

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: P1214074

Luminaire Tested: 4SNLED-LD5-22SL-LC-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214074
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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

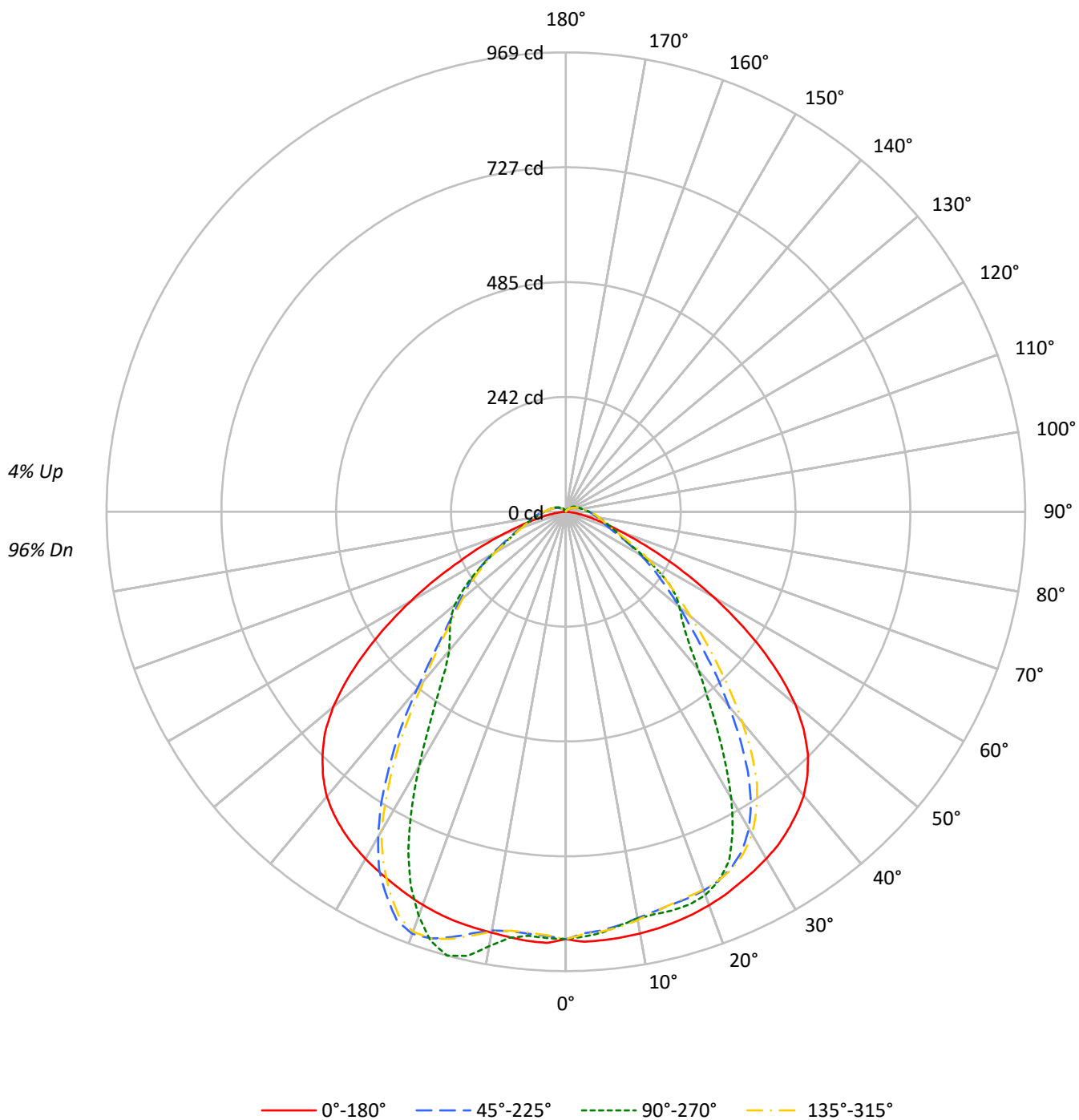
Lumens per Lamp: N/A
Luminaire Lumens: 2149.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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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CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L950-CD1-U

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°	7285	7285	7285	7285
5°	7337	6996	7353	7050
10°	7372	6705	7357	7160
15°	7429	6616	7425	7366
20°	7511	6510	7503	6862
25°	7603	6176	7599	5967
30°	7746	5353	7751	4743
35°	7898	4329	7920	3663
40°	8031	3485	8065	3070
45°	8003	2952	8044	2875
50°	7659	2718	7766	2657
55°	6795	2442	6965	2221
60°	5512	1870	5805	1715
65°	4097	1430	4414	1356
70°	2785	1235	3140	1181
75°	1823	1114	2122	1053
80°	1178	1038	1380	956
85°	601	1036	792	946

