

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: P1214129

Luminaire Tested: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

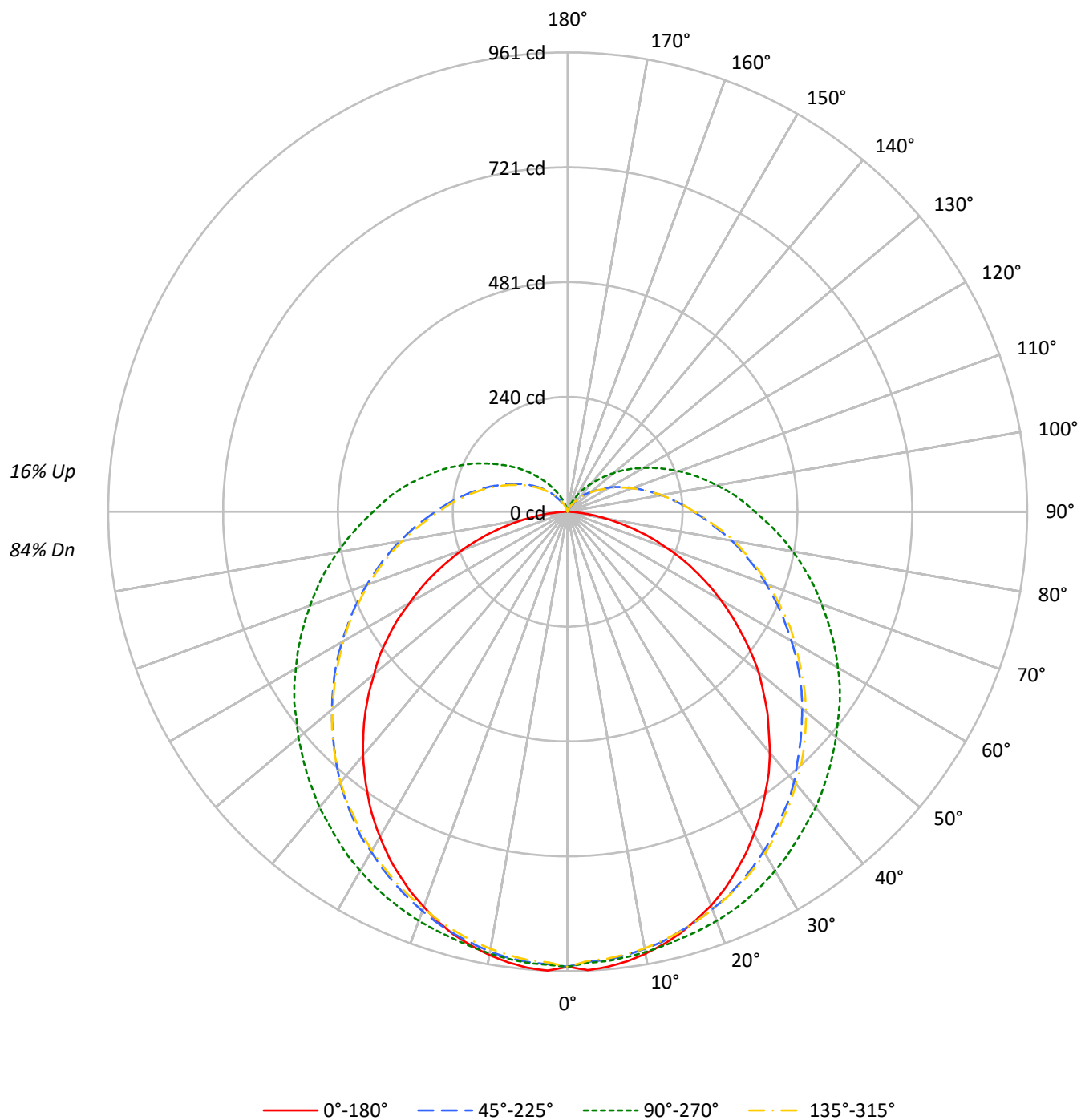
Lumens per Lamp: N/A
Luminaire Lumens: 4135.0 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 38
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-LD5-44SL-LW-UNV-L950-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1214129

