

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: P1213425

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

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213425
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-LD5-44HL-LW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

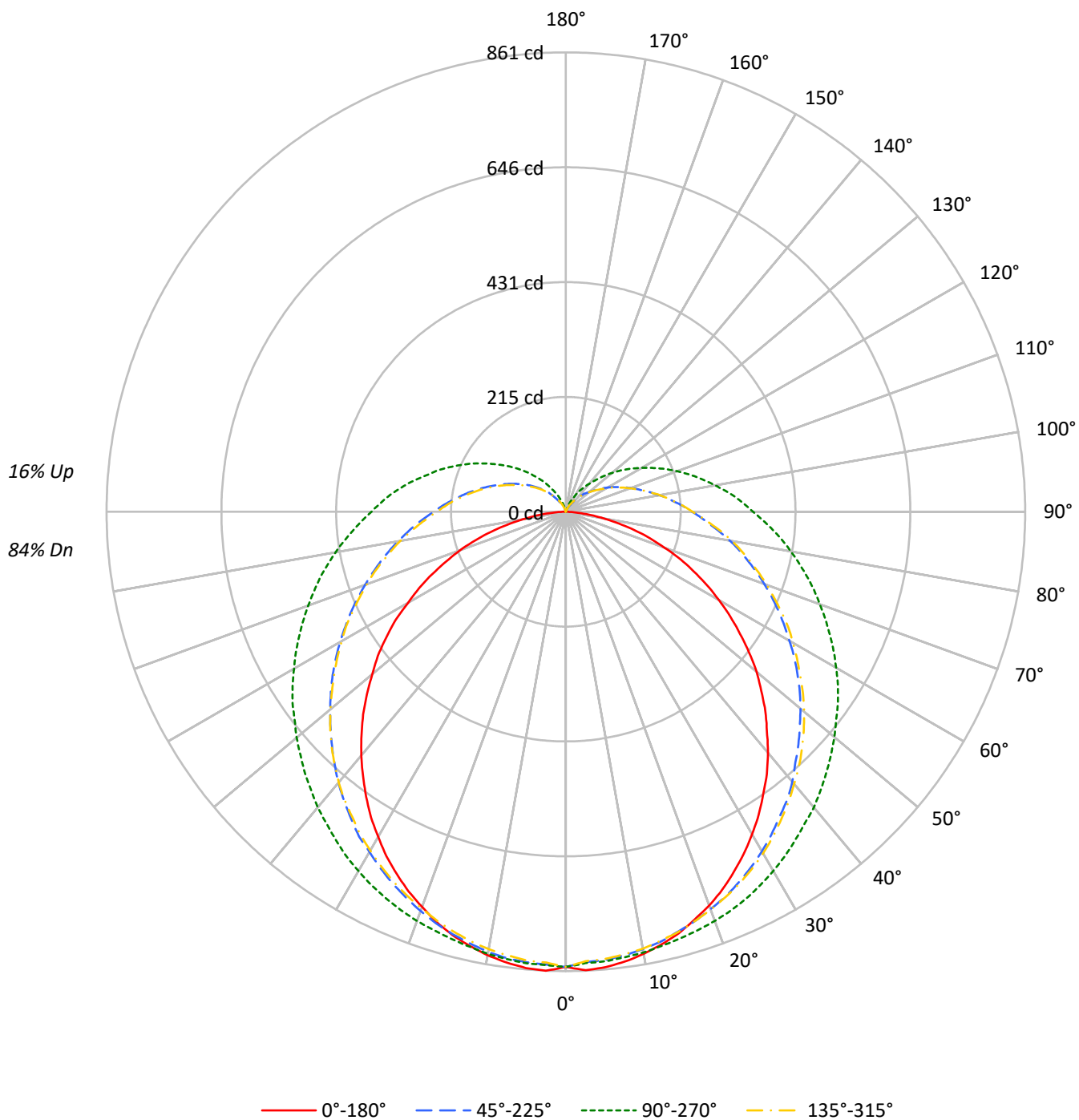
Lumens per Lamp: N/A
Luminaire Lumens: 3706.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 37
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

TEST NUMBER: P1213425

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

Luminous Intensity Polar Plot



TEST NUMBER: P1213425

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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°	6893	6893	6893	6893
5°	6930	6643	6944	6671
10°	6866	6454	6888	6475
15°	6786	6293	6816	6299
20°	6679	6175	6702	6175
25°	6547	6070	6587	6063
30°	6400	5962	6449	5962
35°	6229	5862	6298	5869
40°	6059	5803	6133	5803
45°	5863	5742	5953	5749
50°	5660	5706	5737	5722
55°	5376	5711	5546	5736
60°	5076	5729	5242	5764
65°	4740	5786	4950	5843
70°	4269	5892	4602	5976
75°	3724	6085	4077	6202
80°	2882	6370	3273	6518
85°	1722	6828	2152	7017

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 7845 cd/sqm

TEST NUMBER: P1213425

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	2.2
10°-20°	232.2	6.3
20°-30°	356.1	9.6
30°-40°	439.3	11.9
40°-50°	476.6	12.9
50°-60°	469.7	12.7
60°-70°	424.7	11.5
70°-80°	353.8	9.5
80°-90°	274.0	7.4
90°-100°	207.8	5.6
100°-110°	153.8	4.2
110°-120°	107.0	2.9
120°-130°	68.3	1.8
130°-140°	38.3	1.0
140°-150°	17.5	0.5
150°-160°	5.4	0.1
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-30°	669.1	18.1
0°-40°	1108.4	29.9
0°-60°	2054.7	55.4
0°-90°	3107.2	83.8
90°-120°	468.6	12.6
90°-150°	592.7	16.0
90°-180°	599.0	16.2
0°-180°	3706.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	853	853	853	853	853	
5°	857	846	858	849	857	81
15°	818	828	822	829	818	230
25°	745	800	750	799	745	343
35°	645	750	652	751	645	404
45°	529	691	537	692	529	408
55°	399	623	411	625	399	357
65°	264	546	276	552	264	262
75°	133	468	146	477	133	141
85°	25	390	32	400	25	30
90°	1	351	2	364	1	1
95°	1	318	1	334	1	1
105°	1	253	1	268	1	1
115°	1	193	1	210	1	1
125°	1	139	1	154	1	1
135°	1	90	1	106	1	1
145°	1	52	1	64	1	1
155°	1	22	1	30	1	0
165°	1	4	1	5	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1213425

