

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **4SNLED-LD5-18SL-RW-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-18SL-RW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

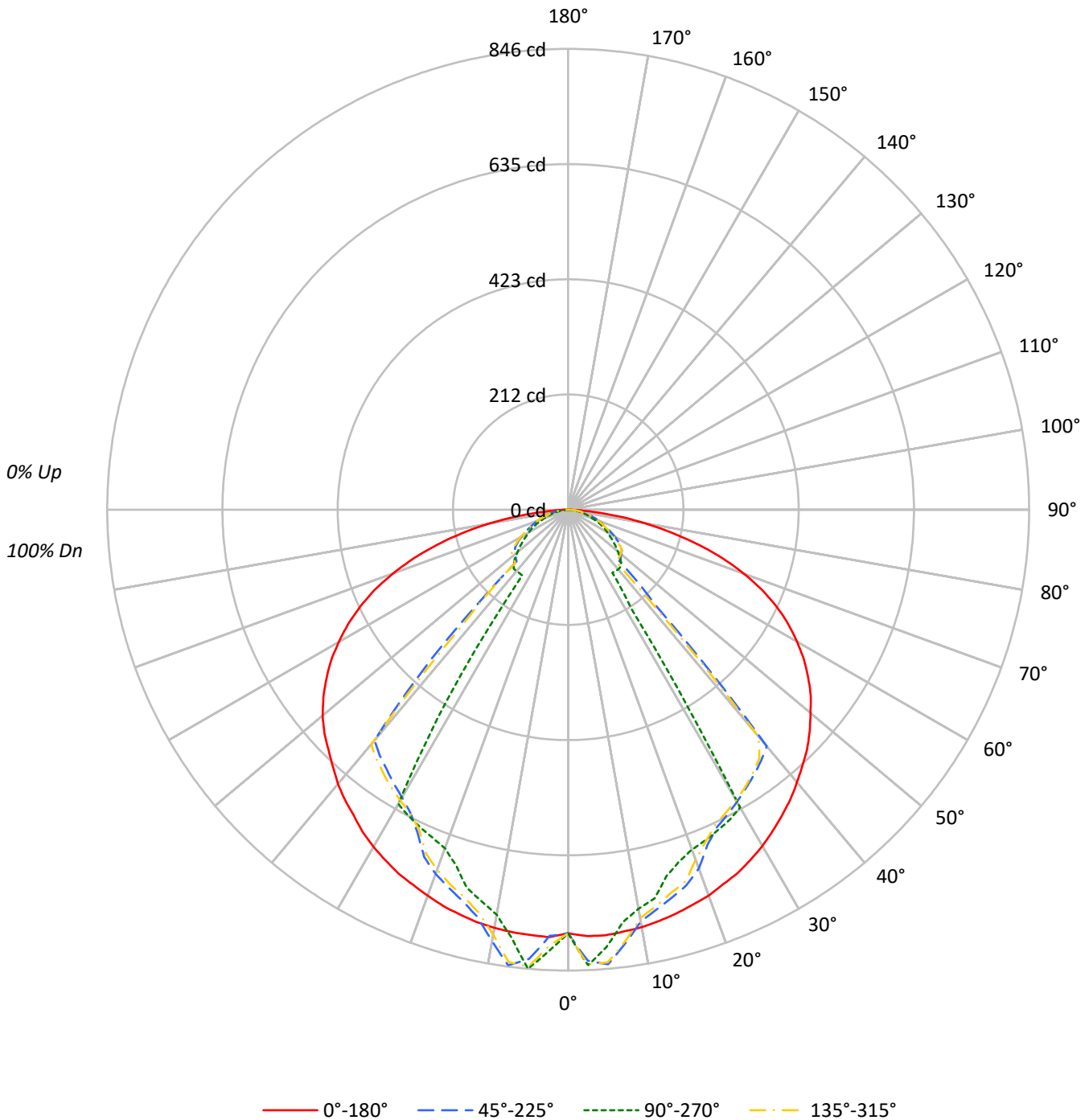
Lumens per Lamp: N/A
Luminaire Lumens: 1557.0 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 13
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: 25 FT



TEST NUMBER: P#
CATALOG NUMBER: 4SNLED-LD5-18SL-RW-UNV-L935-CD1-U

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6283	6283	6283	6283
5°	6345	6330	6342	6644
10°	6351	5724	6360	5811
15°	6365	5295	6380	5463
20°	6411	5023	6411	5004
25°	6466	4926	6476	4881
30°	6532	4840	6549	4782
35°	6608	1102	6622	1150
40°	6715	1146	6755	1183
45°	6875	1140	6899	1182
50°	7036	1031	7130	1059
55°	7252	915	7310	928
60°	7436	813	7451	824
65°	7568	710	7548	698
70°	7459	572	7435	551
75°	6926	441	6974	421
80°	5621	312	5847	286
85°	3040	188	3211	144



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-RW-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	4.9
10°-20°	210.3	13.5
20°-30°	311.5	20.0
30°-40°	313.9	20.2
40°-50°	245.2	15.7
50°-60°	189.4	12.2
60°-70°	127.2	8.2
70°-80°	64.9	4.2
80°-90°	18.0	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	598.4	38.4
0°-40°	912.3	58.6
0°-60°	1346.9	86.5
0°-90°	1557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1557.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	778	778	778	778	778	
5°	784	806	784	846	784	75
15°	767	697	769	719	767	217
25°	736	649	737	643	736	339
35°	684	141	686	147	684	429
45°	620	137	622	142	620	478
55°	538	100	542	101	538	480
65°	422	67	421	66	422	415
75°	248	34	249	32	248	259
85°	44	11	47	8	44	61
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5
2.5°	783.6	786.4	788.6	790.0	790.7	790.7	791.1	791.4	796.1	798.2	799.6
5°	784.3	787.1	791.4	797.1	802.1	806.4	810.0	814.9	819.9	825.3	827.1
7.5°	781.1	784.7	793.2	803.5	813.2	819.9	824.6	827.8	830.3	830.6	832.4
10°	778.2	784.7	796.4	810.0	822.1	830.3	830.3	828.5	831.0	821.4	811.7
12.5°	773.2	780.4	796.4	814.2	825.6	828.8	827.4	820.3	805.7	793.9	788.6
15°	767.2	776.8	796.8	816.7	826.3	827.4	813.9	795.7	784.7	777.5	768.6
17.5°	760.4	773.2	797.1	817.1	820.6	815.7	790.0	778.6	767.2	750.4	738.3
20°	754.0	766.5	794.3	812.1	814.2	791.8	771.8	759.7	740.5	725.9	720.5
22.5°	744.0	758.6	791.8	805.3	797.1	771.1	751.9	732.6	715.2	710.9	704.5
25°	735.8	751.2	786.1	797.1	775.4	752.2	729.8	707.3	699.1	693.1	687.4
27.5°	724.8	743.7	778.6	782.2	752.2	731.9	699.1	689.2	681.7	674.9	672.4
30°	712.7	735.8	768.3	761.5	733.0	703.1	678.8	669.6	664.2	657.1	654.2
32.5°	698.8	724.1	756.9	737.6	712.3	674.9	659.2	652.1	645.0	639.6	621.8
35°	684.5	713.7	743.3	714.8	687.4	653.5	639.6	633.2	626.4	606.8	588.3
37.5°	669.9	702.3	726.9	690.2	654.2	631.4	619.7	612.5	597.2	572.3	563.0
40°	653.2	688.4	705.9	664.9	625.4	609.0	597.9	590.8	556.2	545.2	542.3
42.5°	636.4	674.9	680.2	640.3	601.5	585.1	575.8	552.3	528.8	523.1	524.2
45°	620.4	660.3	652.1	605.4	576.6	563.0	547.3	514.9	502.4	505.3	506.0
47.5°	601.1	642.8	622.5	570.5	550.9	537.4	502.4	482.8	481.1	485.0	487.1
50°	580.5	623.2	591.2	538.8	523.1	507.1	467.5	457.5	459.7	463.6	466.1
52.5°	561.2	601.1	558.7	509.2	495.7	459.0	432.2	434.0	437.6	442.2	443.6
55°	537.7	574.4	524.2	479.3	466.4	418.3	406.2	410.5	414.1	418.0	420.8
57.5°	513.1	543.8	483.2	445.8	425.1	382.3	383.4	386.3	388.8	393.4	162.5
60°	485.0	508.8	438.3	414.8	373.8	353.8	354.9	359.9	362.4	202.4	111.9
62.5°	455.8	468.2	397.7	379.5	326.8	325.3	330.3	332.5	226.3	106.9	104.8
65°	422.3	419.8	357.8	328.9	294.7	296.1	301.5	290.8	100.1	100.1	99.4
67.5°	385.2	370.2	318.9	272.2	263.7	266.9	272.6	95.1	92.6	93.4	90.9
70°	342.8	321.8	278.7	230.5	233.4	236.6	91.9	86.2	85.2	83.4	78.4
72.5°	297.9	269.0	228.1	200.3	202.0	126.9	80.5	77.7	74.1	70.6	65.2
75°	247.7	210.2	167.5	167.5	170.0	72.3	70.2	65.6	61.6	57.0	53.8
77.5°	194.2	161.8	130.1	135.1	65.9	60.6	56.7	51.7	48.5	45.6	43.8
80°	142.2	113.0	98.0	87.7	51.3	46.0	42.0	39.2	37.8	36.0	33.9
82.5°	93.4	68.1	68.1	41.3	36.0	31.7	30.6	28.5	27.1	26.0	24.9
85°	44.5	39.6	29.9	25.3	22.4	20.3	19.6	18.5	18.5	18.2	17.8
87.5°	16.4	17.8	13.2	12.8	12.1	11.8	12.1	12.1	12.5	12.1	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5
