

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: P1213419

Luminaire Tested: 4SNLED-LD5-41SL-LW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213419
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-LD5-41SL-LW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

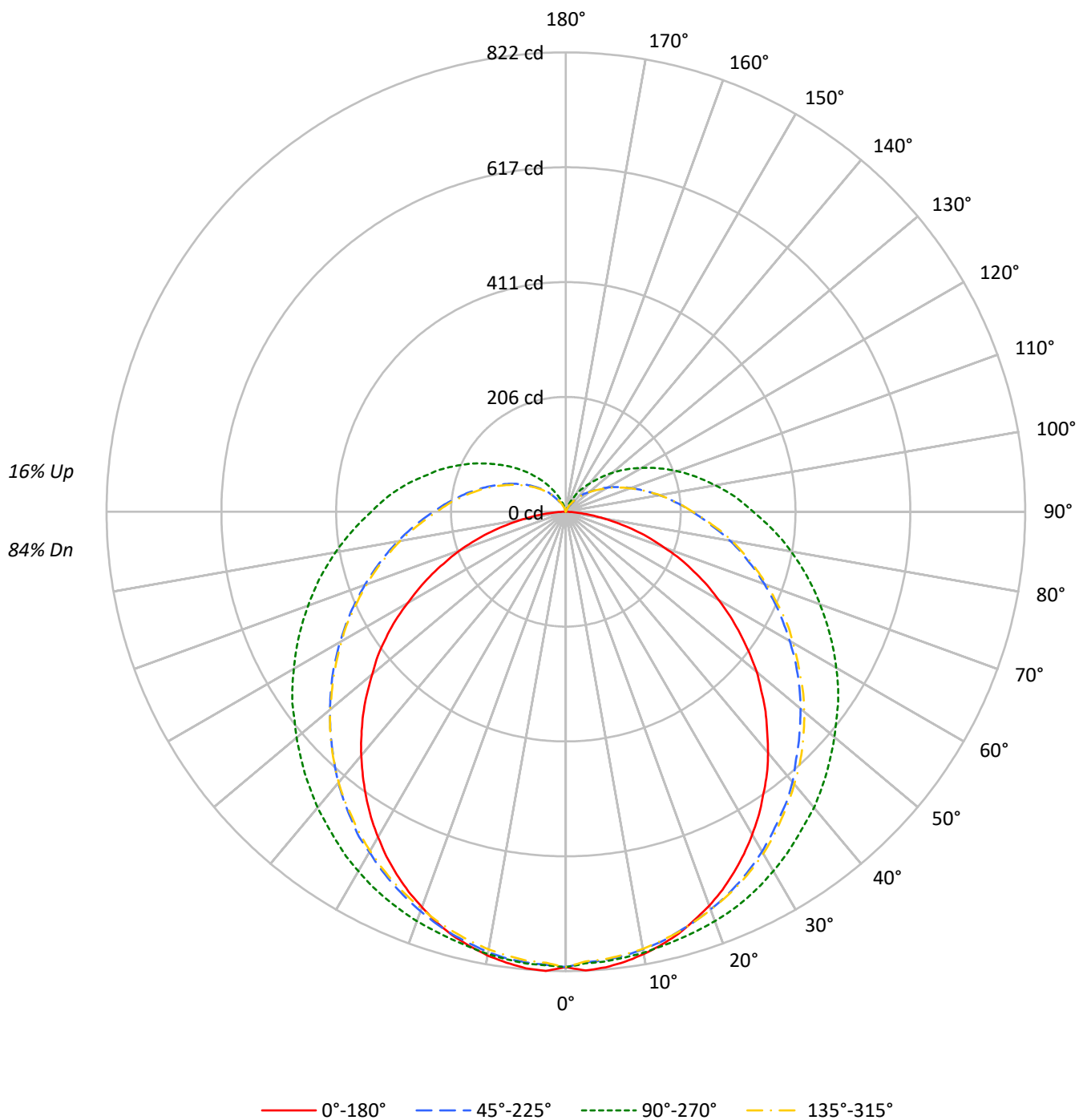
Lumens per Lamp: N/A
Luminaire Lumens: 3540.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	6584	6584	6584	6584
5°	6619	6345	6634	6373
10°	6558	6165	6579	6185
15°	6482	6011	6510	6017
20°	6380	5898	6402	5898
25°	6255	5798	6292	5791
30°	6114	5695	6160	5695
35°	5950	5600	6015	5607
40°	5787	5543	5857	5543
45°	5601	5485	5686	5492
50°	5407	5450	5480	5465
55°	5136	5455	5298	5479
60°	4850	5472	5007	5505
65°	4528	5527	4729	5582
70°	4078	5628	4395	5709
75°	3557	5812	3892	5924
80°	2751	6085	3127	6226
85°	1646	6523	2056	6703