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0
2.5°	860.2	860.2	859.3	857.5	858.4	861.1	859.3	854.8	852.1	844.9	846.7
5°	856.6	856.6	855.7	853.9	854.8	858.4	856.6	853.0	849.4	843.1	845.8
7.5°	850.3	850.3	849.4	847.6	849.4	853.0	851.2	847.6	844.9	838.6	841.3
10°	841.3	842.2	841.3	838.6	842.2	845.8	844.9	840.4	837.7	832.3	835.0
12.5°	830.5	831.4	830.5	829.6	831.4	836.8	835.0	831.4	829.6	825.1	827.8
15°	817.9	818.8	817.0	817.0	818.8	824.2	824.2	820.6	818.8	814.3	819.7
17.5°	801.7	802.6	801.7	801.7	803.5	808.9	809.8	808.0	806.2	804.4	809.8
20°	785.5	784.6	784.6	783.7	787.3	795.4	794.5	794.5	792.7	792.7	799.0
22.5°	766.6	766.6	765.7	765.7	770.2	777.4	777.4	779.2	777.4	781.0	786.4
25°	745.0	745.9	745.0	746.8	750.4	758.5	759.4	762.1	763.0	766.6	772.9
27.5°	722.5	723.4	722.5	724.3	730.6	736.9	741.4	745.0	745.9	751.3	759.4
30°	698.2	698.2	699.1	700.9	708.1	718.0	721.6	726.1	726.1	735.1	743.2
32.5°	673.1	673.1	673.1	676.7	684.7	696.4	700.9	706.3	708.1	717.1	726.1
35°	645.2	646.1	646.1	648.8	659.6	671.3	677.6	683.8	687.4	698.2	707.2
37.5°	619.1	620.9	618.2	621.8	637.1	647.0	654.2	660.5	666.8	681.2	688.3
40°	589.4	591.2	590.3	597.5	610.1	622.7	630.8	637.1	646.1	660.5	668.6
42.5°	557.9	559.7	561.5	569.6	583.1	595.7	605.6	613.7	624.5	637.1	650.6
45°	529.1	529.1	531.8	541.7	556.1	569.6	581.3	590.3	602.9	616.4	629.9
47.5°	496.7	497.6	501.2	512.9	528.2	544.4	555.2	566.9	580.4	594.8	610.1
50°	467.0	467.0	472.4	485.0	499.4	517.4	529.1	542.6	557.0	574.1	589.4
52.5°	432.8	434.6	442.7	454.4	473.3	489.5	503.0	517.4	534.5	552.5	569.6
55°	398.6	402.2	408.5	424.7	444.5	459.8	476.0	494.0	510.2	530.0	549.8
57.5°	365.3	368.0	377.9	394.1	414.8	433.7	450.8	467.9	487.7	507.5	528.2
60°	331.1	334.7	346.4	362.6	385.1	404.9	424.7	442.7	463.4	484.1	505.7
62.5°	298.7	301.4	314.9	333.8	356.3	377.9	397.7	419.3	441.8	461.6	483.2
65°	264.5	269.0	284.3	301.4	327.5	349.1	371.6	395.0	418.4	440.0	460.7
67.5°	233.0	235.7	251.9	271.7	297.8	322.1	345.5	370.7	395.0	417.5	438.2
70°	196.2	205.2	221.4	242.0	269.9	295.1	320.3	346.4	372.5	395.9	415.7
72.5°	165.6	172.8	190.8	213.3	240.2	269.9	296.0	323.9	350.0	374.3	395.0
75°	133.2	140.4	161.1	186.3	214.2	245.6	272.6	301.4	328.4	352.7	374.3
77.5°	101.7	110.7	133.2	159.3	189.9	222.3	250.1	278.9	306.8	332.9	354.5
80°	72.9	82.8	107.1	136.8	166.5	198.9	229.4	258.2	286.1	312.2	334.7
82.5°	46.8	57.6	83.7	113.4	144.9	177.3	208.8	237.5	265.4	291.5	314.9
85°	25.2	36.9	63.9	93.6	125.1	157.5	189.0	219.6	246.5	270.8	296.0
87.5°	7.2	21.6	47.7	77.4	109.8	139.5	170.1	200.7	227.6	253.7	276.2
90°	0.9	12.6	36.0	63.9	95.4	124.2	154.8	183.6	210.6	236.6	259.1
92.5°	0.9	8.1	27.9	53.1	81.9	111.6	142.2	170.1	195.3	221.4	243.8
95°	0.9	6.3	22.5	45.0	72.0	99.9	128.7	155.7	181.8	206.1	228.5
97.5°	0.9	4.5	18.0	38.7	63.0	89.1	117.0	144.0	169.2	192.6	213.3
100°	0.9	3.6	14.4	33.3	54.9	80.1	105.3	131.4	155.7	178.2	199.8
102.5°	0.9	2.7	12.6	27.9	48.6	71.1	95.4	119.7	143.1	164.7	186.3
105°	0.9	2.7	10.8	24.3	43.2	63.9	86.4	109.8	131.4	152.1	171.9
107.5°	0.9	1.8	9.0	20.7	37.8	57.6	78.3	100.8	120.6	140.4	159.3
110°	0.9	1.8	7.2	18.9	33.3	51.3	71.1	91.8	110.7	129.6	147.6

TEST NUMBER: P1213425

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.9	1.8	6.3	16.2	28.8	45.9	63.9	82.8	100.8	119.7	135.9
115°	0.9	1.8	5.4	14.4	27.0	39.6	57.6	74.7	92.7	109.8	125.1
117.5°	0.9	1.8	4.5	11.7	23.4	36.0	50.4	67.5	83.7	99.9	114.3
120°	0.9	1.8	3.6	10.8	20.7	32.4	45.0	60.3	75.6	90.9	106.2
122.5°	0.9	0.9	3.6	9.0	18.0	28.8	41.4	53.1	67.5	81.9	95.4
125°	0.9	0.9	3.6	8.1	15.3	26.1	36.9	47.7	60.3	72.9	84.6
127.5°	0.9	0.9	2.7	6.3	13.5	22.5	32.4	44.1	53.1	64.8	76.5
130°	0.9	0.9	2.7	5.4	11.7	18.9	28.8	38.7	49.5	57.6	67.5
132.5°	0.9	0.9	2.7	4.5	9.0	15.3	24.3	33.3	43.2	52.2	60.3
135°	0.9	0.9	1.8	3.6	7.2	12.6	19.8	27.9	37.8	46.8	54.9
137.5°	0.9	0.9	1.8	3.6	5.4	10.8	15.3	22.5	31.5	39.6	47.7
140°	0.9	0.9	1.8	2.7	4.5	8.1	12.6	18.0	25.2	32.4	41.4
142.5°	0.9	0.9	0.9	2.7	3.6	6.3	9.9	14.4	19.8	26.1	33.3
145°	0.9	0.9	0.9	2.7	3.6	4.5	8.1	11.7	15.3	19.8	26.1
147.5°	0.9	0.9	0.9	1.8	2.7	3.6	6.3	9.0	11.7	15.3	18.9
150°	0.9	0.9	0.9	1.8	2.7	3.6	4.5	6.3	9.0	12.6	15.3
152.5°	0.9	0.9	0.9	1.8	1.8	2.7	3.6	4.5	6.3	9.0	10.8
155°	0.9	0.9	0.9	0.9	1.8	2.7	3.6	3.6	4.5	6.3	8.1
157.5°	0.9	0.9	0.9	0.9	1.8	1.8	2.7	2.7	3.6	3.6	5.4
160°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.7	2.7	2.7	2.7
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	2.7	2.7
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

