7
5°	828.5	818.7	823.8	821.7	823.8	828.1	827.2	825.9	827.2	824.7	822.5
7.5°	826.4	817.4	823.4	823.0	826.8	832.3	832.8	832.8	835.8	831.9	830.2
10°	826.4	821.7	829.8	832.8	842.6	849.8	850.7	852.4	857.5	856.7	852.4
12.5°	835.3	834.5	846.4	853.7	862.6	872.9	878.4	880.1	883.5	881.0	879.3
15°	846.9	851.1	864.3	872.4	882.3	889.9	891.2	892.1	894.6	890.8	887.8
17.5°	862.2	864.8	875.4	878.8	885.2	886.5	884.8	880.6	880.6	872.0	869.5
20°	869.5	868.2	872.4	866.9	864.3	856.7	849.4	841.3	840.9	831.9	831.1
22.5°	863.1	854.5	845.6	831.9	825.9	814.9	805.0	800.3	797.4	785.8	782.9
25°	840.5	819.5	806.3	790.1	775.6	762.8	753.4	743.6	734.2	724.8	720.6
27.5°	801.2	781.6	760.2	737.6	717.6	698.0	682.2	672.4	663.4	651.0	644.6
30°	753.0	725.7	702.2	680.5	647.6	623.7	610.5	590.9	584.0	578.5	566.6
32.5°	696.3	663.4	631.4	602.0	568.3	546.1	528.6	514.1	509.8	495.3	491.9
35°	633.5	590.4	554.2	525.2	500.9	474.0	459.5	449.7	441.1	431.3	429.6
37.5°	559.7	520.9	480.0	454.4	435.2	412.1	401.0	394.2	390.4	383.1	381.8
40°	485.5	446.7	418.5	392.9	381.0	368.6	360.5	357.5	355.8	353.2	350.7
42.5°	418.1	384.0	363.9	346.8	341.7	335.8	333.6	335.3	333.6	332.8	332.3
45°	360.9	334.9	320.8	315.7	314.4	312.7	314.4	317.4	317.8	317.0	317.0
47.5°	308.9	296.5	290.5	291.4	293.5	294.8	297.8	301.6	302.5	300.3	301.2
50°	274.7	267.5	266.2	269.6	274.3	276.0	279.4	282.4	282.0	281.1	280.3
52.5°	242.7	240.6	244.0	247.4	252.6	253.4	254.7	256.0	255.5	253.8	253.0
55°	215.9	217.6	220.6	221.8	225.7	225.3	225.7	225.7	224.0	223.1	221.8
57.5°	191.6	192.0	193.7	194.1	196.2	195.4	195.0	194.1	191.6	191.1	189.8
60°	166.8	166.0	169.8	166.8	168.5	166.8	166.4	164.3	161.7	161.3	160.4
62.5°	143.3	141.6	144.2	142.9	143.8	142.1	141.2	138.7	136.5	136.1	135.7
65°	122.4	121.6	124.1	123.7	124.6	122.4	121.6	119.9	118.2	117.7	117.3
67.5°	104.9	107.1	108.4	108.4	109.2	108.8	106.7	106.2	105.8	104.1	104.1
70°	92.2	93.4	96.0	96.4	96.0	96.8	95.1	94.7	94.3	93.4	93.0
72.5°	81.9	83.6	86.2	86.6	86.2	86.2	85.3	84.9	84.9	83.6	83.6
75°	73.8	75.9	78.1	78.1	78.1	77.2	76.4	76.4	75.5	75.1	74.2
77.5°	67.0	69.5	71.2	70.8	70.4	69.5	69.5	68.3	67.0	67.0	66.1
80°	61.9	63.6	64.8	64.4	64.0	62.7	62.3	61.0	60.2	58.9	58.9
