

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-LD5-33SL-LW-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 (P33520)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-33SL-LW-UNV-L935-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

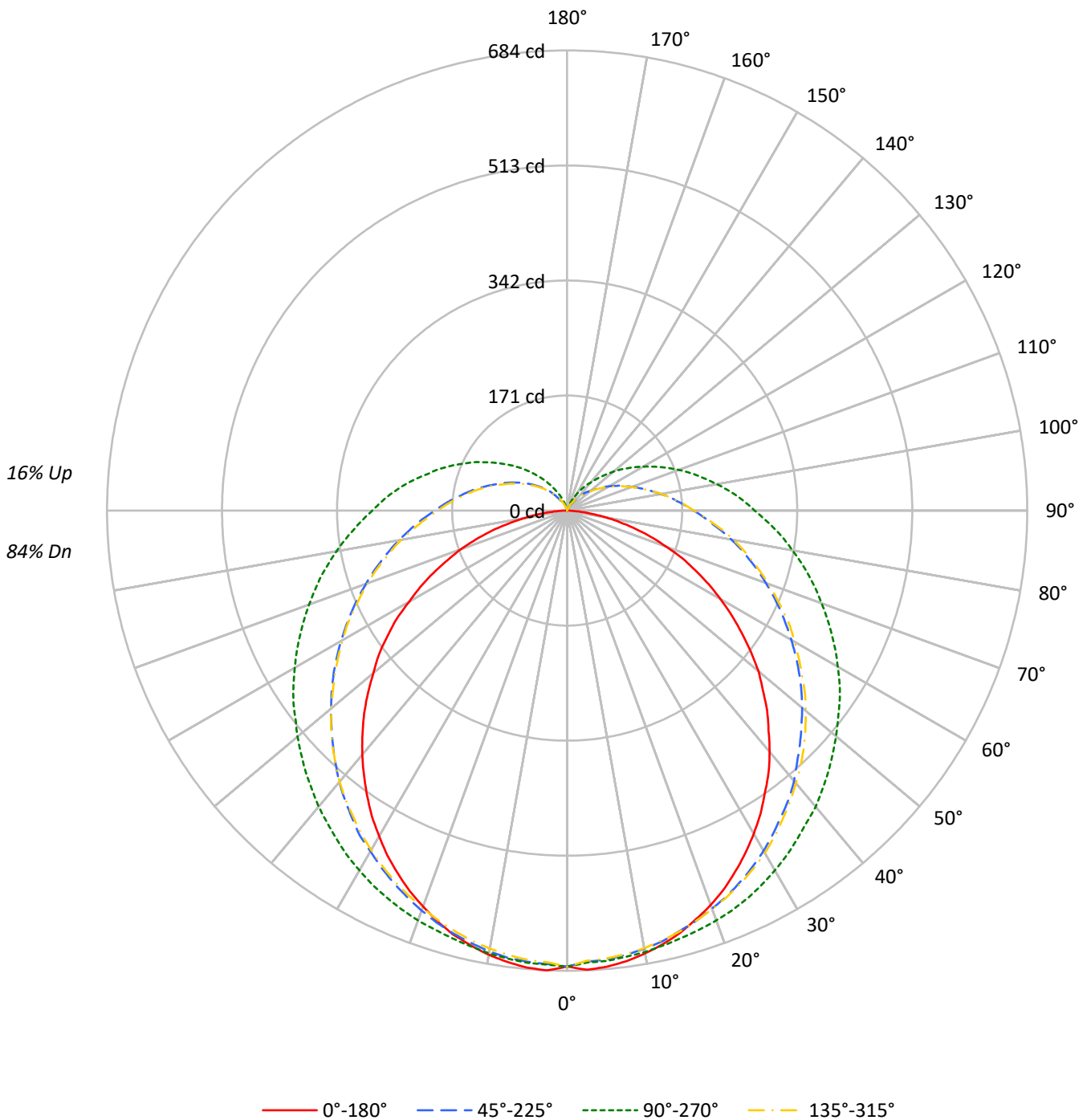
Lumens per Lamp: N/A  
Luminaire Lumens: 2944.0 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 28  
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



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	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°	5476	5476	5476	5476
5°	5505	5277	5516	5300
10°	5454	5127	5472	5143
15°	5390	4999	5414	5004
20°	5306	4905	5325	4905
25°	5201	4822	5233	4816
30°	5084	4736	5124	4736
35°	4948	4657	5003	4663
40°	4813	4610	4871	4610
45°	4658	4562	4729	4568
50°	4497	4532	4557	4545
55°	4271	4536	4406	4557
60°	4032	4550	4164	4579
65°	3765	4597	3932	4642
70°	3390	4680	3656	4747
75°	2958	4834	3238	4926
80°	2289	5060	2601	5177
85°	1366	5424	1708	5575



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.2	2.2
10°-20°	184.5	6.3
20°-30°	282.9	9.6
30°-40°	349.0	11.9
40°-50°	378.6	12.9
50°-60°	373.1	12.7
60°-70°	337.4	11.5
70°-80°	281.1	9.5
80°-90°	217.7	7.4
90°-100°	165.1	5.6
100°-110°	122.2	4.1
110°-120°	85.0	2.9
120°-130°	54.2	1.8
130°-140°	30.4	1.0
140°-150°	13.9	0.5
150°-160°	4.3	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	531.5	18.1
0°-40°	880.5	29.9
0°-60°	1632.2	55.4
0°-90°	2468.4	83.8
90°-120°	372.3	12.6
90°-150°	470.8	16.0
90°-180°	476.0	16.2
0°-180°	2944.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	678	678	678	678	678	
5°	680	672	682	675	680	65
15°	650	658	653	658	650	183
25°	592	635	595	635	592	273
35°	512	596	518	597	512	321
45°	420	549	427	550	420	324
55°	317	495	327	497	317	283
65°	210	434	219	438	210	208
75°	106	372	116	379	106	112
85°	20	310	25	318	20	24
90°	1	279	1	290	1	1
95°	1	253	1	265	1	1
105°	1	201	1	213	1	1
115°	1	153	1	166	1	1
125°	1	110	1	122	1	1
135°	1	72	1	84	1	1
145°	1	42	1	51	1	0
155°	1	17	1	24	1	0
165°	1	3	1	4	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-33SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6