TEST NUMBER: P1213425

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0
2.5°	846.7	847.6	850.3	850.3	848.5	848.5	847.6	846.7	847.6	849.4	849.4
5°	844.9	845.8	848.5	849.4	847.6	846.7	846.7	845.8	846.7	848.5	848.5
7.5°	841.3	842.2	844.9	845.8	844.0	844.0	843.1	842.2	844.0	844.9	844.9
10°	835.9	836.8	840.4	841.3	840.4	839.5	839.5	838.6	839.5	841.3	841.3
12.5°	828.7	830.5	835.0	835.0	835.0	834.1	834.1	833.2	834.1	835.9	835.0
15°	820.6	824.2	827.8	829.6	829.6	829.6	828.7	827.8	829.6	830.5	829.6
17.5°	811.6	816.1	821.5	823.3	823.3	824.2	823.3	822.4	824.2	824.2	823.3
20°	802.6	807.1	812.5	814.3	816.1	817.0	817.0	816.1	817.0	817.9	817.0
22.5°	790.9	796.3	802.6	805.3	807.1	808.9	808.9	808.9	809.8	810.7	808.9
25°	778.3	784.6	791.8	794.5	798.1	799.0	799.9	799.9	800.8	801.7	799.0
27.5°	764.8	772.0	779.2	783.7	786.4	788.2	788.2	789.1	790.0	790.9	788.2
30°	748.6	759.4	765.7	769.3	772.9	775.6	776.5	777.4	778.3	779.2	776.5
32.5°	734.2	743.2	751.3	755.8	760.3	763.9	764.8	764.8	766.6	766.6	763.9
35°	717.1	727.9	736.0	740.5	745.9	748.6	750.4	750.4	752.2	752.2	749.5
37.5°	700.0	710.8	719.8	725.2	731.5	735.1	736.0	736.0	737.8	737.8	734.2
40°	682.1	693.7	703.6	709.9	715.3	719.8	720.7	723.4	723.4	722.5	718.9
42.5°	664.1	674.9	685.6	692.8	700.0	704.5	706.3	707.2	707.2	706.3	703.6
45°	644.3	656.9	666.8	675.8	682.9	687.4	690.1	691.0	691.0	689.2	686.5
47.5°	625.4	638.0	647.9	657.8	665.0	670.4	673.1	674.0	673.1	672.2	669.5
50°	605.6	620.0	629.9	639.8	647.0	651.5	656.0	656.9	656.0	655.1	649.7
52.5°	584.9	600.2	611.0	620.9	629.0	634.4	638.0	638.9	638.9	637.1	633.5
55°	564.2	577.7	591.2	602.0	611.0	616.4	620.9	622.7	620.9	619.1	614.6
57.5°	545.3	557.9	571.4	583.1	592.1	599.3	602.9	604.7	602.9	600.2	595.7
60°	522.8	536.3	551.6	562.4	572.3	579.5	581.3	584.9	583.1	580.4	575.9
62.5°	501.2	517.4	530.9	544.4	552.5	560.6	564.2	566.0	564.2	561.5	557.0
65°	478.7	496.7	510.2	523.7	532.7	540.8	545.3	546.2	544.4	541.7	537.2
67.5°	458.0	475.1	489.5	503.9	512.0	520.1	524.6	526.4	524.6	521.0	516.5
70°	437.3	454.4	471.5	482.3	492.2	501.2	503.9	506.6	504.8	501.2	495.8
72.5°	416.6	434.6	451.7	462.5	473.3	481.4	485.0	487.7	485.9	482.3	476.0
75°	395.0	413.9	431.0	442.7	453.5	461.6	465.2	467.9	466.1	462.5	455.3
77.5°	375.2	394.1	410.3	422.9	433.7	440.9	447.2	448.1	446.3	442.7	435.5
80°	354.5	373.4	390.5	403.1	413.9	421.1	425.6	428.3	426.5	422.9	415.7
82.5°	336.5	353.6	370.7	383.3	394.1	403.1	406.7	409.4	408.5	403.1	397.7
85°	316.7	336.5	350.0	363.5	374.3	383.3	386.0	389.6	388.7	384.2	377.0
87.5°	296.9	316.7	332.9	346.4	356.3	363.5	368.0	369.8	368.9	364.4	356.3
90°	280.7	298.7	314.9	329.3	337.4	345.5	350.0	350.9	350.9	345.5	339.2
92.5°	265.4	282.5	298.7	312.2	322.1	329.3	332.9	334.7	333.8	329.3	322.1
95°	248.3	267.2	282.5	296.0	305.9	313.1	316.7	318.5	317.6	313.1	305.9
97.5°	233.9	251.0	266.3	278.9	288.8	296.0	299.6	301.4	301.4	296.9	289.7
100°	219.6	236.6	251.0	263.6	272.6	279.8	283.4	284.3	283.4	279.8	272.6
102.5°	205.2	221.4	235.7	247.4	257.3	263.6	267.2	268.1	268.1	263.6	256.4
105°	190.8	207.0	220.5	233.0	241.1	247.4	250.1	252.8	251.9	248.3	241.1
107.5°	177.3	193.5	206.1	217.8	225.9	232.1	234.8	237.5	236.6	233.0	225.9
110°	164.7	180.0	191.7	203.4	210.6	216.9	221.4	222.3	220.5	216.9	210.6

TEST NUMBER: P1213425

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	153.0	166.5	178.2	189.0	197.1	201.6	205.2	207.0	205.2	201.6	197.1
115°	140.4	153.9	165.6	175.5	182.7	188.1	190.8	192.6	190.8	187.2	182.7
117.5°	128.7	141.3	153.0	162.9	169.2	173.7	176.4	178.2	176.4	173.7	169.2
120°	118.8	129.6	140.4	149.4	156.6	160.2	162.9	164.7	163.8	160.2	155.7
122.5°	107.1	118.8	128.7	137.7	144.0	147.6	149.4	151.2	150.3	147.6	143.1
125°	97.2	107.1	117.0	125.1	131.4	135.0	136.8	138.6	137.7	135.0	129.6
127.5°	86.4	97.2	105.3	113.4	117.9	123.3	124.2	126.0	125.1	122.4	117.9
130°	78.3	86.4	94.5	101.7	107.1	110.7	112.5	113.4	111.6	109.8	105.3
132.5°	68.4	77.4	84.6	90.9	94.5	98.1	99.9	100.8	100.8	98.1	94.5
135°	61.2	67.5	73.8	80.1	83.7	87.3	89.1	90.0	89.1	87.3	83.7
137.5°	54.9	60.3	64.8	70.2	74.7	76.5	78.3	78.3	77.4	76.5	73.8
140°	47.7	54.0	58.5	62.1	65.7	66.6	68.4	68.4	67.5	66.6	64.8
142.5°	40.5	45.9	50.4	54.9	57.6	59.4	60.3	61.2	60.3	59.4	56.7
145°	32.4	38.7	43.2	45.9	49.5	50.4	51.3	52.2	51.3	50.4	47.7
147.5°	25.2	30.6	35.1	38.7	41.4	42.3	43.2	44.1	43.2	41.4	40.5
150°	18.0	22.5	27.9	31.5	33.3	35.1	35.1	35.1	36.0	34.2	32.4
152.5°	14.4	16.2	19.8	23.4	26.1	27.0	27.9	27.9	27.0	27.0	25.2
155°	9.9	11.7	14.4	17.1	19.8	20.7	21.6	21.6	20.7	20.7	19.8
157.5°	6.3	8.1	9.9	11.7	14.4	15.3	16.2	16.2	16.2	15.3	14.4
160°	3.6	4.5	5.4	7.2	9.0	9.9	10.8	10.8	10.8	10.8	9.9
162.5°	2.7	2.7	2.7	3.6	4.5	5.4	6.3	6.3	6.3	6.3	5.4
165°	1.8	1.8	1.8	1.8	1.8	2.7	3.6	3.6	3.6	3.6	3.6
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: P1213425