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 7494 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	2.2
10°-20°	221.8	6.3
20°-30°	340.1	9.6
30°-40°	419.6	11.9
40°-50°	455.2	12.9
50°-60°	448.7	12.7
60°-70°	405.7	11.5
70°-80°	338.0	9.5
80°-90°	261.8	7.4
90°-100°	198.5	5.6
100°-110°	146.9	4.1
110°-120°	102.2	2.9
120°-130°	65.2	1.8
130°-140°	36.6	1.0
140°-150°	16.7	0.5
150°-160°	5.2	0.1
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-30°	639.1	18.1
0°-40°	1058.7	29.9
0°-60°	1962.7	55.4
0°-90°	2968.1	83.8
90°-120°	447.6	12.6
90°-150°	566.1	16.0
90°-180°	572.0	16.2
0°-180°	3540.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	815	815	815	815	815	
5°	818	808	820	811	818	78
15°	781	791	785	792	781	220
25°	712	764	716	763	712	328
35°	616	717	623	718	616	386
45°	505	660	513	661	505	389
55°	381	595	393	597	381	341
65°	253	522	264	527	253	250
75°	127	447	139	456	127	135
85°	24	372	30	382	24	29
90°	1	335	2	348	1	1
95°	1	304	1	319	1	1
105°	1	242	1	256	1	1
115°	1	184	1	200	1	1
125°	1	132	1	147	1	1
135°	1	86	1	101	1	1
145°	1	50	1	61	1	1
155°	1	21	1	28	1	0
165°	1	3	1	5	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°	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8
2.5°	821.7	821.7	820.8	819.1	820.0	822.5	820.8	816.5	813.9	807.1	808.8
5°	818.2	818.2	817.4	815.7	816.5	820.0	818.2	814.8	811.4	805.3	807.9
7.5°	812.2	812.2	811.4	809.6	811.4	814.8	813.1	809.6	807.1	801.1	803.6
10°	803.6	804.5	803.6	801.1	804.5	807.9	807.1	802.8	800.2	795.0	797.6
12.5°	793.3	794.2	793.3	792.5	794.2	799.3	797.6	794.2	792.5	788.2	790.7
15°	781.3	782.1	780.4	780.4	782.1	787.3	787.3	783.9	782.1	777.8	783.0
17.5°	765.8	766.7	765.8	765.8	767.5	772.7	773.5	771.8	770.1	768.4	773.5
20°	750.3	749.5	749.5	748.6	752.1	759.8	758.9	758.9	757.2	757.2	763.2
22.5°	732.3	732.3	731.4	731.4	735.7	742.6	742.6	744.3	742.6	746.0	751.2
25°	711.7	712.5	711.7	713.4	716.8	724.6	725.4	728.0	728.9	732.3	738.3
27.5°	690.2	691.0	690.2	691.9	697.9	703.9	708.2	711.7	712.5	717.7	725.4
30°	667.0	667.0	667.8	669.5	676.4	685.9	689.3	693.6	693.6	702.2	709.9
32.5°	642.9	642.9	642.9	646.3	654.1	665.3	669.5	674.7	676.4	685.0	693.6
35°	616.3	617.1	617.1	619.7	630.0	641.2	647.2	653.2	656.7	667.0	675.6
37.5°	591.3	593.1	590.5	593.9	608.5	618.0	624.9	630.9	636.9	650.6	657.5
40°	563.0	564.7	563.8	570.7	582.7	594.8	602.5	608.5	617.1	630.9	638.6
42.5°	532.9	534.6	536.3	544.1	557.0	569.0	578.4	586.2	596.5	608.5	621.4
45°	505.4	505.4	508.0	517.4	531.2	544.1	555.2	563.8	575.9	588.8	601.6
47.5°	474.4	475.3	478.7	489.9	504.5	520.0	530.3	541.5	554.4	568.1	582.7
50°	446.1	446.1	451.2	463.3	477.0	494.2	505.4	518.3	532.0	548.4	563.0
52.5°	413.4	415.1	422.9	434.0	452.1	467.6	480.5	494.2	510.5	527.7	544.1
55°	380.8	384.2	390.2	405.7	424.6	439.2	454.7	471.9	487.3	506.2	525.2
57.5°	349.0	351.5	361.0	376.5	396.2	414.3	430.6	446.9	465.8	484.8	504.5
60°	316.3	319.7	330.9	346.4	367.9	386.8	405.7	422.9	442.6	462.4	483.0
62.5°	285.4	287.9	300.8	318.9	340.4	361.0	379.9	400.5	422.0	440.9	461.6
65°	252.7	257.0	271.6	287.9	312.9	333.5	355.0	377.3	399.7	420.3	440.1
67.5°	222.6	225.2	240.7	259.6	284.5	307.7	330.0	354.1	377.3	398.8	418.6
70°	187.4	196.0	211.4	231.2	257.8	281.9	306.0	330.9	355.8	378.2	397.1
72.5°	158.1	165.0	182.2	203.7	229.5	257.8	282.8	309.4	334.3	357.6	377.3
75°	127.2	134.1	153.9	177.9	204.6	234.6	260.4	287.9	313.7	336.9	357.6
77.5°	97.1	105.7	127.2	152.1	181.4	212.3	238.9	266.4	293.1	318.0	338.6
80°	69.6	79.1	102.3	130.6	159.0	189.9	219.2	246.7	273.3	298.2	319.7
82.5°	44.7	55.0	79.9	108.3	138.4	169.3	199.4	226.9	253.6	278.5	300.8
85°	24.1	35.2	61.0	89.4	119.5	150.4	180.5	209.7	235.5	258.7	282.8
87.5°	6.9	20.6	45.6	73.9	104.9	133.2	162.4	191.7	217.5	242.4	263.9
90°	0.9	12.0	34.4	61.0	91.1	118.6	147.8	175.3	201.1	226.0	247.5
92.5°	0.9	7.7	26.6	50.7	78.2	106.6	135.8	162.4	186.5	211.4	232.9
95°	0.9	6.0	21.5	43.0	68.8	95.4	122.9	148.7	173.6	196.8	218.3
97.5°	0.9	4.3	17.2	37.0	60.2	85.1	111.7	137.5	161.6	183.9	203.7
100°	0.9	3.4	13.8	31.8	52.4	76.5	100.6	125.5	148.7	170.2	190.8
102.5°	0.9	2.6	12.0	26.6	46.4	67.9	91.1	114.3	136.7	157.3	177.9
105°	0.9	2.6	10.3	23.2	41.3	61.0	82.5	104.9	125.5	145.3	164.2
107.5°	0.9	1.7	8.6	19.8	36.1	55.0	74.8	96.3	115.2	134.1	152.1
110°	0.9	1.7	6.9	18.0	31.8	49.0	67.9	87.7	105.7	123.8	141.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.9	1.7	6.0	15.5	27.5	43.8	61.0	79.1	96.3	114.3	129.8
115°	0.9	1.7	5.2	13.8	25.8	37.8	55.0	71.3	88.5	104.9	119.5
117.5°	0.9	1.7	4.3	11.2	22.3	34.4	48.1	64.5	79.9	95.4	109.2
120°	0.9	1.7	3.4	10.3	19.8	30.9	43.0	57.6	72.2	86.8	101.4
122.5°	0.9	0.9	3.4	8.6	17.2	27.5	39.5	50.7	64.5	78.2	91.1
125°	0.9	0.9	3.4	7.7	14.6	24.9	35.2	45.6	57.6	69.6	80.8
127.5°	0.9	0.9	2.6	6.0	12.9	21.5	30.9	42.1	50.7	61.9	73.1
130°	0.9	0.9	2.6	5.2	11.2	18.0	27.5	37.0	47.3	55.0	64.5
132.5°	0.9	0.9	2.6	4.3	8.6	14.6	23.2	31.8	41.3	49.9	57.6
135°	0.9	0.9	1.7	3.4	6.9	12.0	18.9	26.6	36.1	44.7	52.4
137.5°	0.9	0.9	1.7	3.4	5.2	10.3	14.6	21.5	30.1	37.8	45.6
140°	0.9	0.9	1.7	2.6	4.3	7.7	12.0	17.2	24.1	30.9	39.5
142.5°	0.9	0.9	0.9	2.6	3.4	6.0	9.5	13.8	18.9	24.9	31.8
145°	0.9	0.9	0.9	2.6	3.4	4.3	7.7	11.2	14.6	18.9	24.9
147.5°	0.9	0.9	0.9	1.7	2.6	3.4	6.0	8.6	11.2	14.6	18.0
150°	0.9	0.9	0.9	1.7	2.6	3.4	4.3	6.0	8.6	12.0	14.6
152.5°	0.9	0.9	0.9	1.7	1.7	2.6	3.4	4.3	6.0	8.6	10.3
155°	0.9	0.9	0.9	0.9	1.7	2.6	3.4	3.4	4.3	6.0	7.7
157.5°	0.9	0.9	0.9	0.9	1.7	1.7	2.6	2.6	3.4	3.4	5.2
160°	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6	2.6	2.6	2.6
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7	2.6	2.6
165°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7
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°	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8
2.5°	808.8	809.6	812.2	812.2	810.5	810.5	809.6	808.8	809.6	811.4	811.4
5°	807.1	807.9	810.5	811.4	809.6	808.8	808.8	807.9	808.8	810.5	810.5
7.5°	803.6	804.5	807.1	807.9	806.2	806.2	805.3	804.5	806.2	807.1	807.1
10°	798.5	799.3	802.8	803.6	802.8	801.9	801.9	801.1	801.9	803.6	803.6
12.5°	791.6	793.3	797.6	797.6	797.6	796.8	796.8	795.9	796.8	798.5	797.6
15°	783.9	787.3	790.7	792.5	792.5	792.5	791.6	790.7	792.5	793.3	792.5
17.5°	775.3	779.6	784.7	786.4	786.4	787.3	786.4	785.6	787.3	787.3	786.4
20°	766.7	771.0	776.1	777.8	779.6	780.4	780.4	779.6	780.4	781.3	780.4
22.5°	755.5	760.7	766.7	769.3	771.0	772.7	772.7	772.7	773.5	774.4	772.7
25°	743.5	749.5	756.4	758.9	762.4	763.2	764.1	764.1	765.0	765.8	763.2
27.5°	730.6	737.4	744.3	748.6	751.2	752.9	752.9	753.8	754.6	755.5	752.9
30°	715.1	725.4	731.4	734.9	738.3	740.9	741.7	742.6	743.5	744.3	741.7
32.5°	701.4	709.9	717.7	722.0	726.3	729.7	730.6	730.6	732.3	732.3	729.7
35°	685.0	695.3	703.1	707.4	712.5	715.1	716.8	716.8	718.5	718.5	716.0
37.5°	668.7	679.0	687.6	692.8	698.8	702.2	703.1	703.1	704.8	704.8	701.4
40°	651.5	662.7	672.1	678.1	683.3	687.6	688.5	691.0	691.0	690.2	686.7
42.5°	634.3	644.6	654.9	661.8	668.7	673.0	674.7	675.6	675.6	674.7	672.1
45°	615.4	627.4	636.9	645.5	652.4	656.7	659.2	660.1	660.1	658.4	655.8
47.5°	597.4	609.4	618.8	628.3	635.2	640.3	642.9	643.8	642.9	642.0	639.5
50°	578.4	592.2	601.6	611.1	618.0	622.3	626.6	627.4	626.6	625.7	620.6
52.5°	558.7	573.3	583.6	593.1	600.8	605.9	609.4	610.2	610.2	608.5	605.1
55°	538.9	551.8	564.7	575.0	583.6	588.8	593.1	594.8	593.1	591.3	587.0
57.5°	520.9	532.9	545.8	557.0	565.5	572.4	575.9	577.6	575.9	573.3	569.0
60°	499.4	512.3	526.9	537.2	546.6	553.5	555.2	558.7	557.0	554.4	550.1
62.5°	478.7	494.2	507.1	520.0	527.7	535.5	538.9	540.6	538.9	536.3	532.0
65°	457.3	474.4	487.3	500.2	508.8	516.6	520.9	521.7	520.0	517.4	513.1
67.5°	437.5	453.8	467.6	481.3	489.1	496.8	501.1	502.8	501.1	497.6	493.4
70°	417.7	434.0	450.4	460.7	470.1	478.7	481.3	483.9	482.2	478.7	473.6
72.5°	397.9	415.1	431.5	441.8	452.1	459.8	463.3	465.8	464.1	460.7	454.7
75°	377.3	395.4	411.7	422.9	433.2	440.9	444.4	446.9	445.2	441.8	434.9
77.5°	358.4	376.5	391.9	404.0	414.3	421.2	427.2	428.0	426.3	422.9	416.0
80°	338.6	356.7	373.0	385.1	395.4	402.2	406.5	409.1	407.4	404.0	397.1
82.5°	321.5	337.8	354.1	366.1	376.5	385.1	388.5	391.1	390.2	385.1	379.9
85°	302.5	321.5	334.3	347.2	357.6	366.1	368.7	372.2	371.3	367.0	360.1
87.5°	283.6	302.5	318.0	330.9	340.4	347.2	351.5	353.3	352.4	348.1	340.4
90°	268.2	285.4	300.8	314.6	322.3	330.0	334.3	335.2	335.2	330.0	324.0
92.5°	253.6	269.9	285.4	298.2	307.7	314.6	318.0	319.7	318.9	314.6	307.7
95°	237.2	255.3	269.9	282.8	292.2	299.1	302.5	304.3	303.4	299.1	292.2
97.5°	223.5	239.8	254.4	266.4	275.9	282.8	286.2	287.9	287.9	283.6	276.8
100°	209.7	226.0	239.8	251.8	260.4	267.3	270.7	271.6	270.7	267.3	260.4
102.5°	196.0	211.4	225.2	236.4	245.8	251.8	255.3	256.1	256.1	251.8	245.0
105°	182.2	197.7	210.6	222.6	230.3	236.4	238.9	241.5	240.7	237.2	230.3
107.5°	169.3	184.8	196.8	208.0	215.7	221.8	224.3	226.9	226.0	222.6	215.7
110°	157.3	171.9	183.1	194.2	201.1	207.1	211.4	212.3	210.6	207.1	201.1