2.5°	803.2	806.0	808.2	811.7	816.4	820.3	823.8	828.8	836.7	838.8	840.6
5°	827.1	828.1	830.6	833.5	834.2	836.0	835.6	837.7	838.8	841.3	836.0
7.5°	828.5	822.8	816.0	810.0	805.7	801.8	799.3	803.2	805.3	807.1	801.8
10°	798.5	791.8	787.9	784.3	780.0	774.0	765.8	767.5	766.8	766.8	765.1
12.5°	779.7	770.0	760.1	751.2	747.2	746.9	747.2	751.2	751.2	750.8	748.7
15°	750.1	740.8	735.8	733.7	733.7	732.6	732.6	736.9	735.8	735.8	734.8
17.5°	730.5	724.1	720.5	718.0	716.9	718.7	720.9	722.6	723.0	721.6	715.9
20°	714.5	708.4	704.1	704.8	704.5	705.5	706.6	700.6	693.1	683.1	678.5
22.5°	697.7	693.1	689.9	689.9	685.6	678.8	668.8	666.7	665.6	661.0	657.1
25°	681.7	676.3	671.7	657.4	648.5	649.6	647.8	644.3	643.9	643.5	645.0
27.5°	665.6	651.7	633.9	631.8	628.2	627.9	630.0	631.8	631.8	633.2	635.0
30°	632.5	616.5	613.3	609.3	610.8	615.7	616.8	619.3	620.0	622.5	623.9
32.5°	602.2	595.1	592.2	594.0	598.6	602.9	605.4	606.5	608.3	610.4	612.2
35°	577.6	575.5	578.0	581.9	586.5	590.1	592.2	594.4	596.2	597.9	599.4
37.5°	559.4	560.9	564.4	569.4	574.1	576.9	578.7	581.2	583.7	585.8	577.3
40°	542.3	545.9	549.8	555.2	559.1	561.9	563.7	566.9	545.6	246.9	135.4
42.5°	527.4	531.3	534.1	538.4	542.7	544.8	529.2	236.3	133.6	132.9	134.7
45°	509.2	512.4	517.0	520.3	524.2	344.2	131.5	132.9	130.8	132.2	132.9
47.5°	490.7	495.7	498.2	475.4	141.5	130.8	129.4	130.8	129.4	131.1	130.1
50°	469.7	475.7	338.5	127.9	126.9	126.1	127.6	126.9	127.9	129.4	126.5
52.5°	448.3	277.6	124.0	123.3	124.0	123.3	125.8	124.0	124.4	122.9	119.4
55°	151.8	120.1	119.0	118.7	120.8	120.8	120.8	117.9	116.2	112.6	110.1
57.5°	116.2	116.2	115.8	116.2	115.5	114.7	111.5	109.0	106.5	101.6	100.1
60°	110.1	110.1	110.1	110.1	106.9	105.5	100.5	98.3	94.1	91.6	90.2
62.5°	105.1	104.4	101.2	100.1	96.6	92.6	89.8	87.7	83.4	82.0	80.9
65°	98.0	95.5	91.6	87.3	85.5	81.2	79.8	76.6	74.5	73.4	72.7
67.5°	86.2	82.7	79.5	76.6	73.4	72.0	70.2	67.7	66.3	65.6	64.9
70°	73.8	71.3	68.1	66.3	64.1	63.1	60.6	59.9	58.8	57.7	56.7
72.5°	61.6	60.2	58.8	56.3	55.6	54.9	52.4	51.0	49.5	48.1	47.4
75°	51.7	50.6	49.9	47.7	46.7	44.5	42.8	41.7	40.6	39.6	38.8
77.5°	42.4	41.7	39.6	38.1	37.4	35.6	34.9	35.3	34.6	33.1	32.4
80°	33.1	32.4	30.6	30.6	29.9	29.2	28.5	27.8	27.1	26.0	25.3
82.5°	25.3	24.6	23.9	23.2	22.4	22.1	21.7	21.0	20.3	19.6	19.2
85°	17.8	17.5	17.1	16.7	16.4	16.0	15.7	15.0	14.3	13.9	13.5
87.5°	12.1	11.8	11.4	11.0	10.7	10.3	10.0	9.6	8.9	8.6	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5
2.5°	840.6	842.4	840.6	836.7	834.2	833.1	835.3	835.3	836.7	838.5	838.8
5°	827.4	823.1	818.1	813.2	810.7	809.2	805.3	806.0	807.1	807.8	808.5
7.5°	794.6	788.9	782.2	775.7	773.2	771.1	766.5	766.5	766.5	766.8	769.0
10°	761.1	758.6	755.8	751.5	748.3	747.2	743.3	744.4	743.7	744.7	747.2
12.5°	745.5	742.6	740.1	735.8	732.3	730.8	729.1	730.1	729.8	731.6	733.7
15°	731.2	729.8	726.9	723.7	720.5	717.7	711.2	709.1	707.7	705.9	708.4
17.5°	707.7	697.7	690.9	685.9	682.4	679.9	678.1	678.1	679.2	680.2	682.4
20°	675.6	672.8	669.6	664.2	660.6	659.2	658.2	658.2	659.9	661.4	665.3
22.5°	653.5	653.2	652.1	649.6	647.8	647.8	648.2	648.9	651.4	653.5	657.4
25°	643.2	644.6	643.9	642.5	641.4	641.8	641.0	641.8	644.3	646.4	649.6
27.5°	635.0	637.1	636.4	634.3	632.5	633.2	634.3	633.6	635.7	638.2	640.7
30°	623.9	624.3	625.7	623.2	622.5	623.6	623.9	624.7	626.8	628.6	630.7
32.5°	611.5	614.3	614.0	611.5	611.5	612.5	612.9	589.0	544.5	468.9	448.3
35°	599.4	602.6	597.2	503.5	348.5	186.0	143.6	138.6	139.7	140.4	141.1
37.5°	443.3	210.2	134.0	135.1	136.1	137.2	138.3	139.3	140.4	141.5	141.8
40°	133.3	132.9	134.0	135.4	136.5	137.2	138.6	139.7	140.8	141.8	142.2
42.5°	131.8	132.6	133.6	135.1	136.5	137.9	139.0	140.4	141.1	141.8	142.2
45°	131.1	132.6	134.0	135.1	136.1	136.8	137.5	137.9	137.5	137.5	138.3
47.5°	130.1	131.5	131.8	131.5	131.8	131.5	131.5	131.5	130.4	130.1	130.1
50°	126.1	126.1	125.4	124.0	123.6	123.3	122.6	122.2	120.8	120.4	120.4
52.5°	117.9	117.6	116.5	114.7	114.0	113.3	113.0	112.6	111.2	110.5	110.8
55°	108.3	107.6	106.5	104.4	104.1	103.3	103.0	102.6	101.2	101.9	100.8
57.5°	99.4	98.0	96.6	96.2	94.8	94.4	94.1	93.7	92.6	93.0	92.3
60°	88.7	88.4	87.7	86.2	86.2	85.9	85.9	85.2	84.5	84.1	84.1
62.5°	80.9	79.8	79.1	79.1	78.0	78.0	78.0	77.3	76.6	77.0	76.6
65°	72.3	72.0	71.6	70.9	70.9	70.6	70.6	69.8	68.8	69.1	68.4