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0
2.5°	848.5	848.5	849.4	847.6	842.2	843.1	843.1	846.7	848.5	849.4	853.9
5°	846.7	846.7	848.5	845.8	841.3	841.3	841.3	844.9	845.8	847.6	851.2
7.5°	844.0	844.0	844.9	842.2	836.8	836.8	835.9	839.5	841.3	842.2	845.8
10°	839.5	839.5	840.4	837.7	831.4	831.4	830.5	833.2	834.1	835.9	838.6
12.5°	833.2	833.2	833.2	830.5	824.2	823.3	822.4	825.1	825.1	826.0	828.7
15°	827.8	826.0	826.0	823.3	817.0	815.2	813.4	814.3	816.1	815.2	817.0
17.5°	821.5	819.7	817.9	815.2	807.1	804.4	802.6	803.5	802.6	801.7	803.5
20°	814.3	811.6	810.7	806.2	798.1	793.6	790.0	788.2	789.1	786.4	787.3
22.5°	806.2	802.6	800.8	795.4	787.3	781.9	777.4	773.8	772.9	769.3	770.2
25°	796.3	791.8	789.1	784.6	775.6	769.3	763.9	758.5	755.8	751.3	750.4
27.5°	784.6	780.1	776.5	772.0	763.0	754.9	748.6	741.4	737.8	732.4	729.7
30°	772.9	767.5	762.1	758.5	748.6	739.6	729.7	723.4	718.0	711.7	707.2
32.5°	758.5	753.1	747.7	742.3	733.3	722.5	714.4	704.5	698.2	691.0	685.6
35°	744.1	736.9	731.5	724.3	716.2	703.6	693.7	683.8	675.8	667.7	661.4
37.5°	727.9	722.5	714.4	708.1	698.2	685.6	674.9	662.3	655.1	644.3	636.2
40°	712.6	706.3	698.2	690.1	680.3	665.9	654.2	639.8	631.7	619.1	611.0
42.5°	697.3	688.3	680.3	671.3	660.5	647.0	632.6	618.2	607.4	595.7	584.0
45°	680.3	670.4	660.5	650.6	639.8	626.3	611.0	595.7	582.2	571.4	557.0
47.5°	662.3	652.4	640.7	629.9	618.2	604.7	588.5	572.3	557.9	545.3	530.0
50°	644.3	634.4	621.8	610.1	596.6	583.1	566.0	547.1	531.8	515.6	502.1
52.5°	625.4	615.5	603.8	588.5	574.1	560.6	542.6	522.8	505.7	492.2	475.1
55°	606.5	596.6	583.1	567.8	553.4	536.3	519.2	499.4	480.5	464.3	447.2
57.5°	586.7	577.7	562.4	549.8	531.8	513.8	495.8	476.9	456.2	437.3	417.5
60°	566.9	557.0	542.6	527.3	509.3	491.3	472.4	451.7	430.1	409.4	391.4
62.5°	548.9	536.3	522.8	506.6	487.7	470.6	449.0	426.5	404.9	383.3	361.7
65°	528.2	514.7	502.1	485.9	466.1	446.3	424.7	402.2	378.8	355.4	333.8
67.5°	507.5	494.0	480.5	464.3	443.6	422.9	400.4	377.9	351.8	329.3	304.1
70°	486.8	476.0	458.9	441.8	422.9	400.4	377.9	353.6	326.6	302.3	276.2
72.5°	466.1	455.3	438.2	420.2	402.2	378.8	354.5	330.2	305.0	277.1	249.2
75°	446.3	432.8	417.5	400.4	381.5	357.2	332.9	307.7	278.0	251.9	223.2
77.5°	427.4	414.8	399.5	380.6	359.9	336.5	311.3	285.2	255.5	227.6	196.2
80°	406.7	394.1	378.8	359.9	339.2	316.7	289.7	262.7	233.9	203.4	171.0
82.5°	386.9	375.2	358.1	341.0	318.5	296.0	269.0	242.0	211.5	181.8	150.3
85°	366.2	354.5	338.3	320.3	298.7	274.4	249.2	222.3	191.7	161.1	129.6
87.5°	348.2	334.7	318.5	300.5	278.9	255.5	231.2	202.5	172.8	143.1	110.7
90°	329.3	316.7	300.5	282.5	260.9	237.5	212.4	185.4	156.6	126.0	95.4
92.5°	313.1	299.6	284.3	266.3	244.7	222.3	197.1	170.1	142.2	112.5	82.8
95°	296.9	283.4	269.0	251.0	229.4	207.0	181.8	155.7	128.7	99.9	72.0
97.5°	278.9	267.2	252.8	235.7	214.2	192.6	168.3	143.1	117.0	89.1	63.0
100°	264.5	251.0	237.5	219.6	199.8	179.1	154.8	130.5	105.3	79.2	54.9
102.5°	248.3	235.7	222.3	205.2	185.4	164.7	142.2	118.8	95.4	71.1	47.7
105°	233.0	221.4	207.0	190.8	171.9	152.1	130.5	108.9	86.4	63.0	42.3
107.5°	217.8	206.1	192.6	177.3	159.3	139.5	119.7	98.1	77.4	56.7	37.8
110°	202.5	191.7	179.1	163.8	146.7	128.7	109.8	90.0	69.3	50.4	33.3

TEST NUMBER: P1213425

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	189.0	178.2	165.6	151.2	135.0	117.9	99.9	81.0	62.1	45.0	28.8
115°	175.5	165.6	153.0	140.4	124.2	108.0	90.9	72.9	55.8	40.5	25.2
117.5°	162.0	152.1	140.4	127.8	113.4	98.1	81.9	64.8	50.4	36.0	22.5
120°	148.5	139.5	128.7	117.0	104.4	89.1	72.9	58.5	45.0	31.5	19.8
122.5°	135.9	127.8	117.9	107.1	93.6	79.2	65.7	53.1	40.5	27.9	16.2
125°	124.2	116.1	107.1	96.3	83.7	71.1	59.4	47.7	35.1	24.3	13.5
127.5°	112.5	104.4	95.4	85.5	75.6	63.9	53.1	42.3	31.5	21.6	11.7
130°	100.8	93.6	85.5	77.4	67.5	56.7	47.7	36.9	27.0	17.1	9.9
132.5°	89.1	83.7	76.5	68.4	59.4	51.3	41.4	32.4	23.4	15.3	9.0
135°	79.2	73.8	67.5	60.3	53.1	45.0	36.0	27.9	19.8	12.6	7.2
137.5°	70.2	65.7	59.4	53.1	46.8	38.7	31.5	23.4	16.2	10.8	5.4
140°	62.1	57.6	52.2	45.9	40.5	33.3	26.1	18.9	14.4	9.0	4.5
142.5°	54.0	49.5	45.0	39.6	34.2	27.9	21.6	16.2	11.7	7.2	4.5
145°	45.9	42.3	37.8	33.3	27.9	22.5	18.0	13.5	9.0	5.4	3.6
147.5°	37.8	35.1	30.6	27.0	22.5	18.0	14.4	10.8	7.2	4.5	2.7
150°	30.6	27.9	24.3	20.7	18.0	14.4	11.7	8.1	5.4	4.5	2.7
152.5°	23.4	21.6	18.9	17.1	14.4	10.8	8.1	6.3	4.5	3.6	1.8
155°	18.9	17.1	15.3	12.6	10.8	8.1	6.3	4.5	3.6	2.7	1.8
157.5°	13.5	12.6	10.8	9.0	7.2	5.4	4.5	4.5	2.7	1.8	0.9
160°	9.0	8.1	7.2	5.4	4.5	4.5	3.6	2.7	1.8	1.8	0.9
162.5°	5.4	4.5	4.5	4.5	3.6	3.6	2.7	1.8	1.8	0.9	0.9
165°	3.6	3.6	3.6	2.7	2.7	2.7	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: P1213425

