

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: P1213427

Luminaire Tested: 4SNLED-LD5-44SL-LW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213427
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-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

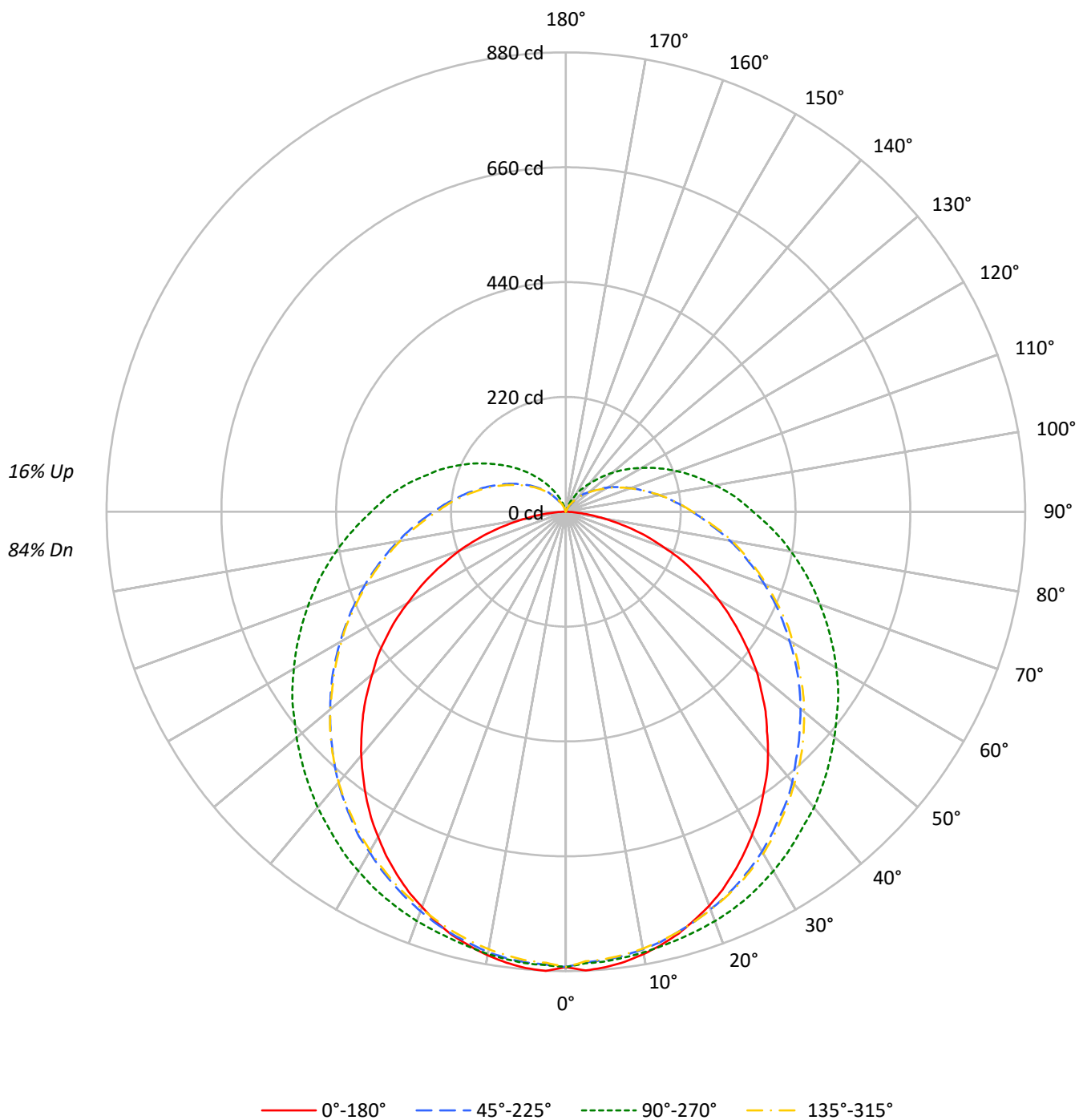
Lumens per Lamp: N/A
Luminaire Lumens: 3789.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

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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Luminous Intensity Polar Plot



TEST NUMBER: P1213427

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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°	7047	7047	7047	7047
5°	7085	6792	7100	6820
10°	7020	6599	7042	6620
15°	6938	6434	6968	6441
20°	6829	6313	6853	6313
25°	6694	6206	6735	6199
30°	6543	6095	6594	6095
35°	6368	5993	6439	6001
40°	6194	5933	6269	5933
45°	5994	5870	6086	5878
50°	5788	5834	5865	5849
55°	5496	5839	5670	5864
60°	5190	5857	5360	5893
65°	4847	5915	5061	5974
70°	4365	6024	4704	6110
75°	3808	6221	4166	6341
80°	2945	6513	3344	6663
85°	1763	6980	2200	7175