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84		
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64		
2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54	51		
3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45	42		
4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38	35		
5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33	30		
6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28	26		
7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25	23		
8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22	20		
9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20	18		
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7692	7692	7692	7692
5°	7732	7412	7748	7443
10°	7660	7201	7685	7224
15°	7571	7021	7605	7028
20°	7453	6890	7478	6890
25°	7306	6772	7350	6765
30°	7141	6652	7196	6652
35°	6949	6541	7027	6549
40°	6760	6476	6842	6476
45°	6542	6406	6643	6415
50°	6316	6366	6401	6383
55°	5999	6372	6188	6400
60°	5665	6392	5849	6431
65°	5290	6456	5523	6519
70°	4763	6574	5133	6668
75°	4155	6790	4547	6920
80°	3214	7108	3653	7272
85°	1920	7618	2398	7830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 8753 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	2.2
10°-20°	259.1	6.3
20°-30°	397.3	9.6
30°-40°	490.1	11.9
40°-50°	531.7	12.9
50°-60°	524.1	12.7
60°-70°	473.9	11.5
70°-80°	394.8	9.5
80°-90°	305.8	7.4
90°-100°	231.9	5.6
100°-110°	171.6	4.2
110°-120°	119.4	2.9
120°-130°	76.2	1.8
130°-140°	42.7	1.0
140°-150°	19.5	0.5
150°-160°	6.0	0.1
160°-170°	0.8	0.0
170°-180°	0.0	0.0
0°-30°	746.6	18.1
0°-40°	1236.7	29.9
0°-60°	2292.5	55.4
0°-90°	3466.9	83.8
90°-120°	522.9	12.6
90°-150°	661.3	16.0
90°-180°	668.0	16.2
0°-180°	4135.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	952	952	952	952	952	
5°	956	944	958	948	956	91
15°	913	924	917	925	913	257
25°	831	892	836	892	831	383
35°	720	837	728	838	720	451
45°	590	771	599	772	590	455
55°	445	695	459	698	445	398
65°	295	609	308	615	295	293
75°	149	522	163	532	149	157
85°	28	435	35	447	28	34
90°	1	392	2	407	1	2
95°	1	355	1	372	1	1
105°	1	282	1	299	1	1
115°	1	215	1	234	1	1
125°	1	155	1	172	1	1
135°	1	100	1	118	1	1
145°	1	58	1	71	1	1
155°	1	24	1	33	1	0
165°	1	4	1	6	1	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°	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8
2.5°	959.8	959.8	958.8	956.8	957.8	960.8	958.8	953.8	950.8	942.7	944.7
5°	955.8	955.8	954.8	952.8	953.8	957.8	955.8	951.8	947.7	940.7	943.7
7.5°	948.7	948.7	947.7	945.7	947.7	951.8	949.7	945.7	942.7	935.7	938.7
10°	938.7	939.7	938.7	935.7	939.7	943.7	942.7	937.7	934.7	928.7	931.7
12.5°	926.7	927.7	926.7	925.7	927.7	933.7	931.7	927.7	925.7	920.6	923.6
15°	912.6	913.6	911.6	911.6	913.6	919.6	919.6	915.6	913.6	908.6	914.6
17.5°	894.5	895.5	894.5	894.5	896.5	902.6	903.6	901.6	899.5	897.5	903.6
20°	876.5	875.5	875.5	874.5	878.5	887.5	886.5	886.5	884.5	884.5	891.5
22.5°	855.4	855.4	854.4	854.4	859.4	867.4	867.4	869.4	867.4	871.4	877.5
25°	831.3	832.3	831.3	833.3	837.3	846.3	847.3	850.4	851.4	855.4	862.4
27.5°	806.2	807.2	806.2	808.2	815.2	822.2	827.3	831.3	832.3	838.3	847.3
30°	779.1	779.1	780.1	782.1	790.1	801.2	805.2	810.2	810.2	820.2	829.3
32.5°	751.0	751.0	751.0	755.0	764.0	777.1	782.1	788.1	790.1	800.2	810.2
35°	719.8	720.8	720.8	723.9	735.9	749.0	756.0	763.0	767.0	779.1	789.1
37.5°	690.7	692.7	689.7	693.7	710.8	721.8	729.9	736.9	743.9	760.0	768.0
40°	657.6	659.6	658.6	666.6	680.7	694.7	703.8	710.8	720.8	736.9	745.9
42.5°	622.5	624.5	626.5	635.5	650.6	664.6	675.7	684.7	696.7	710.8	725.9
45°	590.3	590.3	593.3	604.4	620.4	635.5	648.6	658.6	672.7	687.7	702.8
47.5°	554.2	555.2	559.2	572.3	589.3	607.4	619.4	632.5	647.6	663.6	680.7
50°	521.1	521.1	527.1	541.1	557.2	577.3	590.3	605.4	621.5	640.5	657.6
52.5°	482.9	484.9	493.9	507.0	528.1	546.2	561.2	577.3	596.4	616.4	635.5
55°	444.8	448.8	455.8	473.9	496.0	513.0	531.1	551.2	569.2	591.3	613.4
57.5°	407.6	410.6	421.7	439.7	462.8	483.9	503.0	522.1	544.1	566.2	589.3
60°	369.5	373.5	386.5	404.6	429.7	451.8	473.9	493.9	517.0	540.1	564.2
62.5°	333.3	336.3	351.4	372.5	397.6	421.7	443.8	467.8	492.9	515.0	539.1
65°	295.2	300.2	317.3	336.3	365.4	389.5	414.6	440.7	466.8	490.9	514.0
67.5°	260.0	263.0	281.1	303.2	332.3	359.4	385.5	413.6	440.7	465.8	488.9
70°	218.9	228.9	247.0	270.1	301.2	329.3	357.4	386.5	415.6	441.7	463.8
72.5°	184.7	192.8	212.8	237.9	268.1	301.2	330.3	361.4	390.5	417.6	440.7
75°	148.6	156.6	179.7	207.8	238.9	274.1	304.2	336.3	366.4	393.6	417.6
77.5°	113.4	123.5	148.6	177.7	211.8	248.0	279.1	311.2	342.4	371.5	395.6
80°	81.3	92.4	119.5	152.6	185.7	221.9	256.0	288.1	319.3	348.4	373.5
82.5°	52.2	64.3	93.4	126.5	161.6	197.8	232.9	265.0	296.2	325.3	351.4
85°	28.1	41.2	71.3	104.4	139.6	175.7	210.8	245.0	275.1	302.2	330.3
87.5°	8.0	24.1	53.2	86.3	122.5	155.6	189.7	223.9	254.0	283.1	308.2
90°	1.0	14.1	40.2	71.3	106.4	138.5	172.7	204.8	234.9	264.0	289.1
92.5°	1.0	9.0	31.1	59.2	91.4	124.5	158.6	189.7	217.9	247.0	272.1
95°	1.0	7.0	25.1	50.2	80.3	111.4	143.6	173.7	202.8	229.9	255.0
97.5°	1.0	5.0	20.1	43.2	70.3	99.4	130.5	160.6	188.7	214.8	237.9
100°	1.0	4.0	16.1	37.1	61.2	89.4	117.5	146.6	173.7	198.8	222.9
102.5°	1.0	3.0	14.1	31.1	54.2	79.3	106.4	133.5	159.6	183.7	207.8
105°	1.0	3.0	12.0	27.1	48.2	71.3	96.4	122.5	146.6	169.7	191.8
107.5°	1.0	2.0	10.0	23.1	42.2	64.3	87.3	112.4	134.5	156.6	177.7
110°	1.0	2.0	8.0	21.1	37.1	57.2	79.3	102.4	123.5	144.6	164.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.0	2.0	7.0	18.1	32.1	51.2	71.3	92.4	112.4	133.5	151.6
115°	1.0	2.0	6.0	16.1	30.1	44.2	64.3	83.3	103.4	122.5	139.6
117.5°	1.0	2.0	5.0	13.1	26.1	40.2	56.2	75.3	93.4	111.4	127.5
120°	1.0	2.0	4.0	12.0	23.1	36.1	50.2	67.3	84.3	101.4	118.5
122.5°	1.0	1.0	4.0	10.0	20.1	32.1	46.2	59.2	75.3	91.4	106.4
125°	1.0	1.0	4.0	9.0	17.1	29.1	41.2	53.2	67.3	81.3	94.4
127.5°	1.0	1.0	3.0	7.0	15.1	25.1	36.1	49.2	59.2	72.3	85.3
130°	1.0	1.0	3.0	6.0	13.1	21.1	32.1	43.2	55.2	64.3	75.3
132.5°	1.0	1.0	3.0	5.0	10.0	17.1	27.1	37.1	48.2	58.2	67.3
135°	1.0	1.0	2.0	4.0	8.0	14.1	22.1	31.1	42.2	52.2	61.2
137.5°	1.0	1.0	2.0	4.0	6.0	12.0	17.1	25.1	35.1	44.2	53.2
140°	1.0	1.0	2.0	3.0	5.0	9.0	14.1	20.1	28.1	36.1	46.2
142.5°	1.0	1.0	1.0	3.0	4.0	7.0	11.0	16.1	22.1	29.1	37.1
145°	1.0	1.0	1.0	3.0	4.0	5.0	9.0	13.1	17.1	22.1	29.1
147.5°	1.0	1.0	1.0	2.0	3.0	4.0	7.0	10.0	13.1	17.1	21.1
150°	1.0	1.0	1.0	2.0	3.0	4.0	5.0	7.0	10.0	14.1	17.1
152.5°	1.0	1.0	1.0	2.0	2.0	3.0	4.0	5.0	7.0	10.0	12.0
155°	1.0	1.0	1.0	1.0	2.0	3.0	4.0	4.0	5.0	7.0	9.0
157.5°	1.0	1.0	1.0	1.0	2.0	2.0	3.0	3.0	4.0	4.0	6.0
160°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	3.0	3.0	3.0	3.0
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0
165°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
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°	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8
2.5°	944.7	945.7	948.7	948.7	946.7	946.7	945.7	944.7	945.7	947.7	947.7
5°	942.7	943.7	946.7	947.7	945.7	944.7	944.7	943.7	944.7	946.7	946.7
7.5°	938.7	939.7	942.7	943.7	941.7	941.7	940.7	939.7	941.7	942.7	942.7
10°	932.7	933.7	937.7	938.7	937.7	936.7	936.7	935.7	936.7	938.7	938.7
12.5°	924.6	926.7	931.7	931.7	931.7	930.7	930.7	929.7	930.7	932.7	931.7
15°	915.6	919.6	923.6	925.7	925.7	925.7	924.6	923.6	925.7	926.7	925.7
17.5°	905.6	910.6	916.6	918.6	918.6	919.6	918.6	917.6	919.6	919.6	918.6
20°	895.5	900.6	906.6	908.6	910.6	911.6	911.6	910.6	911.6	912.6	911.6
22.5°	882.5	888.5	895.5	898.5	900.6	902.6	902.6	902.6	903.6	904.6	902.6
25°	868.4	875.5	883.5	886.5	890.5	891.5	892.5	892.5	893.5	894.5	891.5
27.5°	853.4	861.4	869.4	874.5	877.5	879.5	879.5	880.5	881.5	882.5	879.5
30°	835.3	847.3	854.4	858.4	862.4	865.4	866.4	867.4	868.4	869.4	866.4
32.5°	819.2	829.3	838.3	843.3	848.3	852.4	853.4	853.4	855.4	855.4	852.4
35°	800.2	812.2	821.2	826.3	832.3	835.3	837.3	837.3	839.3	839.3	836.3
37.5°	781.1	793.1	803.2	809.2	816.2	820.2	821.2	821.2	823.2	823.2	819.2
40°	761.0	774.1	785.1	792.1	798.1	803.2	804.2	807.2	807.2	806.2	802.2
42.5°	740.9	753.0	765.0	773.1	781.1	786.1	788.1	789.1	789.1	788.1	785.1
45°	718.8	732.9	743.9	754.0	762.0	767.0	770.0	771.0	771.0	769.0	766.0
47.5°	697.8	711.8	722.9	733.9	741.9	748.0	751.0	752.0	751.0	750.0	746.9
50°	675.7	691.7	702.8	713.8	721.8	726.9	731.9	732.9	731.9	730.9	724.9
52.5°	652.6	669.6	681.7	692.7	701.8	707.8	711.8	712.8	712.8	710.8	706.8
55°	629.5	644.5	659.6	671.7	681.7	687.7	692.7	694.7	692.7	690.7	685.7
57.5°	608.4	622.5	637.5	650.6	660.6	668.6	672.7	674.7	672.7	669.6	664.6
60°	583.3	598.4	615.4	627.5	638.5	646.6	648.6	652.6	650.6	647.6	642.5
62.5°	559.2	577.3	592.3	607.4	616.4	625.5	629.5	631.5	629.5	626.5	621.5
65°	534.1	554.2	569.2	584.3	594.3	603.4	608.4	609.4	607.4	604.4	599.4
67.5°	511.0	530.1	546.2	562.2	571.3	580.3	585.3	587.3	585.3	581.3	576.3
70°	487.9	507.0	526.1	538.1	549.2	559.2	562.2	565.2	563.2	559.2	553.2
72.5°	464.8	484.9	504.0	516.0	528.1	537.1	541.1	544.1	542.1	538.1	531.1
75°	440.7	461.8	480.9	493.9	506.0	515.0	519.0	522.1	520.1	516.0	508.0
77.5°	418.7	439.7	457.8	471.9	483.9	491.9	499.0	500.0	498.0	493.9	485.9
80°	395.6	416.6	435.7	449.8	461.8	469.9	474.9	477.9	475.9	471.9	463.8
82.5°	375.5	394.6	413.6	427.7	439.7	449.8	453.8	456.8	455.8	449.8	443.8
85°	353.4	375.5	390.5	405.6	417.6	427.7	430.7	434.7	433.7	428.7	420.7
87.5°	331.3	353.4	371.5	386.5	397.6	405.6	410.6	412.6	411.6	406.6	397.6
90°	313.2	333.3	351.4	367.4	376.5	385.5	390.5	391.5	391.5	385.5	378.5
92.5°	296.2	315.2	333.3	348.4	359.4	367.4	371.5	373.5	372.5	367.4	359.4
95°	277.1	298.2	315.2	330.3	341.3	349.4	353.4	355.4	354.4	349.4	341.3
97.5°	261.0	280.1	297.2	311.2	322.3	330.3	334.3	336.3	336.3	331.3	323.3
100°	245.0	264.0	280.1	294.2	304.2	312.2	316.2	317.3	316.2	312.2	304.2
102.5°	228.9	247.0	263.0	276.1	287.1	294.2	298.2	299.2	299.2	294.2	286.1
105°	212.8	230.9	246.0	260.0	269.1	276.1	279.1	282.1	281.1	277.1	269.1
107.5°	197.8	215.9	229.9	243.0	252.0	259.0	262.0	265.0	264.0	260.0	252.0
110°	183.7	200.8	213.8	226.9	234.9	242.0	247.0	248.0	246.0	242.0	234.9