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 8044 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	4.0
10°-20°	254.8	11.9
20°-30°	387.3	18.0
30°-40°	415.5	19.3
40°-50°	360.6	16.8
50°-60°	267.2	12.4
60°-70°	153.1	7.1
70°-80°	84.8	3.9
80°-90°	51.6	2.4
90°-100°	33.6	1.6
100°-110°	22.5	1.0
110°-120°	15.2	0.7
120°-130°	9.3	0.4
130°-140°	4.9	0.2
140°-150°	2.2	0.1
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	727.7	33.9
0°-40°	1143.2	53.2
0°-60°	1771.1	82.4
0°-90°	2060.6	95.9
90°-120°	71.3	3.3
90°-150°	87.7	4.1
90°-180°	88.0	4.1
0°-180°	2149.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	902	902	902	902	902	
5°	907	891	909	898	907	86
15°	895	870	895	969	895	253
25°	865	814	865	786	865	400
35°	818	554	820	469	818	512
45°	722	355	726	346	722	553
55°	504	266	516	242	504	447
65°	229	135	246	128	229	230
75°	65	86	76	81	65	74
85°	9	59	12	54	9	12
90°	0	49	1	46	0	0
95°	0	40	0	39	0	0
105°	0	30	0	29	0	1
115°	0	25	0	22	0	0
125°	0	19	0	15	0	0
135°	0	12	0	10	0	0
145°	0	7	1	6	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°	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5
2.5°	908.0	905.6	904.7	902.8	904.2	909.8	906.1	900.1	900.5	889.8	895.4
5°	907.0	904.2	902.8	901.0	901.9	907.0	903.3	897.3	896.8	886.1	891.2
7.5°	905.6	902.8	900.5	899.1	899.6	903.8	899.1	892.1	890.7	879.1	883.8
10°	903.3	901.5	898.2	895.9	895.4	900.1	892.6	885.6	882.4	870.3	874.9
12.5°	900.1	897.3	894.0	889.8	889.3	892.1	886.1	876.3	873.0	863.3	868.4
15°	895.4	892.1	888.4	883.8	881.4	883.3	875.8	867.0	866.5	858.1	865.1
17.5°	890.3	885.6	881.4	874.9	871.7	873.0	867.0	859.1	860.0	854.9	862.8
20°	883.3	878.2	871.7	865.1	860.5	862.8	858.6	852.6	854.0	850.2	857.2
22.5°	875.4	868.4	860.5	853.0	849.3	852.6	849.3	844.2	844.6	842.3	846.5
25°	865.1	857.2	847.9	838.6	836.7	839.1	837.2	833.0	831.1	827.4	829.3
27.5°	855.8	847.0	835.3	825.6	822.3	827.0	822.8	815.8	810.7	805.5	801.8
30°	845.1	834.4	821.4	810.2	807.4	809.3	803.2	792.5	779.0	772.5	762.2
32.5°	833.5	819.5	803.2	790.6	788.8	787.4	776.2	760.8	739.9	726.8	711.0
35°	818.1	802.7	783.2	767.8	765.0	757.1	738.9	718.5	691.5	669.1	642.1
37.5°	800.9	782.7	762.2	741.7	733.8	718.0	692.4	671.0	630.0	603.0	570.4
40°	781.3	759.4	734.3	709.6	696.6	671.0	641.6	610.0	570.4	534.1	506.6
42.5°	754.3	731.0	701.2	673.8	651.4	617.4	583.0	538.3	501.9	471.2	443.3
45°	722.2	694.2	659.8	626.7	598.3	557.8	517.3	472.6	442.3	406.5	387.4
47.5°	680.7	650.5	613.7	576.9	539.7	495.0	452.6	409.8	379.5	353.9	339.9
50°	631.9	603.9	563.4	519.6	478.7	432.1	389.7	357.6	328.3	312.4	301.7
52.5°	571.3	545.2	503.8	456.3	416.7	371.1	332.5	306.4	285.4	273.8	270.1
55°	503.8	481.0	440.0	395.8	355.3	313.4	284.0	261.2	247.7	240.7	241.2
57.5°	431.6	413.9	375.3	335.7	297.5	265.9	239.3	221.2	210.9	210.5	211.9
60°	359.5	346.4	312.9	278.9	245.4	219.8	200.2	187.6	181.1	181.6	181.1
62.5°	290.6	278.4	254.2	226.3	199.8	182.5	164.8	159.7	154.1	153.7	153.7
65°	228.6	219.3	199.8	179.7	159.7	148.5	139.7	133.6	129.4	128.5	129.0
67.5°	171.8	168.1	154.6	141.1	128.5	121.5	114.1	112.7	109.4	109.4	110.4
70°	128.0	125.3	117.8	109.9	104.8	100.1	96.4	96.4	95.9	95.5	97.8
72.5°	92.7	93.1	90.8	84.7	84.3	83.3	82.4	83.8	84.3	85.7	88.5
75°	65.2	66.6	66.6	65.7	67.5	69.8	71.2	73.6	76.4	78.2	81.5
77.5°	46.1	46.1	48.4	51.2	54.9	59.1	62.9	66.1	69.8	72.2	75.0
80°	29.8	31.2	34.9	40.0	45.2	50.8	55.9	60.1	63.8	67.5	69.4
82.5°	17.7	20.0	24.7	31.2	37.7	44.7	49.8	54.9	59.1	62.9	64.3
85°	8.8	12.1	17.7	24.7	31.7	39.1	45.6	50.3	54.9	58.2	60.1
87.5°	2.8	6.5	12.6	19.1	26.5	34.0	41.0	46.1	50.3	53.1	54.9
90°	0.0	3.3	8.8	15.8	22.8	30.3	36.8	42.4	46.6	48.9	50.3
92.5°	0.0	1.9	7.0	13.0	19.6	27.0	33.5	38.6	42.4	44.7	45.6
95°	0.5	1.4	5.1	10.7	17.2	24.2	30.3	34.9	38.6	41.0	41.4
97.5°	0.5	0.9	4.2	8.8	14.9	21.4	27.5	32.1	34.9	37.3	37.7
100°	0.5	0.9	3.3	7.9	13.0	19.1	24.7	28.9	32.1	34.0	34.5
102.5°	0.5	0.5	2.8	6.5	11.6	16.8	21.9	26.1	28.9	30.7	31.7
105°	0.5	0.5	2.3	5.6	10.2	14.9	19.6	23.7	26.1	27.9	28.9
107.5°	0.5	0.5	1.9	4.7	8.8	13.0	17.7	21.0	23.7	25.6	26.5
110°	0.5	0.5	1.4	4.2	7.5	11.6	15.4	18.6	21.4	23.3	24.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.5	0.5	1.4	3.7	6.5	10.2	13.5	16.8	19.1	21.0	22.4
115°	0.5	0.5	1.4	3.3	6.1	8.8	12.1	14.9	17.2	19.1	20.5
117.5°	0.5	0.5	1.4	2.8	5.1	7.9	10.7	13.5	15.4	17.2	18.6
120°	0.5	0.5	0.9	2.3	4.7	7.0	9.3	11.6	14.0	15.8	17.2
122.5°	0.5	0.5	0.9	2.3	3.7	6.1	8.4	10.2	12.6	14.0	15.4
125°	0.5	0.5	0.9	1.9	3.3	5.6	7.5	9.3	10.7	12.6	14.0
127.5°	0.5	0.5	0.9	1.9	2.8	4.7	6.5	8.4	9.8	11.2	12.1
130°	0.5	0.5	0.9	1.4	2.3	3.7	5.6	7.0	8.8	9.8	10.7
132.5°	0.5	0.5	0.5	1.4	1.9	2.8	4.2	6.1	7.5	8.8	9.3
135°	0.5	0.5	0.5	0.9	1.9	2.3	3.3	4.7	6.1	7.5	8.4
137.5°	0.5	0.5	0.5	0.9	1.4	2.3	2.8	3.7	5.1	6.1	7.5
140°	0.5	0.5	0.5	0.9	1.4	1.9	2.3	3.3	4.2	5.1	6.1
142.5°	0.5	0.5	0.5	0.9	0.9	1.4	1.9	2.8	3.3	4.2	5.1
145°	0.5	0.5	0.5	0.9	0.9	1.4	1.9	2.3	2.8	3.3	4.2
147.5°	0.5	0.5	0.5	0.9	0.9	0.9	1.4	1.9	2.3	2.8	3.3
150°	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.9	2.3	2.8
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.9	2.3
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.9	1.9
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5
2.5°	893.5	894.5	900.1	899.6	898.7	897.7	897.7	896.8	897.7	900.1	899.1
5°	888.9	890.3	894.5	894.0	893.1	892.6	892.1	890.7	891.7	894.9	894.0
7.5°	880.5	881.9	885.6	883.8	882.4	883.3	881.0	879.6	881.4	884.7	884.2
10°	871.7	872.6	877.2	876.3	874.0	874.4	872.1	871.2	873.5	875.4	875.8
12.5°	865.6	868.9	873.0	872.6	872.1	872.6	870.3	869.3	870.7	872.6	872.1
15°	864.2	868.4	873.0	873.0	873.5	874.0	871.7	870.3	871.7	873.0	872.6
17.5°	862.8	867.9	872.1	871.7	872.1	873.0	869.3	868.4	870.3	872.1	871.2
20°	858.1	862.8	865.6	864.7	864.7	865.1	860.5	860.5	863.3	864.7	865.1
22.5°	845.1	850.7	850.7	848.4	848.4	846.5	845.1	842.3	845.6	847.9	849.8
25°	825.6	827.9	825.1	820.0	817.2	814.8	808.3	813.9	813.9	820.9	823.2
27.5°	798.1	793.0	785.0	774.3	772.0	764.6	760.4	761.8	764.1	773.9	781.3
30°	752.9	737.6	724.0	719.4	709.1	701.7	694.2	698.0	702.2	707.8	723.1
32.5°	693.3	678.4	656.5	648.6	637.9	628.6	619.7	625.3	632.8	636.5	653.3
35°	624.9	607.2	587.2	573.7	562.5	557.4	546.2	554.1	562.0	564.8	579.2
37.5°	552.2	534.1	516.4	504.7	494.0	490.8	483.3	488.9	495.0	499.2	511.3
40°	483.3	466.6	453.1	445.1	437.7	434.9	432.1	434.4	439.1	442.3	451.7
42.5°	424.2	410.7	401.4	396.7	391.6	387.9	388.3	389.3	391.6	398.6	402.8
45°	372.5	364.6	358.5	357.6	354.3	353.9	353.4	355.3	356.7	360.9	364.1
47.5°	331.1	327.8	326.4	328.3	329.7	327.8	328.7	331.1	333.9	333.9	333.4
50°	298.5	299.4	301.3	305.5	308.2	309.2	310.1	312.9	313.4	314.3	312.9
52.5°	271.9	272.9	278.0	284.5	287.8	289.2	291.0	293.8	293.8	294.7	292.9
55°	244.9	246.3	251.4	258.0	260.8	262.6	264.5	266.3	267.7	269.6	268.2
57.5°	215.1	219.3	222.6	224.4	226.3	227.7	229.1	229.6	232.3	232.8	235.1
60°	183.5	184.4	187.6	187.2	185.8	189.5	187.6	190.9	194.2	198.4	198.8
62.5°	153.2	153.7	156.0	155.1	156.9	156.5	157.8	157.8	160.2	162.0	164.4
65°	129.4	129.9	131.8	131.8	131.3	132.7	134.1	135.0	135.0	136.4	138.3
67.5°	111.8	113.1	115.0	115.9	116.9	116.9	118.3	118.7	119.7	120.1	121.1
70°	99.6	101.5	103.4	104.3	104.8	105.7	106.2	106.2	107.1	107.6	108.5
72.5°	90.8	92.7	94.1	94.1	95.0	95.5	95.5	95.9	96.4	97.3	98.2
75°	83.3	84.7	85.7	85.2	85.2	85.2	85.7	85.7	86.6	87.5	88.5
77.5°	76.4	77.8	77.8	76.8	76.8	76.8	76.8	77.3	77.8	78.7	79.6
80°	71.2	71.2	70.8	70.8	69.8	69.4	69.4	69.8	69.8	70.8	72.2
82.5°	65.7	65.7	65.2	64.7	64.3	63.8	63.8	64.3	64.7	65.2	66.1
85°	60.5	60.5	59.6	59.6	59.1	59.1	59.1	59.1	59.6	60.1	61.0
87.5°	55.4	54.9	54.5	54.0	54.0	54.0	54.0	54.0	54.5	55.4	55.9
90°	50.3	49.8	49.4	49.4	48.9	48.9	49.4	49.4	49.8	50.3	50.8
92.5°	45.6	45.2	44.7	44.7	44.2	44.2	44.7	44.2	45.2	45.2	45.6
95°	41.4	41.0	40.5	40.5	40.5	40.5	40.5	40.5	41.0	41.0	41.4
97.5°	37.7	37.3	36.8	36.8	37.3	36.8	37.3	37.3	37.3	37.7	38.2
100°	34.5	34.0	34.0	34.5	34.0	34.0	34.5	34.5	34.5	34.5	34.9
102.5°	31.7	31.7	31.7	31.7	31.7	31.7	32.1	32.1	32.1	32.1	32.6
105°	28.9	29.3	29.3	29.3	29.8	29.8	29.8	30.3	30.3	30.3	30.3
107.5°	27.0	27.5	27.5	27.9	27.9	28.4	28.4	28.4	28.4	28.9	28.9
110°	25.1	25.6	26.1	26.5	26.5	27.0	27.0	27.0	27.0	27.0	27.0