67.5°	65.2	64.5	63.8	63.4	62.0	61.3	60.9	60.6	59.2	59.5	58.8
70°	56.3	55.2	54.5	53.8	52.7	52.0	52.0	51.3	50.2	50.6	49.9
72.5°	47.0	46.3	45.6	45.3	44.2	43.8	43.5	43.1	42.0	42.4	42.0
75°	39.2	39.2	38.8	38.5	37.4	36.3	35.6	35.3	34.6	34.9	34.2
77.5°	32.4	31.7	31.0	31.0	29.9	29.2	28.5	28.5	28.5	28.2	27.8
80°	25.3	24.6	24.6	24.2	23.5	22.8	22.4	22.4	22.1	22.1	21.7
82.5°	19.2	18.5	18.2	18.2	17.5	17.1	16.7	16.4	16.4	16.4	16.0
85°	13.5	12.8	12.5	12.5	11.8	11.4	11.4	11.0	11.0	10.7	10.7
87.5°	8.2	7.8	7.5	7.5	6.8	6.4	6.4	6.4	6.1	6.1	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5
2.5°	838.8	838.8	836.3	837.0	836.0	837.4	835.6	835.6	837.7	837.7	839.2
5°	808.9	807.1	806.7	806.0	802.5	803.9	802.1	800.3	802.8	802.8	806.0
7.5°	767.9	764.7	766.1	764.0	761.8	758.6	759.7	758.3	760.1	762.6	765.8
10°	746.9	744.0	745.8	743.7	744.7	740.1	740.5	740.8	742.6	743.3	746.2
12.5°	733.3	732.6	731.9	731.2	731.9	729.4	728.0	728.4	729.1	729.4	731.6
15°	704.8	700.2	701.6	696.6	697.0	697.4	694.5	697.4	697.0	701.6	705.9
17.5°	681.7	681.7	679.2	677.0	675.6	675.3	673.1	674.5	673.1	676.0	677.0
20°	665.6	665.3	664.9	663.9	660.3	660.6	661.7	658.5	658.2	657.8	659.9
22.5°	658.2	658.5	657.1	657.1	653.9	654.6	654.9	651.4	651.7	650.7	651.7
25°	650.3	651.0	649.2	649.2	648.5	648.2	646.4	647.1	645.0	643.2	645.0
27.5°	641.0	642.5	641.0	641.8	640.3	639.6	638.6	637.8	635.7	635.3	636.4
30°	632.5	633.2	632.9	631.1	630.7	628.6	629.6	627.5	625.4	625.7	626.4
32.5°	324.3	309.7	238.7	215.6	213.4	221.3	262.3	319.3	413.7	505.3	571.2
35°	141.5	141.5	141.5	141.1	141.1	140.8	140.4	140.0	139.7	139.3	139.0
37.5°	142.2	142.2	142.2	142.2	141.8	141.5	141.5	140.8	140.4	140.0	139.7
40°	142.5	142.9	142.9	142.9	142.5	142.5	142.2	141.5	141.1	140.4	139.7
42.5°	142.2	142.5	142.5	142.2	142.2	141.8	141.8	141.5	141.1	140.8	140.4
45°	137.5	137.9	137.2	137.2	136.8	136.8	136.8	136.8	136.8	137.2	137.2
47.5°	129.4	129.4	129.0	128.6	128.6	128.3	128.6	128.3	129.0	129.4	130.1
50°	119.7	119.7	119.0	118.7	118.7	118.7	118.7	119.0	119.4	120.1	120.8
52.5°	109.8	109.8	109.4	109.0	108.7	108.7	109.8	109.4	109.8	110.1	111.2
55°	100.1	100.5	99.8	99.8	99.4	99.4	99.4	99.8	100.1	100.5	101.6
57.5°	91.9	91.9	91.2	91.2	91.2	90.9	91.9	91.2	91.6	91.9	92.6
60°	83.7	83.4	83.4	83.0	83.0	83.0	83.7	83.4	83.4	83.7	84.5
62.5°	76.3	76.3	75.9	75.9	75.5	75.5	76.3	75.9	75.9	76.3	76.6
65°	67.7	67.7	67.3	67.0	68.1	67.0	68.1	67.3	68.1	68.4	69.1
67.5°	58.1	58.1	58.1	57.7	57.7	58.4	58.8	58.1	58.4	59.2	59.5
70°	49.5	49.5	49.2	49.2	49.2	49.9	50.2	49.5	49.9	50.2	51.0
72.5°	42.0	41.3	41.3	41.0	41.7	41.7	42.0	41.7	42.0	42.0	42.8
75°	34.6	33.9	33.9	33.9	34.6	34.2	34.6	34.2	34.6	34.6	34.9
77.5°	27.8	27.4	27.1	27.1	27.8	27.8	27.8	27.4	27.8	28.2	28.5
80°	21.7	21.4	21.0	21.0	21.7	21.7	21.7	22.1	21.7	22.1	22.4
82.5°	16.0	15.7	15.3	16.0	16.0	16.0	16.0	16.4	16.0	16.4	16.7
85°	10.7	10.3	10.0	10.7	10.7	10.7	10.7	11.0	10.7	11.0	11.4
87.5°	5.7	5.3	5.3	5.7	5.7	5.7	6.1	6.1	6.1	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5
2.5°	841.3	842.4	842.0	839.9	837.7	835.3	833.5	833.8	837.4	838.5	835.3
5°	806.0	812.8	812.8	817.4	814.9	812.8	814.2	822.1	826.0	832.0	834.2
7.5°	769.7	772.9	772.5	777.2	776.5	776.5	777.5	787.9	792.8	797.8	799.3
10°	749.4	752.6	752.2	752.6	751.5	749.0	749.0	753.7	757.9	760.4	761.1
12.5°	734.8	736.5	736.2	736.2	735.5	733.3	733.0	736.9	741.5	744.7	745.1
15°	713.0	718.0	719.1	723.7	722.6	719.8	720.5	723.7	726.6	729.4	728.4
17.5°	680.6	683.1	683.5	685.2	684.5	684.5	688.8	700.6	708.4	715.2	715.9
20°	662.1	663.9	663.1	667.1	665.3	664.9	666.0	671.0	674.5	677.8	683.5
22.5°	653.2	654.6	653.5	653.9	650.7	647.8	647.1	651.0	654.9	659.2	659.2
25°	645.7	646.8	646.4	645.7	643.2	639.3	638.6	639.3	640.7	641.0	638.6
27.5°	636.8	637.5	637.5	637.8	634.6	631.1	630.4	629.6	631.1	630.7	626.8
30°	627.5	626.4	626.8	627.2	624.3	621.1	619.7	619.3	620.7	620.4	616.5
32.5°	605.4	613.6	614.3	615.0	612.5	609.7	608.3	607.2	607.9	607.6	604.0
35°	138.6	141.1	172.8	391.3	531.3	588.3	594.4	592.9	593.3	593.3	590.4
37.5°	139.0	138.6	138.3	137.2	136.1	135.4	234.1	499.2	578.3	578.7	576.2
40°	139.0	138.6	138.3	137.5	136.1	135.1	133.3	131.8	135.1	297.2	543.8
42.5°	139.7	139.0	138.3	137.5	136.1	134.7	133.3	131.5	132.6	131.8	130.1
45°	137.5	137.2	137.2	136.8	136.1	134.7	132.9	130.8	129.7	130.8	129.0