TEST NUMBER: P1214129

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	170.7	185.7	198.8	210.8	219.9	224.9	228.9	230.9	228.9	224.9	219.9
115°	156.6	171.7	184.7	195.8	203.8	209.8	212.8	214.8	212.8	208.8	203.8
117.5°	143.6	157.6	170.7	181.7	188.7	193.8	196.8	198.8	196.8	193.8	188.7
120°	132.5	144.6	156.6	166.7	174.7	178.7	181.7	183.7	182.7	178.7	173.7
122.5°	119.5	132.5	143.6	153.6	160.6	164.6	166.7	168.7	167.7	164.6	159.6
125°	108.4	119.5	130.5	139.6	146.6	150.6	152.6	154.6	153.6	150.6	144.6
127.5°	96.4	108.4	117.5	126.5	131.5	137.5	138.5	140.6	139.6	136.5	131.5
130°	87.3	96.4	105.4	113.4	119.5	123.5	125.5	126.5	124.5	122.5	117.5
132.5°	76.3	86.3	94.4	101.4	105.4	109.4	111.4	112.4	112.4	109.4	105.4
135°	68.3	75.3	82.3	89.4	93.4	97.4	99.4	100.4	99.4	97.4	93.4
137.5°	61.2	67.3	72.3	78.3	83.3	85.3	87.3	87.3	86.3	85.3	82.3
140°	53.2	60.2	65.3	69.3	73.3	74.3	76.3	76.3	75.3	74.3	72.3
142.5°	45.2	51.2	56.2	61.2	64.3	66.3	67.3	68.3	67.3	66.3	63.2
145°	36.1	43.2	48.2	51.2	55.2	56.2	57.2	58.2	57.2	56.2	53.2
147.5°	28.1	34.1	39.2	43.2	46.2	47.2	48.2	49.2	48.2	46.2	45.2
150°	20.1	25.1	31.1	35.1	37.1	39.2	39.2	39.2	40.2	38.2	36.1
152.5°	16.1	18.1	22.1	26.1	29.1	30.1	31.1	31.1	30.1	30.1	28.1
155°	11.0	13.1	16.1	19.1	22.1	23.1	24.1	24.1	23.1	23.1	22.1
157.5°	7.0	9.0	11.0	13.1	16.1	17.1	18.1	18.1	18.1	17.1	16.1
160°	4.0	5.0	6.0	8.0	10.0	11.0	12.0	12.0	12.0	12.0	11.0
162.5°	3.0	3.0	3.0	4.0	5.0	6.0	7.0	7.0	7.0	7.0	6.0
165°	2.0	2.0	2.0	2.0	2.0	3.0	4.0	4.0	4.0	4.0	4.0
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: P1214129