TEST NUMBER: P1214074

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	23.3	23.7	24.2	25.1	25.6	25.6	25.6	25.6	26.1	26.1	25.6
115°	21.4	22.4	22.8	23.7	24.2	24.2	24.7	24.7	24.7	24.7	24.2
117.5°	19.6	21.0	21.4	22.4	22.8	22.8	23.3	23.3	23.3	23.3	22.8
120°	18.2	19.1	20.0	20.5	21.0	21.4	21.4	21.9	21.9	21.9	21.4
122.5°	16.8	17.7	18.6	19.1	19.6	20.0	20.0	20.0	20.0	20.0	20.0
125°	14.9	15.8	16.8	17.2	17.7	18.2	18.2	18.6	18.6	18.6	18.2
127.5°	13.5	14.4	14.9	15.8	16.3	16.3	16.8	16.8	16.8	16.8	16.3
130°	11.6	12.6	13.5	14.0	14.4	14.4	14.9	14.9	14.9	14.9	14.9
132.5°	10.2	11.2	11.6	12.6	12.6	13.0	13.0	13.5	13.5	13.5	13.0
135°	9.3	9.8	10.2	11.2	11.2	11.6	11.6	11.6	11.6	11.6	11.6
137.5°	8.4	8.8	9.3	9.8	9.8	10.2	10.2	10.2	10.2	10.7	10.2
140°	7.0	7.9	8.4	8.4	8.8	8.8	8.8	9.3	9.3	9.3	8.8
142.5°	6.1	6.5	7.0	7.5	7.9	7.9	7.9	7.9	8.4	7.9	7.9
145°	4.7	5.6	6.1	6.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0
147.5°	3.7	4.2	5.1	5.6	5.6	6.1	6.1	6.1	6.1	6.1	6.1
150°	3.3	3.3	4.2	4.7	5.1	5.1	5.1	5.1	5.1	5.1	5.1
152.5°	2.3	2.8	3.3	3.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2
155°	2.3	2.3	2.8	2.8	3.3	3.3	3.3	3.3	3.7	3.3	3.3
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: P1214074