47.5°	130.8	131.1	132.2	132.6	132.6	132.9	131.8	130.4	128.6	129.7	127.6
50°	121.5	122.2	122.6	124.4	125.1	126.5	126.9	126.9	126.5	127.9	126.5
52.5°	111.5	112.2	114.0	114.7	115.5	117.6	118.3	119.4	120.1	122.2	123.6
55°	101.9	102.3	103.0	104.4	105.5	107.3	108.3	109.4	111.2	112.2	116.5
57.5°	93.0	93.4	94.8	95.1	95.9	97.3	98.3	99.8	101.2	101.9	106.9
60°	84.5	84.8	85.9	86.2	86.6	88.0	89.1	90.2	91.2	91.9	95.5
62.5°	77.0	77.0	78.0	78.0	78.4	79.5	80.2	80.9	82.0	82.3	84.1
65°	69.5	69.8	70.6	70.6	70.9	71.6	72.0	72.3	73.4	73.4	74.8
67.5°	60.2	60.6	61.6	62.4	62.7	64.1	64.5	64.9	65.6	65.9	66.6
70°	51.3	51.7	52.7	53.1	53.5	54.5	55.2	56.3	57.4	58.4	59.2
72.5°	43.1	43.5	44.5	44.5	45.6	46.0	46.7	47.0	48.1	48.8	49.9
75°	35.3	35.6	36.7	36.7	37.8	38.1	38.5	38.8	39.6	40.3	41.0
77.5°	28.9	28.9	30.3	31.0	31.7	31.7	32.1	32.1	32.1	32.4	33.1
80°	22.8	22.8	23.9	24.6	25.3	25.3	25.7	26.0	26.4	26.4	26.7
82.5°	17.1	17.1	18.2	18.5	19.2	19.2	19.2	19.6	20.0	19.6	20.3
85°	11.8	11.8	12.5	12.8	13.5	13.5	13.5	13.9	14.3	13.9	14.3
87.5°	6.8	7.1	7.5	7.8	8.2	8.6	8.6	8.6	8.9	8.9	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5
2.5°	831.7	827.4	827.1	822.1	820.6	821.0	817.1	815.7	809.2	807.8	801.0
5°	834.9	837.0	836.0	835.6	836.7	836.0	833.1	831.7	830.6	827.8	822.1
7.5°	799.6	801.0	802.1	806.7	810.7	817.4	824.6	829.2	832.8	833.5	828.8
10°	763.6	770.4	775.0	782.2	787.9	791.8	796.1	800.0	810.3	820.6	826.7
12.5°	745.1	746.9	746.5	750.4	754.4	764.7	774.7	780.4	788.2	792.8	803.9
15°	729.4	729.8	730.8	733.7	735.8	739.4	744.0	752.6	768.3	775.4	781.4
17.5°	715.2	715.2	715.9	718.4	721.2	724.4	727.3	730.8	738.7	750.4	765.4
20°	692.4	702.3	703.4	703.1	704.5	710.5	711.2	717.7	721.6	726.2	740.8
22.5°	658.5	664.6	673.1	686.3	691.3	694.1	696.3	699.1	705.2	710.5	716.6
25°	640.0	643.9	646.4	650.3	660.6	677.4	680.6	683.8	687.7	691.6	699.1
27.5°	623.6	623.2	625.0	628.6	631.4	640.3	656.0	668.5	669.2	674.9	681.3
30°	611.8	609.7	607.2	606.5	610.4	615.0	619.7	639.3	652.8	655.7	662.4
32.5°	600.8	597.2	593.7	590.8	588.3	592.2	595.1	603.6	621.1	637.5	641.0
35°	587.2	583.7	579.4	576.2	572.3	571.9	571.6	579.8	585.5	605.1	622.2
37.5°	573.3	569.4	565.9	562.3	558.4	555.5	553.7	555.9	561.2	569.8	598.3
40°	558.7	554.1	550.5	547.7	542.3	540.2	536.6	535.2	535.6	543.1	558.0
42.5°	333.9	532.4	534.1	530.9	526.3	523.5	519.5	517.8	514.2	517.8	526.3
45°	128.6	130.1	389.5	514.5	508.8	505.3	501.7	499.9	496.0	493.2	501.0
47.5°	126.1	127.6	124.7	176.7	485.7	486.8	482.5	480.7	476.8	474.6	472.5
50°	124.4	125.4	123.3	124.0	121.5	445.1	462.9	460.7	456.5	454.0	449.7
52.5°	122.6	122.6	121.2	119.4	118.7	119.0	374.5	440.4	435.4	432.9	427.2
55°	116.9	117.6	119.0	116.2	115.5	115.1	114.0	356.7	412.3	409.4	404.4
57.5°	108.3	109.8	113.7	113.0	113.0	110.1	109.4	109.4	331.0	385.6	380.6
60°	98.3	99.8	104.1	105.5	106.5	105.8	105.1	104.8	103.3	348.9	355.3
62.5°	88.0	89.4	90.9	95.5	96.9	98.7	100.8	99.8	98.3	98.3	328.5
65°	77.0	79.1	79.8	84.1	85.9	89.1	90.9	93.4	92.6	92.3	94.1
67.5°	67.3	69.8	70.2	72.0	75.2	76.6	78.8	83.4	85.5	86.2	86.9
70°	59.2	60.6	61.6	62.4	64.5	64.9	68.8	72.0	75.2	78.8	79.8
72.5°	51.0	52.0	54.2	53.5	54.2	55.6	57.7	59.9	63.1	68.1	71.3
75°	41.7	42.4	43.8	44.5	46.0	47.0	48.5	50.2	53.1	55.6	59.9
77.5°	33.5	33.9	34.9	35.3	36.7	37.8	40.3	41.3	43.1	44.9	47.4
80°	27.1	27.1	27.4	27.4	28.5	29.6	31.4	32.4	34.6	36.0	36.0
82.5°	20.7	20.7	21.7	21.7	22.4	22.4	23.5	23.5	24.6	25.3	26.0
85°	14.6	15.0	15.7	15.3	16.0	15.7	16.4	17.1	17.5	17.1	16.7
87.5°	9.6	9.6	10.3	10.0	10.3	10.3	11.0	11.0	11.4	11.4	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5
2.5°	798.5	793.2	790.0	786.1	785.0	783.9	785.4	785.4	783.2	781.4	778.2
5°	817.1	811.4	805.3	798.9	792.8	786.4	783.9	783.6	779.7	777.5	776.5
7.5°	826.7	823.8	817.1	808.2	798.9	787.5	782.5	779.7	775.7	775.0	775.0
10°	827.8	824.6	821.0	814.6	803.9	788.9	779.3	773.6	770.0	772.5	777.2
12.5°	817.4	823.5	820.3	816.0	807.5	789.3	775.4	766.8	765.8	772.2	784.3
15°	791.1	808.9	817.8	813.5	806.7	788.6	769.0	759.0	759.0	772.2	787.9
17.5°	771.1	785.0	806.7	810.3	802.5	787.1	762.9	751.2	754.4	773.6	790.4
20°	754.7	763.3	784.3	804.3	796.8	783.9	754.0	741.9	748.3	771.5	793.9
22.5°	729.1	746.2	759.0	788.6	791.1	777.9	745.1	730.5	743.3	771.5	792.1
25°	704.1	724.8	738.3	767.2	782.5	770.4	736.9	718.4	738.0	770.4	790.7