82.5°	56.3	58.4	59.3	58.9	58.0	56.7	56.3	55.5	54.6	54.2	53.3
85°	51.6	53.8	54.2	53.3	52.5	51.6	51.2	50.8	50.3	49.5	49.5
87.5°	46.9	49.1	49.1	48.6	47.8	47.4	46.9	46.5	46.1	45.6	45.2
90°	43.1	44.8	44.8	44.4	43.9	43.5	43.1	42.7	42.2	41.8	41.8
92.5°	39.2	41.0	41.0	40.5	40.1	39.7	39.7	39.2	38.8	38.4	38.0
95°	35.8	37.5	37.5	37.5	37.1	36.7	36.7	36.3	35.8	35.8	35.4
97.5°	32.4	34.1	34.1	34.1	33.7	33.3	33.3	32.9	32.9	32.9	32.4
100°	29.4	30.7	31.1	31.1	30.7	30.7	30.7	30.3	30.3	30.3	29.9
102.5°	26.5	27.7	28.6	28.6	28.6	28.2	28.2	28.2	28.2	28.2	27.7
105°	23.9	25.2	26.0	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
107.5°	21.8	23.0	23.9	24.3	24.7	24.7	25.2	25.2	25.2	25.2	25.2
110°	19.6	20.9	22.2	22.6	23.0	23.5	23.5	23.9	23.5	23.5	23.5

TEST NUMBER: P1213372

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	17.5	19.2	20.1	20.9	21.3	21.8	22.2	22.2	22.2	22.2	22.2
115°	15.8	17.5	18.3	19.2	20.1	20.5	20.5	20.9	20.9	20.9	20.5
117.5°	14.1	15.8	16.6	17.5	17.9	18.8	19.2	19.2	19.2	19.2	18.8
120°	12.8	14.1	14.9	15.8	16.6	17.1	17.5	17.5	17.5	17.5	17.5
122.5°	11.1	12.4	13.7	14.5	14.9	15.4	15.8	15.8	15.8	15.8	15.8
125°	9.8	11.1	11.9	12.8	13.2	14.1	14.1	14.1	14.1	14.1	14.1
127.5°	8.5	9.8	10.7	11.5	11.9	12.4	12.8	12.8	12.8	12.8	12.8
130°	7.3	8.5	9.4	10.2	10.7	11.1	11.1	11.5	11.5	11.5	11.5
132.5°	6.4	7.3	8.1	9.0	9.4	9.8	9.8	10.2	10.2	10.2	10.2
135°	5.1	6.4	6.8	7.7	8.1	8.5	8.5	9.0	9.0	9.0	9.0
137.5°	4.3	5.1	6.0	6.8	7.3	7.3	7.7	7.7	8.1	8.1	8.1
140°	3.4	3.8	5.1	5.5	6.0	6.4	6.8	6.8	6.8	6.8	6.8
142.5°	2.6	3.4	3.8	4.7	5.1	5.5	6.0	6.0	6.0	6.0	6.0
145°	2.1	2.6	3.0	3.8	4.3	4.7	5.1	5.1	5.1	5.1	5.1
147.5°	1.7	2.1	2.6	3.0	3.4	3.8	4.3	4.3	4.3	4.3	4.3
150°	1.3	1.7	2.1	2.1	2.6	3.0	3.4	3.8	3.8	3.8	3.8
152.5°	1.3	1.3	1.7	1.7	2.1	2.6	3.0	3.0	3.0	3.0	3.0
155°	0.9	1.3	1.3	1.3	1.7	1.7	2.1	2.6	2.6	2.6	2.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213372

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9
2.5°	825.9	827.7	826.8	825.5	825.1	827.2	825.1	815.3	819.1	819.5	822.5
5°	824.7	825.9	825.1	824.2	823.0	825.5	823.0	812.7	816.6	817.0	820.0
7.5°	833.2	833.6	833.6	831.5	828.1	829.4	825.9	814.4	816.6	816.6	818.7