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5
2.5°	897.7	897.3	899.1	897.3	887.9	891.7	890.3	895.4	895.9	897.3	901.9
5°	893.1	893.1	895.4	893.5	884.7	888.4	887.9	893.1	894.0	894.9	900.1
7.5°	883.8	884.2	887.5	886.1	876.8	882.4	881.9	887.9	889.8	891.7	896.3
10°	874.9	874.4	878.2	876.8	867.9	874.4	874.0	880.0	882.8	886.1	891.7
12.5°	870.3	868.9	870.3	868.9	859.1	864.2	864.7	871.7	874.9	879.1	885.6
15°	870.3	867.9	867.9	865.1	854.0	857.2	857.7	862.3	866.5	870.7	878.6
17.5°	869.3	867.0	866.5	864.2	852.1	852.1	851.6	854.9	857.2	861.4	869.8
20°	864.2	863.3	862.8	861.4	850.2	848.4	847.4	847.4	848.8	850.2	858.6
22.5°	850.7	851.6	852.6	853.5	844.6	841.4	841.9	840.9	839.5	839.5	846.5
25°	825.6	830.2	833.9	838.1	833.0	830.7	833.5	832.1	829.7	827.9	833.9
27.5°	785.5	795.3	803.2	813.4	813.9	812.1	819.5	818.6	818.1	815.3	820.0
30°	730.1	745.5	756.2	771.1	783.6	785.5	798.1	799.9	801.8	800.4	805.1
32.5°	663.1	684.0	702.2	725.4	737.6	748.3	766.0	773.4	780.9	783.2	788.3
35°	589.9	613.7	635.1	660.7	679.8	703.1	724.5	735.7	752.5	759.0	766.4
37.5°	520.6	542.9	563.9	589.5	620.2	644.4	671.0	696.1	718.9	728.2	739.4
40°	459.1	477.3	497.3	519.6	547.6	579.2	608.1	643.0	670.0	688.7	705.0
42.5°	412.5	421.4	438.6	458.6	481.0	513.1	542.5	581.6	614.2	640.7	667.7
45°	371.1	375.3	387.9	398.6	421.4	449.8	481.0	519.2	553.2	587.2	619.7
47.5°	335.7	340.8	346.9	353.4	369.7	393.5	420.5	454.9	488.9	528.5	565.7
50°	312.0	313.4	314.3	317.1	326.9	343.2	365.1	394.4	427.0	469.4	508.9
52.5°	291.0	291.0	288.2	286.8	290.6	300.8	313.4	334.3	367.8	407.0	448.9
55°	268.7	264.5	263.5	258.9	259.8	264.5	270.5	286.8	314.3	347.8	388.3
57.5°	237.5	235.6	235.6	233.7	230.0	232.3	233.7	245.4	264.9	293.8	329.2
60°	201.6	200.7	203.0	203.5	200.2	201.6	201.2	208.1	222.1	245.4	274.7
62.5°	165.8	170.0	170.4	172.3	170.4	170.0	172.3	178.3	185.3	203.0	225.8
65°	139.2	141.6	142.0	144.3	143.4	143.4	145.3	149.9	154.1	166.2	183.9
67.5°	122.0	121.1	121.5	122.9	121.5	121.1	122.5	125.3	128.5	136.0	148.5
70°	108.5	107.6	107.6	107.6	105.7	104.3	104.8	105.7	107.1	111.3	119.2
72.5°	98.2	98.2	96.9	95.5	94.1	93.1	92.2	91.3	90.8	92.2	96.4
75°	88.9	89.4	88.9	87.5	85.7	83.8	82.0	80.1	77.8	76.8	77.3
77.5°	80.6	81.0	81.5	81.0	79.2	76.8	74.0	71.2	68.0	64.7	62.9
80°	73.1	74.0	74.5	74.0	72.6	70.8	67.5	64.3	59.6	55.4	50.8
82.5°	66.6	68.0	68.4	68.4	67.5	65.7	61.9	58.2	53.1	47.5	41.4
85°	61.5	62.4	63.3	63.3	62.9	61.0	57.3	53.1	48.0	41.4	34.9
87.5°	56.3	56.8	57.7	58.7	57.7	55.9	52.6	48.0	42.8	36.3	28.9
90°	51.2	51.7	52.6	53.5	53.1	51.2	48.4	44.2	38.6	31.7	24.2
92.5°	46.1	47.0	47.5	48.0	48.4	47.0	44.7	40.5	34.9	27.9	21.0
95°	42.4	42.4	43.3	43.8	44.2	42.8	41.0	36.8	31.7	25.1	18.2
97.5°	38.6	38.6	39.6	39.6	40.0	39.1	37.3	33.5	28.4	22.4	15.4
100°	34.9	35.4	35.9	36.3	36.3	35.9	34.0	30.3	25.6	20.0	13.5
102.5°	32.6	32.6	33.1	33.1	33.5	32.6	30.7	27.5	22.8	17.7	11.6
105°	30.3	30.3	30.7	30.7	30.3	29.3	27.5	24.7	20.5	15.4	10.2
107.5°	28.4	28.4	28.4	28.4	27.9	27.0	25.1	21.9	18.2	14.0	9.3
110°	27.0	26.5	26.5	26.1	25.6	24.2	22.4	19.6	16.3	12.1	7.9

TEST NUMBER: P1214074

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	25.6	25.1	24.7	24.2	23.3	21.9	20.0	17.7	14.4	10.7	7.0
115°	24.2	23.7	23.3	22.4	21.4	20.0	18.2	15.8	12.6	9.3	6.1
117.5°	22.8	22.4	21.4	20.5	19.6	18.2	16.3	14.0	11.2	8.4	5.6
120°	21.0	20.5	20.0	19.1	18.2	16.3	14.4	12.6	9.8	7.5	4.7
122.5°	19.6	19.1	18.2	17.7	16.3	14.9	13.0	11.2	8.8	6.5	4.2
125°	17.7	17.2	16.8	15.8	14.9	13.0	11.6	9.8	7.9	5.6	3.3
127.5°	16.3	15.8	14.9	14.0	13.0	11.6	10.2	8.8	7.0	4.7	3.3
130°	14.4	14.0	13.5	12.6	11.6	10.2	9.3	7.5	6.1	4.2	2.8
132.5°	12.6	12.6	12.1	11.2	10.2	9.3	7.9	6.5	5.1	3.7	2.3
135°	11.6	11.2	10.7	9.8	9.3	7.9	7.0	5.6	4.2	3.3	1.9
137.5°	10.2	9.8	9.3	8.8	7.9	7.0	6.1	4.7	3.7	2.8	1.9
140°	8.8	8.4	8.4	7.5	7.0	6.1	5.1	4.2	3.3	2.3	1.4
142.5°	7.9	7.5	7.0	6.5	6.1	5.1	4.2	3.3	2.8	1.9	1.4
145°	7.0	6.5	6.1	5.6	5.1	4.2	3.7	2.8	2.3	1.9	1.4
147.5°	5.6	5.6	5.1	4.7	4.2	3.7	3.3	2.8	1.9	1.4	0.9
150°	4.7	4.7	4.2	3.7	3.7	3.3	2.8	2.3	1.9	1.4	0.9
152.5°	4.2	3.7	3.7	3.3	3.3	2.8	2.3	1.9	1.4	1.4	0.9
155°	3.3	3.3	3.3	2.8	2.8	2.3	1.9	1.9	1.4	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: P1214074