27.5°	686.7	696.3	720.9	741.5	769.7	760.4	725.9	705.2	731.2	764.7	782.5
30°	668.1	674.5	698.8	718.4	752.6	749.0	714.5	690.6	722.6	759.4	761.1
32.5°	647.8	654.9	667.4	695.9	728.7	738.3	701.6	676.0	713.4	751.2	736.2
35°	627.2	632.5	642.5	673.1	700.9	722.3	685.9	659.2	707.0	738.7	712.3
37.5°	606.5	612.2	620.7	646.4	671.7	707.3	672.4	642.5	695.2	716.6	687.4
40°	586.9	590.1	599.0	615.0	647.5	692.0	657.1	625.0	683.1	688.4	653.5
42.5°	550.9	566.9	575.1	588.0	620.0	671.0	639.3	606.5	669.6	660.3	619.7
45°	512.1	547.0	550.5	563.4	595.8	648.5	622.5	588.3	656.7	636.1	587.6
47.5°	480.3	505.6	526.3	537.0	566.9	622.2	606.8	573.0	637.5	605.4	556.2
50°	452.2	465.7	503.1	511.0	532.4	590.4	588.3	555.2	610.8	566.9	525.6
52.5°	424.8	434.4	468.2	485.0	502.4	556.2	566.2	537.7	581.5	528.4	494.6
55°	400.9	404.1	422.6	457.9	473.6	521.7	542.0	517.4	544.5	491.7	464.7
57.5°	376.3	373.4	387.0	432.2	443.6	486.4	516.3	496.7	514.5	454.3	433.7
60°	350.6	346.7	352.4	382.3	411.9	451.5	486.0	473.9	478.2	417.3	399.1
62.5°	323.9	320.0	318.2	337.1	380.9	415.5	455.4	448.6	433.7	383.4	356.3
65°	296.1	292.2	289.3	296.8	346.7	368.8	421.2	419.4	384.8	347.8	300.0
67.5°	90.2	265.8	259.8	259.4	292.2	326.4	384.1	381.3	335.7	309.7	258.3
70°	81.2	215.6	229.1	225.9	240.2	283.3	341.7	339.6	287.9	248.4	228.4
72.5°	74.5	76.3	202.4	198.8	202.0	240.9	297.5	291.8	244.1	196.0	197.4
75°	63.8	67.0	69.8	167.8	163.6	199.5	249.4	240.5	201.3	161.8	165.0
77.5°	52.0	55.9	58.1	122.2	132.2	142.2	199.2	187.4	138.6	129.4	61.6
80°	38.8	42.0	45.6	48.8	100.5	99.4	147.9	136.1	96.6	80.5	48.1
82.5°	28.5	29.6	31.7	35.3	39.9	66.6	95.1	83.7	67.0	36.7	33.1
85°	17.8	19.2	20.3	21.4	24.2	39.9	47.0	37.4	28.2	22.4	21.0
87.5°	11.4	11.4	11.0	11.4	11.8	14.3	16.0	15.3	12.1	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5
2.5°	774.7	769.7	769.7	768.3	769.3	769.3	769.0	769.3	771.8	773.2	775.7
5°	774.3	772.9	776.1	780.0	784.7	790.4	791.8	796.8	801.4	807.5	813.9
7.5°	779.0	783.9	790.0	796.4	805.7	812.4	818.5	824.6	828.8	834.5	838.1
10°	785.7	795.7	806.0	814.2	824.2	829.9	833.8	834.5	828.5	818.9	811.0
12.5°	795.3	807.1	816.7	824.6	829.2	827.1	815.7	803.9	797.1	787.1	773.2
15°	803.5	814.2	824.2	821.0	808.5	796.8	787.9	774.0	760.4	751.2	745.1
17.5°	807.1	817.4	813.9	797.1	785.4	771.8	753.7	743.0	734.1	726.9	723.4
20°	809.2	807.5	788.2	776.1	753.3	740.8	729.1	719.1	712.3	708.8	708.0
22.5°	803.5	781.8	765.4	743.7	726.9	716.6	707.3	699.1	694.5	691.6	689.9
25°	784.7	759.4	735.1	718.0	703.8	694.9	687.7	681.0	675.3	673.8	670.3
27.5°	758.3	737.6	705.5	692.4	679.9	675.6	667.8	661.0	656.0	651.7	640.3
30°	736.5	703.8	680.6	668.5	661.0	656.0	647.1	640.0	631.4	615.7	609.3
32.5°	709.8	677.4	655.3	648.5	639.3	635.0	625.0	609.3	596.2	589.7	589.4
35°	675.3	648.5	632.5	626.4	619.0	611.8	591.2	576.9	570.5	571.2	576.6
37.5°	646.4	622.5	612.2	603.6	595.1	576.9	559.4	552.7	554.5	558.0	560.5
40°	617.2	599.0	587.2	580.5	561.2	543.4	534.1	536.6	539.8	542.3	545.6
42.5°	588.7	575.8	564.1	550.9	524.5	514.9	517.0	520.3	523.1	526.7	529.9
45°	561.6	550.2	536.6	506.7	493.5	496.0	499.2	501.7	506.0	508.5	511.7
47.5°	535.9	523.8	499.9	473.6	472.1	477.1	480.0	483.2	486.4	480.0	264.8
50°	507.1	494.6	458.2	448.3	451.5	456.1	459.7	462.9	412.3	163.9	126.1
52.5°	478.6	446.8	423.7	426.5	429.7	435.1	437.6	325.0	129.4	123.3	123.6
55°	446.8	406.2	399.5	403.0	405.9	411.2	272.6	119.4	118.7	118.3	121.2
57.5°	397.0	372.4	375.2	378.8	381.6	269.4	116.2	115.5	115.8	116.2	116.5
60°	352.4	347.1	350.3	353.5	250.1	112.2	110.1	110.5	111.9	110.8	108.0
62.5°	317.1	321.4	324.6	284.4	106.5	105.5	106.5	105.5	103.0	101.2	97.6
65°	290.1	294.3	296.8	100.1	99.8	101.2	100.1	96.6	92.6	87.7	86.6
67.5°	261.6	265.8	95.1	92.6	94.1	92.3	88.0	83.7	80.9	76.6	74.8
70°	232.0	99.4	86.2	85.9	83.4	80.5	75.9	71.6	68.1	66.3	64.5
72.5°	167.5	78.8	77.7	74.8	70.6	66.6	62.7	60.2	58.4	57.4	56.3
75°	69.8	68.4	65.2	60.2	55.9	54.2	51.3	49.5	48.8	46.7	46.0
77.5°	58.4	55.6	51.0	47.4	44.9	43.8	41.7	39.6	38.5	38.1	36.7
80°	44.9	41.0	38.8	37.1	36.3	33.9	31.4	30.3	29.6	29.2	28.2
82.5°	30.6	29.2	27.8	25.3	25.3	24.2	23.2	22.4	21.7	21.7	21.0
85°	20.0	18.9	18.5	17.5	17.5	16.7	16.4	16.0	15.7	15.3	15.0
87.5°	11.4	11.4	11.8	11.4	11.4	11.0	10.7	10.3	10.0	10.0	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5