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 8021 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	2.2
10°-20°	237.4	6.3
20°-30°	364.0	9.6
30°-40°	449.1	11.9
40°-50°	487.3	12.9
50°-60°	480.3	12.7
60°-70°	434.2	11.5
70°-80°	361.7	9.5
80°-90°	280.2	7.4
90°-100°	212.5	5.6
100°-110°	157.2	4.1
110°-120°	109.4	2.9
120°-130°	69.8	1.8
130°-140°	39.2	1.0
140°-150°	17.9	0.5
150°-160°	5.5	0.1
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-30°	684.1	18.1
0°-40°	1133.2	29.9
0°-60°	2100.7	55.4
0°-90°	3176.8	83.8
90°-120°	479.1	12.6
90°-150°	605.9	16.0
90°-180°	612.0	16.2
0°-180°	3789.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	872	872	872	872	872	
5°	876	865	878	868	876	83
15°	836	846	840	847	836	236
25°	762	818	766	817	762	351
35°	660	767	667	768	660	413
45°	541	706	549	707	541	417
55°	408	637	420	639	408	365
65°	270	558	282	564	270	268
75°	136	478	149	488	136	144
85°	26	398	32	409	26	31
90°	1	359	2	373	1	1
95°	1	326	1	341	1	1
105°	1	258	1	274	1	1
115°	1	197	1	214	1	1
125°	1	142	1	157	1	1
135°	1	92	1	109	1	1
145°	1	53	1	65	1	1
155°	1	22	1	30	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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CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1
2.5°	879.5	879.5	878.6	876.7	877.6	880.4	878.6	874.0	871.2	863.8	865.7
5°	875.8	875.8	874.9	873.0	874.0	877.6	875.8	872.1	868.4	862.0	864.8
7.5°	869.4	869.4	868.4	866.6	868.4	872.1	870.3	866.6	863.8	857.4	860.2
10°	860.2	861.1	860.2	857.4	861.1	864.8	863.8	859.2	856.5	851.0	853.7
12.5°	849.1	850.0	849.1	848.2	850.0	855.6	853.7	850.0	848.2	843.6	846.4
15°	836.2	837.2	835.3	835.3	837.2	842.7	842.7	839.0	837.2	832.6	838.1
17.5°	819.7	820.6	819.7	819.7	821.5	827.0	828.0	826.1	824.3	822.4	828.0
20°	803.1	802.2	802.2	801.3	805.0	813.2	812.3	812.3	810.5	810.5	816.9
22.5°	783.8	783.8	782.9	782.9	787.5	794.8	794.8	796.7	794.8	798.5	804.0
25°	761.7	762.6	761.7	763.6	767.2	775.5	776.4	779.2	780.1	783.8	790.2
27.5°	738.7	739.6	738.7	740.6	747.0	753.4	758.0	761.7	762.6	768.2	776.4
30°	713.9	713.9	714.8	716.6	724.0	734.1	737.8	742.4	742.4	751.6	759.9
32.5°	688.1	688.1	688.1	691.8	700.1	712.0	716.6	722.2	724.0	733.2	742.4
35°	659.6	660.5	660.5	663.3	674.3	686.3	692.7	699.2	702.8	713.9	723.1
37.5°	632.9	634.8	632.0	635.7	651.3	661.4	668.8	675.2	681.7	696.4	703.8
40°	602.6	604.4	603.5	610.8	623.7	636.6	644.9	651.3	660.5	675.2	683.5
42.5°	570.4	572.2	574.1	582.3	596.1	609.0	619.1	627.4	638.4	651.3	665.1
45°	540.9	540.9	543.7	553.8	568.5	582.3	594.3	603.5	616.4	630.2	644.0
47.5°	507.8	508.7	512.4	524.4	540.0	556.6	567.6	579.6	593.4	608.1	623.7
50°	477.5	477.5	483.0	495.9	510.6	529.0	540.9	554.7	569.5	586.9	602.6
52.5°	442.5	444.3	452.6	464.6	483.9	500.5	514.3	529.0	546.5	564.9	582.3
55°	407.5	411.2	417.7	434.2	454.5	470.1	486.7	505.1	521.6	541.9	562.1
57.5°	373.5	376.3	386.4	402.9	424.1	443.4	460.9	478.4	498.6	518.9	540.0
60°	338.5	342.2	354.2	370.7	393.7	414.0	434.2	452.6	473.8	494.9	517.0
62.5°	305.4	308.2	322.0	341.3	364.3	386.4	406.6	428.7	451.7	471.9	494.0
65°	270.5	275.1	290.7	308.2	334.9	356.9	379.9	403.9	427.8	449.9	471.0
67.5°	238.3	241.0	257.6	277.8	304.5	329.3	353.3	379.0	403.9	426.9	448.0
70°	200.6	209.7	226.3	247.5	276.0	301.7	327.5	354.2	380.9	404.8	425.0
72.5°	169.3	176.6	195.0	218.0	245.6	276.0	302.7	331.2	357.9	382.7	403.9
75°	136.2	143.5	164.7	190.4	218.9	251.1	278.7	308.2	335.8	360.6	382.7
77.5°	104.0	113.2	136.2	162.8	194.1	227.2	255.7	285.2	313.7	340.4	362.5
80°	74.5	84.6	109.5	139.8	170.2	203.3	234.6	264.0	292.5	319.2	342.2
82.5°	47.8	58.9	85.6	115.9	148.1	181.2	213.4	242.9	271.4	298.1	322.0
85°	25.8	37.7	65.3	95.7	127.9	161.0	193.2	224.5	252.1	276.9	302.7
87.5°	7.4	22.1	48.8	79.1	112.2	142.6	173.9	205.1	232.7	259.4	282.4
90°	0.9	12.9	36.8	65.3	97.5	127.0	158.2	187.7	215.3	241.9	264.9
92.5°	0.9	8.3	28.5	54.3	83.7	114.1	145.4	173.9	199.6	226.3	249.3
95°	0.9	6.4	23.0	46.0	73.6	102.1	131.6	159.2	185.8	210.7	233.7
97.5°	0.9	4.6	18.4	39.6	64.4	91.1	119.6	147.2	173.0	196.9	218.0
100°	0.9	3.7	14.7	34.0	56.1	81.9	107.6	134.3	159.2	182.2	204.2
102.5°	0.9	2.8	12.9	28.5	49.7	72.7	97.5	122.4	146.3	168.4	190.4
105°	0.9	2.8	11.0	24.8	44.2	65.3	88.3	112.2	134.3	155.5	175.7
107.5°	0.9	1.8	9.2	21.2	38.6	58.9	80.0	103.0	123.3	143.5	162.8
110°	0.9	1.8	7.4	19.3	34.0	52.4	72.7	93.8	113.2	132.5	150.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.9	1.8	6.4	16.6	29.4	46.9	65.3	84.6	103.0	122.4	138.9
115°	0.9	1.8	5.5	14.7	27.6	40.5	58.9	76.4	94.8	112.2	127.9
117.5°	0.9	1.8	4.6	12.0	23.9	36.8	51.5	69.0	85.6	102.1	116.8
120°	0.9	1.8	3.7	11.0	21.2	33.1	46.0	61.6	77.3	92.9	108.6
122.5°	0.9	0.9	3.7	9.2	18.4	29.4	42.3	54.3	69.0	83.7	97.5
125°	0.9	0.9	3.7	8.3	15.6	26.7	37.7	48.8	61.6	74.5	86.5
127.5°	0.9	0.9	2.8	6.4	13.8	23.0	33.1	45.1	54.3	66.2	78.2
130°	0.9	0.9	2.8	5.5	12.0	19.3	29.4	39.6	50.6	58.9	69.0
132.5°	0.9	0.9	2.8	4.6	9.2	15.6	24.8	34.0	44.2	53.4	61.6
135°	0.9	0.9	1.8	3.7	7.4	12.9	20.2	28.5	38.6	47.8	56.1
137.5°	0.9	0.9	1.8	3.7	5.5	11.0	15.6	23.0	32.2	40.5	48.8
140°	0.9	0.9	1.8	2.8	4.6	8.3	12.9	18.4	25.8	33.1	42.3
142.5°	0.9	0.9	0.9	2.8	3.7	6.4	10.1	14.7	20.2	26.7	34.0
145°	0.9	0.9	0.9	2.8	3.7	4.6	8.3	12.0	15.6	20.2	26.7
147.5°	0.9	0.9	0.9	1.8	2.8	3.7	6.4	9.2	12.0	15.6	19.3
150°	0.9	0.9	0.9	1.8	2.8	3.7	4.6	6.4	9.2	12.9	15.6
152.5°	0.9	0.9	0.9	1.8	1.8	2.8	3.7	4.6	6.4	9.2	11.0
155°	0.9	0.9	0.9	0.9	1.8	2.8	3.7	3.7	4.6	6.4	8.3
157.5°	0.9	0.9	0.9	0.9	1.8	1.8	2.8	2.8	3.7	3.7	5.5
160°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.8	2.8	2.8	2.8
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	2.8	2.8
165°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
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°	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1
2.5°	865.7	866.6	869.4	869.4	867.5	867.5	866.6	865.7	866.6	868.4	868.4
5°	863.8	864.8	867.5	868.4	866.6	865.7	865.7	864.8	865.7	867.5	867.5
7.5°	860.2	861.1	863.8	864.8	862.9	862.9	862.0	861.1	862.9	863.8	863.8
10°	854.6	855.6	859.2	860.2	859.2	858.3	858.3	857.4	858.3	860.2	860.2
12.5°	847.3	849.1	853.7	853.7	853.7	852.8	852.8	851.9	852.8	854.6	853.7
15°	839.0	842.7	846.4	848.2	848.2	848.2	847.3	846.4	848.2	849.1	848.2
17.5°	829.8	834.4	839.9	841.8	841.8	842.7	841.8	840.8	842.7	842.7	841.8
20°	820.6	825.2	830.7	832.6	834.4	835.3	835.3	834.4	835.3	836.2	835.3
22.5°	808.6	814.2	820.6	823.4	825.2	827.0	827.0	827.0	828.0	828.9	827.0
25°	795.8	802.2	809.6	812.3	816.0	816.9	817.8	817.8	818.8	819.7	816.9
27.5°	782.0	789.3	796.7	801.3	804.0	805.9	805.9	806.8	807.7	808.6	805.9
30°	765.4	776.4	782.9	786.6	790.2	793.0	793.9	794.8	795.8	796.7	793.9
32.5°	750.7	759.9	768.2	772.8	777.4	781.0	782.0	782.0	783.8	783.8	781.0
35°	733.2	744.2	752.5	757.1	762.6	765.4	767.2	767.2	769.1	769.1	766.3
37.5°	715.7	726.8	736.0	741.5	747.9	751.6	752.5	752.5	754.4	754.4	750.7
40°	697.3	709.3	719.4	725.8	731.4	736.0	736.9	739.6	739.6	738.7	735.0
42.5°	678.9	690.0	701.0	708.4	715.7	720.3	722.2	723.1	723.1	722.2	719.4
45°	658.7	671.6	681.7	690.9	698.2	702.8	705.6	706.5	706.5	704.7	701.9
47.5°	639.4	652.2	662.4	672.5	679.8	685.4	688.1	689.0	688.1	687.2	684.4
50°	619.1	633.8	644.0	654.1	661.4	666.0	670.6	671.6	670.6	669.7	664.2
52.5°	598.0	613.6	624.6	634.8	643.0	648.6	652.2	653.2	653.2	651.3	647.6
55°	576.8	590.6	604.4	615.4	624.6	630.2	634.8	636.6	634.8	632.9	628.3
57.5°	557.5	570.4	584.2	596.1	605.3	612.7	616.4	618.2	616.4	613.6	609.0
60°	534.5	548.3	563.9	575.0	585.1	592.5	594.3	598.0	596.1	593.4	588.8
62.5°	512.4	529.0	542.8	556.6	564.9	573.1	576.8	578.7	576.8	574.1	569.5
65°	489.4	507.8	521.6	535.4	544.6	552.9	557.5	558.4	556.6	553.8	549.2
67.5°	468.3	485.7	500.5	515.2	523.5	531.7	536.3	538.2	536.3	532.7	528.1
70°	447.1	464.6	482.1	493.1	503.2	512.4	515.2	517.9	516.1	512.4	506.9
72.5°	425.9	444.3	461.8	472.9	483.9	492.2	495.9	498.6	496.8	493.1	486.7
75°	403.9	423.2	440.7	452.6	463.7	471.9	475.6	478.4	476.5	472.9	465.5
77.5°	383.6	402.9	419.5	432.4	443.4	450.8	457.2	458.1	456.3	452.6	445.3
80°	362.5	381.8	399.3	412.1	423.2	430.5	435.1	437.9	436.1	432.4	425.0
82.5°	344.1	361.5	379.0	391.9	402.9	412.1	415.8	418.6	417.7	412.1	406.6
85°	323.8	344.1	357.9	371.7	382.7	391.9	394.7	398.3	397.4	392.8	385.5
87.5°	303.6	323.8	340.4	354.2	364.3	371.7	376.3	378.1	377.2	372.6	364.3
90°	287.0	305.4	322.0	336.7	345.0	353.3	357.9	358.8	358.8	353.3	346.8
92.5°	271.4	288.9	305.4	319.2	329.3	336.7	340.4	342.2	341.3	336.7	329.3
95°	253.9	273.2	288.9	302.7	312.8	320.1	323.8	325.7	324.7	320.1	312.8
97.5°	239.2	256.7	272.3	285.2	295.3	302.7	306.3	308.2	308.2	303.6	296.2
100°	224.5	241.9	256.7	269.5	278.7	286.1	289.8	290.7	289.8	286.1	278.7
102.5°	209.7	226.3	241.0	253.0	263.1	269.5	273.2	274.1	274.1	269.5	262.2
105°	195.0	211.6	225.4	238.3	246.5	253.0	255.7	258.5	257.6	253.9	246.5
107.5°	181.2	197.8	210.7	222.6	230.9	237.3	240.1	242.9	241.9	238.3	230.9
110°	168.4	184.0	196.0	207.9	215.3	221.7	226.3	227.2	225.4	221.7	215.3