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5
2.5°	902.8	897.3	901.9	910.3	909.4	908.4	907.5	909.4	915.4	912.2	907.0
5°	901.5	895.9	901.0	908.9	908.4	907.0	906.1	908.0	914.0	910.8	905.2
7.5°	898.7	893.5	897.3	905.2	905.2	904.2	903.3	905.2	910.8	908.0	902.4
10°	894.0	890.3	894.0	901.5	901.9	900.1	899.1	901.5	907.0	905.6	901.0
12.5°	890.3	886.6	890.7	898.2	898.7	896.8	895.4	898.2	905.6	906.6	905.2
15°	885.2	881.9	887.0	894.9	894.9	893.5	893.5	897.3	907.5	911.7	914.0
17.5°	877.7	875.4	881.4	889.3	889.8	888.9	889.3	896.8	910.3	920.5	927.1
20°	868.4	867.5	874.0	882.4	883.8	884.2	886.6	897.7	916.4	930.3	936.8
22.5°	857.2	857.7	865.1	874.0	875.8	877.2	881.9	897.7	921.0	935.9	938.7
25°	844.6	846.0	854.0	864.7	867.0	869.8	877.7	898.2	922.4	932.2	927.5
27.5°	831.1	833.9	844.2	855.4	858.1	862.8	873.0	895.4	915.9	916.4	899.1
30°	817.2	820.4	832.5	845.6	850.2	854.9	867.5	888.9	900.1	885.2	854.9
32.5°	801.3	806.0	818.1	833.9	839.5	845.6	858.1	876.3	872.1	840.0	796.7
35°	781.3	787.8	801.8	820.4	825.6	833.5	842.3	846.5	827.9	782.3	733.4
37.5°	756.6	766.4	782.7	804.1	809.7	814.8	817.2	805.5	768.3	718.9	668.2
40°	728.2	743.1	760.8	784.6	790.2	790.2	781.8	757.1	710.1	645.4	589.0
42.5°	693.8	711.9	734.3	758.0	763.6	757.1	737.1	693.8	640.2	568.1	508.5
45°	651.9	676.1	701.2	725.9	728.7	714.3	678.4	623.5	557.4	490.3	433.5
47.5°	602.1	633.7	661.2	689.1	685.4	661.2	613.2	550.8	481.0	417.7	372.0
50°	546.2	583.4	614.2	640.7	632.8	599.3	542.9	477.7	408.4	354.3	316.6
52.5°	486.6	529.4	560.1	581.6	570.9	530.8	468.9	406.5	349.7	300.3	275.2
55°	424.7	468.0	499.6	516.4	502.4	459.1	398.1	341.3	287.8	255.6	240.7
57.5°	364.6	405.1	434.9	448.4	430.7	387.4	331.1	283.1	244.5	217.4	210.0
60°	306.8	339.9	368.3	378.6	359.5	319.4	271.0	232.8	204.4	185.8	182.1
62.5°	253.3	280.3	302.7	310.6	291.9	260.8	218.8	190.4	170.4	161.1	156.5
65°	209.1	224.9	247.7	246.3	235.1	206.3	175.5	155.5	142.5	136.4	133.6
67.5°	164.4	178.8	193.2	195.1	181.1	161.1	141.1	126.7	119.7	116.4	115.0
70°	127.1	137.8	146.7	144.3	136.9	124.3	111.8	103.8	101.0	99.6	99.6
72.5°	98.7	104.3	108.5	105.7	101.0	94.5	88.5	85.2	85.7	86.6	87.5
75°	76.4	77.8	78.7	75.9	75.0	70.8	70.3	70.8	73.6	76.4	77.8
77.5°	58.7	56.8	55.4	52.6	53.1	52.6	54.9	58.7	62.9	67.1	70.8
80°	45.2	41.0	37.7	34.9	36.3	38.6	43.3	48.9	54.5	59.1	63.8
82.5°	34.9	28.9	24.2	21.4	24.2	27.9	34.0	41.0	47.5	52.6	57.7
85°	27.0	20.0	14.4	11.6	14.4	20.0	26.5	34.5	41.4	47.0	52.2
87.5°	21.0	14.4	7.9	4.7	7.9	14.0	21.4	28.9	35.9	42.4	47.5
90°	16.8	9.8	3.7	0.9	4.2	9.8	16.8	24.2	31.2	38.2	43.3
92.5°	13.5	7.0	1.9	0.0	2.3	7.5	14.0	21.0	27.9	34.5	39.6
95°	11.2	5.6	1.4	0.0	1.9	5.6	11.2	18.2	24.7	31.2	35.4
97.5°	9.3	4.2	0.9	0.0	0.9	4.7	9.3	15.4	21.9	27.9	32.1
100°	7.9	3.7	0.9	0.0	0.9	3.7	7.9	13.5	19.1	24.7	28.9
102.5°	6.5	2.8	0.5	0.5	0.5	2.8	7.0	11.6	16.8	21.9	26.1
105°	6.1	2.3	0.5	0.5	0.5	2.3	6.1	10.2	14.9	19.6	23.3
107.5°	5.1	1.9	0.5	0.5	0.5	1.9	5.1	8.8	13.5	17.7	21.0
110°	4.2	1.9	0.5	0.5	0.5	1.9	4.2	7.9	11.6	15.4	18.6