2.5°	779.0	782.5	783.2	795.3	802.1	801.8	799.6	806.0	802.1	800.0	802.1
5°	820.3	824.6	828.1	841.3	845.9	848.1	847.7	851.3	848.4	845.9	845.9
7.5°	840.6	842.0	843.4	840.2	838.1	834.5	829.2	821.4	817.4	813.2	807.8
10°	807.1	802.5	804.3	797.8	792.5	788.6	783.6	777.2	771.8	767.9	761.8
12.5°	766.1	765.8	766.5	767.5	762.2	759.0	755.1	750.4	746.5	742.2	737.3
15°	741.2	741.5	744.4	743.3	741.5	739.8	735.5	734.1	730.5	725.9	723.0
17.5°	723.4	725.1	728.0	726.6	723.7	721.9	718.7	715.5	712.3	708.8	704.5
20°	707.7	709.5	711.2	709.5	704.1	701.6	697.4	687.4	680.2	673.1	666.7
22.5°	690.6	691.6	690.2	684.5	671.0	664.6	659.6	656.7	650.7	646.8	642.8
25°	669.2	663.1	653.9	647.5	642.1	639.3	637.1	636.8	636.1	635.3	633.6
27.5°	634.3	632.1	627.2	624.7	625.0	626.1	626.4	627.5	626.4	625.0	623.6
30°	608.3	609.3	609.7	610.4	612.2	613.3	613.6	615.0	614.3	613.3	612.5
32.5°	591.9	594.4	595.8	597.9	599.0	600.8	600.8	602.9	600.8	600.4	599.7
35°	578.3	580.5	581.2	584.4	585.5	587.2	587.2	589.0	587.2	569.1	449.3
37.5°	564.8	566.9	568.4	571.2	571.6	572.6	528.4	386.6	249.4	193.1	147.5
40°	548.8	551.3	552.7	553.7	389.1	246.9	170.0	138.3	138.3	139.3	140.4
42.5°	531.7	533.4	371.7	216.3	134.7	134.3	135.4	136.5	137.5	139.0	140.4
45°	418.0	211.0	134.0	130.8	131.8	133.3	134.7	136.1	137.9	139.3	140.0
47.5°	137.2	128.6	130.4	129.0	130.8	132.6	134.0	135.4	135.8	136.1	135.8
50°	126.9	126.9	127.9	127.9	129.4	130.1	130.1	130.1	128.6	128.3	127.2
52.5°	122.6	125.4	124.0	124.7	124.0	122.9	121.9	120.8	118.7	117.9	116.5
55°	120.4	121.5	117.9	116.9	115.5	112.6	111.2	109.8	108.0	107.3	105.5
57.5°	115.5	113.0	109.0	107.3	104.8	101.9	100.5	99.4	97.6	96.9	95.9
60°	106.2	101.2	98.7	96.6	93.7	91.2	90.2	89.4	88.0	87.7	86.6
62.5°	94.8	90.5	88.4	85.5	83.4	82.0	80.9	80.5	79.1	79.1	78.4
65°	82.3	80.2	78.4	75.5	74.5	73.0	72.7	72.3	71.6	71.3	70.6
67.5°	72.3	70.9	68.4	67.0	66.3	65.2	64.5	63.8	62.4	61.6	60.6
70°	63.4	62.4	59.9	58.8	57.4	55.6	54.5	53.8	52.7	52.0	51.0
72.5°	54.9	51.7	49.9	48.8	47.7	46.0	45.6	44.9	43.8	43.5	42.4
75°	44.2	41.7	40.6	39.9	38.8	37.8	37.8	37.8	36.7	36.3	36.0
77.5°	35.3	33.9	33.1	32.4	32.1	31.4	30.3	29.9	28.9	28.9	28.5
80°	27.1	26.4	25.7	25.3	24.9	24.2	23.5	23.2	22.1	22.1	21.7
82.5°	20.0	19.6	19.2	18.9	18.5	18.2	17.1	16.7	16.0	16.0	15.7
85°	14.3	13.9	13.2	12.8	12.8	12.5	11.4	11.0	10.3	10.3	10.3
87.5°	8.9	8.6	8.2	7.8	7.5	7.1	6.4	6.1	6.1	5.3	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5
2.5°	797.8	803.9	803.2	807.5	808.5	810.7	811.4	811.7	806.4	810.7	811.0
5°	844.9	845.9	846.7	848.4	850.2	850.6	848.8	846.7	847.4	845.9	842.4
7.5°	807.1	801.8	800.7	799.3	798.5	797.8	794.6	797.5	794.3	792.8	787.9
10°	760.8	755.8	755.4	755.4	756.5	756.1	755.4	754.0	756.9	755.1	754.0
12.5°	736.5	734.8	735.8	735.1	738.0	738.7	738.0	738.0	737.3	735.8	736.5
15°	721.9	720.5	721.6	720.5	722.6	723.0	721.2	722.3	720.5	718.7	718.0
17.5°	702.7	699.5	697.0	693.4	693.8	693.1	690.9	690.9	689.2	684.5	684.9
20°	665.6	662.4	661.0	661.0	662.8	663.5	663.1	663.9	662.1	661.4	658.5
22.5°	642.5	642.1	642.8	644.6	647.5	651.4	651.7	651.7	651.7	651.4	647.8
25°	634.3	634.3	635.0	637.5	639.6	642.5	643.2	643.9	643.2	643.2	640.0
27.5°	625.0	624.3	625.7	628.2	630.7	632.9	634.6	635.0	633.9	633.9	635.0
30°	613.6	613.3	615.0	617.5	619.7	621.8	623.6	625.0	623.6	623.6	622.5
32.5°	601.9	601.9	602.6	587.6	544.8	490.7	491.7	460.4	438.6	411.2	447.6
35°	375.6	273.3	234.8	198.8	173.5	157.1	156.8	151.4	148.9	147.2	146.8
37.5°	141.8	142.5	144.0	144.7	145.7	146.5	146.8	146.8	146.8	146.8	146.5
40°	141.5	142.9	144.0	145.0	146.1	146.8	146.8	147.2	147.5	147.5	147.5
42.5°	141.8	143.2	144.7	145.7	146.5	146.8	147.2	147.5	147.5	147.5	147.5
45°	141.5	142.2	142.2	142.5	142.5	142.5	142.9	142.9	142.5	142.2	142.9
47.5°	136.1	136.1	135.1	134.7	134.3	133.6	134.0	133.6	133.3	132.9	133.6
50°	126.9	125.4	124.7	124.0	123.6	122.9	123.3	122.9	122.6	121.9	122.9
52.5°	115.8	115.5	114.0	113.3	113.0	113.3	112.6	112.2	111.9	111.5	111.9
55°	105.1	103.7	103.3	102.6	102.3	102.6	102.3	101.9	101.6	101.2	101.6
57.5°	95.5	94.4	94.1	93.4	93.4	93.4	93.4	93.0	92.6	92.3	92.6
60°	86.2	85.5	85.2	85.2	84.8	84.8	84.8	84.5	84.1	84.1	84.5
62.5°	78.4	78.4	77.3	77.0	77.0	77.3	77.0	76.6	76.3	75.9	76.6
65°	70.2	68.8	68.4	67.7	67.0	67.3	67.0	66.6	66.3	65.9	66.6