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0
2.5°	853.9	851.2	854.8	861.1	862.0	861.1	859.3	862.0	865.6	864.7	858.4
5°	852.1	848.5	852.1	858.4	858.4	857.5	856.6	859.3	862.9	862.0	856.6
7.5°	846.7	843.1	846.7	852.1	853.0	851.2	851.2	853.9	857.5	856.6	852.1
10°	839.5	835.9	837.7	844.0	845.8	844.0	844.0	846.7	851.2	850.3	844.9
12.5°	828.7	826.0	827.8	833.2	835.0	834.1	833.2	836.8	841.3	841.3	835.9
15°	817.0	813.4	815.2	821.5	822.4	820.6	821.5	824.2	829.6	829.6	825.1
17.5°	803.5	799.0	801.7	806.2	807.1	807.1	807.1	810.7	817.0	816.1	812.5
20°	788.2	781.9	783.7	788.2	790.0	790.0	790.0	796.3	800.8	800.8	797.2
22.5°	770.2	765.7	765.7	770.2	772.9	772.0	772.0	777.4	783.7	782.8	782.8
25°	749.5	745.9	744.1	749.5	750.4	751.3	753.1	758.5	765.7	765.7	766.6
27.5°	727.9	724.3	723.4	727.9	728.8	729.7	731.5	737.8	745.0	745.9	747.7
30°	707.2	701.8	700.0	703.6	705.4	706.3	706.3	716.2	722.5	725.2	728.8
32.5°	682.9	677.6	673.1	679.4	680.3	682.1	682.9	692.8	700.0	704.5	709.9
35°	658.7	649.7	647.9	652.4	654.2	655.1	656.9	667.7	677.6	681.2	688.3
37.5°	631.7	625.4	620.0	624.5	626.3	627.2	632.6	642.5	652.4	657.8	665.0
40°	606.5	598.4	593.9	596.6	598.4	599.3	605.6	616.4	628.1	634.4	643.4
42.5°	578.6	567.8	564.2	566.9	567.8	570.5	575.9	590.3	602.0	611.0	618.2
45°	550.7	542.6	534.5	537.2	538.1	539.9	548.0	563.3	575.9	586.7	594.8
47.5°	521.9	512.0	503.9	505.7	509.3	510.2	519.2	537.2	548.9	560.6	571.4
50°	493.1	479.6	473.3	473.3	475.1	479.6	491.3	509.3	521.9	535.4	547.1
52.5°	463.4	450.8	443.6	444.5	446.3	451.7	462.5	480.5	494.9	509.3	523.7
55°	433.7	420.2	413.0	411.2	413.0	420.2	432.8	451.7	466.1	483.2	498.5
57.5°	404.0	387.8	381.5	378.8	380.6	389.6	402.2	422.0	440.0	456.2	474.2
60°	371.6	359.0	348.2	341.9	346.4	358.1	371.6	392.3	411.2	429.2	449.0
62.5°	343.7	327.5	315.8	309.5	314.0	323.9	342.8	362.6	383.3	404.0	423.8
65°	312.2	296.0	282.5	276.2	280.7	292.4	311.3	332.9	355.4	376.1	399.5
67.5°	281.6	264.5	248.3	242.0	247.4	260.0	280.7	305.0	329.3	350.9	376.1
70°	251.9	233.0	216.0	211.5	215.1	232.1	251.9	276.2	301.4	326.6	352.7
72.5°	225.0	201.6	183.6	178.2	182.7	201.6	224.1	249.2	276.2	303.2	331.1
75°	193.5	171.9	152.1	145.8	151.2	168.3	196.2	223.2	251.9	280.7	306.8
77.5°	168.3	143.1	122.4	112.5	121.5	143.1	170.1	198.9	228.5	258.2	287.9
80°	142.2	116.1	93.6	82.8	92.7	116.1	143.1	174.6	207.9	237.5	264.5
82.5°	118.8	90.9	67.5	55.8	66.6	92.7	122.4	153.9	186.3	216.0	247.4
85°	97.2	68.4	44.1	31.5	46.8	70.2	101.7	134.1	167.4	198.0	228.5
87.5°	79.2	51.3	27.0	13.5	28.8	54.9	84.6	117.0	150.3	180.9	209.7
90°	64.8	36.9	14.4	1.8	17.1	41.4	70.2	101.7	133.2	164.7	193.5
92.5°	53.1	27.9	8.1	0.9	10.8	33.3	60.3	90.0	120.6	151.2	179.1
95°	44.1	21.6	5.4	0.9	8.1	26.1	51.3	80.1	108.9	138.6	166.5
97.5°	37.8	18.0	4.5	0.9	6.3	22.5	44.1	71.1	99.0	126.9	153.9
100°	32.4	14.4	3.6	0.9	5.4	18.9	38.7	63.0	89.1	116.1	142.2
102.5°	27.9	11.7	2.7	0.9	4.5	16.2	34.2	56.7	80.1	106.2	131.4
105°	24.3	9.9	2.7	0.9	3.6	14.4	30.6	50.4	73.8	97.2	121.5
107.5°	20.7	8.1	1.8	0.9	2.7	11.7	27.0	45.9	66.6	89.1	111.6
110°	18.0	7.2	1.8	0.9	2.7	10.8	23.4	41.4	60.3	81.0	102.6

TEST NUMBER: P1213425

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	15.3	5.4	1.8	0.9	1.8	9.0	20.7	36.9	54.9	73.8	94.5
115°	13.5	4.5	0.9	0.9	1.8	8.1	18.9	33.3	49.5	67.5	86.4
117.5°	10.8	3.6	0.9	0.9	0.9	6.3	16.2	29.7	45.0	62.1	79.2
120°	9.0	3.6	0.9	0.9	0.9	5.4	14.4	26.1	40.5	55.8	72.0
122.5°	8.1	2.7	0.9	0.9	0.9	4.5	12.6	23.4	36.0	50.4	65.7
125°	7.2	2.7	0.9	0.9	0.9	3.6	10.8	20.7	32.4	45.0	59.4
127.5°	5.4	2.7	0.9	0.9	0.9	2.7	9.9	18.0	28.8	40.5	53.1
130°	4.5	1.8	0.9	0.9	0.9	2.7	8.1	16.2	25.2	36.0	47.7
132.5°	3.6	1.8	0.9	0.9	0.9	1.8	6.3	12.6	21.6	31.5	42.3
135°	3.6	1.8	0.9	0.9	0.9	1.8	4.5	10.8	18.0	27.0	36.0
137.5°	3.6	0.9	0.9	0.9	0.9	1.8	3.6	8.1	14.4	21.6	29.7
140°	2.7	0.9	0.9	0.9	0.9	0.9	2.7	6.3	11.7	18.0	25.2
142.5°	2.7	0.9	0.9	0.9	0.9	0.9	2.7	4.5	9.0	14.4	19.8
145°	1.8	0.9	0.9	0.9	0.9	0.9	1.8	3.6	7.2	10.8	16.2
147.5°	1.8	0.9	0.9	0.9	0.9	0.9	1.8	2.7	5.4	9.0	12.6
150°	1.8	0.9	0.9	0.9	0.9	0.9	1.8	2.7	3.6	6.3	9.9
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.7	4.5	6.3
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	2.7	3.6	4.5
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.7	3.6
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.7
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: P1213425