TEST NUMBER: P1213427

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	156.4	170.2	182.2	193.2	201.5	206.1	209.7	211.6	209.7	206.1	201.5
115°	143.5	157.3	169.3	179.4	186.8	192.3	195.0	196.9	195.0	191.4	186.8
117.5°	131.6	144.4	156.4	166.5	173.0	177.6	180.3	182.2	180.3	177.6	173.0
120°	121.4	132.5	143.5	152.7	160.1	163.8	166.5	168.4	167.4	163.8	159.2
122.5°	109.5	121.4	131.6	140.8	147.2	150.9	152.7	154.6	153.6	150.9	146.3
125°	99.4	109.5	119.6	127.9	134.3	138.0	139.8	141.7	140.8	138.0	132.5
127.5°	88.3	99.4	107.6	115.9	120.5	126.0	127.0	128.8	127.9	125.1	120.5
130°	80.0	88.3	96.6	104.0	109.5	113.2	115.0	115.9	114.1	112.2	107.6
132.5°	69.9	79.1	86.5	92.9	96.6	100.3	102.1	103.0	103.0	100.3	96.6
135°	62.6	69.0	75.4	81.9	85.6	89.2	91.1	92.0	91.1	89.2	85.6
137.5°	56.1	61.6	66.2	71.8	76.4	78.2	80.0	80.0	79.1	78.2	75.4
140°	48.8	55.2	59.8	63.5	67.2	68.1	69.9	69.9	69.0	68.1	66.2
142.5°	41.4	46.9	51.5	56.1	58.9	60.7	61.6	62.6	61.6	60.7	58.0
145°	33.1	39.6	44.2	46.9	50.6	51.5	52.4	53.4	52.4	51.5	48.8
147.5°	25.8	31.3	35.9	39.6	42.3	43.2	44.2	45.1	44.2	42.3	41.4
150°	18.4	23.0	28.5	32.2	34.0	35.9	35.9	35.9	36.8	35.0	33.1
152.5°	14.7	16.6	20.2	23.9	26.7	27.6	28.5	28.5	27.6	27.6	25.8
155°	10.1	12.0	14.7	17.5	20.2	21.2	22.1	22.1	21.2	21.2	20.2
157.5°	6.4	8.3	10.1	12.0	14.7	15.6	16.6	16.6	16.6	15.6	14.7
160°	3.7	4.6	5.5	7.4	9.2	10.1	11.0	11.0	11.0	11.0	10.1
162.5°	2.8	2.8	2.8	3.7	4.6	5.5	6.4	6.4	6.4	6.4	5.5
165°	1.8	1.8	1.8	1.8	1.8	2.8	3.7	3.7	3.7	3.7	3.7
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