67.5°	60.2	59.9	58.4	57.7	57.4	57.7	57.4	57.0	56.7	56.3	57.0
70°	50.6	50.6	49.2	48.8	48.5	48.5	48.1	48.1	47.7	47.4	48.1
72.5°	42.0	42.0	41.7	41.0	40.6	40.3	39.9	39.6	39.6	39.9	39.9
75°	34.9	34.2	32.8	33.1	32.8	32.4	32.4	32.1	31.7	32.4	32.1
77.5°	27.4	27.1	26.0	26.4	26.0	25.7	25.7	25.3	24.9	25.3	25.3
80°	20.7	20.7	20.3	20.0	20.0	19.6	19.2	19.2	18.9	19.2	19.2
82.5°	15.0	15.0	14.6	14.3	13.9	13.9	13.5	13.5	13.5	13.5	13.5
85°	9.6	9.3	9.3	8.6	8.6	8.6	8.2	8.2	8.2	8.2	8.2
87.5°	4.6	4.6	4.3	4.3	3.9	3.6	3.6	3.2	3.2	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5
2.5°	804.6	809.2	805.3	807.1	807.5	813.5	813.2	814.6	812.1	809.2	805.3
5°	845.6	843.4	840.6	847.4	843.8	848.1	849.5	852.4	852.4	852.0	848.8
7.5°	793.2	788.6	792.1	794.6	795.7	792.8	798.5	805.0	810.3	813.5	813.9
10°	752.2	753.7	753.3	754.4	756.9	756.5	760.1	763.6	765.1	767.2	767.9
12.5°	733.0	732.6	733.3	735.8	737.3	736.9	740.5	742.6	743.3	743.7	743.3
15°	717.7	715.2	716.9	717.3	718.4	718.4	722.6	725.9	727.3	728.0	727.3
17.5°	688.8	682.7	688.4	688.4	692.4	691.6	698.4	703.8	706.6	708.8	708.8
20°	660.3	657.4	659.6	658.9	661.7	661.4	665.6	669.2	671.7	673.5	675.6
22.5°	648.9	649.6	646.4	646.8	646.8	646.4	648.5	650.3	651.0	652.1	651.4
25°	641.4	642.1	641.0	639.3	638.6	639.3	640.3	642.5	642.8	642.1	639.6
27.5°	633.9	631.8	633.6	630.4	629.6	631.1	632.5	632.9	633.2	633.2	631.1
30°	622.5	620.7	622.5	621.1	619.7	621.1	622.2	622.2	622.9	623.2	620.7
32.5°	435.1	438.6	496.4	531.3	580.5	605.4	610.0	610.0	610.8	610.8	608.6
35°	148.2	148.6	160.7	174.2	203.1	238.7	285.4	309.7	391.6	489.6	584.4
37.5°	146.5	146.1	145.7	145.4	145.0	144.7	144.0	143.6	145.7	172.8	234.5
40°	147.2	146.8	146.1	145.7	145.4	144.7	144.3	143.6	142.9	142.2	141.5
42.5°	147.2	146.8	146.5	146.1	145.7	145.4	144.7	144.0	143.2	142.2	141.1
45°	142.2	142.2	142.5	142.5	142.9	142.9	142.9	142.5	142.5	142.2	140.8
47.5°	132.9	132.9	134.0	134.0	134.7	135.4	135.4	136.1	137.2	137.9	138.3
50°	122.2	122.2	123.3	123.6	124.4	125.4	126.5	126.9	127.9	129.4	130.8
52.5°	111.5	111.5	112.6	112.6	113.3	114.4	115.5	115.8	117.2	118.7	120.4
55°	101.6	101.6	102.3	102.6	103.0	103.7	104.8	104.8	106.2	107.3	109.0
57.5°	92.6	93.4	93.4	93.4	93.7	94.4	95.1	95.1	96.2	97.3	98.7
60°	84.1	84.8	84.8	84.8	85.2	85.5	86.2	86.2	86.9	87.7	89.1
62.5°	76.3	77.0	77.0	77.3	77.3	77.7	78.4	78.0	78.8	79.1	80.2
65°	66.3	67.0	67.3	67.7	68.1	68.8	69.8	69.5	70.6	71.3	72.3
67.5°	56.7	57.4	57.4	57.7	58.1	58.8	59.5	59.5	60.6	61.3	62.7
70°	47.7	48.5	48.5	48.8	49.2	49.9	50.6	50.2	51.3	52.0	53.1
72.5°	39.6	40.3	40.3	40.6	40.6	41.3	42.0	42.8	42.8	43.5	44.2
75°	32.1	32.4	32.8	32.8	33.1	33.5	34.2	34.9	35.3	35.6	36.3
77.5°	25.3	25.7	26.0	26.0	26.4	26.7	27.1	28.5	29.2	29.6	29.6
80°	19.2	19.6	19.6	19.6	20.0	20.3	21.0	21.0	22.4	22.4	22.8
82.5°	13.5	13.9	13.9	13.9	14.3	15.0	15.3	15.7	16.4	16.7	16.7
85°	8.2	8.6	8.6	8.6	8.9	9.3	10.0	10.3	10.7	10.7	11.0
87.5°	3.2	3.6	3.9	3.9	4.3	4.6	5.0	5.3	5.7	5.7	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5
2.5°	801.0	803.5	801.0	802.5	804.3	801.0	793.6	790.7	789.6	785.4	782.5
5°	845.6	845.6	844.5	847.4	847.0	842.0	834.2	830.6	827.1	822.4	818.9
7.5°	813.9	816.7	818.5	829.6	836.7	837.4	842.4	843.4	844.9	843.4	841.3
10°	768.3	767.2	772.2	782.5	788.6	791.8	801.4	806.0	810.0	817.8	826.0
12.5°	742.6	744.0	746.2	753.7	759.4	757.9	761.8	765.1	769.7	777.5	789.3
15°	725.5	726.9	729.1	734.8	738.3	736.5	738.7	740.8	744.0	747.9	755.1
17.5°	707.0	709.5	712.0	718.0	721.2	720.9	722.6	723.4	724.4	726.9	731.9
20°	678.1	685.9	690.9	699.1	703.8	703.1	706.3	707.3	708.8	711.2	713.4
22.5°	651.7	653.9	656.4	665.3	673.1	682.7	684.9	687.7	691.3	693.8	695.9
25°	636.8	635.3	636.4	642.5	646.8	647.5	650.7	659.9	669.6	673.8	678.8
27.5°	627.9	626.4	626.1	628.9	629.6	627.9	627.2	630.0	637.1	644.3	659.2
30°	618.2	616.5	615.0	617.5	618.6	616.1	611.5	609.0	613.3	615.0	621.1
32.5°	606.8	605.1	604.3	605.8	606.5	604.3	599.4	596.5	595.8	594.4	595.8
35°	594.0	592.2	591.2	591.5	592.9	591.2	586.9	583.3	581.5	577.6	574.8
37.5°	306.1	433.7	563.0	576.6	578.0	577.6	573.3	569.4	567.6	563.0	561.6
40°	140.0	156.4	234.8	306.8	442.6	562.3	558.4	554.5	551.3	549.8	544.5
42.5°	139.7	140.0	140.4	138.6	171.8	292.6	431.9	539.1	537.0	533.4	529.5
45°	139.7	137.9	139.3	137.2	137.9	137.5	171.4	276.5	492.1	514.2	512.4