TEST NUMBER: P1213419

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	146.1	159.0	170.2	180.5	188.2	192.5	196.0	197.7	196.0	192.5	188.2
115°	134.1	147.0	158.1	167.6	174.5	179.6	182.2	183.9	182.2	178.8	174.5
117.5°	122.9	134.9	146.1	155.6	161.6	165.9	168.5	170.2	168.5	165.9	161.6
120°	113.5	123.8	134.1	142.7	149.6	153.0	155.6	157.3	156.4	153.0	148.7
122.5°	102.3	113.5	122.9	131.5	137.5	141.0	142.7	144.4	143.5	141.0	136.7
125°	92.8	102.3	111.7	119.5	125.5	128.9	130.6	132.4	131.5	128.9	123.8
127.5°	82.5	92.8	100.6	108.3	112.6	117.8	118.6	120.3	119.5	116.9	112.6
130°	74.8	82.5	90.2	97.1	102.3	105.7	107.4	108.3	106.6	104.9	100.6
132.5°	65.3	73.9	80.8	86.8	90.2	93.7	95.4	96.3	96.3	93.7	90.2
135°	58.4	64.5	70.5	76.5	79.9	83.4	85.1	85.9	85.1	83.4	79.9
137.5°	52.4	57.6	61.9	67.0	71.3	73.1	74.8	74.8	73.9	73.1	70.5
140°	45.6	51.6	55.9	59.3	62.7	63.6	65.3	65.3	64.5	63.6	61.9
142.5°	38.7	43.8	48.1	52.4	55.0	56.7	57.6	58.4	57.6	56.7	54.1
145°	30.9	37.0	41.3	43.8	47.3	48.1	49.0	49.9	49.0	48.1	45.6
147.5°	24.1	29.2	33.5	37.0	39.5	40.4	41.3	42.1	41.3	39.5	38.7
150°	17.2	21.5	26.6	30.1	31.8	33.5	33.5	33.5	34.4	32.7	30.9
152.5°	13.8	15.5	18.9	22.3	24.9	25.8	26.6	26.6	25.8	25.8	24.1
155°	9.5	11.2	13.8	16.3	18.9	19.8	20.6	20.6	19.8	19.8	18.9
157.5°	6.0	7.7	9.5	11.2	13.8	14.6	15.5	15.5	15.5	14.6	13.8
160°	3.4	4.3	5.2	6.9	8.6	9.5	10.3	10.3	10.3	10.3	9.5
162.5°	2.6	2.6	2.6	3.4	4.3	5.2	6.0	6.0	6.0	6.0	5.2
165°	1.7	1.7	1.7	1.7	1.7	2.6	3.4	3.4	3.4	3.4	3.4
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: P1213419