10°	854.5	855.4	856.7	851.1	846.9	843.4	838.7	824.7	824.2	820.8	820.8
12.5°	882.3	880.1	878.0	875.4	872.0	867.8	860.9	844.3	838.7	833.2	827.7
15°	890.4	889.5	889.1	887.8	885.7	884.4	879.3	862.6	854.5	847.7	837.9
17.5°	869.0	870.7	876.3	876.7	879.3	884.4	883.5	872.0	864.8	861.8	849.8
20°	830.6	831.1	837.9	840.9	852.0	860.5	866.9	865.6	863.9	867.3	858.4
22.5°	784.6	787.5	794.8	799.5	810.2	820.0	830.2	835.8	844.7	858.8	857.1
25°	721.8	725.7	735.9	743.6	758.5	773.5	787.1	796.9	807.6	834.5	843.4
27.5°	646.8	652.7	666.0	673.6	694.5	709.9	729.5	748.7	763.7	794.4	812.7
30°	567.8	573.0	587.0	597.7	615.6	636.5	661.3	688.6	713.3	744.5	767.5
32.5°	494.0	499.6	511.1	520.5	540.5	558.0	585.3	619.0	642.1	685.2	715.9
35°	429.6	434.7	442.8	450.9	467.6	485.5	509.0	541.8	571.3	616.0	654.9
37.5°	384.4	385.2	389.9	394.6	407.0	420.7	439.0	468.0	495.3	543.5	586.2
40°	352.0	352.0	354.5	355.8	361.4	369.5	381.0	403.6	426.2	462.9	514.9
42.5°	331.9	331.1	331.1	331.5	331.1	334.9	341.7	352.4	372.4	402.7	443.3
45°	317.0	315.3	314.0	311.0	309.3	309.3	309.7	313.6	325.1	344.7	377.6
47.5°	300.3	299.9	297.8	294.4	291.4	289.3	285.8	284.6	288.0	299.1	321.2
50°	281.1	279.0	276.9	274.3	270.9	268.8	262.4	262.8	259.8	264.9	276.5
52.5°	253.0	251.3	250.4	248.3	247.0	246.2	241.0	235.9	234.6	235.5	239.8
55°	221.8	222.7	219.3	221.0	220.6	216.7	214.6	210.8	209.5	209.0	211.2
57.5°	189.4	190.3	188.1	189.8	189.8	187.7	186.4	186.4	183.4	180.9	183.9
60°	160.0	158.3	159.6	161.7	161.7	160.4	159.6	159.6	157.4	156.6	158.7
62.5°	136.1	134.4	135.7	137.8	138.2	137.4	136.5	136.5	134.0	134.0	135.7
65°	117.7	118.2	117.7	119.5	119.5	119.9	119.0	118.2	115.2	116.5	116.0
67.5°	104.5	104.1	104.1	105.8	105.4	106.2	105.4	104.1	102.0	100.3	99.8
70°	93.4	93.0	93.0	93.9	94.3	94.3	93.9	93.0	90.0	88.3	87.0
72.5°	83.6	83.2	83.6	84.0	84.5	84.9	84.5	83.6	81.1	78.9	76.8
75°	74.7	74.2	75.5	75.5	75.9	75.9	76.4	75.9	73.8	71.2	68.7
77.5°	65.7	66.1	67.4	67.8	68.7	69.1	69.5	69.5	67.4	65.3	61.9
80°	58.4	59.3	60.2	60.6	61.4	62.7	63.1	63.6	61.9	59.7	55.9
82.5°	53.3	53.8	54.6	55.0	56.3	56.7	57.2	58.0	57.2	55.0	50.8
85°	49.1	49.5	50.3	50.3	51.2	52.0	52.5	52.9	52.5	50.3	46.1
87.5°	45.2	45.6	46.1	46.5	46.9	47.4	47.8	48.2	47.8	45.6	41.8