2.5°	683.3	683.3	682.6	681.2	681.9	684.1	682.6	679.1	676.9	671.2	672.6
5°	680.5	680.5	679.8	678.3	679.1	681.9	680.5	677.6	674.8	669.8	671.9
7.5°	675.5	675.5	674.8	673.3	674.8	677.6	676.2	673.3	671.2	666.2	668.3
10°	668.3	669.0	668.3	666.2	669.0	671.9	671.2	667.6	665.5	661.2	663.3
12.5°	659.8	660.5	659.8	659.0	660.5	664.8	663.3	660.5	659.0	655.5	657.6
15°	649.7	650.5	649.0	649.0	650.5	654.7	654.7	651.9	650.5	646.9	651.2
17.5°	636.9	637.6	636.9	636.9	638.3	642.6	643.3	641.9	640.5	639.0	643.3
20°	624.0	623.3	623.3	622.6	625.4	631.9	631.2	631.2	629.7	629.7	634.7
22.5°	609.0	609.0	608.3	608.3	611.9	617.6	617.6	619.0	617.6	620.4	624.7
25°	591.8	592.6	591.8	593.3	596.1	602.6	603.3	605.4	606.1	609.0	614.0
27.5°	574.0	574.7	574.0	575.4	580.4	585.4	589.0	591.8	592.6	596.9	603.3
30°	554.7	554.7	555.4	556.8	562.5	570.4	573.3	576.8	576.8	584.0	590.4
32.5°	534.7	534.7	534.7	537.5	544.0	553.2	556.8	561.1	562.5	569.7	576.8
35°	512.5	513.2	513.2	515.4	523.9	533.2	538.2	543.2	546.1	554.7	561.8
37.5°	491.8	493.2	491.1	493.9	506.1	513.9	519.7	524.7	529.7	541.1	546.8
40°	468.2	469.6	468.9	474.6	484.6	494.6	501.1	506.1	513.2	524.7	531.1
42.5°	443.2	444.6	446.0	452.5	463.2	473.2	481.1	487.5	496.1	506.1	516.8
45°	420.3	420.3	422.4	430.3	441.7	452.5	461.8	468.9	478.9	489.6	500.4
47.5°	394.6	395.3	398.1	407.4	419.6	432.4	441.0	450.3	461.0	472.5	484.6
50°	371.0	371.0	375.3	385.3	396.7	411.0	420.3	431.0	442.5	456.0	468.2
52.5°	343.8	345.2	351.7	361.0	376.0	388.8	399.6	411.0	424.6	438.9	452.5
55°	316.7	319.5	324.5	337.4	353.1	365.3	378.1	392.4	405.3	421.0	436.7
57.5°	290.2	292.3	300.2	313.1	329.5	344.5	358.1	371.7	387.4	403.1	419.6
60°	263.0	265.9	275.2	288.1	305.9	321.7	337.4	351.7	368.1	384.6	401.7
62.5°	237.3	239.5	250.2	265.2	283.1	300.2	315.9	333.1	351.0	366.7	383.8
65°	210.1	213.7	225.9	239.5	260.2	277.3	295.2	313.8	332.4	349.5	366.0
67.5°	185.1	187.3	200.1	215.9	236.6	255.9	274.5	294.5	313.8	331.7	348.1
70°	155.8	163.0	175.8	192.3	214.4	234.5	254.5	275.2	295.9	314.5	330.2
72.5°	131.5	137.2	151.5	169.4	190.8	214.4	235.2	257.3	278.1	297.4	313.8
75°	105.8	111.5	127.9	148.0	170.1	195.1	216.6	239.5	260.9	280.2	297.4