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8
2.5°	946.7	946.7	947.7	945.7	939.7	940.7	940.7	944.7	946.7	947.7	952.8
5°	944.7	944.7	946.7	943.7	938.7	938.7	938.7	942.7	943.7	945.7	949.7
7.5°	941.7	941.7	942.7	939.7	933.7	933.7	932.7	936.7	938.7	939.7	943.7
10°	936.7	936.7	937.7	934.7	927.7	927.7	926.7	929.7	930.7	932.7	935.7
12.5°	929.7	929.7	929.7	926.7	919.6	918.6	917.6	920.6	920.6	921.6	924.6
15°	923.6	921.6	921.6	918.6	911.6	909.6	907.6	908.6	910.6	909.6	911.6
17.5°	916.6	914.6	912.6	909.6	900.6	897.5	895.5	896.5	895.5	894.5	896.5
20°	908.6	905.6	904.6	899.5	890.5	885.5	881.5	879.5	880.5	877.5	878.5
22.5°	899.5	895.5	893.5	887.5	878.5	872.4	867.4	863.4	862.4	858.4	859.4
25°	888.5	883.5	880.5	875.5	865.4	858.4	852.4	846.3	843.3	838.3	837.3
27.5°	875.5	870.4	866.4	861.4	851.4	842.3	835.3	827.3	823.2	817.2	814.2
30°	862.4	856.4	850.4	846.3	835.3	825.3	814.2	807.2	801.2	794.1	789.1
32.5°	846.3	840.3	834.3	828.3	818.2	806.2	797.1	786.1	779.1	771.0	765.0
35°	830.3	822.2	816.2	808.2	799.2	785.1	774.1	763.0	754.0	744.9	737.9
37.5°	812.2	806.2	797.1	790.1	779.1	765.0	753.0	738.9	730.9	718.8	709.8
40°	795.1	788.1	779.1	770.0	759.0	742.9	729.9	713.8	704.8	690.7	681.7
42.5°	778.1	768.0	759.0	749.0	736.9	721.8	705.8	689.7	677.7	664.6	651.6
45°	759.0	748.0	736.9	725.9	713.8	698.8	681.7	664.6	649.6	637.5	621.5
47.5°	738.9	727.9	714.8	702.8	689.7	674.7	656.6	638.5	622.5	608.4	591.3
50°	718.8	707.8	693.7	680.7	665.6	650.6	631.5	610.4	593.3	575.3	560.2
52.5°	697.8	686.7	673.7	656.6	640.5	625.5	605.4	583.3	564.2	549.2	530.1
55°	676.7	665.6	650.6	633.5	617.4	598.4	579.3	557.2	536.1	518.0	499.0
57.5°	654.6	644.5	627.5	613.4	593.3	573.3	553.2	532.1	509.0	487.9	465.8
60°	632.5	621.5	605.4	588.3	568.2	548.2	527.1	504.0	479.9	456.8	436.7
62.5°	612.4	598.4	583.3	565.2	544.1	525.1	501.0	475.9	451.8	427.7	403.6
65°	589.3	574.3	560.2	542.1	520.1	498.0	473.9	448.8	422.7	396.6	372.5
67.5°	566.2	551.2	536.1	518.0	495.0	471.9	446.8	421.7	392.5	367.4	339.3
70°	543.1	531.1	512.0	492.9	471.9	446.8	421.7	394.6	364.4	337.3	308.2
72.5°	520.1	508.0	488.9	468.9	448.8	422.7	395.6	368.5	340.3	309.2	278.1
75°	498.0	482.9	465.8	446.8	425.7	398.6	371.5	343.4	310.2	281.1	249.0
77.5°	476.9	462.8	445.8	424.7	401.6	375.5	347.4	318.3	285.1	254.0	218.9
80°	453.8	439.7	422.7	401.6	378.5	353.4	323.3	293.2	261.0	226.9	190.8
82.5°	431.7	418.7	399.6	380.5	355.4	330.3	300.2	270.1	235.9	202.8	167.7
85°	408.6	395.6	377.5	357.4	333.3	306.2	278.1	248.0	213.8	179.7	144.6
87.5°	388.5	373.5	355.4	335.3	311.2	285.1	258.0	225.9	192.8	159.6	123.5
90°	367.4	353.4	335.3	315.2	291.1	265.0	236.9	206.8	174.7	140.6	106.4
92.5°	349.4	334.3	317.3	297.2	273.1	248.0	219.9	189.7	158.6	125.5	92.4
95°	331.3	316.2	300.2	280.1	256.0	230.9	202.8	173.7	143.6	111.4	80.3
97.5°	311.2	298.2	282.1	263.0	238.9	214.8	187.7	159.6	130.5	99.4	70.3
100°	295.2	280.1	265.0	245.0	222.9	199.8	172.7	145.6	117.5	88.3	61.2
102.5°	277.1	263.0	248.0	228.9	206.8	183.7	158.6	132.5	106.4	79.3	53.2
105°	260.0	247.0	230.9	212.8	191.8	169.7	145.6	121.5	96.4	70.3	47.2
107.5°	243.0	229.9	214.8	197.8	177.7	155.6	133.5	109.4	86.3	63.2	42.2
110°	225.9	213.8	199.8	182.7	163.6	143.6	122.5	100.4	77.3	56.2	37.1

TEST NUMBER: P1214129

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	210.8	198.8	184.7	168.7	150.6	131.5	111.4	90.4	69.3	50.2	32.1
115°	195.8	184.7	170.7	156.6	138.5	120.5	101.4	81.3	62.2	45.2	28.1
117.5°	180.7	169.7	156.6	142.6	126.5	109.4	91.4	72.3	56.2	40.2	25.1
120°	165.7	155.6	143.6	130.5	116.5	99.4	81.3	65.3	50.2	35.1	22.1
122.5°	151.6	142.6	131.5	119.5	104.4	88.3	73.3	59.2	45.2	31.1	18.1
125°	138.5	129.5	119.5	107.4	93.4	79.3	66.3	53.2	39.2	27.1	15.1
127.5°	125.5	116.5	106.4	95.4	84.3	71.3	59.2	47.2	35.1	24.1	13.1
130°	112.4	104.4	95.4	86.3	75.3	63.2	53.2	41.2	30.1	19.1	11.0
132.5°	99.4	93.4	85.3	76.3	66.3	57.2	46.2	36.1	26.1	17.1	10.0
135°	88.3	82.3	75.3	67.3	59.2	50.2	40.2	31.1	22.1	14.1	8.0
137.5°	78.3	73.3	66.3	59.2	52.2	43.2	35.1	26.1	18.1	12.0	6.0
140°	69.3	64.3	58.2	51.2	45.2	37.1	29.1	21.1	16.1	10.0	5.0
142.5°	60.2	55.2	50.2	44.2	38.2	31.1	24.1	18.1	13.1	8.0	5.0
145°	51.2	47.2	42.2	37.1	31.1	25.1	20.1	15.1	10.0	6.0	4.0
147.5°	42.2	39.2	34.1	30.1	25.1	20.1	16.1	12.0	8.0	5.0	3.0
150°	34.1	31.1	27.1	23.1	20.1	16.1	13.1	9.0	6.0	5.0	3.0
152.5°	26.1	24.1	21.1	19.1	16.1	12.0	9.0	7.0	5.0	4.0	2.0
155°	21.1	19.1	17.1	14.1	12.0	9.0	7.0	5.0	4.0	3.0	2.0
157.5°	15.1	14.1	12.0	10.0	8.0	6.0	5.0	5.0	3.0	2.0	1.0
160°	10.0	9.0	8.0	6.0	5.0	5.0	4.0	3.0	2.0	2.0	1.0
162.5°	6.0	5.0	5.0	5.0	4.0	4.0	3.0	2.0	2.0	1.0	1.0
165°	4.0	4.0	4.0	3.0	3.0	3.0	2.0	1.0	1.0	1.0	1.0
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: P1214129