TEST NUMBER: P1213427

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1
2.5°	867.5	867.5	868.4	866.6	861.1	862.0	862.0	865.7	867.5	868.4	873.0
5°	865.7	865.7	867.5	864.8	860.2	860.2	860.2	863.8	864.8	866.6	870.3
7.5°	862.9	862.9	863.8	861.1	855.6	855.6	854.6	858.3	860.2	861.1	864.8
10°	858.3	858.3	859.2	856.5	850.0	850.0	849.1	851.9	852.8	854.6	857.4
12.5°	851.9	851.9	851.9	849.1	842.7	841.8	840.8	843.6	843.6	844.5	847.3
15°	846.4	844.5	844.5	841.8	835.3	833.5	831.6	832.6	834.4	833.5	835.3
17.5°	839.9	838.1	836.2	833.5	825.2	822.4	820.6	821.5	820.6	819.7	821.5
20°	832.6	829.8	828.9	824.3	816.0	811.4	807.7	805.9	806.8	804.0	805.0
22.5°	824.3	820.6	818.8	813.2	805.0	799.4	794.8	791.2	790.2	786.6	787.5
25°	814.2	809.6	806.8	802.2	793.0	786.6	781.0	775.5	772.8	768.2	767.2
27.5°	802.2	797.6	793.9	789.3	780.1	771.8	765.4	758.0	754.4	748.8	746.1
30°	790.2	784.7	779.2	775.5	765.4	756.2	746.1	739.6	734.1	727.7	723.1
32.5°	775.5	770.0	764.5	759.0	749.8	738.7	730.4	720.3	713.9	706.5	701.0
35°	760.8	753.4	747.9	740.6	732.3	719.4	709.3	699.2	690.9	682.6	676.2
37.5°	744.2	738.7	730.4	724.0	713.9	701.0	690.0	677.1	669.7	658.7	650.4
40°	728.6	722.2	713.9	705.6	695.5	680.8	668.8	654.1	645.8	632.9	624.6
42.5°	713.0	703.8	695.5	686.3	675.2	661.4	646.7	632.0	621.0	609.0	597.1
45°	695.5	685.4	675.2	665.1	654.1	640.3	624.6	609.0	595.2	584.2	569.5
47.5°	677.1	667.0	655.0	644.0	632.0	618.2	601.7	585.1	570.4	557.5	541.9
50°	658.7	648.6	635.7	623.7	609.9	596.1	578.7	559.3	543.7	527.1	513.3
52.5°	639.4	629.2	617.3	601.7	586.9	573.1	554.7	534.5	517.0	503.2	485.7
55°	620.0	609.9	596.1	580.5	565.8	548.3	530.8	510.6	491.3	474.7	457.2
57.5°	599.8	590.6	575.0	562.1	543.7	525.3	506.9	487.6	466.4	447.1	426.9
60°	579.6	569.5	554.7	539.1	520.7	502.3	483.0	461.8	439.7	418.6	400.2
62.5°	561.2	548.3	534.5	517.9	498.6	481.1	459.1	436.1	414.0	391.9	369.8
65°	540.0	526.2	513.3	496.8	476.5	456.3	434.2	411.2	387.3	363.4	341.3
67.5°	518.9	505.1	491.3	474.7	453.5	432.4	409.4	386.4	359.7	336.7	310.9
70°	497.7	486.7	469.2	451.7	432.4	409.4	386.4	361.5	333.9	309.1	282.4
72.5°	476.5	465.5	448.0	429.6	411.2	387.3	362.5	337.6	311.9	283.3	254.8
75°	456.3	442.5	426.9	409.4	390.1	365.2	340.4	314.6	284.3	257.6	228.1
77.5°	437.0	424.1	408.5	389.1	368.0	344.1	318.3	291.6	261.3	232.7	200.6
80°	415.8	402.9	387.3	368.0	346.8	323.8	296.2	268.6	239.2	207.9	174.8
82.5°	395.6	383.6	366.1	348.7	325.7	302.7	275.1	247.5	216.2	185.8	153.6
85°	374.4	362.5	345.9	327.5	305.4	280.6	254.8	227.2	196.0	164.7	132.5
87.5°	356.0	342.2	325.7	307.3	285.2	261.3	236.4	207.0	176.6	146.3	113.2
90°	336.7	323.8	307.3	288.9	266.8	242.9	217.1	189.5	160.1	128.8	97.5
92.5°	320.1	306.3	290.7	272.3	250.2	227.2	201.5	173.9	145.4	115.0	84.6
95°	303.6	289.8	275.1	256.7	234.6	211.6	185.8	159.2	131.6	102.1	73.6
97.5°	285.2	273.2	258.5	241.0	218.9	196.9	172.0	146.3	119.6	91.1	64.4
100°	270.5	256.7	242.9	224.5	204.2	183.1	158.2	133.4	107.6	81.0	56.1
102.5°	253.9	241.0	227.2	209.7	189.5	168.4	145.4	121.4	97.5	72.7	48.8
105°	238.3	226.3	211.6	195.0	175.7	155.5	133.4	111.3	88.3	64.4	43.2
107.5°	222.6	210.7	196.9	181.2	162.8	142.6	122.4	100.3	79.1	58.0	38.6
110°	207.0	196.0	183.1	167.4	150.0	131.6	112.2	92.0	70.8	51.5	34.0

TEST NUMBER: P1213427

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	193.2	182.2	169.3	154.6	138.0	120.5	102.1	82.8	63.5	46.0	29.4
115°	179.4	169.3	156.4	143.5	127.0	110.4	92.9	74.5	57.0	41.4	25.8
117.5°	165.6	155.5	143.5	130.6	115.9	100.3	83.7	66.2	51.5	36.8	23.0
120°	151.8	142.6	131.6	119.6	106.7	91.1	74.5	59.8	46.0	32.2	20.2
122.5°	138.9	130.6	120.5	109.5	95.7	81.0	67.2	54.3	41.4	28.5	16.6
125°	127.0	118.7	109.5	98.4	85.6	72.7	60.7	48.8	35.9	24.8	13.8
127.5°	115.0	106.7	97.5	87.4	77.3	65.3	54.3	43.2	32.2	22.1	12.0
130°	103.0	95.7	87.4	79.1	69.0	58.0	48.8	37.7	27.6	17.5	10.1
132.5°	91.1	85.6	78.2	69.9	60.7	52.4	42.3	33.1	23.9	15.6	9.2
135°	81.0	75.4	69.0	61.6	54.3	46.0	36.8	28.5	20.2	12.9	7.4
137.5°	71.8	67.2	60.7	54.3	47.8	39.6	32.2	23.9	16.6	11.0	5.5
140°	63.5	58.9	53.4	46.9	41.4	34.0	26.7	19.3	14.7	9.2	4.6
142.5°	55.2	50.6	46.0	40.5	35.0	28.5	22.1	16.6	12.0	7.4	4.6
145°	46.9	43.2	38.6	34.0	28.5	23.0	18.4	13.8	9.2	5.5	3.7
147.5°	38.6	35.9	31.3	27.6	23.0	18.4	14.7	11.0	7.4	4.6	2.8
150°	31.3	28.5	24.8	21.2	18.4	14.7	12.0	8.3	5.5	4.6	2.8
152.5°	23.9	22.1	19.3	17.5	14.7	11.0	8.3	6.4	4.6	3.7	1.8
155°	19.3	17.5	15.6	12.9	11.0	8.3	6.4	4.6	3.7	2.8	1.8
157.5°	13.8	12.9	11.0	9.2	7.4	5.5	4.6	4.6	2.8	1.8	0.9
160°	9.2	8.3	7.4	5.5	4.6	4.6	3.7	2.8	1.8	1.8	0.9
162.5°	5.5	4.6	4.6	4.6	3.7	3.7	2.8	1.8	1.8	0.9	0.9
165°	3.7	3.7	3.7	2.8	2.8	2.8	1.8	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: P1213427