77.5°	80.8	87.9	105.8	126.5	150.8	176.6	198.7	221.6	243.7	264.5	281.6
80°	57.9	65.8	85.1	108.6	132.2	158.0	182.3	205.1	227.3	248.0	265.9
82.5°	37.2	45.7	66.5	90.1	115.1	140.8	165.8	188.7	210.9	231.6	250.2
85°	20.0	29.3	50.8	74.3	99.4	125.1	150.1	174.4	195.9	215.2	235.2
87.5°	5.7	17.2	37.9	61.5	87.2	110.8	135.1	159.4	180.8	201.6	219.4
90°	0.7	10.0	28.6	50.8	75.8	98.6	122.9	145.8	167.3	188.0	205.9
92.5°	0.7	6.4	22.2	42.2	65.0	88.6	112.9	135.1	155.1	175.8	193.7
95°	0.7	5.0	17.9	35.7	57.2	79.3	102.2	123.7	144.4	163.7	181.6
97.5°	0.7	3.6	14.3	30.7	50.0	70.8	92.9	114.4	134.4	153.0	169.4
100°	0.7	2.9	11.4	26.4	43.6	63.6	83.6	104.4	123.7	141.5	158.7
102.5°	0.7	2.1	10.0	22.2	38.6	56.5	75.8	95.1	113.7	130.8	148.0
105°	0.7	2.1	8.6	19.3	34.3	50.8	68.6	87.2	104.4	120.8	136.5
107.5°	0.7	1.4	7.1	16.4	30.0	45.7	62.2	80.1	95.8	111.5	126.5
110°	0.7	1.4	5.7	15.0	26.4	40.7	56.5	72.9	87.9	102.9	117.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.7	1.4	5.0	12.9	22.9	36.5	50.8	65.8	80.1	95.1	107.9
115°	0.7	1.4	4.3	11.4	21.4	31.5	45.7	59.3	73.6	87.2	99.4
117.5°	0.7	1.4	3.6	9.3	18.6	28.6	40.0	53.6	66.5	79.3	90.8
120°	0.7	1.4	2.9	8.6	16.4	25.7	35.7	47.9	60.0	72.2	84.3
122.5°	0.7	0.7	2.9	7.1	14.3	22.9	32.9	42.2	53.6	65.0	75.8
125°	0.7	0.7	2.9	6.4	12.2	20.7	29.3	37.9	47.9	57.9	67.2
127.5°	0.7	0.7	2.1	5.0	10.7	17.9	25.7	35.0	42.2	51.5	60.8
130°	0.7	0.7	2.1	4.3	9.3	15.0	22.9	30.7	39.3	45.7	53.6
132.5°	0.7	0.7	2.1	3.6	7.1	12.2	19.3	26.4	34.3	41.5	47.9
135°	0.7	0.7	1.4	2.9	5.7	10.0	15.7	22.2	30.0	37.2	43.6
137.5°	0.7	0.7	1.4	2.9	4.3	8.6	12.2	17.9	25.0	31.5	37.9
140°	0.7	0.7	1.4	2.1	3.6	6.4	10.0	14.3	20.0	25.7	32.9
142.5°	0.7	0.7	0.7	2.1	2.9	5.0	7.9	11.4	15.7	20.7	26.4
145°	0.7	0.7	0.7	2.1	2.9	3.6	6.4	9.3	12.2	15.7	20.7
147.5°	0.7	0.7	0.7	1.4	2.1	2.9	5.0	7.1	9.3	12.2	15.0
150°	0.7	0.7	0.7	1.4	2.1	2.9	3.6	5.0	7.1	10.0	12.2
152.5°	0.7	0.7	0.7	1.4	1.4	2.1	2.9	3.6	5.0	7.1	8.6
155°	0.7	0.7	0.7	0.7	1.4	2.1	2.9	2.9	3.6	5.0	6.4
157.5°	0.7	0.7	0.7	0.7	1.4	1.4	2.1	2.1	2.9	2.9	4.3
160°	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.1	2.1	2.1	2.1
162.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	2.1	2.1
165°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6