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0
2.5°	855.7	849.4	851.2	850.3	852.1	854.8	854.8	853.9	853.9	852.1	850.3
5°	853.9	847.6	850.3	849.4	851.2	853.9	853.9	853.0	853.0	850.3	849.4
7.5°	848.5	844.0	845.8	845.8	847.6	850.3	850.3	849.4	849.4	846.7	845.8
10°	843.1	837.7	840.4	840.4	842.2	845.8	845.8	844.9	844.9	842.2	841.3
12.5°	834.1	828.7	833.2	834.1	835.9	839.5	838.6	838.6	838.6	835.9	835.0
15°	823.3	819.7	824.2	825.1	827.8	832.3	832.3	832.3	832.3	829.6	828.7
17.5°	811.6	808.9	813.4	815.2	818.8	823.3	823.3	824.2	825.1	823.3	822.4
20°	798.1	796.3	800.8	804.4	809.8	814.3	816.1	817.0	818.8	817.0	816.1
22.5°	782.8	782.8	789.1	792.7	799.0	803.5	806.2	808.9	810.7	808.9	808.0
25°	765.7	768.4	774.7	781.0	788.2	792.7	795.4	799.0	800.8	799.9	799.0
27.5°	749.5	753.1	761.2	767.5	773.8	781.0	783.7	788.2	790.0	790.0	789.1
30°	730.6	736.0	745.0	752.2	760.3	767.5	771.1	775.6	778.3	776.5	777.4
32.5°	712.6	721.6	728.8	736.9	745.9	753.1	757.6	763.0	765.7	764.8	765.7
35°	692.8	701.8	711.7	719.8	730.6	737.8	744.1	748.6	752.2	751.3	751.3
37.5°	671.3	682.9	692.8	703.6	713.5	721.6	727.9	733.3	736.9	736.9	736.9
40°	650.6	663.2	673.1	685.6	698.2	705.4	712.6	718.0	721.6	722.5	723.4
42.5°	628.1	641.6	653.3	666.8	679.4	688.3	696.4	702.7	706.3	708.1	707.2
45°	607.4	620.0	633.5	648.8	660.5	669.5	679.4	686.5	690.1	691.0	691.9
47.5°	584.0	598.4	613.7	629.0	640.7	652.4	661.4	668.6	672.2	674.9	674.9
50°	561.5	576.8	593.9	610.1	622.7	634.4	643.4	651.5	656.0	657.8	658.7
52.5°	540.8	555.2	573.2	589.4	602.0	613.7	625.4	634.4	638.9	640.7	640.7
55°	515.6	533.6	553.4	568.7	582.2	595.7	607.4	616.4	620.9	623.6	625.4
57.5°	492.2	511.1	531.8	548.0	564.2	576.8	587.6	599.3	602.9	606.5	607.4
60°	469.7	488.6	508.4	526.4	542.6	556.1	568.7	578.6	584.9	586.7	588.5
62.5°	446.3	466.1	486.8	504.8	521.9	538.1	549.8	558.8	566.0	568.7	570.5
65°	423.8	444.5	465.2	484.1	502.1	518.3	530.0	539.0	546.2	550.7	551.6
67.5°	399.5	422.0	443.6	463.4	481.4	498.5	510.2	519.2	526.4	531.8	532.7
70°	377.0	400.4	422.0	443.6	461.6	478.7	491.3	500.3	508.4	512.0	513.8
72.5°	355.4	379.7	402.2	423.8	441.8	458.9	472.4	481.4	489.5	494.0	494.9
75°	334.7	359.0	383.3	404.0	422.9	440.0	453.5	463.4	470.6	475.1	476.9
77.5°	314.0	339.2	363.5	384.2	404.0	421.1	432.8	444.5	451.7	457.1	457.1
80°	293.3	319.4	344.6	365.3	385.1	400.4	413.9	425.6	432.8	438.2	438.2
82.5°	275.3	300.5	324.8	345.5	365.3	382.4	395.9	406.7	414.8	418.4	419.3
85°	254.6	282.5	305.0	327.5	346.4	362.6	376.1	387.8	395.0	398.6	400.4
87.5°	237.5	264.5	288.8	308.6	327.5	343.7	359.0	368.9	376.1	380.6	382.4
90°	221.4	247.4	271.7	291.5	311.3	326.6	341.0	350.9	359.0	362.6	364.4
92.5°	207.0	233.0	256.4	276.2	295.1	312.2	325.7	335.6	342.8	346.4	349.1
95°	193.5	218.7	241.1	262.7	280.7	296.0	310.4	320.3	328.4	331.1	333.8
97.5°	180.0	204.3	226.8	247.4	266.3	280.7	294.2	304.1	310.4	314.9	317.6
100°	168.3	191.7	213.3	233.0	251.0	264.5	278.9	287.9	294.2	297.8	301.4
102.5°	155.7	179.1	199.8	218.7	237.5	250.1	263.6	272.6	278.0	284.3	284.3
105°	144.9	166.5	187.2	205.2	221.4	236.6	248.3	257.3	263.6	268.1	268.1
107.5°	133.2	154.8	174.6	193.5	208.8	223.2	233.9	242.0	249.2	251.9	254.6
110°	124.2	143.1	162.9	180.9	195.3	208.8	219.6	228.5	234.8	237.5	239.3