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1
2.5°	873.0	870.3	874.0	880.4	881.3	880.4	878.6	881.3	885.0	884.1	877.6
5°	871.2	867.5	871.2	877.6	877.6	876.7	875.8	878.6	882.2	881.3	875.8
7.5°	865.7	862.0	865.7	871.2	872.1	870.3	870.3	873.0	876.7	875.8	871.2
10°	858.3	854.6	856.5	862.9	864.8	862.9	862.9	865.7	870.3	869.4	863.8
12.5°	847.3	844.5	846.4	851.9	853.7	852.8	851.9	855.6	860.2	860.2	854.6
15°	835.3	831.6	833.5	839.9	840.8	839.0	839.9	842.7	848.2	848.2	843.6
17.5°	821.5	816.9	819.7	824.3	825.2	825.2	825.2	828.9	835.3	834.4	830.7
20°	805.9	799.4	801.3	805.9	807.7	807.7	807.7	814.2	818.8	818.8	815.1
22.5°	787.5	782.9	782.9	787.5	790.2	789.3	789.3	794.8	801.3	800.4	800.4
25°	766.3	762.6	760.8	766.3	767.2	768.2	770.0	775.5	782.9	782.9	783.8
27.5°	744.2	740.6	739.6	744.2	745.2	746.1	747.9	754.4	761.7	762.6	764.5
30°	723.1	717.6	715.7	719.4	721.2	722.2	722.2	732.3	738.7	741.5	745.2
32.5°	698.2	692.7	688.1	694.6	695.5	697.3	698.2	708.4	715.7	720.3	725.8
35°	673.4	664.2	662.4	667.0	668.8	669.7	671.6	682.6	692.7	696.4	703.8
37.5°	645.8	639.4	633.8	638.4	640.3	641.2	646.7	656.8	667.0	672.5	679.8
40°	620.0	611.8	607.2	609.9	611.8	612.7	619.1	630.2	642.1	648.6	657.8
42.5°	591.5	580.5	576.8	579.6	580.5	583.3	588.8	603.5	615.4	624.6	632.0
45°	563.0	554.7	546.5	549.2	550.1	552.0	560.3	575.9	588.8	599.8	608.1
47.5°	533.6	523.5	515.2	517.0	520.7	521.6	530.8	549.2	561.2	573.1	584.2
50°	504.1	490.3	483.9	483.9	485.7	490.3	502.3	520.7	533.6	547.4	559.3
52.5°	473.8	460.9	453.5	454.5	456.3	461.8	472.9	491.3	506.0	520.7	535.4
55°	443.4	429.6	422.3	420.4	422.3	429.6	442.5	461.8	476.5	494.0	509.7
57.5°	413.1	396.5	390.1	387.3	389.1	398.3	411.2	431.5	449.9	466.4	484.8
60°	379.9	367.1	356.0	349.6	354.2	366.1	379.9	401.1	420.4	438.8	459.1
62.5°	351.4	334.9	322.9	316.5	321.1	331.2	350.5	370.7	391.9	413.1	433.3
65°	319.2	302.7	288.9	282.4	287.0	299.0	318.3	340.4	363.4	384.5	408.5
67.5°	287.9	270.5	253.9	247.5	253.0	265.9	287.0	311.9	336.7	358.8	384.5
70°	257.6	238.3	220.8	216.2	219.9	237.3	257.6	282.4	308.2	333.9	360.6
72.5°	230.0	206.1	187.7	182.2	186.8	206.1	229.1	254.8	282.4	310.0	338.5
75°	197.8	175.7	155.5	149.0	154.6	172.0	200.6	228.1	257.6	287.0	313.7
77.5°	172.0	146.3	125.1	115.0	124.2	146.3	173.9	203.3	233.7	264.0	294.4
80°	145.4	118.7	95.7	84.6	94.8	118.7	146.3	178.5	212.5	242.9	270.5
82.5°	121.4	92.9	69.0	57.0	68.1	94.8	125.1	157.3	190.4	220.8	253.0
85°	99.4	69.9	45.1	32.2	47.8	71.8	104.0	137.1	171.1	202.4	233.7
87.5°	81.0	52.4	27.6	13.8	29.4	56.1	86.5	119.6	153.6	184.9	214.3
90°	66.2	37.7	14.7	1.8	17.5	42.3	71.8	104.0	136.2	168.4	197.8
92.5°	54.3	28.5	8.3	0.9	11.0	34.0	61.6	92.0	123.3	154.6	183.1
95°	45.1	22.1	5.5	0.9	8.3	26.7	52.4	81.9	111.3	141.7	170.2
97.5°	38.6	18.4	4.6	0.9	6.4	23.0	45.1	72.7	101.2	129.7	157.3
100°	33.1	14.7	3.7	0.9	5.5	19.3	39.6	64.4	91.1	118.7	145.4
102.5°	28.5	12.0	2.8	0.9	4.6	16.6	35.0	58.0	81.9	108.6	134.3
105°	24.8	10.1	2.8	0.9	3.7	14.7	31.3	51.5	75.4	99.4	124.2
107.5°	21.2	8.3	1.8	0.9	2.8	12.0	27.6	46.9	68.1	91.1	114.1
110°	18.4	7.4	1.8	0.9	2.8	11.0	23.9	42.3	61.6	82.8	104.9

TEST NUMBER: P1213427

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	15.6	5.5	1.8	0.9	1.8	9.2	21.2	37.7	56.1	75.4	96.6
115°	13.8	4.6	0.9	0.9	1.8	8.3	19.3	34.0	50.6	69.0	88.3
117.5°	11.0	3.7	0.9	0.9	0.9	6.4	16.6	30.4	46.0	63.5	81.0
120°	9.2	3.7	0.9	0.9	0.9	5.5	14.7	26.7	41.4	57.0	73.6
122.5°	8.3	2.8	0.9	0.9	0.9	4.6	12.9	23.9	36.8	51.5	67.2
125°	7.4	2.8	0.9	0.9	0.9	3.7	11.0	21.2	33.1	46.0	60.7
127.5°	5.5	2.8	0.9	0.9	0.9	2.8	10.1	18.4	29.4	41.4	54.3
130°	4.6	1.8	0.9	0.9	0.9	2.8	8.3	16.6	25.8	36.8	48.8
132.5°	3.7	1.8	0.9	0.9	0.9	1.8	6.4	12.9	22.1	32.2	43.2
135°	3.7	1.8	0.9	0.9	0.9	1.8	4.6	11.0	18.4	27.6	36.8
137.5°	3.7	0.9	0.9	0.9	0.9	1.8	3.7	8.3	14.7	22.1	30.4
140°	2.8	0.9	0.9	0.9	0.9	0.9	2.8	6.4	12.0	18.4	25.8
142.5°	2.8	0.9	0.9	0.9	0.9	0.9	2.8	4.6	9.2	14.7	20.2
145°	1.8	0.9	0.9	0.9	0.9	0.9	1.8	3.7	7.4	11.0	16.6
147.5°	1.8	0.9	0.9	0.9	0.9	0.9	1.8	2.8	5.5	9.2	12.9
150°	1.8	0.9	0.9	0.9	0.9	0.9	1.8	2.8	3.7	6.4	10.1
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.8	4.6	6.4
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	2.8	3.7	4.6
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.8	3.7
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.8
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8
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: P1213427