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8
2.5°	952.8	949.7	953.8	960.8	961.8	960.8	958.8	961.8	965.8	964.8	957.8
5°	950.8	946.7	950.8	957.8	957.8	956.8	955.8	958.8	962.8	961.8	955.8
7.5°	944.7	940.7	944.7	950.8	951.8	949.7	949.7	952.8	956.8	955.8	950.8
10°	936.7	932.7	934.7	941.7	943.7	941.7	941.7	944.7	949.7	948.7	942.7
12.5°	924.6	921.6	923.6	929.7	931.7	930.7	929.7	933.7	938.7	938.7	932.7
15°	911.6	907.6	909.6	916.6	917.6	915.6	916.6	919.6	925.7	925.7	920.6
17.5°	896.5	891.5	894.5	899.5	900.6	900.6	900.6	904.6	911.6	910.6	906.6
20°	879.5	872.4	874.5	879.5	881.5	881.5	881.5	888.5	893.5	893.5	889.5
22.5°	859.4	854.4	854.4	859.4	862.4	861.4	861.4	867.4	874.5	873.4	873.4
25°	836.3	832.3	830.3	836.3	837.3	838.3	840.3	846.3	854.4	854.4	855.4
27.5°	812.2	808.2	807.2	812.2	813.2	814.2	816.2	823.2	831.3	832.3	834.3
30°	789.1	783.1	781.1	785.1	787.1	788.1	788.1	799.2	806.2	809.2	813.2
32.5°	762.0	756.0	751.0	758.0	759.0	761.0	762.0	773.1	781.1	786.1	792.1
35°	734.9	724.9	722.9	727.9	729.9	730.9	732.9	744.9	756.0	760.0	768.0
37.5°	704.8	697.8	691.7	696.7	698.8	699.8	705.8	716.8	727.9	733.9	741.9
40°	676.7	667.6	662.6	665.6	667.6	668.6	675.7	687.7	700.8	707.8	717.8
42.5°	645.5	633.5	629.5	632.5	633.5	636.5	642.5	658.6	671.7	681.7	689.7
45°	614.4	605.4	596.4	599.4	600.4	602.4	611.4	628.5	642.5	654.6	663.6
47.5°	582.3	571.3	562.2	564.2	568.2	569.2	579.3	599.4	612.4	625.5	637.5
50°	550.2	535.1	528.1	528.1	530.1	535.1	548.2	568.2	582.3	597.4	610.4
52.5°	517.0	503.0	495.0	496.0	498.0	504.0	516.0	536.1	552.2	568.2	584.3
55°	483.9	468.9	460.8	458.8	460.8	468.9	482.9	504.0	520.1	539.1	556.2
57.5°	450.8	432.7	425.7	422.7	424.7	434.7	448.8	470.9	490.9	509.0	529.1
60°	414.6	400.6	388.5	381.5	386.5	399.6	414.6	437.7	458.8	478.9	501.0
62.5°	383.5	365.4	352.4	345.4	350.4	361.4	382.5	404.6	427.7	450.8	472.9
65°	348.4	330.3	315.2	308.2	313.2	326.3	347.4	371.5	396.6	419.7	445.8
67.5°	314.2	295.2	277.1	270.1	276.1	290.1	313.2	340.3	367.4	391.5	419.7
70°	281.1	260.0	241.0	235.9	239.9	259.0	281.1	308.2	336.3	364.4	393.6
72.5°	251.0	224.9	204.8	198.8	203.8	224.9	250.0	278.1	308.2	338.3	369.5
75°	215.9	191.8	169.7	162.6	168.7	187.7	218.9	249.0	281.1	313.2	342.4
77.5°	187.7	159.6	136.5	125.5	135.5	159.6	189.7	221.9	255.0	288.1	321.3
80°	158.6	129.5	104.4	92.4	103.4	129.5	159.6	194.8	231.9	265.0	295.2
82.5°	132.5	101.4	75.3	62.2	74.3	103.4	136.5	171.7	207.8	241.0	276.1
85°	108.4	76.3	49.2	35.1	52.2	78.3	113.4	149.6	186.7	220.9	255.0
87.5°	88.3	57.2	30.1	15.1	32.1	61.2	94.4	130.5	167.7	201.8	233.9
90°	72.3	41.2	16.1	2.0	19.1	46.2	78.3	113.4	148.6	183.7	215.9
92.5°	59.2	31.1	9.0	1.0	12.0	37.1	67.3	100.4	134.5	168.7	199.8
95°	49.2	24.1	6.0	1.0	9.0	29.1	57.2	89.4	121.5	154.6	185.7
97.5°	42.2	20.1	5.0	1.0	7.0	25.1	49.2	79.3	110.4	141.6	171.7
100°	36.1	16.1	4.0	1.0	6.0	21.1	43.2	70.3	99.4	129.5	158.6
102.5°	31.1	13.1	3.0	1.0	5.0	18.1	38.2	63.2	89.4	118.5	146.6
105°	27.1	11.0	3.0	1.0	4.0	16.1	34.1	56.2	82.3	108.4	135.5
107.5°	23.1	9.0	2.0	1.0	3.0	13.1	30.1	51.2	74.3	99.4	124.5
110°	20.1	8.0	2.0	1.0	3.0	12.0	26.1	46.2	67.3	90.4	114.5

TEST NUMBER: P1214129

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	17.1	6.0	2.0	1.0	2.0	10.0	23.1	41.2	61.2	82.3	105.4
115°	15.1	5.0	1.0	1.0	2.0	9.0	21.1	37.1	55.2	75.3	96.4
117.5°	12.0	4.0	1.0	1.0	1.0	7.0	18.1	33.1	50.2	69.3	88.3
120°	10.0	4.0	1.0	1.0	1.0	6.0	16.1	29.1	45.2	62.2	80.3
122.5°	9.0	3.0	1.0	1.0	1.0	5.0	14.1	26.1	40.2	56.2	73.3
125°	8.0	3.0	1.0	1.0	1.0	4.0	12.0	23.1	36.1	50.2	66.3
127.5°	6.0	3.0	1.0	1.0	1.0	3.0	11.0	20.1	32.1	45.2	59.2
130°	5.0	2.0	1.0	1.0	1.0	3.0	9.0	18.1	28.1	40.2	53.2
132.5°	4.0	2.0	1.0	1.0	1.0	2.0	7.0	14.1	24.1	35.1	47.2
135°	4.0	2.0	1.0	1.0	1.0	2.0	5.0	12.0	20.1	30.1	40.2
137.5°	4.0	1.0	1.0	1.0	1.0	2.0	4.0	9.0	16.1	24.1	33.1
140°	3.0	1.0	1.0	1.0	1.0	1.0	3.0	7.0	13.1	20.1	28.1
142.5°	3.0	1.0	1.0	1.0	1.0	1.0	3.0	5.0	10.0	16.1	22.1
145°	2.0	1.0	1.0	1.0	1.0	1.0	2.0	4.0	8.0	12.0	18.1
147.5°	2.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	6.0	10.0	14.1
150°	2.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	4.0	7.0	11.0
152.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	3.0	5.0	7.0
155°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	4.0	5.0
157.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	3.0	4.0
160°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	3.0
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0
165°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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: P1214129