47.5°	138.3	137.2	138.6	136.8	134.7	135.8	134.3	136.1	212.4	360.3	493.5
50°	131.8	132.6	135.1	134.7	132.9	134.3	131.8	134.0	132.2	145.0	279.4
52.5°	122.2	123.6	126.1	128.3	129.0	130.8	130.1	130.8	129.4	129.7	130.1
55°	110.8	112.6	114.7	117.9	119.4	122.2	124.4	125.4	127.2	126.9	124.0
57.5°	100.1	101.9	103.7	106.9	110.1	111.5	115.5	117.6	122.2	121.2	120.4
60°	90.2	91.6	93.4	94.1	98.0	100.5	104.1	106.2	112.2	113.7	115.8
62.5°	81.2	82.0	83.4	84.5	86.9	89.4	91.2	94.8	98.0	102.6	105.8
65°	73.0	73.8	74.8	75.5	75.9	79.5	80.5	84.5	85.5	90.5	93.4
67.5°	63.8	65.2	66.6	67.3	68.1	70.2	70.9	72.7	75.2	77.3	80.9
70°	54.2	55.2	56.7	57.7	59.2	60.6	62.7	63.8	65.6	67.0	69.8
72.5°	45.3	46.3	47.0	48.1	49.2	50.2	52.0	54.5	55.9	58.4	59.2
75°	36.7	37.8	38.5	39.2	40.3	41.0	41.7	44.2	45.6	47.7	49.9
77.5°	30.3	30.3	31.0	33.1	32.8	32.8	33.5	34.9	36.0	37.4	39.6
80°	23.5	23.9	24.2	26.0	26.4	26.7	26.4	27.4	28.5	28.9	30.3
82.5°	17.5	17.8	17.8	18.9	20.0	20.0	20.0	20.3	21.4	21.7	22.4
85°	11.8	12.1	12.5	12.8	13.5	13.9	14.3	14.3	15.0	15.3	15.7
87.5°	6.4	7.1	7.5	7.8	8.2	8.6	8.9	9.3	9.6	10.0	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5
2.5°	781.4	779.7	778.6	775.7	775.0	770.4	771.1	770.4	770.4	771.5	775.0
5°	814.9	806.4	804.3	798.2	793.2	784.7	779.3	776.5	772.2	770.4	772.9
7.5°	837.7	831.3	826.0	820.6	813.5	803.5	796.1	787.5	780.4	773.6	771.8
10°	833.8	841.0	841.0	837.7	831.0	821.0	812.1	801.4	788.9	778.2	771.8
12.5°	800.7	813.2	823.1	830.6	837.4	830.6	821.7	813.2	799.3	783.6	771.8
15°	764.3	777.2	789.6	805.3	821.7	828.5	828.1	818.1	805.7	789.3	772.9
17.5°	738.7	747.6	754.4	771.5	791.4	808.9	820.6	821.4	809.2	794.6	773.2
20°	719.4	725.9	731.6	741.2	758.6	780.0	801.8	813.9	811.7	795.7	774.3
22.5°	702.0	706.6	711.2	718.4	732.3	746.2	771.5	796.4	807.1	793.9	773.2
25°	684.5	689.5	693.1	698.1	709.1	720.5	738.3	769.3	793.2	792.5	771.1
27.5°	663.9	670.6	674.9	681.7	689.2	697.7	709.8	739.0	773.2	785.4	765.4
30°	638.9	648.9	655.3	662.8	669.2	676.7	686.3	704.1	746.5	771.5	759.4
32.5°	602.9	620.7	635.0	642.1	649.2	655.7	664.2	679.2	713.7	752.6	752.6
35°	577.3	585.5	598.3	619.0	627.9	634.3	642.1	653.9	676.0	730.1	741.5
37.5°	557.3	560.5	566.9	587.2	604.0	614.3	622.2	629.6	651.4	699.5	727.3
40°	542.3	541.3	540.6	550.2	574.1	590.4	599.4	606.8	623.6	662.8	708.4
42.5°	524.9	523.8	520.3	522.7	534.5	561.9	575.5	583.7	597.6	624.3	687.7
45°	506.7	504.9	503.5	501.0	505.3	520.6	548.4	560.5	568.4	592.2	661.7
47.5°	488.2	485.7	483.9	481.8	479.3	486.4	512.8	534.5	548.0	563.0	630.4
50°	461.8	465.0	462.9	460.4	458.2	456.8	467.9	503.5	520.3	532.4	592.2
52.5°	217.7	423.3	441.1	438.6	435.8	433.3	435.8	462.9	493.2	502.8	546.3
55°	124.0	188.5	392.3	414.8	412.3	408.7	406.6	415.8	461.1	473.9	504.2
57.5°	119.4	119.7	173.2	373.8	387.7	384.5	382.0	384.1	422.6	444.4	467.5
60°	115.5	115.5	115.5	165.3	357.4	358.5	355.3	351.7	368.5	411.2	430.5
62.5°	106.9	109.0	110.1	110.1	163.2	331.0	327.8	326.8	327.5	371.3	393.4
65°	95.9	100.8	103.0	104.4	104.4	171.4	299.7	297.9	295.4	312.2	356.0
67.5°	83.7	88.7	93.4	96.2	96.6	99.8	178.9	268.3	264.8	265.1	316.1
70°	71.3	75.5	80.5	84.8	88.7	90.5	93.4	222.7	234.5	229.5	270.8
72.5°	61.6	63.4	67.0	71.3	75.9	80.2	82.7	88.7	203.5	198.1	206.0
75°	51.3	52.7	55.2	58.1	61.6	66.6	70.9	75.2	108.0	166.1	165.0
77.5°	39.9	42.4	45.3	47.0	48.8	52.4	58.1	62.4	66.6	112.2	132.2
80°	30.6	32.4	33.9	35.6	37.8	40.3	42.4	47.4	52.4	56.3	101.2
82.5°	22.8	23.9	24.9	25.7	26.4	27.8	31.7	33.5	36.7	40.3	47.7
85°	16.0	16.7	17.5	17.8	18.2	18.5	20.0	20.3	23.5	24.2	28.9
87.5°	10.3	10.7	11.4	11.8	11.8	12.1	12.5	12.5	12.5	11.8	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	777.5	777.5
2.5°	777.9	783.6
5°	776.8	784.3
7.5°	774.0	781.1
10°	769.7	778.2
12.5°	765.1	773.2
15°	761.1	767.2
17.5°	756.9	760.4
20°	751.2	754.0
22.5°	745.5	744.0
25°	739.0	735.8
27.5°	730.8	724.8
30°	723.4	712.7
32.5°	716.2	698.8
35°	706.6	684.5
37.5°	696.6	669.9
40°	684.9	653.2
42.5°	672.4	636.4
45°	656.7	620.4
47.5°	642.8	601.1
50°	623.6	580.5
52.5°	600.1	561.2
55°	572.3	537.7
57.5°	542.3	513.1
60°	510.3	485.0
62.5°	471.4	455.8
65°	425.8	422.3
67.5°	366.3	385.2
70°	300.4	342.8
72.5°	251.2	297.9
75°	206.0	247.7
77.5°	163.2	194.2
80°	101.9	142.2
82.5°	68.4	93.4
85°	41.3	44.5
87.5°	16.0	16.4
90°	0.0	0.0

(END OF REPORT)