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1
2.5°	874.9	868.4	870.3	869.4	871.2	874.0	874.0	873.0	873.0	871.2	869.4
5°	873.0	866.6	869.4	868.4	870.3	873.0	873.0	872.1	872.1	869.4	868.4
7.5°	867.5	862.9	864.8	864.8	866.6	869.4	869.4	868.4	868.4	865.7	864.8
10°	862.0	856.5	859.2	859.2	861.1	864.8	864.8	863.8	863.8	861.1	860.2
12.5°	852.8	847.3	851.9	852.8	854.6	858.3	857.4	857.4	857.4	854.6	853.7
15°	841.8	838.1	842.7	843.6	846.4	851.0	851.0	851.0	851.0	848.2	847.3
17.5°	829.8	827.0	831.6	833.5	837.2	841.8	841.8	842.7	843.6	841.8	840.8
20°	816.0	814.2	818.8	822.4	828.0	832.6	834.4	835.3	837.2	835.3	834.4
22.5°	800.4	800.4	806.8	810.5	816.9	821.5	824.3	827.0	828.9	827.0	826.1
25°	782.9	785.6	792.1	798.5	805.9	810.5	813.2	816.9	818.8	817.8	816.9
27.5°	766.3	770.0	778.3	784.7	791.2	798.5	801.3	805.9	807.7	807.7	806.8
30°	747.0	752.5	761.7	769.1	777.4	784.7	788.4	793.0	795.8	793.9	794.8
32.5°	728.6	737.8	745.2	753.4	762.6	770.0	774.6	780.1	782.9	782.0	782.9
35°	708.4	717.6	727.7	736.0	747.0	754.4	760.8	765.4	769.1	768.2	768.2
37.5°	686.3	698.2	708.4	719.4	729.5	737.8	744.2	749.8	753.4	753.4	753.4
40°	665.1	678.0	688.1	701.0	713.9	721.2	728.6	734.1	737.8	738.7	739.6
42.5°	642.1	655.9	667.9	681.7	694.6	703.8	712.0	718.5	722.2	724.0	723.1
45°	621.0	633.8	647.6	663.3	675.2	684.4	694.6	701.9	705.6	706.5	707.4
47.5°	597.1	611.8	627.4	643.0	655.0	667.0	676.2	683.5	687.2	690.0	690.0
50°	574.1	589.7	607.2	623.7	636.6	648.6	657.8	666.0	670.6	672.5	673.4
52.5°	552.9	567.6	586.0	602.6	615.4	627.4	639.4	648.6	653.2	655.0	655.0
55°	527.1	545.5	565.8	581.4	595.2	609.0	621.0	630.2	634.8	637.5	639.4
57.5°	503.2	522.5	543.7	560.3	576.8	589.7	600.7	612.7	616.4	620.0	621.0
60°	480.2	499.5	519.8	538.2	554.7	568.5	581.4	591.5	598.0	599.8	601.7
62.5°	456.3	476.5	497.7	516.1	533.6	550.1	562.1	571.3	578.7	581.4	583.3
65°	433.3	454.5	475.6	494.9	513.3	529.9	541.9	551.1	558.4	563.0	563.9
67.5°	408.5	431.5	453.5	473.8	492.2	509.7	521.6	530.8	538.2	543.7	544.6
70°	385.5	409.4	431.5	453.5	471.9	489.4	502.3	511.5	519.8	523.5	525.3
72.5°	363.4	388.2	411.2	433.3	451.7	469.2	483.0	492.2	500.5	505.1	506.0
75°	342.2	367.1	391.9	413.1	432.4	449.9	463.7	473.8	481.1	485.7	487.6
77.5°	321.1	346.8	371.7	392.8	413.1	430.5	442.5	454.5	461.8	467.3	467.3
80°	299.9	326.6	352.3	373.5	393.7	409.4	423.2	435.1	442.5	448.0	448.0
82.5°	281.5	307.3	332.1	353.3	373.5	391.0	404.8	415.8	424.1	427.8	428.7
85°	260.3	288.9	311.9	334.9	354.2	370.7	384.5	396.5	403.9	407.5	409.4
87.5°	242.9	270.5	295.3	315.5	334.9	351.4	367.1	377.2	384.5	389.1	391.0
90°	226.3	253.0	277.8	298.1	318.3	333.9	348.7	358.8	367.1	370.7	372.6
92.5°	211.6	238.3	262.2	282.4	301.7	319.2	333.0	343.1	350.5	354.2	356.9
95°	197.8	223.5	246.5	268.6	287.0	302.7	317.4	327.5	335.8	338.5	341.3
97.5°	184.0	208.8	231.8	253.0	272.3	287.0	300.8	310.9	317.4	322.0	324.7
100°	172.0	196.0	218.0	238.3	256.7	270.5	285.2	294.4	300.8	304.5	308.2
102.5°	159.2	183.1	204.2	223.5	242.9	255.7	269.5	278.7	284.3	290.7	290.7
105°	148.1	170.2	191.4	209.7	226.3	241.9	253.9	263.1	269.5	274.1	274.1
107.5°	136.2	158.2	178.5	197.8	213.4	228.1	239.2	247.5	254.8	257.6	260.3
110°	127.0	146.3	166.5	184.9	199.6	213.4	224.5	233.7	240.1	242.9	244.7