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8
2.5°	810.5	810.5	811.4	809.6	804.5	805.3	805.3	808.8	810.5	811.4	815.7
5°	808.8	808.8	810.5	807.9	803.6	803.6	803.6	807.1	807.9	809.6	813.1
7.5°	806.2	806.2	807.1	804.5	799.3	799.3	798.5	801.9	803.6	804.5	807.9
10°	801.9	801.9	802.8	800.2	794.2	794.2	793.3	795.9	796.8	798.5	801.1
12.5°	795.9	795.9	795.9	793.3	787.3	786.4	785.6	788.2	788.2	789.0	791.6
15°	790.7	789.0	789.0	786.4	780.4	778.7	777.0	777.8	779.6	778.7	780.4
17.5°	784.7	783.0	781.3	778.7	771.0	768.4	766.7	767.5	766.7	765.8	767.5
20°	777.8	775.3	774.4	770.1	762.4	758.1	754.6	752.9	753.8	751.2	752.1
22.5°	770.1	766.7	765.0	759.8	752.1	746.9	742.6	739.2	738.3	734.9	735.7
25°	760.7	756.4	753.8	749.5	740.9	734.9	729.7	724.6	722.0	717.7	716.8
27.5°	749.5	745.2	741.7	737.4	728.9	721.1	715.1	708.2	704.8	699.6	697.1
30°	738.3	733.2	728.0	724.6	715.1	706.5	697.1	691.0	685.9	679.9	675.6
32.5°	724.6	719.4	714.2	709.1	700.5	690.2	682.4	673.0	667.0	660.1	654.9
35°	710.8	703.9	698.8	691.9	684.2	672.1	662.7	653.2	645.5	637.7	631.7
37.5°	695.3	690.2	682.4	676.4	667.0	654.9	644.6	632.6	625.7	615.4	607.7
40°	680.7	674.7	667.0	659.2	649.8	636.0	624.9	611.1	603.4	591.3	583.6
42.5°	666.1	657.5	649.8	641.2	630.9	618.0	604.2	590.5	580.2	569.0	557.8
45°	649.8	640.3	630.9	621.4	611.1	598.2	583.6	569.0	556.1	545.8	532.0
47.5°	632.6	623.1	612.0	601.6	590.5	577.6	562.1	546.6	532.9	520.9	506.2
50°	615.4	605.9	593.9	582.7	569.8	557.0	540.6	522.6	508.0	492.5	479.6
52.5°	597.4	587.9	576.7	562.1	548.4	535.5	518.3	499.4	483.0	470.1	453.8
55°	579.3	569.8	557.0	542.3	528.6	512.3	495.9	477.0	459.0	443.5	427.2
57.5°	560.4	551.8	537.2	525.2	508.0	490.8	473.6	455.5	435.8	417.7	398.8
60°	541.5	532.0	518.3	503.7	486.5	469.3	451.2	431.5	410.8	391.1	373.9
62.5°	524.3	512.3	499.4	483.9	465.8	449.5	428.9	407.4	386.8	366.1	345.5
65°	504.5	491.6	479.6	464.1	445.2	426.3	405.7	384.2	361.8	339.5	318.9
67.5°	484.8	471.9	459.0	443.5	423.7	404.0	382.5	361.0	336.1	314.6	290.5
70°	465.0	454.7	438.3	422.0	404.0	382.5	361.0	337.8	312.0	288.8	263.9
72.5°	445.2	434.9	418.6	401.4	384.2	361.8	338.6	315.4	291.4	264.7	238.1
75°	426.3	413.4	398.8	382.5	364.4	341.2	318.0	293.9	265.6	240.7	213.2
77.5°	408.3	396.2	381.6	363.6	343.8	321.5	297.4	272.5	244.1	217.5	187.4
80°	388.5	376.5	361.8	343.8	324.0	302.5	276.8	251.0	223.5	194.2	163.3
82.5°	369.6	358.4	342.1	325.7	304.3	282.8	257.0	231.2	202.0	173.6	143.5
85°	349.8	338.6	323.2	306.0	285.4	262.1	238.1	212.3	183.1	153.9	123.8
87.5°	332.6	319.7	304.3	287.1	266.4	244.1	220.9	193.4	165.0	136.7	105.7
90°	314.6	302.5	287.1	269.9	249.3	226.9	202.8	177.1	149.6	120.3	91.1
92.5°	299.1	286.2	271.6	254.4	233.8	212.3	188.2	162.4	135.8	107.4	79.1
95°	283.6	270.7	257.0	239.8	219.2	197.7	173.6	148.7	122.9	95.4	68.8
97.5°	266.4	255.3	241.5	225.2	204.6	183.9	160.7	136.7	111.7	85.1	60.2
100°	252.7	239.8	226.9	209.7	190.8	171.0	147.8	124.6	100.6	75.6	52.4
102.5°	237.2	225.2	212.3	196.0	177.1	157.3	135.8	113.5	91.1	67.9	45.6
105°	222.6	211.4	197.7	182.2	164.2	145.3	124.6	104.0	82.5	60.2	40.4
107.5°	208.0	196.8	183.9	169.3	152.1	133.2	114.3	93.7	73.9	54.1	36.1
110°	193.4	183.1	171.0	156.4	140.1	122.9	104.9	85.9	66.2	48.1	31.8

TEST NUMBER: P1213419

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	180.5	170.2	158.1	144.4	128.9	112.6	95.4	77.4	59.3	43.0	27.5
115°	167.6	158.1	146.1	134.1	118.6	103.1	86.8	69.6	53.3	38.7	24.1
117.5°	154.7	145.3	134.1	122.0	108.3	93.7	78.2	61.9	48.1	34.4	21.5
120°	141.8	133.2	122.9	111.7	99.7	85.1	69.6	55.9	43.0	30.1	18.9
122.5°	129.8	122.0	112.6	102.3	89.4	75.6	62.7	50.7	38.7	26.6	15.5
125°	118.6	110.9	102.3	92.0	79.9	67.9	56.7	45.6	33.5	23.2	12.9
127.5°	107.4	99.7	91.1	81.7	72.2	61.0	50.7	40.4	30.1	20.6	11.2
130°	96.3	89.4	81.7	73.9	64.5	54.1	45.6	35.2	25.8	16.3	9.5
132.5°	85.1	79.9	73.1	65.3	56.7	49.0	39.5	30.9	22.3	14.6	8.6
135°	75.6	70.5	64.5	57.6	50.7	43.0	34.4	26.6	18.9	12.0	6.9
137.5°	67.0	62.7	56.7	50.7	44.7	37.0	30.1	22.3	15.5	10.3	5.2
140°	59.3	55.0	49.9	43.8	38.7	31.8	24.9	18.0	13.8	8.6	4.3
142.5°	51.6	47.3	43.0	37.8	32.7	26.6	20.6	15.5	11.2	6.9	4.3
145°	43.8	40.4	36.1	31.8	26.6	21.5	17.2	12.9	8.6	5.2	3.4
147.5°	36.1	33.5	29.2	25.8	21.5	17.2	13.8	10.3	6.9	4.3	2.6
150°	29.2	26.6	23.2	19.8	17.2	13.8	11.2	7.7	5.2	4.3	2.6
152.5°	22.3	20.6	18.0	16.3	13.8	10.3	7.7	6.0	4.3	3.4	1.7
155°	18.0	16.3	14.6	12.0	10.3	7.7	6.0	4.3	3.4	2.6	1.7
157.5°	12.9	12.0	10.3	8.6	6.9	5.2	4.3	4.3	2.6	1.7	0.9
160°	8.6	7.7	6.9	5.2	4.3	4.3	3.4	2.6	1.7	1.7	0.9
162.5°	5.2	4.3	4.3	4.3	3.4	3.4	2.6	1.7	1.7	0.9	0.9
165°	3.4	3.4	3.4	2.6	2.6	2.6	1.7	0.9	0.9	0.9	0.9
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: P1213419