2.5°	672.6	673.3	675.5	675.5	674.0	674.0	673.3	672.6	673.3	674.8	674.8
5°	671.2	671.9	674.0	674.8	673.3	672.6	672.6	671.9	672.6	674.0	674.0
7.5°	668.3	669.0	671.2	671.9	670.5	670.5	669.8	669.0	670.5	671.2	671.2
10°	664.0	664.8	667.6	668.3	667.6	666.9	666.9	666.2	666.9	668.3	668.3
12.5°	658.3	659.8	663.3	663.3	663.3	662.6	662.6	661.9	662.6	664.0	663.3
15°	651.9	654.7	657.6	659.0	659.0	659.0	658.3	657.6	659.0	659.8	659.0
17.5°	644.7	648.3	652.6	654.0	654.0	654.7	654.0	653.3	654.7	654.7	654.0
20°	637.6	641.2	645.5	646.9	648.3	649.0	649.0	648.3	649.0	649.7	649.0
22.5°	628.3	632.6	637.6	639.7	641.2	642.6	642.6	642.6	643.3	644.0	642.6
25°	618.3	623.3	629.0	631.2	634.0	634.7	635.4	635.4	636.2	636.9	634.7
27.5°	607.6	613.3	619.0	622.6	624.7	626.2	626.2	626.9	627.6	628.3	626.2
30°	594.7	603.3	608.3	611.1	614.0	616.2	616.9	617.6	618.3	619.0	616.9
32.5°	583.3	590.4	596.9	600.4	604.0	606.9	607.6	607.6	609.0	609.0	606.9
35°	569.7	578.3	584.7	588.3	592.6	594.7	596.1	596.1	597.6	597.6	595.4
37.5°	556.1	564.7	571.8	576.1	581.1	584.0	584.7	584.7	586.1	586.1	583.3
40°	541.8	551.1	559.0	564.0	568.3	571.8	572.5	574.7	574.7	574.0	571.1
42.5°	527.5	536.1	544.7	550.4	556.1	559.7	561.1	561.8	561.8	561.1	559.0
45°	511.8	521.8	529.7	536.8	542.5	546.1	548.2	549.0	549.0	547.5	545.4
47.5°	496.8	506.8	514.6	522.5	528.2	532.5	534.7	535.4	534.7	533.9	531.8
50°	481.1	492.5	500.4	508.2	513.9	517.5	521.1	521.8	521.1	520.4	516.1
52.5°	464.6	476.8	485.3	493.2	499.6	503.9	506.8	507.5	507.5	506.1	503.2
55°	448.2	458.9	469.6	478.2	485.3	489.6	493.2	494.6	493.2	491.8	488.2
57.5°	433.2	443.2	453.9	463.2	470.3	476.1	478.9	480.3	478.9	476.8	473.2
60°	415.3	426.0	438.2	446.7	454.6	460.3	461.8	464.6	463.2	461.0	457.5
62.5°	398.1	411.0	421.7	432.4	438.9	445.3	448.2	449.6	448.2	446.0	442.5
65°	380.3	394.6	405.3	416.0	423.2	429.6	433.2	433.9	432.4	430.3	426.7
67.5°	363.8	377.4	388.8	400.3	406.7	413.1	416.7	418.2	416.7	413.9	410.3
70°	347.4	361.0	374.6	383.1	391.0	398.1	400.3	402.4	401.0	398.1	393.9
72.5°	330.9	345.2	358.8	367.4	376.0	382.4	385.3	387.4	386.0	383.1	378.1
75°	313.8	328.8	342.4	351.7	360.3	366.7	369.5	371.7	370.3	367.4	361.7