90°	41.8	41.8	42.2	42.2	42.7	43.1	43.9	43.9	43.5	41.8	38.0
92.5°	38.0	38.4	38.4	38.8	39.2	39.7	40.1	40.1	39.7	38.0	34.6
95°	35.4	35.4	35.8	35.8	36.3	36.3	36.7	36.7	36.3	34.6	31.1
97.5°	32.4	32.4	32.4	32.4	32.9	32.9	33.3	33.3	32.9	31.1	28.2
100°	29.9	29.9	29.9	29.9	29.9	30.3	30.3	30.3	29.9	28.2	25.2
102.5°	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	26.9	25.6	22.6
105°	26.5	26.5	26.5	26.0	26.0	26.0	25.6	25.6	24.3	23.0	20.5
107.5°	24.7	24.7	24.7	24.3	24.3	23.9	23.5	23.5	22.2	20.9	18.3
110°	23.5	23.5	23.5	23.0	22.6	22.2	21.8	21.3	20.1	18.3	16.2

TEST NUMBER: P1213372

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	22.2	22.2	21.8	21.8	21.3	20.9	20.1	19.6	18.3	16.6	14.5
115°	20.5	20.5	20.5	20.1	19.6	19.2	18.8	17.9	16.6	14.9	12.8
117.5°	18.8	18.8	18.8	18.3	17.9	17.5	17.1	16.2	14.9	13.2	11.5
120°	17.1	17.1	17.1	16.6	16.2	15.8	15.4	14.5	13.2	11.9	9.8
122.5°	15.8	15.8	15.4	14.9	14.5	14.1	13.7	12.8	11.9	10.2	8.5
125°	14.1	14.1	13.7	13.7	13.2	12.8	12.4	11.5	10.2	9.0	7.7
127.5°	12.8	12.4	12.4	12.4	11.9	11.5	10.7	10.2	9.0	7.7	6.4
130°	11.1	11.1	11.1	10.7	10.7	10.2	9.4	8.5	7.7	6.8	5.5
132.5°	9.8	9.8	9.8	9.8	9.4	9.0	8.1	7.7	6.8	5.5	4.7
135°	9.0	9.0	8.5	8.5	8.1	7.7	7.3	6.4	5.5	4.7	3.8
137.5°	7.7	7.7	7.7	7.3	7.3	6.8	6.0	5.5	5.1	4.3	3.4
140°	6.8	6.8	6.4	6.4	6.0	6.0	5.5	4.7	4.3	3.4	3.0
142.5°	6.0	6.0	5.5	5.5	5.1	5.1	4.7	4.3	3.4	3.0	2.1
145°	5.1	5.1	4.7	4.7	4.7	4.3	3.8	3.4	3.0	2.6	2.1
147.5°	4.3	4.3	4.3	3.8	3.8	3.4	3.4	3.0	2.6	2.1	1.7
150°	3.8	3.8	3.4	3.4	3.4	3.0	2.6	2.6	2.1	1.7	1.3
152.5°	3.0	3.0	3.0	3.0	2.6	2.6	2.1	2.1	1.7	1.3	1.3
155°	2.6	2.6	2.6	2.1	2.1	2.1	1.7	1.7	1.3	1.3	0.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213372

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	825.9	825.9	825.9	825.9	825.9	825.9	825.9
2.5°	821.3	820.8	824.7	824.2	819.1	826.8	831.9
5°	819.1	818.7	822.1	823.0	817.4	825.5	831.1
7.5°	817.4	817.0	820.8	822.1	816.6	823.8	829.8
10°	817.8	815.7	819.1	820.0	814.9	822.5	827.7
12.5°	820.8	815.7	817.0	817.0	812.3	819.1	824.7
15°	828.1	817.4	815.7	814.4	808.5	814.9	820.4
17.5°	836.2	821.7	815.7	811.4	804.2	809.7	815.7
20°	844.3	826.4	816.6	809.7	799.9	805.0	809.3