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8
2.5°	954.8	947.7	949.7	948.7	950.8	953.8	953.8	952.8	952.8	950.8	948.7
5°	952.8	945.7	948.7	947.7	949.7	952.8	952.8	951.8	951.8	948.7	947.7
7.5°	946.7	941.7	943.7	943.7	945.7	948.7	948.7	947.7	947.7	944.7	943.7
10°	940.7	934.7	937.7	937.7	939.7	943.7	943.7	942.7	942.7	939.7	938.7
12.5°	930.7	924.6	929.7	930.7	932.7	936.7	935.7	935.7	935.7	932.7	931.7
15°	918.6	914.6	919.6	920.6	923.6	928.7	928.7	928.7	928.7	925.7	924.6
17.5°	905.6	902.6	907.6	909.6	913.6	918.6	918.6	919.6	920.6	918.6	917.6
20°	890.5	888.5	893.5	897.5	903.6	908.6	910.6	911.6	913.6	911.6	910.6
22.5°	873.4	873.4	880.5	884.5	891.5	896.5	899.5	902.6	904.6	902.6	901.6
25°	854.4	857.4	864.4	871.4	879.5	884.5	887.5	891.5	893.5	892.5	891.5
27.5°	836.3	840.3	849.4	856.4	863.4	871.4	874.5	879.5	881.5	881.5	880.5
30°	815.2	821.2	831.3	839.3	848.3	856.4	860.4	865.4	868.4	866.4	867.4
32.5°	795.1	805.2	813.2	822.2	832.3	840.3	845.3	851.4	854.4	853.4	854.4
35°	773.1	783.1	794.1	803.2	815.2	823.2	830.3	835.3	839.3	838.3	838.3
37.5°	749.0	762.0	773.1	785.1	796.1	805.2	812.2	818.2	822.2	822.2	822.2
40°	725.9	739.9	751.0	765.0	779.1	787.1	795.1	801.2	805.2	806.2	807.2
42.5°	700.8	715.8	728.9	743.9	758.0	768.0	777.1	784.1	788.1	790.1	789.1
45°	677.7	691.7	706.8	723.9	736.9	746.9	758.0	766.0	770.0	771.0	772.0
47.5°	651.6	667.6	684.7	701.8	714.8	727.9	737.9	745.9	750.0	753.0	753.0
50°	626.5	643.5	662.6	680.7	694.7	707.8	717.8	726.9	731.9	733.9	734.9
52.5°	603.4	619.4	639.5	657.6	671.7	684.7	697.8	707.8	712.8	714.8	714.8
55°	575.3	595.3	617.4	634.5	649.6	664.6	677.7	687.7	692.7	695.7	697.8
57.5°	549.2	570.3	593.3	611.4	629.5	643.5	655.6	668.6	672.7	676.7	677.7
60°	524.1	545.2	567.2	587.3	605.4	620.4	634.5	645.5	652.6	654.6	656.6
62.5°	498.0	520.1	543.1	563.2	582.3	600.4	613.4	623.5	631.5	634.5	636.5
65°	472.9	496.0	519.0	540.1	560.2	578.3	591.3	601.4	609.4	614.4	615.4
67.5°	445.8	470.9	495.0	517.0	537.1	556.2	569.2	579.3	587.3	593.3	594.3
70°	420.7	446.8	470.9	495.0	515.0	534.1	548.2	558.2	567.2	571.3	573.3
72.5°	396.6	423.7	448.8	472.9	492.9	512.0	527.1	537.1	546.2	551.2	552.2
75°	373.5	400.6	427.7	450.8	471.9	490.9	506.0	517.0	525.1	530.1	532.1
77.5°	350.4	378.5	405.6	428.7	450.8	469.9	482.9	496.0	504.0	510.0	510.0
80°	327.3	356.4	384.5	407.6	429.7	446.8	461.8	474.9	482.9	488.9	488.9
82.5°	307.2	335.3	362.4	385.5	407.6	426.7	441.7	453.8	462.8	466.8	467.8
85°	284.1	315.2	340.3	365.4	386.5	404.6	419.7	432.7	440.7	444.8	446.8
87.5°	265.0	295.2	322.3	344.4	365.4	383.5	400.6	411.6	419.7	424.7	426.7
90°	247.0	276.1	303.2	325.3	347.4	364.4	380.5	391.5	400.6	404.6	406.6
92.5°	230.9	260.0	286.1	308.2	329.3	348.4	363.4	374.5	382.5	386.5	389.5
95°	215.9	244.0	269.1	293.2	313.2	330.3	346.4	357.4	366.4	369.5	372.5
97.5°	200.8	227.9	253.0	276.1	297.2	313.2	328.3	339.3	346.4	351.4	354.4
100°	187.7	213.8	237.9	260.0	280.1	295.2	311.2	321.3	328.3	332.3	336.3
102.5°	173.7	199.8	222.9	244.0	265.0	279.1	294.2	304.2	310.2	317.3	317.3
105°	161.6	185.7	208.8	228.9	247.0	264.0	277.1	287.1	294.2	299.2	299.2
107.5°	148.6	172.7	194.8	215.9	232.9	249.0	261.0	270.1	278.1	281.1	284.1
110°	138.5	159.6	181.7	201.8	217.9	232.9	245.0	255.0	262.0	265.0	267.1