77.5°	298.1	313.1	325.9	336.0	344.5	350.2	355.3	356.0	354.5	351.7	346.0
80°	281.6	296.6	310.2	320.2	328.8	334.5	338.1	340.2	338.8	336.0	330.2
82.5°	267.3	280.9	294.5	304.5	313.1	320.2	323.1	325.2	324.5	320.2	315.9
85°	251.6	267.3	278.1	288.8	297.4	304.5	306.6	309.5	308.8	305.2	299.5
87.5°	235.9	251.6	264.5	275.2	283.1	288.8	292.3	293.8	293.1	289.5	283.1
90°	223.0	237.3	250.2	261.6	268.0	274.5	278.1	278.8	278.8	274.5	269.5
92.5°	210.9	224.4	237.3	248.0	255.9	261.6	264.5	265.9	265.2	261.6	255.9
95°	197.3	212.3	224.4	235.2	243.0	248.7	251.6	253.0	252.3	248.7	243.0
97.5°	185.8	199.4	211.6	221.6	229.4	235.2	238.0	239.5	239.5	235.9	230.2
100°	174.4	188.0	199.4	209.4	216.6	222.3	225.2	225.9	225.2	222.3	216.6
102.5°	163.0	175.8	187.3	196.6	204.4	209.4	212.3	213.0	213.0	209.4	203.7
105°	151.5	164.4	175.1	185.1	191.6	196.6	198.7	200.9	200.1	197.3	191.6
107.5°	140.8	153.7	163.7	173.0	179.4	184.4	186.6	188.7	188.0	185.1	179.4
110°	130.8	143.0	152.3	161.5	167.3	172.3	175.8	176.6	175.1	172.3	167.3





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-33SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	121.5	132.2	141.5	150.1	156.5	160.1	163.0	164.4	163.0	160.1	156.5
115°	111.5	122.2	131.5	139.4	145.1	149.4	151.5	153.0	151.5	148.7	145.1
117.5°	102.2	112.2	121.5	129.4	134.4	138.0	140.1	141.5	140.1	138.0	134.4
120°	94.4	102.9	111.5	118.7	124.4	127.2	129.4	130.8	130.1	127.2	123.7
122.5°	85.1	94.4	102.2	109.4	114.4	117.2	118.7	120.1	119.4	117.2	113.7
125°	77.2	85.1	92.9	99.4	104.4	107.2	108.6	110.1	109.4	107.2	102.9
127.5°	68.6	77.2	83.6	90.1	93.6	97.9	98.6	100.1	99.4	97.2	93.6
130°	62.2	68.6	75.1	80.8	85.1	87.9	89.3	90.1	88.6	87.2	83.6
132.5°	54.3	61.5	67.2	72.2	75.1	77.9	79.3	80.1	80.1	77.9	75.1
135°	48.6	53.6	58.6	63.6	66.5	69.3	70.8	71.5	70.8	69.3	66.5
137.5°	43.6	47.9	51.5	55.8	59.3	60.8	62.2	62.2	61.5	60.8	58.6
140°	37.9	42.9	46.5	49.3	52.2	52.9	54.3	54.3	53.6	52.9	51.5
142.5°	32.2	36.5	40.0	43.6	45.7	47.2	47.9	48.6	47.9	47.2	45.0
145°	25.7	30.7	34.3	36.5	39.3	40.0	40.7	41.5	40.7	40.0	37.9
147.5°	20.0	24.3	27.9	30.7	32.9	33.6	34.3	35.0	34.3	32.9	32.2
150°	14.3	17.9	22.2	25.0	26.4	27.9	27.9	27.9	28.6	27.2	25.7