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8
2.5°	815.7	813.1	816.5	822.5	823.4	822.5	820.8	823.4	826.8	826.0	820.0
5°	813.9	810.5	813.9	820.0	820.0	819.1	818.2	820.8	824.3	823.4	818.2
7.5°	808.8	805.3	808.8	813.9	814.8	813.1	813.1	815.7	819.1	818.2	813.9
10°	801.9	798.5	800.2	806.2	807.9	806.2	806.2	808.8	813.1	812.2	807.1
12.5°	791.6	789.0	790.7	795.9	797.6	796.8	795.9	799.3	803.6	803.6	798.5
15°	780.4	777.0	778.7	784.7	785.6	783.9	784.7	787.3	792.5	792.5	788.2
17.5°	767.5	763.2	765.8	770.1	771.0	771.0	771.0	774.4	780.4	779.6	776.1
20°	752.9	746.9	748.6	752.9	754.6	754.6	754.6	760.7	765.0	765.0	761.5
22.5°	735.7	731.4	731.4	735.7	738.3	737.4	737.4	742.6	748.6	747.8	747.8
25°	716.0	712.5	710.8	716.0	716.8	717.7	719.4	724.6	731.4	731.4	732.3
27.5°	695.3	691.9	691.0	695.3	696.2	697.1	698.8	704.8	711.7	712.5	714.2
30°	675.6	670.4	668.7	672.1	673.8	674.7	674.7	684.2	690.2	692.8	696.2
32.5°	652.4	647.2	642.9	648.9	649.8	651.5	652.4	661.8	668.7	673.0	678.1
35°	629.2	620.6	618.8	623.1	624.9	625.7	627.4	637.7	647.2	650.6	657.5
37.5°	603.4	597.4	592.2	596.5	598.2	599.1	604.2	613.7	623.1	628.3	635.2
40°	579.3	571.6	567.3	569.8	571.6	572.4	578.4	588.8	599.9	605.9	614.5
42.5°	552.7	542.3	538.9	541.5	542.3	544.9	550.1	563.8	575.0	583.6	590.5
45°	526.0	518.3	510.5	513.1	514.0	515.7	523.4	538.0	550.1	560.4	568.1
47.5°	498.5	489.1	481.3	483.0	486.5	487.3	495.9	513.1	524.3	535.5	545.8
50°	471.0	458.1	452.1	452.1	453.8	458.1	469.3	486.5	498.5	511.4	522.6
52.5°	442.6	430.6	423.7	424.6	426.3	431.5	441.8	459.0	472.7	486.5	500.2
55°	414.3	401.4	394.5	392.8	394.5	401.4	413.4	431.5	445.2	461.6	476.2
57.5°	385.9	370.4	364.4	361.8	363.6	372.2	384.2	403.1	420.3	435.8	453.0
60°	355.0	342.9	332.6	326.6	330.9	342.1	355.0	374.7	392.8	410.0	428.9
62.5°	328.3	312.9	301.7	295.7	300.0	309.4	327.5	346.4	366.1	385.9	404.8
65°	298.2	282.8	269.9	263.9	268.2	279.3	297.4	318.0	339.5	359.3	381.6
67.5°	269.0	252.7	237.2	231.2	236.4	248.4	268.2	291.4	314.6	335.2	359.3
70°	240.7	222.6	206.3	202.0	205.4	221.8	240.7	263.9	287.9	312.0	336.9
72.5°	214.9	192.5	175.3	170.2	174.5	192.5	214.0	238.1	263.9	289.7	316.3
75°	184.8	164.2	145.3	139.2	144.4	160.7	187.4	213.2	240.7	268.2	293.1
77.5°	160.7	136.7	116.9	107.4	116.0	136.7	162.4	189.9	218.3	246.7	275.0
80°	135.8	110.9	89.4	79.1	88.5	110.9	136.7	166.7	198.5	226.9	252.7
82.5°	113.5	86.8	64.5	53.3	63.6	88.5	116.9	147.0	177.9	206.3	236.4
85°	92.8	65.3	42.1	30.1	44.7	67.0	97.1	128.1	159.9	189.1	218.3
87.5°	75.6	49.0	25.8	12.9	27.5	52.4	80.8	111.7	143.5	172.8	200.3
90°	61.9	35.2	13.8	1.7	16.3	39.5	67.0	97.1	127.2	157.3	184.8
92.5°	50.7	26.6	7.7	0.9	10.3	31.8	57.6	85.9	115.2	144.4	171.0
95°	42.1	20.6	5.2	0.9	7.7	24.9	49.0	76.5	104.0	132.4	159.0
97.5°	36.1	17.2	4.3	0.9	6.0	21.5	42.1	67.9	94.5	121.2	147.0
100°	30.9	13.8	3.4	0.9	5.2	18.0	37.0	60.2	85.1	110.9	135.8
102.5°	26.6	11.2	2.6	0.9	4.3	15.5	32.7	54.1	76.5	101.4	125.5
105°	23.2	9.5	2.6	0.9	3.4	13.8	29.2	48.1	70.5	92.8	116.0
107.5°	19.8	7.7	1.7	0.9	2.6	11.2	25.8	43.8	63.6	85.1	106.6
110°	17.2	6.9	1.7	0.9	2.6	10.3	22.3	39.5	57.6	77.4	98.0

TEST NUMBER: P1213419

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	14.6	5.2	1.7	0.9	1.7	8.6	19.8	35.2	52.4	70.5	90.2
115°	12.9	4.3	0.9	0.9	1.7	7.7	18.0	31.8	47.3	64.5	82.5
117.5°	10.3	3.4	0.9	0.9	0.9	6.0	15.5	28.4	43.0	59.3	75.6
120°	8.6	3.4	0.9	0.9	0.9	5.2	13.8	24.9	38.7	53.3	68.8
122.5°	7.7	2.6	0.9	0.9	0.9	4.3	12.0	22.3	34.4	48.1	62.7
125°	6.9	2.6	0.9	0.9	0.9	3.4	10.3	19.8	30.9	43.0	56.7
127.5°	5.2	2.6	0.9	0.9	0.9	2.6	9.5	17.2	27.5	38.7	50.7
130°	4.3	1.7	0.9	0.9	0.9	2.6	7.7	15.5	24.1	34.4	45.6
132.5°	3.4	1.7	0.9	0.9	0.9	1.7	6.0	12.0	20.6	30.1	40.4
135°	3.4	1.7	0.9	0.9	0.9	1.7	4.3	10.3	17.2	25.8	34.4
137.5°	3.4	0.9	0.9	0.9	0.9	1.7	3.4	7.7	13.8	20.6	28.4
140°	2.6	0.9	0.9	0.9	0.9	0.9	2.6	6.0	11.2	17.2	24.1
142.5°	2.6	0.9	0.9	0.9	0.9	0.9	2.6	4.3	8.6	13.8	18.9
145°	1.7	0.9	0.9	0.9	0.9	0.9	1.7	3.4	6.9	10.3	15.5
147.5°	1.7	0.9	0.9	0.9	0.9	0.9	1.7	2.6	5.2	8.6	12.0
150°	1.7	0.9	0.9	0.9	0.9	0.9	1.7	2.6	3.4	6.0	9.5
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6	4.3	6.0
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	2.6	3.4	4.3
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6	3.4
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7
165°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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: P1213419