TEST NUMBER: P1214074

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	3.7	1.4	0.5	0.5	0.5	1.4	3.7	7.0	10.2	14.0	16.8
115°	3.3	1.4	0.5	0.5	0.5	1.4	3.3	6.1	8.8	12.1	14.9
117.5°	2.8	1.4	0.5	0.5	0.5	0.9	2.8	5.1	7.9	10.7	13.5
120°	2.3	0.9	0.5	0.5	0.5	0.9	2.3	4.7	7.0	9.3	11.6
122.5°	2.3	0.9	0.5	0.5	0.5	0.9	1.9	3.7	6.1	7.9	10.2
125°	1.9	0.9	0.5	0.5	0.5	0.5	1.9	3.3	5.1	7.0	8.8
127.5°	1.9	0.9	0.5	0.5	0.5	0.5	1.4	2.8	4.2	6.1	7.9
130°	1.4	0.9	0.5	0.5	0.5	0.5	0.9	2.3	3.7	5.1	6.5
132.5°	1.4	0.9	0.5	0.5	0.5	0.5	0.9	1.9	2.8	4.2	5.6
135°	1.4	0.5	0.5	0.5	0.5	0.5	0.5	1.4	2.3	3.3	4.2
137.5°	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.9	2.3	3.7
140°	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4	1.9	2.8
142.5°	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4	2.3
145°	0.9	0.5	0.5	0.9	0.9	0.5	0.5	0.9	0.9	1.4	1.9
147.5°	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	1.4
150°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4
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: P1214074

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5
2.5°	906.1	895.4	901.0	899.1	901.0	905.6	905.2	903.8	904.7	902.4	900.1
5°	904.2	893.5	899.1	896.8	899.1	903.8	902.8	901.5	902.8	900.1	897.7
7.5°	901.9	892.1	898.7	898.2	902.4	908.4	908.9	908.9	912.2	908.0	906.1
10°	901.9	896.8	905.6	908.9	919.6	927.5	928.5	930.3	935.9	935.0	930.3
12.5°	911.7	910.8	923.8	931.7	941.5	952.7	958.7	960.6	964.3	961.5	959.7
15°	924.3	928.9	943.4	952.2	962.9	971.3	972.7	973.6	976.4	972.2	969.0
17.5°	941.0	943.8	955.5	959.2	966.2	967.6	965.7	961.1	961.1	951.7	948.9
20°	948.9	947.5	952.2	946.2	943.4	935.0	927.1	918.2	917.7	908.0	907.0
22.5°	942.0	932.6	922.9	908.0	901.5	889.3	878.6	873.5	870.3	857.7	854.4
25°	917.3	894.5	880.0	862.3	846.5	832.5	822.3	811.6	801.3	791.1	786.4
27.5°	874.4	853.0	829.7	805.1	783.2	761.8	744.5	733.8	724.0	710.5	703.6
30°	821.8	792.0	766.4	742.7	706.8	680.7	666.3	644.9	637.4	631.4	618.4
32.5°	759.9	724.0	689.1	657.0	620.2	596.0	576.9	561.1	556.4	540.6	536.9
35°	691.5	644.4	604.8	573.2	546.6	517.3	501.5	490.8	481.5	470.7	468.9
37.5°	610.9	568.5	523.8	495.9	474.9	449.8	437.7	430.2	426.0	418.1	416.7
40°	529.9	487.5	456.8	428.8	415.8	402.3	393.5	390.2	388.3	385.5	382.7
42.5°	456.3	419.1	397.2	378.6	373.0	366.4	364.1	366.0	364.1	363.2	362.7
45°	393.9	365.5	350.2	344.6	343.2	341.3	343.2	346.4	346.9	346.0	346.0
47.5°	337.1	323.6	317.1	318.0	320.4	321.7	325.0	329.2	330.1	327.8	328.7
50°	299.9	291.9	290.6	294.3	299.4	301.3	305.0	308.2	307.8	306.8	305.9
52.5°	264.9	262.6	266.3	270.1	275.7	276.6	278.0	279.4	278.9	277.0	276.1
55°	235.6	237.5	240.7	242.1	246.3	245.9	246.3	246.3	244.5	243.5	242.1
57.5°	209.1	209.5	211.4	211.9	214.2	213.3	212.8	211.9	209.1	208.6	207.2
60°	182.1	181.1	185.3	182.1	183.9	182.1	181.6	179.3	176.5	176.0	175.1
62.5°	156.5	154.6	157.4	156.0	156.9	155.1	154.1	151.3	149.0	148.5	148.1
65°	133.6	132.7	135.5	135.0	136.0	133.6	132.7	130.8	129.0	128.5	128.0
67.5°	114.5	116.9	118.3	118.3	119.2	118.7	116.4	115.9	115.5	113.6	113.6
70°	100.6	102.0	104.8	105.2	104.8	105.7	103.8	103.4	102.9	102.0	101.5
72.5°	89.4	91.3	94.1	94.5	94.1	94.1	93.1	92.7	92.7	91.3	91.3
75°	80.6	82.9	85.2	85.2	85.2	84.3	83.3	83.3	82.4	82.0	81.0
77.5°	73.1	75.9	77.8	77.3	76.8	75.9	75.9	74.5	73.1	73.1	72.2
80°	67.5	69.4	70.8	70.3	69.8	68.4	68.0	66.6	65.7	64.3	64.3
82.5°	61.5	63.8	64.7	64.3	63.3	61.9	61.5	60.5	59.6	59.1	58.2
85°	56.3	58.7	59.1	58.2	57.3	56.3	55.9	55.4	54.9	54.0	54.0
87.5°	51.2	53.5	53.5	53.1	52.2	51.7	51.2	50.8	50.3	49.8	49.4
90°	47.0	48.9	48.9	48.4	48.0	47.5	47.0	46.6	46.1	45.6	45.6
92.5°	42.8	44.7	44.7	44.2	43.8	43.3	43.3	42.8	42.4	41.9	41.4
95°	39.1	41.0	41.0	41.0	40.5	40.0	40.0	39.6	39.1	39.1	38.6
97.5°	35.4	37.3	37.3	37.3	36.8	36.3	36.3	35.9	35.9	35.9	35.4
100°	32.1	33.5	34.0	34.0	33.5	33.5	33.5	33.1	33.1	33.1	32.6
102.5°	28.9	30.3	31.2	31.2	31.2	30.7	30.7	30.7	30.7	30.7	30.3
105°	26.1	27.5	28.4	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
107.5°	23.7	25.1	26.1	26.5	27.0	27.0	27.5	27.5	27.5	27.5	27.5
110°	21.4	22.8	24.2	24.7	25.1	25.6	25.6	26.1	25.6	25.6	25.6