152.5°	11.4	12.9	15.7	18.6	20.7	21.4	22.2	22.2	21.4	21.4	20.0
155°	7.9	9.3	11.4	13.6	15.7	16.4	17.2	17.2	16.4	16.4	15.7
157.5°	5.0	6.4	7.9	9.3	11.4	12.2	12.9	12.9	12.9	12.2	11.4
160°	2.9	3.6	4.3	5.7	7.1	7.9	8.6	8.6	8.6	8.6	7.9
162.5°	2.1	2.1	2.1	2.9	3.6	4.3	5.0	5.0	5.0	5.0	4.3
165°	1.4	1.4	1.4	1.4	1.4	2.1	2.9	2.9	2.9	2.9	2.9
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: P#

CATALOG NUMBER: 4SNLED-LD5-33SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6
2.5°	674.0	674.0	674.8	673.3	669.0	669.8	669.8	672.6	674.0	674.8	678.3
5°	672.6	672.6	674.0	671.9	668.3	668.3	668.3	671.2	671.9	673.3	676.2
7.5°	670.5	670.5	671.2	669.0	664.8	664.8	664.0	666.9	668.3	669.0	671.9
10°	666.9	666.9	667.6	665.5	660.5	660.5	659.8	661.9	662.6	664.0	666.2
12.5°	661.9	661.9	661.9	659.8	654.7	654.0	653.3	655.5	655.5	656.2	658.3
15°	657.6	656.2	656.2	654.0	649.0	647.6	646.2	646.9	648.3	647.6	649.0
17.5°	652.6	651.2	649.7	647.6	641.2	639.0	637.6	638.3	637.6	636.9	638.3
20°	646.9	644.7	644.0	640.5	634.0	630.4	627.6	626.2	626.9	624.7	625.4
22.5°	640.5	637.6	636.2	631.9	625.4	621.2	617.6	614.7	614.0	611.1	611.9
25°	632.6	629.0	626.9	623.3	616.2	611.1	606.9	602.6	600.4	596.9	596.1
27.5°	623.3	619.7	616.9	613.3	606.1	599.7	594.7	589.0	586.1	581.8	579.7
30°	614.0	609.7	605.4	602.6	594.7	587.6	579.7	574.7	570.4	565.4	561.8
32.5°	602.6	598.3	594.0	589.7	582.6	574.0	567.5	559.7	554.7	549.0	544.7
35°	591.1	585.4	581.1	575.4	569.0	559.0	551.1	543.2	536.8	530.4	525.4
37.5°	578.3	574.0	567.5	562.5	554.7	544.7	536.1	526.1	520.4	511.8	505.4
40°	566.1	561.1	554.7	548.2	540.4	528.9	519.7	508.2	501.8	491.8	485.3
42.5°	554.0	546.8	540.4	533.2	524.7	513.9	502.5	491.1	482.5	473.2	463.9
45°	540.4	532.5	524.7	516.8	508.2	497.5	485.3	473.2	462.5	453.9	442.5
47.5°	526.1	518.2	508.9	500.4	491.1	480.3	467.5	454.6	443.2	433.2	421.0
50°	511.8	503.9	493.9	484.6	473.9	463.2	449.6	434.6	422.4	409.6	398.9
52.5°	496.8	488.9	479.6	467.5	456.0	445.3	431.0	415.3	401.7	391.0	377.4
55°	481.8	473.9	463.2	451.0	439.6	426.0	412.4	396.7	381.7	368.8	355.3
57.5°	466.0	458.9	446.7	436.7	422.4	408.1	393.9	378.8	362.4	347.4	331.7