TEST NUMBER: P1213427

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	115.9	136.2	154.6	172.0	186.8	199.6	210.7	218.0	224.5	228.1	229.1
115°	106.7	126.0	142.6	159.2	174.8	185.8	196.0	203.3	209.7	212.5	214.3
117.5°	98.4	115.9	132.5	146.3	161.0	173.0	183.1	189.5	195.0	198.7	200.6
120°	90.2	106.7	121.4	135.2	149.0	160.1	169.3	175.7	182.2	184.9	184.9
122.5°	81.9	97.5	111.3	124.2	137.1	147.2	157.3	162.8	168.4	171.1	171.1
125°	74.5	89.2	102.1	114.1	126.0	135.2	143.5	150.0	155.5	157.3	157.3
127.5°	67.2	81.0	92.9	104.0	114.1	123.3	131.6	138.0	142.6	144.4	144.4
130°	60.7	72.7	83.7	94.8	104.9	112.2	120.5	126.0	128.8	131.6	132.5
132.5°	54.3	65.3	75.4	84.6	94.8	102.1	108.6	114.1	116.8	119.6	120.5
135°	47.8	58.0	67.2	76.4	84.6	92.0	97.5	102.1	105.8	107.6	108.6
137.5°	40.5	51.5	59.8	67.2	76.4	81.9	88.3	91.1	94.8	96.6	96.6
140°	34.0	42.3	51.5	58.9	66.2	71.8	77.3	81.9	84.6	85.6	85.6
142.5°	27.6	35.0	42.3	51.5	58.0	62.6	68.1	71.8	73.6	74.5	75.4
145°	22.1	27.6	34.0	42.3	49.7	55.2	58.0	61.6	63.5	64.4	65.3
147.5°	16.6	22.1	27.6	33.1	40.5	46.0	48.8	52.4	54.3	55.2	55.2
150°	12.9	16.6	20.2	25.8	31.3	37.7	41.4	44.2	45.1	46.0	46.0
152.5°	9.2	12.9	15.6	19.3	23.0	28.5	34.0	35.9	36.8	37.7	37.7
155°	6.4	9.2	11.0	13.8	16.6	21.2	25.8	28.5	29.4	30.4	30.4
157.5°	4.6	6.4	7.4	10.1	12.0	13.8	17.5	22.1	23.0	23.0	23.0
160°	2.8	3.7	4.6	6.4	7.4	9.2	11.0	13.8	16.6	16.6	16.6
162.5°	1.8	2.8	2.8	3.7	3.7	5.5	6.4	7.4	10.1	11.0	11.0
165°	0.9	1.8	1.8	1.8	1.8	1.8	2.8	2.8	4.6	5.5	5.5
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: P1213427

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1
2.5°	870.3	872.1	871.2	871.2	871.2	873.0	871.2	862.9	864.8	866.6	868.4
5°	869.4	870.3	870.3	869.4	869.4	871.2	869.4	861.1	862.9	864.8	865.7
7.5°	865.7	866.6	866.6	866.6	865.7	867.5	864.8	857.4	857.4	859.2	860.2
10°	861.1	862.9	862.0	861.1	861.1	861.1	859.2	851.0	851.0	851.9	852.8
12.5°	855.6	855.6	855.6	854.6	853.7	853.7	851.9	843.6	842.7	844.5	843.6
15°	848.2	850.0	848.2	847.3	845.4	845.4	842.7	834.4	832.6	833.5	832.6
17.5°	841.8	842.7	840.8	839.0	837.2	836.2	833.5	824.3	821.5	822.4	820.6
20°	835.3	835.3	833.5	831.6	828.9	826.1	822.4	813.2	808.6	808.6	805.0
22.5°	827.0	827.0	825.2	822.4	819.7	816.0	812.3	803.1	795.8	793.9	791.2
25°	817.8	816.9	816.0	813.2	807.7	804.0	800.4	790.2	782.0	778.3	773.7
27.5°	806.8	806.8	804.0	801.3	795.8	791.2	786.6	777.4	766.3	761.7	755.3
30°	794.8	794.8	792.1	788.4	782.9	777.4	771.8	760.8	749.8	743.3	736.0
32.5°	782.9	782.0	779.2	775.5	770.0	761.7	757.1	746.1	733.2	725.8	715.7
35°	768.2	767.2	764.5	759.9	752.5	746.1	738.7	728.6	713.9	704.7	693.6
37.5°	753.4	752.5	750.7	744.2	736.9	729.5	720.3	710.2	696.4	684.4	673.4
40°	738.7	737.8	734.1	729.5	720.3	711.1	701.9	691.8	677.1	663.3	651.3
42.5°	723.1	722.2	717.6	712.0	701.9	692.7	681.7	670.6	655.9	639.4	627.4
45°	707.4	705.6	701.0	694.6	683.5	673.4	662.4	649.5	634.8	619.1	603.5
47.5°	690.9	688.1	683.5	674.3	665.1	654.1	641.2	627.4	612.7	595.2	578.7
50°	672.5	670.6	665.1	656.8	645.8	634.8	620.0	606.2	588.8	572.2	552.0
52.5°	655.0	651.3	646.7	637.5	626.5	614.5	598.9	582.3	564.9	549.2	528.1
55°	636.6	634.8	628.3	621.0	607.2	593.4	578.7	561.2	541.9	523.5	503.2
57.5°	619.1	615.4	609.9	599.8	587.9	574.1	558.4	540.0	518.9	499.5	477.5
60°	601.7	596.1	589.7	580.5	567.6	552.9	536.3	517.0	495.9	474.7	451.7
62.5°	582.3	577.7	570.4	561.2	548.3	532.7	515.2	494.9	474.7	452.6	427.8
65°	563.0	558.4	551.1	541.9	529.0	511.5	493.1	472.9	449.9	428.7	402.0
67.5°	543.7	539.1	530.8	520.7	507.8	491.3	471.9	450.8	427.8	404.8	377.2
70°	524.4	518.9	511.5	500.5	487.6	470.1	450.8	428.7	405.7	380.9	353.3
72.5°	505.1	500.5	491.3	481.1	467.3	449.9	430.5	408.5	384.5	358.8	331.2
75°	485.7	480.2	473.8	461.8	447.1	430.5	410.3	388.2	362.5	337.6	309.1
77.5°	466.4	461.8	453.5	441.6	427.8	410.3	390.1	368.0	342.2	316.5	286.1
80°	447.1	441.6	435.1	424.1	408.5	391.0	369.8	347.7	322.0	295.3	264.9
82.5°	427.8	422.3	414.9	403.9	389.1	371.7	351.4	327.5	301.7	274.1	245.6
85°	408.5	403.9	395.6	384.5	368.9	351.4	331.2	310.0	282.4	254.8	226.3
87.5°	389.1	384.5	376.3	365.2	350.5	333.0	312.8	290.7	264.0	238.3	207.0
90°	370.7	367.1	358.8	347.7	333.0	315.5	297.1	273.2	247.5	221.7	192.3
92.5°	354.2	350.5	343.1	332.1	319.2	299.9	281.5	258.5	232.7	206.1	177.6
95°	339.5	334.9	327.5	317.4	301.7	285.2	266.8	243.8	218.9	192.3	164.7
97.5°	322.9	318.3	310.9	299.9	287.0	269.5	251.1	229.1	204.2	179.4	151.8
100°	306.3	301.7	293.5	284.3	271.4	253.9	236.4	214.3	191.4	167.4	140.8
102.5°	289.8	285.2	277.8	268.6	255.7	240.1	222.6	201.5	178.5	154.6	129.7
105°	274.1	269.5	262.2	253.0	241.0	225.4	207.0	188.6	166.5	143.5	119.6
107.5°	258.5	253.9	247.5	238.3	226.3	211.6	194.1	174.8	154.6	132.5	109.5
110°	242.9	239.2	231.8	223.5	211.6	196.9	181.2	162.8	142.6	122.4	100.3