TEST NUMBER: P1214074

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	19.1	21.0	21.9	22.8	23.3	23.7	24.2	24.2	24.2	24.2	24.2
115°	17.2	19.1	20.0	21.0	21.9	22.4	22.4	22.8	22.8	22.8	22.4
117.5°	15.4	17.2	18.2	19.1	19.6	20.5	21.0	21.0	21.0	21.0	20.5
120°	14.0	15.4	16.3	17.2	18.2	18.6	19.1	19.1	19.1	19.1	19.1
122.5°	12.1	13.5	14.9	15.8	16.3	16.8	17.2	17.2	17.2	17.2	17.2
125°	10.7	12.1	13.0	14.0	14.4	15.4	15.4	15.4	15.4	15.4	15.4
127.5°	9.3	10.7	11.6	12.6	13.0	13.5	14.0	14.0	14.0	14.0	14.0
130°	7.9	9.3	10.2	11.2	11.6	12.1	12.1	12.6	12.6	12.6	12.6
132.5°	7.0	7.9	8.8	9.8	10.2	10.7	10.7	11.2	11.2	11.2	11.2
135°	5.6	7.0	7.5	8.4	8.8	9.3	9.3	9.8	9.8	9.8	9.8
137.5°	4.7	5.6	6.5	7.5	7.9	7.9	8.4	8.4	8.8	8.8	8.8
140°	3.7	4.2	5.6	6.1	6.5	7.0	7.5	7.5	7.5	7.5	7.5
142.5°	2.8	3.7	4.2	5.1	5.6	6.1	6.5	6.5	6.5	6.5	6.5
145°	2.3	2.8	3.3	4.2	4.7	5.1	5.6	5.6	5.6	5.6	5.6
147.5°	1.9	2.3	2.8	3.3	3.7	4.2	4.7	4.7	4.7	4.7	4.7
150°	1.4	1.9	2.3	2.3	2.8	3.3	3.7	4.2	4.2	4.2	4.2
152.5°	1.4	1.4	1.9	1.9	2.3	2.8	3.3	3.3	3.3	3.3	3.3
155°	0.9	1.4	1.4	1.4	1.9	1.9	2.3	2.8	2.8	2.8	2.8
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: P1214074

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5
2.5°	901.5	903.3	902.4	901.0	900.5	902.8	900.5	889.8	894.0	894.5	897.7
5°	900.1	901.5	900.5	899.6	898.2	901.0	898.2	887.0	891.2	891.7	894.9
7.5°	909.4	909.8	909.8	907.5	903.8	905.2	901.5	888.9	891.2	891.2	893.5
10°	932.6	933.6	935.0	928.9	924.3	920.5	915.4	900.1	899.6	895.9	895.9
12.5°	962.9	960.6	958.3	955.5	951.7	947.1	939.6	921.5	915.4	909.4	903.3
15°	971.8	970.8	970.4	969.0	966.6	965.2	959.7	941.5	932.6	925.2	914.5
17.5°	948.5	950.3	956.4	956.9	959.7	965.2	964.3	951.7	943.8	940.6	927.5
20°	906.6	907.0	914.5	917.7	929.9	939.2	946.2	944.8	942.9	946.6	936.8
22.5°	856.3	859.5	867.5	872.6	884.2	894.9	906.1	912.2	921.9	937.3	935.4
25°	787.8	792.0	803.2	811.6	827.9	844.2	859.1	869.8	881.4	910.8	920.5
27.5°	705.9	712.4	726.8	735.2	758.0	774.8	796.2	817.2	833.5	867.0	887.0
30°	619.7	625.3	640.7	652.3	671.9	694.7	721.7	751.5	778.5	812.5	837.7
32.5°	539.2	545.2	557.8	568.1	589.9	609.0	638.8	675.6	700.8	747.8	781.3
35°	468.9	474.5	483.3	492.2	510.3	529.9	555.5	591.3	623.5	672.4	714.7
37.5°	419.5	420.5	425.6	430.7	444.2	459.1	479.1	510.8	540.6	593.2	639.8
40°	384.1	384.1	386.9	388.3	394.4	403.2	415.8	440.5	465.2	505.2	562.0
42.5°	362.3	361.3	361.3	361.8	361.3	365.5	373.0	384.6	406.5	439.6	483.8
45°	346.0	344.1	342.7	339.4	337.6	337.6	338.0	342.2	354.8	376.2	412.1
47.5°	327.8	327.3	325.0	321.3	318.0	315.7	312.0	310.6	314.3	326.4	350.6
50°	306.8	304.5	302.2	299.4	295.7	293.3	286.4	286.8	283.6	289.2	301.7
52.5°	276.1	274.3	273.3	271.0	269.6	268.7	263.1	257.5	256.1	257.0	261.7
55°	242.1	243.1	239.3	241.2	240.7	236.5	234.2	230.0	228.6	228.2	230.5
57.5°	206.7	207.7	205.3	207.2	207.2	204.9	203.5	203.5	200.2	197.4	200.7
60°	174.6	172.7	174.1	176.5	176.5	175.1	174.1	174.1	171.8	170.9	173.2
62.5°	148.5	146.7	148.1	150.4	150.9	149.9	149.0	149.0	146.2	146.2	148.1
65°	128.5	129.0	128.5	130.4	130.4	130.8	129.9	129.0	125.7	127.1	126.7
67.5°	114.1	113.6	113.6	115.5	115.0	115.9	115.0	113.6	111.3	109.4	109.0
70°	102.0	101.5	101.5	102.4	102.9	102.9	102.4	101.5	98.2	96.4	95.0
72.5°	91.3	90.8	91.3	91.7	92.2	92.7	92.2	91.3	88.5	86.1	83.8
75°	81.5	81.0	82.4	82.4	82.9	82.9	83.3	82.9	80.6	77.8	75.0
77.5°	71.7	72.2	73.6	74.0	75.0	75.4	75.9	75.9	73.6	71.2	67.5
80°	63.8	64.7	65.7	66.1	67.1	68.4	68.9	69.4	67.5	65.2	61.0
82.5°	58.2	58.7	59.6	60.1	61.5	61.9	62.4	63.3	62.4	60.1	55.4
85°	53.5	54.0	54.9	54.9	55.9	56.8	57.3	57.7	57.3	54.9	50.3
87.5°	49.4	49.8	50.3	50.8	51.2	51.7	52.2	52.6	52.2	49.8	45.6
90°	45.6	45.6	46.1	46.1	46.6	47.0	48.0	48.0	47.5	45.6	41.4
92.5°	41.4	41.9	41.9	42.4	42.8	43.3	43.8	43.8	43.3	41.4	37.7
95°	38.6	38.6	39.1	39.1	39.6	39.6	40.0	40.0	39.6	37.7	34.0
97.5°	35.4	35.4	35.4	35.4	35.9	35.9	36.3	36.3	35.9	34.0	30.7
100°	32.6	32.6	32.6	32.6	32.6	33.1	33.1	33.1	32.6	30.7	27.5
102.5°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	29.3	27.9	24.7
105°	28.9	28.9	28.9	28.4	28.4	28.4	27.9	27.9	26.5	25.1	22.4
107.5°	27.0	27.0	27.0	26.5	26.5	26.1	25.6	25.6	24.2	22.8	20.0
110°	25.6	25.6	25.6	25.1	24.7	24.2	23.7	23.3	21.9	20.0	17.7