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8
2.5°	817.4	811.4	813.1	812.2	813.9	816.5	816.5	815.7	815.7	813.9	812.2
5°	815.7	809.6	812.2	811.4	813.1	815.7	815.7	814.8	814.8	812.2	811.4
7.5°	810.5	806.2	807.9	807.9	809.6	812.2	812.2	811.4	811.4	808.8	807.9
10°	805.3	800.2	802.8	802.8	804.5	807.9	807.9	807.1	807.1	804.5	803.6
12.5°	796.8	791.6	795.9	796.8	798.5	801.9	801.1	801.1	801.1	798.5	797.6
15°	786.4	783.0	787.3	788.2	790.7	795.0	795.0	795.0	795.0	792.5	791.6
17.5°	775.3	772.7	777.0	778.7	782.1	786.4	786.4	787.3	788.2	786.4	785.6
20°	762.4	760.7	765.0	768.4	773.5	777.8	779.6	780.4	782.1	780.4	779.6
22.5°	747.8	747.8	753.8	757.2	763.2	767.5	770.1	772.7	774.4	772.7	771.8
25°	731.4	734.0	740.0	746.0	752.9	757.2	759.8	763.2	765.0	764.1	763.2
27.5°	716.0	719.4	727.1	733.2	739.2	746.0	748.6	752.9	754.6	754.6	753.8
30°	697.9	703.1	711.7	718.5	726.3	733.2	736.6	740.9	743.5	741.7	742.6
32.5°	680.7	689.3	696.2	703.9	712.5	719.4	723.7	728.9	731.4	730.6	731.4
35°	661.8	670.4	679.9	687.6	697.9	704.8	710.8	715.1	718.5	717.7	717.7
37.5°	641.2	652.4	661.8	672.1	681.6	689.3	695.3	700.5	703.9	703.9	703.9
40°	621.4	633.5	642.9	654.9	667.0	673.8	680.7	685.9	689.3	690.2	691.0
42.5°	599.9	612.8	624.0	636.9	648.9	657.5	665.3	671.3	674.7	676.4	675.6
45°	580.2	592.2	605.1	619.7	630.9	639.5	648.9	655.8	659.2	660.1	661.0
47.5°	557.8	571.6	586.2	600.8	612.0	623.1	631.7	638.6	642.0	644.6	644.6
50°	536.3	550.9	567.3	582.7	594.8	605.9	614.5	622.3	626.6	628.3	629.2
52.5°	516.6	530.3	547.5	563.0	575.0	586.2	597.4	605.9	610.2	612.0	612.0
55°	492.5	509.7	528.6	543.2	556.1	569.0	580.2	588.8	593.1	595.6	597.4
57.5°	470.1	488.2	508.0	523.4	538.9	550.9	561.3	572.4	575.9	579.3	580.2
60°	448.7	466.7	485.6	502.8	518.3	531.2	543.2	552.7	558.7	560.4	562.1
62.5°	426.3	445.2	465.0	482.2	498.5	514.0	525.2	533.7	540.6	543.2	544.9
65°	404.8	424.6	444.4	462.4	479.6	495.1	506.2	514.8	521.7	526.0	526.9
67.5°	381.6	403.1	423.7	442.6	459.8	476.2	487.3	495.9	502.8	508.0	508.8
70°	360.1	382.5	403.1	423.7	440.9	457.3	469.3	477.9	485.6	489.1	490.8
72.5°	339.5	362.7	384.2	404.8	422.0	438.3	451.2	459.8	467.6	471.9	472.7
75°	319.7	342.9	366.1	385.9	404.0	420.3	433.2	442.6	449.5	453.8	455.5
77.5°	300.0	324.0	347.2	367.0	385.9	402.2	413.4	424.6	431.5	436.6	436.6
80°	280.2	305.1	329.2	349.0	367.9	382.5	395.4	406.5	413.4	418.6	418.6
82.5°	263.0	287.1	310.3	330.0	349.0	365.3	378.2	388.5	396.2	399.7	400.5
85°	243.2	269.9	291.4	312.9	330.9	346.4	359.3	370.4	377.3	380.8	382.5
87.5°	226.9	252.7	275.9	294.8	312.9	328.3	342.9	352.4	359.3	363.6	365.3
90°	211.4	236.4	259.6	278.5	297.4	312.0	325.7	335.2	342.9	346.4	348.1
92.5°	197.7	222.6	245.0	263.9	281.9	298.2	311.1	320.6	327.5	330.9	333.5
95°	184.8	208.9	230.3	251.0	268.2	282.8	296.5	306.0	313.7	316.3	318.9
97.5°	171.9	195.1	216.6	236.4	254.4	268.2	281.1	290.5	296.5	300.8	303.4
100°	160.7	183.1	203.7	222.6	239.8	252.7	266.4	275.0	281.1	284.5	287.9
102.5°	148.7	171.0	190.8	208.9	226.9	238.9	251.8	260.4	265.6	271.6	271.6
105°	138.4	159.0	178.8	196.0	211.4	226.0	237.2	245.8	251.8	256.1	256.1
107.5°	127.2	147.8	166.7	184.8	199.4	213.2	223.5	231.2	238.1	240.7	243.2
110°	118.6	136.7	155.6	172.8	186.5	199.4	209.7	218.3	224.3	226.9	228.6