TEST NUMBER: P1214129

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	126.5	148.6	168.7	187.7	203.8	217.9	229.9	237.9	245.0	249.0	250.0
115°	116.5	137.5	155.6	173.7	190.8	202.8	213.8	221.9	228.9	231.9	233.9
117.5°	107.4	126.5	144.6	159.6	175.7	188.7	199.8	206.8	212.8	216.9	218.9
120°	98.4	116.5	132.5	147.6	162.6	174.7	184.7	191.8	198.8	201.8	201.8
122.5°	89.4	106.4	121.5	135.5	149.6	160.6	171.7	177.7	183.7	186.7	186.7
125°	81.3	97.4	111.4	124.5	137.5	147.6	156.6	163.6	169.7	171.7	171.7
127.5°	73.3	88.3	101.4	113.4	124.5	134.5	143.6	150.6	155.6	157.6	157.6
130°	66.3	79.3	91.4	103.4	114.5	122.5	131.5	137.5	140.6	143.6	144.6
132.5°	59.2	71.3	82.3	92.4	103.4	111.4	118.5	124.5	127.5	130.5	131.5
135°	52.2	63.2	73.3	83.3	92.4	100.4	106.4	111.4	115.5	117.5	118.5
137.5°	44.2	56.2	65.3	73.3	83.3	89.4	96.4	99.4	103.4	105.4	105.4
140°	37.1	46.2	56.2	64.3	72.3	78.3	84.3	89.4	92.4	93.4	93.4
142.5°	30.1	38.2	46.2	56.2	63.2	68.3	74.3	78.3	80.3	81.3	82.3
145°	24.1	30.1	37.1	46.2	54.2	60.2	63.2	67.3	69.3	70.3	71.3
147.5°	18.1	24.1	30.1	36.1	44.2	50.2	53.2	57.2	59.2	60.2	60.2
150°	14.1	18.1	22.1	28.1	34.1	41.2	45.2	48.2	49.2	50.2	50.2
152.5°	10.0	14.1	17.1	21.1	25.1	31.1	37.1	39.2	40.2	41.2	41.2
155°	7.0	10.0	12.0	15.1	18.1	23.1	28.1	31.1	32.1	33.1	33.1
157.5°	5.0	7.0	8.0	11.0	13.1	15.1	19.1	24.1	25.1	25.1	25.1
160°	3.0	4.0	5.0	7.0	8.0	10.0	12.0	15.1	18.1	18.1	18.1
162.5°	2.0	3.0	3.0	4.0	4.0	6.0	7.0	8.0	11.0	12.0	12.0
165°	1.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	5.0	6.0	6.0
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: P1214129

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8	951.8
2.5°	949.7	951.8	950.8	950.8	950.8	952.8	950.8	941.7	943.7	945.7	947.7
5°	948.7	949.7	949.7	948.7	948.7	950.8	948.7	939.7	941.7	943.7	944.7
7.5°	944.7	945.7	945.7	945.7	944.7	946.7	943.7	935.7	935.7	937.7	938.7
10°	939.7	941.7	940.7	939.7	939.7	939.7	937.7	928.7	928.7	929.7	930.7
12.5°	933.7	933.7	933.7	932.7	931.7	931.7	929.7	920.6	919.6	921.6	920.6
15°	925.7	927.7	925.7	924.6	922.6	922.6	919.6	910.6	908.6	909.6	908.6
17.5°	918.6	919.6	917.6	915.6	913.6	912.6	909.6	899.5	896.5	897.5	895.5
20°	911.6	911.6	909.6	907.6	904.6	901.6	897.5	887.5	882.5	882.5	878.5
22.5°	902.6	902.6	900.6	897.5	894.5	890.5	886.5	876.5	868.4	866.4	863.4
25°	892.5	891.5	890.5	887.5	881.5	877.5	873.4	862.4	853.4	849.4	844.3
27.5°	880.5	880.5	877.5	874.5	868.4	863.4	858.4	848.3	836.3	831.3	824.3
30°	867.4	867.4	864.4	860.4	854.4	848.3	842.3	830.3	818.2	811.2	803.2
32.5°	854.4	853.4	850.4	846.3	840.3	831.3	826.3	814.2	800.2	792.1	781.1
35°	838.3	837.3	834.3	829.3	821.2	814.2	806.2	795.1	779.1	769.0	757.0
37.5°	822.2	821.2	819.2	812.2	804.2	796.1	786.1	775.1	760.0	746.9	734.9
40°	806.2	805.2	801.2	796.1	786.1	776.1	766.0	755.0	738.9	723.9	710.8
42.5°	789.1	788.1	783.1	777.1	766.0	756.0	743.9	731.9	715.8	697.8	684.7
45°	772.0	770.0	765.0	758.0	745.9	734.9	722.9	708.8	692.7	675.7	658.6
47.5°	754.0	751.0	745.9	735.9	725.9	713.8	699.8	684.7	668.6	649.6	631.5
50°	733.9	731.9	725.9	716.8	704.8	692.7	676.7	661.6	642.5	624.5	602.4
52.5°	714.8	710.8	705.8	695.7	683.7	670.6	653.6	635.5	616.4	599.4	576.3
55°	694.7	692.7	685.7	677.7	662.6	647.6	631.5	612.4	591.3	571.3	549.2
57.5°	675.7	671.7	665.6	654.6	641.5	626.5	609.4	589.3	566.2	545.2	521.1
60°	656.6	650.6	643.5	633.5	619.4	603.4	585.3	564.2	541.1	518.0	492.9
62.5°	635.5	630.5	622.5	612.4	598.4	581.3	562.2	540.1	518.0	493.9	466.8
65°	614.4	609.4	601.4	591.3	577.3	558.2	538.1	516.0	490.9	467.8	438.7
67.5°	593.3	588.3	579.3	568.2	554.2	536.1	515.0	491.9	466.8	441.7	411.6
70°	572.3	566.2	558.2	546.2	532.1	513.0	491.9	467.8	442.7	415.6	385.5
72.5°	551.2	546.2	536.1	525.1	510.0	490.9	469.9	445.8	419.7	391.5	361.4
75°	530.1	524.1	517.0	504.0	487.9	469.9	447.8	423.7	395.6	368.5	337.3
77.5°	509.0	504.0	495.0	481.9	466.8	447.8	425.7	401.6	373.5	345.4	312.2
80°	487.9	481.9	474.9	462.8	445.8	426.7	403.6	379.5	351.4	322.3	289.1
82.5°	466.8	460.8	452.8	440.7	424.7	405.6	383.5	357.4	329.3	299.2	268.1
85°	445.8	440.7	431.7	419.7	402.6	383.5	361.4	338.3	308.2	278.1	247.0
87.5°	424.7	419.7	410.6	398.6	382.5	363.4	341.3	317.3	288.1	260.0	225.9
90°	404.6	400.6	391.5	379.5	363.4	344.4	324.3	298.2	270.1	242.0	209.8
92.5°	386.5	382.5	374.5	362.4	348.4	327.3	307.2	282.1	254.0	224.9	193.8
95°	370.5	365.4	357.4	346.4	329.3	311.2	291.1	266.0	238.9	209.8	179.7
97.5°	352.4	347.4	339.3	327.3	313.2	294.2	274.1	250.0	222.9	195.8	165.7
100°	334.3	329.3	320.3	310.2	296.2	277.1	258.0	233.9	208.8	182.7	153.6
102.5°	316.2	311.2	303.2	293.2	279.1	262.0	243.0	219.9	194.8	168.7	141.6
105°	299.2	294.2	286.1	276.1	263.0	246.0	225.9	205.8	181.7	156.6	130.5
107.5°	282.1	277.1	270.1	260.0	247.0	230.9	211.8	190.8	168.7	144.6	119.5
110°	265.0	261.0	253.0	244.0	230.9	214.8	197.8	177.7	155.6	133.5	109.4