TEST NUMBER: P1213425

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	113.4	133.2	151.2	168.3	182.7	195.3	206.1	213.3	219.6	223.2	224.1
115°	104.4	123.3	139.5	155.7	171.0	181.8	191.7	198.9	205.2	207.9	209.7
117.5°	96.3	113.4	129.6	143.1	157.5	169.2	179.1	185.4	190.8	194.4	196.2
120°	88.2	104.4	118.8	132.3	145.8	156.6	165.6	171.9	178.2	180.9	180.9
122.5°	80.1	95.4	108.9	121.5	134.1	144.0	153.9	159.3	164.7	167.4	167.4
125°	72.9	87.3	99.9	111.6	123.3	132.3	140.4	146.7	152.1	153.9	153.9
127.5°	65.7	79.2	90.9	101.7	111.6	120.6	128.7	135.0	139.5	141.3	141.3
130°	59.4	71.1	81.9	92.7	102.6	109.8	117.9	123.3	126.0	128.7	129.6
132.5°	53.1	63.9	73.8	82.8	92.7	99.9	106.2	111.6	114.3	117.0	117.9
135°	46.8	56.7	65.7	74.7	82.8	90.0	95.4	99.9	103.5	105.3	106.2
137.5°	39.6	50.4	58.5	65.7	74.7	80.1	86.4	89.1	92.7	94.5	94.5
140°	33.3	41.4	50.4	57.6	64.8	70.2	75.6	80.1	82.8	83.7	83.7
142.5°	27.0	34.2	41.4	50.4	56.7	61.2	66.6	70.2	72.0	72.9	73.8
145°	21.6	27.0	33.3	41.4	48.6	54.0	56.7	60.3	62.1	63.0	63.9
147.5°	16.2	21.6	27.0	32.4	39.6	45.0	47.7	51.3	53.1	54.0	54.0
150°	12.6	16.2	19.8	25.2	30.6	36.9	40.5	43.2	44.1	45.0	45.0
152.5°	9.0	12.6	15.3	18.9	22.5	27.9	33.3	35.1	36.0	36.9	36.9
155°	6.3	9.0	10.8	13.5	16.2	20.7	25.2	27.9	28.8	29.7	29.7
157.5°	4.5	6.3	7.2	9.9	11.7	13.5	17.1	21.6	22.5	22.5	22.5
160°	2.7	3.6	4.5	6.3	7.2	9.0	10.8	13.5	16.2	16.2	16.2
162.5°	1.8	2.7	2.7	3.6	3.6	5.4	6.3	7.2	9.9	10.8	10.8
165°	0.9	1.8	1.8	1.8	1.8	1.8	2.7	2.7	4.5	5.4	5.4
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: P1213425

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0	853.0
2.5°	851.2	853.0	852.1	852.1	852.1	853.9	852.1	844.0	845.8	847.6	849.4
5°	850.3	851.2	851.2	850.3	850.3	852.1	850.3	842.2	844.0	845.8	846.7
7.5°	846.7	847.6	847.6	847.6	846.7	848.5	845.8	838.6	838.6	840.4	841.3
10°	842.2	844.0	843.1	842.2	842.2	842.2	840.4	832.3	832.3	833.2	834.1
12.5°	836.8	836.8	836.8	835.9	835.0	835.0	833.2	825.1	824.2	826.0	825.1
15°	829.6	831.4	829.6	828.7	826.9	826.9	824.2	816.1	814.3	815.2	814.3
17.5°	823.3	824.2	822.4	820.6	818.8	817.9	815.2	806.2	803.5	804.4	802.6
20°	817.0	817.0	815.2	813.4	810.7	808.0	804.4	795.4	790.9	790.9	787.3
22.5°	808.9	808.9	807.1	804.4	801.7	798.1	794.5	785.5	778.3	776.5	773.8
25°	799.9	799.0	798.1	795.4	790.0	786.4	782.8	772.9	764.8	761.2	756.7
27.5°	789.1	789.1	786.4	783.7	778.3	773.8	769.3	760.3	749.5	745.0	738.7
30°	777.4	777.4	774.7	771.1	765.7	760.3	754.9	744.1	733.3	727.0	719.8
32.5°	765.7	764.8	762.1	758.5	753.1	745.0	740.5	729.7	717.1	709.9	700.0
35°	751.3	750.4	747.7	743.2	736.0	729.7	722.5	712.6	698.2	689.2	678.5
37.5°	736.9	736.0	734.2	727.9	720.7	713.5	704.5	694.6	681.2	669.5	658.7
40°	722.5	721.6	718.0	713.5	704.5	695.5	686.5	676.7	662.3	648.8	637.1
42.5°	707.2	706.3	701.8	696.4	686.5	677.6	666.8	656.0	641.6	625.4	613.7
45°	691.9	690.1	685.6	679.4	668.6	658.7	647.9	635.3	620.9	605.6	590.3
47.5°	675.8	673.1	668.6	659.6	650.6	639.8	627.2	613.7	599.3	582.2	566.0
50°	657.8	656.0	650.6	642.5	631.7	620.9	606.5	593.0	575.9	559.7	539.9
52.5°	640.7	637.1	632.6	623.6	612.8	601.1	585.8	569.6	552.5	537.2	516.5
55°	622.7	620.9	614.6	607.4	593.9	580.4	566.0	548.9	530.0	512.0	492.2
57.5°	605.6	602.0	596.6	586.7	575.0	561.5	546.2	528.2	507.5	488.6	467.0
60°	588.5	583.1	576.8	567.8	555.2	540.8	524.6	505.7	485.0	464.3	441.8
62.5°	569.6	565.1	557.9	548.9	536.3	521.0	503.9	484.1	464.3	442.7	418.4
65°	550.7	546.2	539.0	530.0	517.4	500.3	482.3	462.5	440.0	419.3	393.2
67.5°	531.8	527.3	519.2	509.3	496.7	480.5	461.6	440.9	418.4	395.9	368.9
70°	512.9	507.5	500.3	489.5	476.9	459.8	440.9	419.3	396.8	372.5	345.5
72.5°	494.0	489.5	480.5	470.6	457.1	440.0	421.1	399.5	376.1	350.9	323.9
75°	475.1	469.7	463.4	451.7	437.3	421.1	401.3	379.7	354.5	330.2	302.3
77.5°	456.2	451.7	443.6	431.9	418.4	401.3	381.5	359.9	334.7	309.5	279.8
80°	437.3	431.9	425.6	414.8	399.5	382.4	361.7	340.1	314.9	288.8	259.1
82.5°	418.4	413.0	405.8	395.0	380.6	363.5	343.7	320.3	295.1	268.1	240.2
85°	399.5	395.0	386.9	376.1	360.8	343.7	323.9	303.2	276.2	249.2	221.4
87.5°	380.6	376.1	368.0	357.2	342.8	325.7	305.9	284.3	258.2	233.0	202.5
90°	362.6	359.0	350.9	340.1	325.7	308.6	290.6	267.2	242.0	216.9	188.1
92.5°	346.4	342.8	335.6	324.8	312.2	293.3	275.3	252.8	227.6	201.6	173.7
95°	332.0	327.5	320.3	310.4	295.1	278.9	260.9	238.4	214.2	188.1	161.1
97.5°	315.8	311.3	304.1	293.3	280.7	263.6	245.6	224.1	199.8	175.5	148.5
100°	299.6	295.1	287.0	278.0	265.4	248.3	231.2	209.7	187.2	163.8	137.7
102.5°	283.4	278.9	271.7	262.7	250.1	234.8	217.8	197.1	174.6	151.2	126.9
105°	268.1	263.6	256.4	247.4	235.7	220.5	202.5	184.5	162.9	140.4	117.0
107.5°	252.8	248.3	242.0	233.0	221.4	207.0	189.9	171.0	151.2	129.6	107.1
110°	237.5	233.9	226.8	218.7	207.0	192.6	177.3	159.3	139.5	119.7	98.1