22.5°	848.1	830.6	817.4	807.2	794.8	797.4	802.1
25°	843.0	828.9	815.7	803.3	788.4	788.8	792.7
27.5°	824.2	820.4	811.9	799.5	783.3	781.1	784.1
30°	792.2	802.9	803.3	794.4	777.3	773.0	774.3
32.5°	747.4	771.3	785.4	783.7	768.8	762.8	763.7
35°	695.8	725.7	756.4	766.6	756.0	751.3	749.6
37.5°	634.0	674.1	715.0	740.2	738.5	735.5	733.8
40°	565.7	613.9	662.5	702.7	715.0	715.0	715.9
42.5°	492.8	549.1	602.4	653.2	682.2	688.6	691.1
45°	422.4	479.1	537.1	595.6	634.4	654.4	661.7
47.5°	358.4	415.5	470.6	534.6	586.2	612.2	623.7
50°	303.8	346.4	404.4	468.0	524.3	556.3	578.9
52.5°	258.5	291.8	342.6	401.9	458.6	502.6	523.5
55°	220.6	243.2	286.3	337.5	391.6	437.3	461.6
57.5°	188.6	206.5	235.9	278.6	324.2	369.5	395.5
60°	160.4	172.8	192.8	226.5	265.4	304.2	329.4
62.5°	136.1	144.2	157.4	182.2	212.5	242.7	266.2
65°	117.3	120.7	128.0	143.3	166.4	189.4	209.5
67.5°	99.0	101.1	106.7	116.0	127.6	144.2	157.4
70°	85.3	85.3	85.8	91.3	97.3	107.9	117.3
72.5°	74.2	73.0	70.4	71.7	73.0	78.9	84.9
75°	65.3	62.3	58.0	56.3	55.5	56.3	59.7
77.5°	57.6	53.3	48.2	43.9	40.5	39.2	42.2
80°	51.2	46.1	40.1	34.6	29.0	26.0	27.3
82.5°	46.1	39.7	33.3	26.9	20.5	16.2	16.2
85°	40.5	34.6	27.7	20.9	14.5	9.0	8.1
87.5°	36.7	30.3	23.0	16.6	10.2	4.7	2.6
90°	32.9	26.5	19.6	13.2	7.3	2.1	0.0
92.5°	29.4	23.5	17.1	10.7	5.1	1.3	0.0
95°	26.5	20.9	14.5	9.0	4.3	0.9	0.4
97.5°	23.5	18.3	12.8	7.3	3.0	0.9	0.4
100°	21.3	16.2	11.1	6.0	2.6	0.4	0.4
102.5°	18.8	14.5	9.4	5.1	2.1	0.4	0.4
105°	16.6	12.8	8.1	4.3	1.7	0.4	0.4
107.5°	14.9	11.1	7.3	3.8	1.7	0.4	0.4
110°	13.2	9.8	6.4	3.4	1.3	0.4	0.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	11.9	8.5	5.5	3.0	0.9	0.4	0.4
115°	10.2	7.7	4.7	2.6	0.9	0.4	0.4
117.5°	9.0	6.4	4.3	2.1	0.9	0.4	0.4
120°	7.7	5.5	3.4	1.7	0.4	0.4	0.4
122.5°	6.8	4.7	3.0	1.7	0.4	0.4	0.4
125°	6.0	4.3	2.6	1.3	0.4	0.4	0.4
127.5°	5.1	3.4	2.1	0.9	0.4	0.4	0.4
130°	4.3	3.0	1.7	0.9	0.4	0.4	0.4
132.5°	3.4	2.6	1.7	0.9	0.4	0.4	0.4
135°	3.0	2.1	1.3	0.9	0.4	0.4	0.4
137.5°	2.6	1.7	0.9	0.9	0.9	0.4	0.4
140°	2.1	1.3	0.9	0.9	0.9	0.9	0.4
142.5°	1.7	1.3	0.9	0.9	0.9	0.9	0.4
145°	1.3	0.9	0.9	0.9	0.9	0.9	0.4
147.5°	1.3	0.9	0.9	0.9	0.9	0.9	0.4
150°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)