TEST NUMBER: P1213419

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	108.3	127.2	144.4	160.7	174.5	186.5	196.8	203.7	209.7	213.2	214.0
115°	99.7	117.8	133.2	148.7	163.3	173.6	183.1	189.9	196.0	198.5	200.3
117.5°	92.0	108.3	123.8	136.7	150.4	161.6	171.0	177.1	182.2	185.7	187.4
120°	84.2	99.7	113.5	126.3	139.2	149.6	158.1	164.2	170.2	172.8	172.8
122.5°	76.5	91.1	104.0	116.0	128.1	137.5	147.0	152.1	157.3	159.9	159.9
125°	69.6	83.4	95.4	106.6	117.8	126.3	134.1	140.1	145.3	147.0	147.0
127.5°	62.7	75.6	86.8	97.1	106.6	115.2	122.9	128.9	133.2	134.9	134.9
130°	56.7	67.9	78.2	88.5	98.0	104.9	112.6	117.8	120.3	122.9	123.8
132.5°	50.7	61.0	70.5	79.1	88.5	95.4	101.4	106.6	109.2	111.7	112.6
135°	44.7	54.1	62.7	71.3	79.1	85.9	91.1	95.4	98.8	100.6	101.4
137.5°	37.8	48.1	55.9	62.7	71.3	76.5	82.5	85.1	88.5	90.2	90.2
140°	31.8	39.5	48.1	55.0	61.9	67.0	72.2	76.5	79.1	79.9	79.9
142.5°	25.8	32.7	39.5	48.1	54.1	58.4	63.6	67.0	68.8	69.6	70.5
145°	20.6	25.8	31.8	39.5	46.4	51.6	54.1	57.6	59.3	60.2	61.0
147.5°	15.5	20.6	25.8	30.9	37.8	43.0	45.6	49.0	50.7	51.6	51.6
150°	12.0	15.5	18.9	24.1	29.2	35.2	38.7	41.3	42.1	43.0	43.0
152.5°	8.6	12.0	14.6	18.0	21.5	26.6	31.8	33.5	34.4	35.2	35.2
155°	6.0	8.6	10.3	12.9	15.5	19.8	24.1	26.6	27.5	28.4	28.4
157.5°	4.3	6.0	6.9	9.5	11.2	12.9	16.3	20.6	21.5	21.5	21.5
160°	2.6	3.4	4.3	6.0	6.9	8.6	10.3	12.9	15.5	15.5	15.5
162.5°	1.7	2.6	2.6	3.4	3.4	5.2	6.0	6.9	9.5	10.3	10.3
165°	0.9	1.7	1.7	1.7	1.7	1.7	2.6	2.6	4.3	5.2	5.2
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: P1213419

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8	814.8
2.5°	813.1	814.8	813.9	813.9	813.9	815.7	813.9	806.2	807.9	809.6	811.4
5°	812.2	813.1	813.1	812.2	812.2	813.9	812.2	804.5	806.2	807.9	808.8
7.5°	808.8	809.6	809.6	809.6	808.8	810.5	807.9	801.1	801.1	802.8	803.6
10°	804.5	806.2	805.3	804.5	804.5	804.5	802.8	795.0	795.0	795.9	796.8
12.5°	799.3	799.3	799.3	798.5	797.6	797.6	795.9	788.2	787.3	789.0	788.2
15°	792.5	794.2	792.5	791.6	789.9	789.9	787.3	779.6	777.8	778.7	777.8
17.5°	786.4	787.3	785.6	783.9	782.1	781.3	778.7	770.1	767.5	768.4	766.7
20°	780.4	780.4	778.7	777.0	774.4	771.8	768.4	759.8	755.5	755.5	752.1
22.5°	772.7	772.7	771.0	768.4	765.8	762.4	758.9	750.3	743.5	741.7	739.2
25°	764.1	763.2	762.4	759.8	754.6	751.2	747.8	738.3	730.6	727.1	722.8
27.5°	753.8	753.8	751.2	748.6	743.5	739.2	734.9	726.3	716.0	711.7	705.6
30°	742.6	742.6	740.0	736.6	731.4	726.3	721.1	710.8	700.5	694.5	687.6
32.5°	731.4	730.6	728.0	724.6	719.4	711.7	707.4	697.1	685.0	678.1	668.7
35°	717.7	716.8	714.2	709.9	703.1	697.1	690.2	680.7	667.0	658.4	648.1
37.5°	703.9	703.1	701.4	695.3	688.5	681.6	673.0	663.5	650.6	639.5	629.2
40°	690.2	689.3	685.9	681.6	673.0	664.4	655.8	646.3	632.6	619.7	608.5
42.5°	675.6	674.7	670.4	665.3	655.8	647.2	636.9	626.6	612.8	597.4	586.2
45°	661.0	659.2	654.9	648.9	638.6	629.2	618.8	606.8	593.1	578.4	563.8
47.5°	645.5	642.9	638.6	630.0	621.4	611.1	599.1	586.2	572.4	556.1	540.6
50°	628.3	626.6	621.4	613.7	603.4	593.1	579.3	566.4	550.1	534.6	515.7
52.5°	612.0	608.5	604.2	595.6	585.3	574.1	559.5	544.1	527.7	513.1	493.4
55°	594.8	593.1	587.0	580.2	567.3	554.4	540.6	524.3	506.2	489.1	470.1
57.5°	578.4	575.0	569.8	560.4	549.2	536.3	521.7	504.5	484.8	466.7	446.1
60°	562.1	557.0	550.9	542.3	530.3	516.6	501.1	483.0	463.3	443.5	422.0
62.5°	544.1	539.8	532.9	524.3	512.3	497.6	481.3	462.4	443.5	422.9	399.7
65°	526.0	521.7	514.8	506.2	494.2	477.9	460.7	441.8	420.3	400.5	375.6
67.5°	508.0	503.7	495.9	486.5	474.4	459.0	440.9	421.2	399.7	378.2	352.4
70°	489.9	484.8	477.9	467.6	455.5	439.2	421.2	400.5	379.0	355.8	330.0
72.5°	471.9	467.6	459.0	449.5	436.6	420.3	402.2	381.6	359.3	335.2	309.4
75°	453.8	448.7	442.6	431.5	417.7	402.2	383.3	362.7	338.6	315.4	288.8
77.5°	435.8	431.5	423.7	412.6	399.7	383.3	364.4	343.8	319.7	295.7	267.3
80°	417.7	412.6	406.5	396.2	381.6	365.3	345.5	324.9	300.8	275.9	247.5
82.5°	399.7	394.5	387.6	377.3	363.6	347.2	328.3	306.0	281.9	256.1	229.5
85°	381.6	377.3	369.6	359.3	344.7	328.3	309.4	289.7	263.9	238.1	211.4
87.5°	363.6	359.3	351.5	341.2	327.5	311.1	292.2	271.6	246.7	222.6	193.4
90°	346.4	342.9	335.2	324.9	311.1	294.8	277.6	255.3	231.2	207.1	179.6
92.5°	330.9	327.5	320.6	310.3	298.2	280.2	263.0	241.5	217.5	192.5	165.9
95°	317.2	312.9	306.0	296.5	281.9	266.4	249.3	227.8	204.6	179.6	153.9
97.5°	301.7	297.4	290.5	280.2	268.2	251.8	234.6	214.0	190.8	167.6	141.8
100°	286.2	281.9	274.2	265.6	253.6	237.2	220.9	200.3	178.8	156.4	131.5
102.5°	270.7	266.4	259.6	251.0	238.9	224.3	208.0	188.2	166.7	144.4	121.2
105°	256.1	251.8	245.0	236.4	225.2	210.6	193.4	176.2	155.6	134.1	111.7
107.5°	241.5	237.2	231.2	222.6	211.4	197.7	181.4	163.3	144.4	123.8	102.3
110°	226.9	223.5	216.6	208.9	197.7	183.9	169.3	152.1	133.2	114.3	93.7