TEST NUMBER: P1213425

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	223.2	219.6	212.4	203.4	193.5	180.0	164.7	147.6	128.7	109.8	89.1
115°	208.8	204.3	198.0	189.9	180.0	167.4	153.0	137.7	118.8	100.8	81.9
117.5°	194.4	190.8	184.5	176.4	167.4	154.8	141.3	126.9	108.9	91.8	74.7
120°	180.0	177.3	171.0	163.8	154.8	143.1	130.5	116.1	99.9	83.7	67.5
122.5°	166.5	163.8	157.5	151.2	142.2	131.4	119.7	106.2	91.8	76.5	62.1
125°	153.9	150.3	144.9	138.6	130.5	120.6	108.9	96.3	82.8	69.3	55.8
127.5°	140.4	137.7	134.1	126.9	118.8	109.8	99.0	88.2	75.6	63.0	50.4
130°	129.6	126.0	121.5	116.1	108.9	99.9	90.0	79.2	68.4	56.7	44.1
132.5°	117.0	113.4	109.8	104.4	98.1	90.0	81.0	71.1	61.2	50.4	39.6
135°	105.3	102.6	99.0	93.6	87.3	81.0	72.0	63.0	54.0	44.1	35.1
137.5°	94.5	91.8	88.2	84.6	78.3	72.0	63.9	55.8	47.7	38.7	30.6
140°	83.7	81.9	78.3	74.7	69.3	63.0	55.8	48.6	41.4	33.3	26.1
142.5°	72.9	71.1	68.4	64.8	60.3	54.9	48.6	42.3	35.1	28.8	22.5
145°	63.0	62.1	59.4	55.8	52.2	46.8	41.4	36.0	29.7	24.3	18.0
147.5°	53.1	52.2	50.4	47.7	44.1	39.6	35.1	29.7	25.2	19.8	14.4
150°	44.1	43.2	42.3	38.7	36.9	32.4	28.8	24.3	20.7	15.3	11.7
152.5°	36.0	36.0	34.2	31.5	29.7	26.1	23.4	19.8	16.2	12.6	9.0
155°	28.8	27.9	27.0	25.2	23.4	20.7	18.0	15.3	12.6	9.0	6.3
157.5°	22.5	21.6	20.7	18.9	17.1	16.2	13.5	10.8	8.1	6.3	4.5
160°	16.2	15.3	14.4	13.5	12.6	10.8	9.0	7.2	5.4	3.6	2.7
162.5°	10.8	9.9	9.9	9.0	8.1	6.3	5.4	4.5	3.6	2.7	1.8
165°	5.4	5.4	4.5	4.5	3.6	2.7	2.7	2.7	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

TEST NUMBER: P1213425

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	853.0	853.0	853.0	853.0	853.0	853.0	853.0
2.5°	848.5	848.5	852.1	851.2	848.5	853.9	860.2
5°	845.8	845.8	848.5	848.5	845.8	851.2	856.6
7.5°	841.3	840.4	843.1	843.1	839.5	844.0	850.3
10°	833.2	832.3	835.0	835.0	831.4	835.9	841.3
12.5°	824.2	822.4	825.1	824.2	820.6	825.1	830.5
15°	812.5	811.6	813.4	811.6	808.0	812.5	817.9
17.5°	800.8	798.1	799.0	799.0	792.7	797.2	801.7
20°	785.5	781.9	782.8	781.9	777.4	780.1	785.5
22.5°	770.2	764.8	764.8	763.9	758.5	762.1	766.6
25°	751.3	745.0	745.0	744.1	737.8	740.5	745.0
27.5°	732.4	726.1	723.4	722.5	716.2	716.2	722.5
30°	712.6	703.6	701.8	699.1	692.8	692.8	698.2
32.5°	693.7	681.2	677.6	674.0	667.7	666.8	673.1
35°	668.6	658.7	652.4	648.8	641.6	639.8	645.2
37.5°	647.9	635.3	626.3	621.8	614.6	611.9	619.1
40°	625.4	611.9	600.2	597.5	586.7	583.1	589.4
42.5°	600.2	585.8	574.1	568.7	560.6	557.0	557.9
45°	575.0	559.7	547.1	539.9	531.8	525.5	529.1
47.5°	548.9	535.4	520.1	509.3	499.4	494.9	496.7
50°	522.8	506.6	492.2	480.5	468.8	463.4	467.0
52.5°	496.7	479.6	463.4	450.8	437.3	431.9	432.8
55°	471.5	453.5	434.6	421.1	408.5	400.4	398.6
57.5°	446.3	426.5	406.7	391.4	375.2	368.0	365.3
60°	419.3	398.6	377.9	359.9	342.8	334.7	331.1
62.5°	394.1	371.6	348.2	329.3	312.2	301.4	298.7
65°	369.8	343.7	320.3	298.7	279.8	268.1	264.5
67.5°	343.7	316.7	291.5	268.1	250.1	234.8	233.0
70°	319.4	290.6	262.7	238.4	218.7	203.4	196.2
72.5°	295.1	265.4	236.6	210.6	185.4	171.0	165.6
75°	271.7	241.1	210.6	183.6	155.7	138.6	133.2
77.5°	250.1	218.7	186.3	156.6	130.5	108.9	101.7
80°	229.4	197.1	162.9	132.3	104.4	81.0	72.9
82.5°	207.9	177.3	142.2	109.8	81.0	56.7	46.8
85°	189.0	158.4	123.3	90.9	62.1	36.0	25.2
87.5°	173.7	140.4	108.9	76.5	46.8	20.7	7.2
90°	158.4	126.0	94.5	63.0	35.1	11.7	0.9
92.5°	144.9	114.3	82.8	54.0	27.0	8.1	0.9
95°	132.3	102.6	72.9	45.0	21.6	5.4	0.9
97.5°	120.6	92.7	64.8	38.7	18.0	4.5	0.9
100°	110.7	83.7	57.6	34.2	15.3	3.6	0.9
102.5°	100.8	75.6	51.3	29.7	13.5	2.7	0.9
105°	92.7	68.4	45.9	27.0	11.7	2.7	0.9
107.5°	84.6	62.1	41.4	23.4	9.9	1.8	0.9
110°	76.5	56.7	36.9	20.7	9.0	1.8	0.9

TEST NUMBER: P1213425

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	70.2	51.3	33.3	18.9	7.2	1.8	0.9
115°	63.9	45.9	29.7	16.2	6.3	0.9	0.9
117.5°	57.6	41.4	26.1	14.4	5.4	0.9	0.9
120°	52.2	36.9	23.4	12.6	4.5	0.9	0.9
122.5°	46.8	33.3	20.7	10.8	3.6	0.9	0.9
125°	42.3	29.7	18.0	9.0	2.7	0.9	0.9
127.5°	37.8	26.1	16.2	8.1	2.7	0.9	0.9
130°	33.3	23.4	13.5	6.3	1.8	0.9	0.9
132.5°	29.7	19.8	11.7	5.4	1.8	0.9	0.9
135°	26.1	17.1	9.9	3.6	1.8	0.9	0.9
137.5°	22.5	14.4	8.1	2.7	0.9	0.9	0.9
140°	18.9	12.6	6.3	2.7	0.9	0.9	0.9
142.5°	16.2	9.9	4.5	1.8	0.9	0.9	0.9
145°	12.6	8.1	3.6	1.8	0.9	0.9	0.9
147.5°	9.9	6.3	2.7	1.8	0.9	0.9	0.9
150°	7.2	4.5	2.7	0.9	0.9	0.9	0.9
152.5°	5.4	3.6	1.8	0.9	0.9	0.9	0.9
155°	3.6	2.7	1.8	0.9	0.9	0.9	0.9
157.5°	2.7	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)