TEST NUMBER: P1214074

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	24.2	24.2	23.7	23.7	23.3	22.8	21.9	21.4	20.0	18.2	15.8
115°	22.4	22.4	22.4	21.9	21.4	21.0	20.5	19.6	18.2	16.3	14.0
117.5°	20.5	20.5	20.5	20.0	19.6	19.1	18.6	17.7	16.3	14.4	12.6
120°	18.6	18.6	18.6	18.2	17.7	17.2	16.8	15.8	14.4	13.0	10.7
122.5°	17.2	17.2	16.8	16.3	15.8	15.4	14.9	14.0	13.0	11.2	9.3
125°	15.4	15.4	14.9	14.9	14.4	14.0	13.5	12.6	11.2	9.8	8.4
127.5°	14.0	13.5	13.5	13.5	13.0	12.6	11.6	11.2	9.8	8.4	7.0
130°	12.1	12.1	12.1	11.6	11.6	11.2	10.2	9.3	8.4	7.5	6.1
132.5°	10.7	10.7	10.7	10.7	10.2	9.8	8.8	8.4	7.5	6.1	5.1
135°	9.8	9.8	9.3	9.3	8.8	8.4	7.9	7.0	6.1	5.1	4.2
137.5°	8.4	8.4	8.4	7.9	7.9	7.5	6.5	6.1	5.6	4.7	3.7
140°	7.5	7.5	7.0	7.0	6.5	6.5	6.1	5.1	4.7	3.7	3.3
142.5°	6.5	6.5	6.1	6.1	5.6	5.6	5.1	4.7	3.7	3.3	2.3
145°	5.6	5.6	5.1	5.1	5.1	4.7	4.2	3.7	3.3	2.8	2.3
147.5°	4.7	4.7	4.7	4.2	4.2	3.7	3.7	3.3	2.8	2.3	1.9
150°	4.2	4.2	3.7	3.7	3.7	3.3	2.8	2.8	2.3	1.9	1.4
152.5°	3.3	3.3	3.3	3.3	2.8	2.8	2.3	2.3	1.9	1.4	1.4
155°	2.8	2.8	2.8	2.3	2.3	2.3	1.9	1.9	1.4	1.4	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: P1214074

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	901.5	901.5	901.5	901.5	901.5	901.5	901.5
2.5°	896.3	895.9	900.1	899.6	894.0	902.4	908.0
5°	894.0	893.5	897.3	898.2	892.1	901.0	907.0
7.5°	892.1	891.7	895.9	897.3	891.2	899.1	905.6
10°	892.6	890.3	894.0	894.9	889.3	897.7	903.3
12.5°	895.9	890.3	891.7	891.7	886.6	894.0	900.1
15°	903.8	892.1	890.3	888.9	882.4	889.3	895.4
17.5°	912.6	896.8	890.3	885.6	877.7	883.8	890.3
20°	921.5	901.9	891.2	883.8	873.0	878.6	883.3
22.5°	925.7	906.6	892.1	881.0	867.5	870.3	875.4
25°	920.1	904.7	890.3	876.8	860.5	860.9	865.1
27.5°	899.6	895.4	886.1	872.6	854.9	852.6	855.8
30°	864.7	876.3	876.8	867.0	848.4	843.7	845.1
32.5°	815.8	841.9	857.2	855.4	839.1	832.5	833.5
35°	759.4	792.0	825.6	836.7	825.1	820.0	818.1
37.5°	691.9	735.7	780.4	807.9	806.0	802.7	800.9
40°	617.4	670.0	723.1	766.9	780.4	780.4	781.3
42.5°	537.8	599.3	657.5	712.9	744.5	751.5	754.3
45°	461.0	522.9	586.2	650.0	692.4	714.3	722.2
47.5°	391.1	453.5	513.6	583.4	639.8	668.2	680.7
50°	331.5	378.1	441.4	510.8	572.3	607.2	631.9
52.5°	282.2	318.5	373.9	438.6	500.5	548.5	571.3
55°	240.7	265.4	312.4	368.3	427.4	477.3	503.8
57.5°	205.8	225.4	257.5	304.1	353.9	403.2	431.6
60°	175.1	188.6	210.5	247.2	289.6	332.0	359.5
62.5°	148.5	157.4	171.8	198.8	231.9	264.9	290.6
65°	128.0	131.8	139.7	156.5	181.6	206.7	228.6
67.5°	108.0	110.4	116.4	126.7	139.2	157.4	171.8
70°	93.1	93.1	93.6	99.6	106.2	117.8	128.0
72.5°	81.0	79.6	76.8	78.2	79.6	86.1	92.7
75°	71.2	68.0	63.3	61.5	60.5	61.5	65.2
77.5°	62.9	58.2	52.6	48.0	44.2	42.8	46.1
80°	55.9	50.3	43.8	37.7	31.7	28.4	29.8
82.5°	50.3	43.3	36.3	29.3	22.4	17.7	17.7
85°	44.2	37.7	30.3	22.8	15.8	9.8	8.8
87.5°	40.0	33.1	25.1	18.2	11.2	5.1	2.8
90°	35.9	28.9	21.4	14.4	7.9	2.3	0.0
92.5°	32.1	25.6	18.6	11.6	5.6	1.4	0.0
95°	28.9	22.8	15.8	9.8	4.7	0.9	0.5
97.5°	25.6	20.0	14.0	7.9	3.3	0.9	0.5
100°	23.3	17.7	12.1	6.5	2.8	0.5	0.5
102.5°	20.5	15.8	10.2	5.6	2.3	0.5	0.5
105°	18.2	14.0	8.8	4.7	1.9	0.5	0.5
107.5°	16.3	12.1	7.9	4.2	1.9	0.5	0.5
110°	14.4	10.7	7.0	3.7	1.4	0.5	0.5

TEST NUMBER: P1214074

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	13.0	9.3	6.1	3.3	0.9	0.5	0.5
115°	11.2	8.4	5.1	2.8	0.9	0.5	0.5
117.5°	9.8	7.0	4.7	2.3	0.9	0.5	0.5
120°	8.4	6.1	3.7	1.9	0.5	0.5	0.5
122.5°	7.5	5.1	3.3	1.9	0.5	0.5	0.5
125°	6.5	4.7	2.8	1.4	0.5	0.5	0.5
127.5°	5.6	3.7	2.3	0.9	0.5	0.5	0.5
130°	4.7	3.3	1.9	0.9	0.5	0.5	0.5
132.5°	3.7	2.8	1.9	0.9	0.5	0.5	0.5
135°	3.3	2.3	1.4	0.9	0.5	0.5	0.5
137.5°	2.8	1.9	0.9	0.9	0.9	0.5	0.5
140°	2.3	1.4	0.9	0.9	0.9	0.9	0.5
142.5°	1.9	1.4	0.9	0.9	0.9	0.9	0.5
145°	1.4	0.9	0.9	0.9	0.9	0.9	0.5
147.5°	1.4	0.9	0.9	0.9	0.9	0.9	0.5
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)