TEST NUMBER: P1213419

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	213.2	209.7	202.8	194.2	184.8	171.9	157.3	141.0	122.9	104.9	85.1
115°	199.4	195.1	189.1	181.4	171.9	159.9	146.1	131.5	113.5	96.3	78.2
117.5°	185.7	182.2	176.2	168.5	159.9	147.8	134.9	121.2	104.0	87.7	71.3
120°	171.9	169.3	163.3	156.4	147.8	136.7	124.6	110.9	95.4	79.9	64.5
122.5°	159.0	156.4	150.4	144.4	135.8	125.5	114.3	101.4	87.7	73.1	59.3
125°	147.0	143.5	138.4	132.4	124.6	115.2	104.0	92.0	79.1	66.2	53.3
127.5°	134.1	131.5	128.1	121.2	113.5	104.9	94.5	84.2	72.2	60.2	48.1
130°	123.8	120.3	116.0	110.9	104.0	95.4	85.9	75.6	65.3	54.1	42.1
132.5°	111.7	108.3	104.9	99.7	93.7	85.9	77.4	67.9	58.4	48.1	37.8
135°	100.6	98.0	94.5	89.4	83.4	77.4	68.8	60.2	51.6	42.1	33.5
137.5°	90.2	87.7	84.2	80.8	74.8	68.8	61.0	53.3	45.6	37.0	29.2
140°	79.9	78.2	74.8	71.3	66.2	60.2	53.3	46.4	39.5	31.8	24.9
142.5°	69.6	67.9	65.3	61.9	57.6	52.4	46.4	40.4	33.5	27.5	21.5
145°	60.2	59.3	56.7	53.3	49.9	44.7	39.5	34.4	28.4	23.2	17.2
147.5°	50.7	49.9	48.1	45.6	42.1	37.8	33.5	28.4	24.1	18.9	13.8
150°	42.1	41.3	40.4	37.0	35.2	30.9	27.5	23.2	19.8	14.6	11.2
152.5°	34.4	34.4	32.7	30.1	28.4	24.9	22.3	18.9	15.5	12.0	8.6
155°	27.5	26.6	25.8	24.1	22.3	19.8	17.2	14.6	12.0	8.6	6.0
157.5°	21.5	20.6	19.8	18.0	16.3	15.5	12.9	10.3	7.7	6.0	4.3
160°	15.5	14.6	13.8	12.9	12.0	10.3	8.6	6.9	5.2	3.4	2.6
162.5°	10.3	9.5	9.5	8.6	7.7	6.0	5.2	4.3	3.4	2.6	1.7
165°	5.2	5.2	4.3	4.3	3.4	2.6	2.6	2.6	1.7	1.7	0.9
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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CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	814.8	814.8	814.8	814.8	814.8	814.8	814.8
2.5°	810.5	810.5	813.9	813.1	810.5	815.7	821.7
5°	807.9	807.9	810.5	810.5	807.9	813.1	818.2
7.5°	803.6	802.8	805.3	805.3	801.9	806.2	812.2
10°	795.9	795.0	797.6	797.6	794.2	798.5	803.6
12.5°	787.3	785.6	788.2	787.3	783.9	788.2	793.3
15°	776.1	775.3	777.0	775.3	771.8	776.1	781.3
17.5°	765.0	762.4	763.2	763.2	757.2	761.5	765.8
20°	750.3	746.9	747.8	746.9	742.6	745.2	750.3
22.5°	735.7	730.6	730.6	729.7	724.6	728.0	732.3
25°	717.7	711.7	711.7	710.8	704.8	707.4	711.7
27.5°	699.6	693.6	691.0	690.2	684.2	684.2	690.2
30°	680.7	672.1	670.4	667.8	661.8	661.8	667.0
32.5°	662.7	650.6	647.2	643.8	637.7	636.9	642.9
35°	638.6	629.2	623.1	619.7	612.8	611.1	616.3
37.5°	618.8	606.8	598.2	593.9	587.0	584.5	591.3
40°	597.4	584.5	573.3	570.7	560.4	557.0	563.0
42.5°	573.3	559.5	548.4	543.2	535.5	532.0	532.9
45°	549.2	534.6	522.6	515.7	508.0	501.9	505.4
47.5°	524.3	511.4	496.8	486.5	477.0	472.7	474.4
50°	499.4	483.9	470.1	459.0	447.8	442.6	446.1
52.5°	474.4	458.1	442.6	430.6	417.7	412.6	413.4
55°	450.4	433.2	415.1	402.2	390.2	382.5	380.8
57.5°	426.3	407.4	388.5	373.9	358.4	351.5	349.0
60°	400.5	380.8	361.0	343.8	327.5	319.7	316.3
62.5°	376.5	355.0	332.6	314.6	298.2	287.9	285.4
65°	353.3	328.3	306.0	285.4	267.3	256.1	252.7
67.5°	328.3	302.5	278.5	256.1	238.9	224.3	222.6
70°	305.1	277.6	251.0	227.8	208.9	194.2	187.4
72.5°	281.9	253.6	226.0	201.1	177.1	163.3	158.1
75°	259.6	230.3	201.1	175.3	148.7	132.4	127.2
77.5°	238.9	208.9	177.9	149.6	124.6	104.0	97.1
80°	219.2	188.2	155.6	126.3	99.7	77.4	69.6
82.5°	198.5	169.3	135.8	104.9	77.4	54.1	44.7
85°	180.5	151.3	117.8	86.8	59.3	34.4	24.1
87.5°	165.9	134.1	104.0	73.1	44.7	19.8	6.9
90°	151.3	120.3	90.2	60.2	33.5	11.2	0.9
92.5°	138.4	109.2	79.1	51.6	25.8	7.7	0.9
95°	126.3	98.0	69.6	43.0	20.6	5.2	0.9
97.5°	115.2	88.5	61.9	37.0	17.2	4.3	0.9
100°	105.7	79.9	55.0	32.7	14.6	3.4	0.9
102.5°	96.3	72.2	49.0	28.4	12.9	2.6	0.9
105°	88.5	65.3	43.8	25.8	11.2	2.6	0.9
107.5°	80.8	59.3	39.5	22.3	9.5	1.7	0.9
110°	73.1	54.1	35.2	19.8	8.6	1.7	0.9

TEST NUMBER: P1213419

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	67.0	49.0	31.8	18.0	6.9	1.7	0.9
115°	61.0	43.8	28.4	15.5	6.0	0.9	0.9
117.5°	55.0	39.5	24.9	13.8	5.2	0.9	0.9
120°	49.9	35.2	22.3	12.0	4.3	0.9	0.9
122.5°	44.7	31.8	19.8	10.3	3.4	0.9	0.9
125°	40.4	28.4	17.2	8.6	2.6	0.9	0.9
127.5°	36.1	24.9	15.5	7.7	2.6	0.9	0.9
130°	31.8	22.3	12.9	6.0	1.7	0.9	0.9
132.5°	28.4	18.9	11.2	5.2	1.7	0.9	0.9
135°	24.9	16.3	9.5	3.4	1.7	0.9	0.9
137.5°	21.5	13.8	7.7	2.6	0.9	0.9	0.9
140°	18.0	12.0	6.0	2.6	0.9	0.9	0.9
142.5°	15.5	9.5	4.3	1.7	0.9	0.9	0.9
145°	12.0	7.7	3.4	1.7	0.9	0.9	0.9
147.5°	9.5	6.0	2.6	1.7	0.9	0.9	0.9
150°	6.9	4.3	2.6	0.9	0.9	0.9	0.9
152.5°	5.2	3.4	1.7	0.9	0.9	0.9	0.9
155°	3.4	2.6	1.7	0.9	0.9	0.9	0.9
157.5°	2.6	1.7	0.9	0.9	0.9	0.9	0.9
160°	1.7	0.9	0.9	0.9	0.9	0.9	0.9
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
165°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)