TEST NUMBER: P1213427

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	228.1	224.5	217.1	207.9	197.8	184.0	168.4	150.9	131.6	112.2	91.1
115°	213.4	208.8	202.4	194.1	184.0	171.1	156.4	140.8	121.4	103.0	83.7
117.5°	198.7	195.0	188.6	180.3	171.1	158.2	144.4	129.7	111.3	93.8	76.4
120°	184.0	181.2	174.8	167.4	158.2	146.3	133.4	118.7	102.1	85.6	69.0
122.5°	170.2	167.4	161.0	154.6	145.4	134.3	122.4	108.6	93.8	78.2	63.5
125°	157.3	153.6	148.1	141.7	133.4	123.3	111.3	98.4	84.6	70.8	57.0
127.5°	143.5	140.8	137.1	129.7	121.4	112.2	101.2	90.2	77.3	64.4	51.5
130°	132.5	128.8	124.2	118.7	111.3	102.1	92.0	81.0	69.9	58.0	45.1
132.5°	119.6	115.9	112.2	106.7	100.3	92.0	82.8	72.7	62.6	51.5	40.5
135°	107.6	104.9	101.2	95.7	89.2	82.8	73.6	64.4	55.2	45.1	35.9
137.5°	96.6	93.8	90.2	86.5	80.0	73.6	65.3	57.0	48.8	39.6	31.3
140°	85.6	83.7	80.0	76.4	70.8	64.4	57.0	49.7	42.3	34.0	26.7
142.5°	74.5	72.7	69.9	66.2	61.6	56.1	49.7	43.2	35.9	29.4	23.0
145°	64.4	63.5	60.7	57.0	53.4	47.8	42.3	36.8	30.4	24.8	18.4
147.5°	54.3	53.4	51.5	48.8	45.1	40.5	35.9	30.4	25.8	20.2	14.7
150°	45.1	44.2	43.2	39.6	37.7	33.1	29.4	24.8	21.2	15.6	12.0
152.5°	36.8	36.8	35.0	32.2	30.4	26.7	23.9	20.2	16.6	12.9	9.2
155°	29.4	28.5	27.6	25.8	23.9	21.2	18.4	15.6	12.9	9.2	6.4
157.5°	23.0	22.1	21.2	19.3	17.5	16.6	13.8	11.0	8.3	6.4	4.6
160°	16.6	15.6	14.7	13.8	12.9	11.0	9.2	7.4	5.5	3.7	2.8
162.5°	11.0	10.1	10.1	9.2	8.3	6.4	5.5	4.6	3.7	2.8	1.8
165°	5.5	5.5	4.6	4.6	3.7	2.8	2.8	2.8	1.8	1.8	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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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	872.1	872.1	872.1	872.1	872.1	872.1	872.1
2.5°	867.5	867.5	871.2	870.3	867.5	873.0	879.5
5°	864.8	864.8	867.5	867.5	864.8	870.3	875.8
7.5°	860.2	859.2	862.0	862.0	858.3	862.9	869.4
10°	851.9	851.0	853.7	853.7	850.0	854.6	860.2
12.5°	842.7	840.8	843.6	842.7	839.0	843.6	849.1
15°	830.7	829.8	831.6	829.8	826.1	830.7	836.2
17.5°	818.8	816.0	816.9	816.9	810.5	815.1	819.7
20°	803.1	799.4	800.4	799.4	794.8	797.6	803.1
22.5°	787.5	782.0	782.0	781.0	775.5	779.2	783.8
25°	768.2	761.7	761.7	760.8	754.4	757.1	761.7
27.5°	748.8	742.4	739.6	738.7	732.3	732.3	738.7
30°	728.6	719.4	717.6	714.8	708.4	708.4	713.9
32.5°	709.3	696.4	692.7	689.0	682.6	681.7	688.1
35°	683.5	673.4	667.0	663.3	655.9	654.1	659.6
37.5°	662.4	649.5	640.3	635.7	628.3	625.6	632.9
40°	639.4	625.6	613.6	610.8	599.8	596.1	602.6
42.5°	613.6	598.9	586.9	581.4	573.1	569.5	570.4
45°	587.9	572.2	559.3	552.0	543.7	537.3	540.9
47.5°	561.2	547.4	531.7	520.7	510.6	506.0	507.8
50°	534.5	517.9	503.2	491.3	479.3	473.8	477.5
52.5°	507.8	490.3	473.8	460.9	447.1	441.6	442.5
55°	482.1	463.7	444.3	430.5	417.7	409.4	407.5
57.5°	456.3	436.1	415.8	400.2	383.6	376.3	373.5
60°	428.7	407.5	386.4	368.0	350.5	342.2	338.5
62.5°	402.9	379.9	356.0	336.7	319.2	308.2	305.4
65°	378.1	351.4	327.5	305.4	286.1	274.1	270.5
67.5°	351.4	323.8	298.1	274.1	255.7	240.1	238.3
70°	326.6	297.1	268.6	243.8	223.5	207.9	200.6
72.5°	301.7	271.4	241.9	215.3	189.5	174.8	169.3
75°	277.8	246.5	215.3	187.7	159.2	141.7	136.2
77.5°	255.7	223.5	190.4	160.1	133.4	111.3	104.0
80°	234.6	201.5	166.5	135.2	106.7	82.8	74.5
82.5°	212.5	181.2	145.4	112.2	82.8	58.0	47.8
85°	193.2	161.9	126.0	92.9	63.5	36.8	25.8
87.5°	177.6	143.5	111.3	78.2	47.8	21.2	7.4
90°	161.9	128.8	96.6	64.4	35.9	12.0	0.9
92.5°	148.1	116.8	84.6	55.2	27.6	8.3	0.9
95°	135.2	104.9	74.5	46.0	22.1	5.5	0.9
97.5°	123.3	94.8	66.2	39.6	18.4	4.6	0.9
100°	113.2	85.6	58.9	35.0	15.6	3.7	0.9
102.5°	103.0	77.3	52.4	30.4	13.8	2.8	0.9
105°	94.8	69.9	46.9	27.6	12.0	2.8	0.9
107.5°	86.5	63.5	42.3	23.9	10.1	1.8	0.9
110°	78.2	58.0	37.7	21.2	9.2	1.8	0.9

TEST NUMBER: P1213427

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	71.8	52.4	34.0	19.3	7.4	1.8	0.9
115°	65.3	46.9	30.4	16.6	6.4	0.9	0.9
117.5°	58.9	42.3	26.7	14.7	5.5	0.9	0.9
120°	53.4	37.7	23.9	12.9	4.6	0.9	0.9
122.5°	47.8	34.0	21.2	11.0	3.7	0.9	0.9
125°	43.2	30.4	18.4	9.2	2.8	0.9	0.9
127.5°	38.6	26.7	16.6	8.3	2.8	0.9	0.9
130°	34.0	23.9	13.8	6.4	1.8	0.9	0.9
132.5°	30.4	20.2	12.0	5.5	1.8	0.9	0.9
135°	26.7	17.5	10.1	3.7	1.8	0.9	0.9
137.5°	23.0	14.7	8.3	2.8	0.9	0.9	0.9
140°	19.3	12.9	6.4	2.8	0.9	0.9	0.9
142.5°	16.6	10.1	4.6	1.8	0.9	0.9	0.9
145°	12.9	8.3	3.7	1.8	0.9	0.9	0.9
147.5°	10.1	6.4	2.8	1.8	0.9	0.9	0.9
150°	7.4	4.6	2.8	0.9	0.9	0.9	0.9
152.5°	5.5	3.7	1.8	0.9	0.9	0.9	0.9
155°	3.7	2.8	1.8	0.9	0.9	0.9	0.9
157.5°	2.8	1.8	0.9	0.9	0.9	0.9	0.9
160°	1.8	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)