TEST NUMBER: P1214129

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	249.0	245.0	236.9	226.9	215.9	200.8	183.7	164.6	143.6	122.5	99.4
115°	232.9	227.9	220.9	211.8	200.8	186.7	170.7	153.6	132.5	112.4	91.4
117.5°	216.9	212.8	205.8	196.8	186.7	172.7	157.6	141.6	121.5	102.4	83.3
120°	200.8	197.8	190.8	182.7	172.7	159.6	145.6	129.5	111.4	93.4	75.3
122.5°	185.7	182.7	175.7	168.7	158.6	146.6	133.5	118.5	102.4	85.3	69.3
125°	171.7	167.7	161.6	154.6	145.6	134.5	121.5	107.4	92.4	77.3	62.2
127.5°	156.6	153.6	149.6	141.6	132.5	122.5	110.4	98.4	84.3	70.3	56.2
130°	144.6	140.6	135.5	129.5	121.5	111.4	100.4	88.3	76.3	63.2	49.2
132.5°	130.5	126.5	122.5	116.5	109.4	100.4	90.4	79.3	68.3	56.2	44.2
135°	117.5	114.5	110.4	104.4	97.4	90.4	80.3	70.3	60.2	49.2	39.2
137.5°	105.4	102.4	98.4	94.4	87.3	80.3	71.3	62.2	53.2	43.2	34.1
140°	93.4	91.4	87.3	83.3	77.3	70.3	62.2	54.2	46.2	37.1	29.1
142.5°	81.3	79.3	76.3	72.3	67.3	61.2	54.2	47.2	39.2	32.1	25.1
145°	70.3	69.3	66.3	62.2	58.2	52.2	46.2	40.2	33.1	27.1	20.1
147.5°	59.2	58.2	56.2	53.2	49.2	44.2	39.2	33.1	28.1	22.1	16.1
150°	49.2	48.2	47.2	43.2	41.2	36.1	32.1	27.1	23.1	17.1	13.1
152.5°	40.2	40.2	38.2	35.1	33.1	29.1	26.1	22.1	18.1	14.1	10.0
155°	32.1	31.1	30.1	28.1	26.1	23.1	20.1	17.1	14.1	10.0	7.0
157.5°	25.1	24.1	23.1	21.1	19.1	18.1	15.1	12.0	9.0	7.0	5.0
160°	18.1	17.1	16.1	15.1	14.1	12.0	10.0	8.0	6.0	4.0	3.0
162.5°	12.0	11.0	11.0	10.0	9.0	7.0	6.0	5.0	4.0	3.0	2.0
165°	6.0	6.0	5.0	5.0	4.0	3.0	3.0	3.0	2.0	2.0	1.0
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: P1214129

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	951.8	951.8	951.8	951.8	951.8	951.8	951.8
2.5°	946.7	946.7	950.8	949.7	946.7	952.8	959.8
5°	943.7	943.7	946.7	946.7	943.7	949.7	955.8
7.5°	938.7	937.7	940.7	940.7	936.7	941.7	948.7
10°	929.7	928.7	931.7	931.7	927.7	932.7	938.7
12.5°	919.6	917.6	920.6	919.6	915.6	920.6	926.7
15°	906.6	905.6	907.6	905.6	901.6	906.6	912.6
17.5°	893.5	890.5	891.5	891.5	884.5	889.5	894.5
20°	876.5	872.4	873.4	872.4	867.4	870.4	876.5
22.5°	859.4	853.4	853.4	852.4	846.3	850.4	855.4
25°	838.3	831.3	831.3	830.3	823.2	826.3	831.3
27.5°	817.2	810.2	807.2	806.2	799.2	799.2	806.2
30°	795.1	785.1	783.1	780.1	773.1	773.1	779.1
32.5°	774.1	760.0	756.0	752.0	744.9	743.9	751.0
35°	745.9	734.9	727.9	723.9	715.8	713.8	719.8
37.5°	722.9	708.8	698.8	693.7	685.7	682.7	690.7
40°	697.8	682.7	669.6	666.6	654.6	650.6	657.6
42.5°	669.6	653.6	640.5	634.5	625.5	621.5	622.5
45°	641.5	624.5	610.4	602.4	593.3	586.3	590.3
47.5°	612.4	597.4	580.3	568.2	557.2	552.2	554.2
50°	583.3	565.2	549.2	536.1	523.1	517.0	521.1
52.5°	554.2	535.1	517.0	503.0	487.9	481.9	482.9
55°	526.1	506.0	484.9	469.9	455.8	446.8	444.8
57.5°	498.0	475.9	453.8	436.7	418.7	410.6	407.6
60°	467.8	444.8	421.7	401.6	382.5	373.5	369.5
62.5°	439.7	414.6	388.5	367.4	348.4	336.3	333.3
65°	412.6	383.5	357.4	333.3	312.2	299.2	295.2
67.5°	383.5	353.4	325.3	299.2	279.1	262.0	260.0
70°	356.4	324.3	293.2	266.0	244.0	226.9	218.9
72.5°	329.3	296.2	264.0	234.9	206.8	190.8	184.7
75°	303.2	269.1	234.9	204.8	173.7	154.6	148.6
77.5°	279.1	244.0	207.8	174.7	145.6	121.5	113.4
80°	256.0	219.9	181.7	147.6	116.5	90.4	81.3
82.5°	231.9	197.8	158.6	122.5	90.4	63.2	52.2
85°	210.8	176.7	137.5	101.4	69.3	40.2	28.1
87.5°	193.8	156.6	121.5	85.3	52.2	23.1	8.0
90°	176.7	140.6	105.4	70.3	39.2	13.1	1.0
92.5°	161.6	127.5	92.4	60.2	30.1	9.0	1.0
95°	147.6	114.5	81.3	50.2	24.1	6.0	1.0
97.5°	134.5	103.4	72.3	43.2	20.1	5.0	1.0
100°	123.5	93.4	64.3	38.2	17.1	4.0	1.0
102.5°	112.4	84.3	57.2	33.1	15.1	3.0	1.0
105°	103.4	76.3	51.2	30.1	13.1	3.0	1.0
107.5°	94.4	69.3	46.2	26.1	11.0	2.0	1.0
110°	85.3	63.2	41.2	23.1	10.0	2.0	1.0



TEST NUMBER: P1214129

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	78.3	57.2	37.1	21.1	8.0	2.0	1.0
115°	71.3	51.2	33.1	18.1	7.0	1.0	1.0
117.5°	64.3	46.2	29.1	16.1	6.0	1.0	1.0
120°	58.2	41.2	26.1	14.1	5.0	1.0	1.0
122.5°	52.2	37.1	23.1	12.0	4.0	1.0	1.0
125°	47.2	33.1	20.1	10.0	3.0	1.0	1.0
127.5°	42.2	29.1	18.1	9.0	3.0	1.0	1.0
130°	37.1	26.1	15.1	7.0	2.0	1.0	1.0
132.5°	33.1	22.1	13.1	6.0	2.0	1.0	1.0
135°	29.1	19.1	11.0	4.0	2.0	1.0	1.0
137.5°	25.1	16.1	9.0	3.0	1.0	1.0	1.0
140°	21.1	14.1	7.0	3.0	1.0	1.0	1.0
142.5°	18.1	11.0	5.0	2.0	1.0	1.0	1.0
145°	14.1	9.0	4.0	2.0	1.0	1.0	1.0
147.5°	11.0	7.0	3.0	2.0	1.0	1.0	1.0
150°	8.0	5.0	3.0	1.0	1.0	1.0	1.0
152.5°	6.0	4.0	2.0	1.0	1.0	1.0	1.0
155°	4.0	3.0	2.0	1.0	1.0	1.0	1.0
157.5°	3.0	2.0	1.0	1.0	1.0	1.0	1.0
160°	2.0	1.0	1.0	1.0	1.0	1.0	1.0
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0
165°	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)