60°	450.3	442.5	431.0	418.9	404.6	390.3	375.3	358.8	341.7	325.2	310.9
62.5°	436.0	426.0	415.3	402.4	387.4	373.8	356.7	338.8	321.7	304.5	287.3
65°	419.6	408.9	398.9	386.0	370.3	354.5	337.4	319.5	300.9	282.3	265.2
67.5°	403.1	392.4	381.7	368.8	352.4	336.0	318.1	300.2	279.5	261.6	241.6
70°	386.7	378.1	364.5	351.0	336.0	318.1	300.2	280.9	259.5	240.2	219.4
72.5°	370.3	361.7	348.1	333.8	319.5	300.9	281.6	262.3	242.3	220.2	198.0
75°	354.5	343.8	331.7	318.1	303.1	283.8	264.5	244.5	220.9	200.1	177.3
77.5°	339.5	329.5	317.4	302.4	285.9	267.3	247.3	226.6	203.0	180.8	155.8
80°	323.1	313.1	300.9	285.9	269.5	251.6	230.2	208.7	185.8	161.5	135.8
82.5°	307.4	298.1	284.5	270.9	253.0	235.2	213.7	192.3	168.0	144.4	119.4
85°	290.9	281.6	268.8	254.5	237.3	218.0	198.0	176.6	152.3	127.9	102.9
87.5°	276.6	265.9	253.0	238.7	221.6	203.0	183.7	160.8	137.2	113.7	87.9
90°	261.6	251.6	238.7	224.4	207.3	188.7	168.7	147.2	124.4	100.1	75.8
92.5°	248.7	238.0	225.9	211.6	194.4	176.6	156.5	135.1	112.9	89.3	65.8
95°	235.9	225.2	213.7	199.4	182.3	164.4	144.4	123.7	102.2	79.3	57.2
97.5°	221.6	212.3	200.9	187.3	170.1	153.0	133.7	113.7	92.9	70.8	50.0
100°	210.1	199.4	188.7	174.4	158.7	142.2	122.9	103.6	83.6	62.9	43.6
102.5°	197.3	187.3	176.6	163.0	147.2	130.8	112.9	94.4	75.8	56.5	37.9
105°	185.1	175.8	164.4	151.5	136.5	120.8	103.6	86.5	68.6	50.0	33.6
107.5°	173.0	163.7	153.0	140.8	126.5	110.8	95.1	77.9	61.5	45.0	30.0
110°	160.8	152.3	142.2	130.1	116.5	102.2	87.2	71.5	55.0	40.0	26.4



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-33SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	150.1	141.5	131.5	120.1	107.2	93.6	79.3	64.3	49.3	35.7	22.9
115°	139.4	131.5	121.5	111.5	98.6	85.8	72.2	57.9	44.3	32.2	20.0
117.5°	128.7	120.8	111.5	101.5	90.1	77.9	65.0	51.5	40.0	28.6	17.9
120°	117.9	110.8	102.2	92.9	82.9	70.8	57.9	46.5	35.7	25.0	15.7
122.5°	107.9	101.5	93.6	85.1	74.3	62.9	52.2	42.2	32.2	22.2	12.9
125°	98.6	92.2	85.1	76.5	66.5	56.5	47.2	37.9	27.9	19.3	10.7
127.5°	89.3	82.9	75.8	67.9	60.0	50.8	42.2	33.6	25.0	17.2	9.3
130°	80.1	74.3	67.9	61.5	53.6	45.0	37.9	29.3	21.4	13.6	7.9
132.5°	70.8	66.5	60.8	54.3	47.2	40.7	32.9	25.7	18.6	12.2	7.1
135°	62.9	58.6	53.6	47.9	42.2	35.7	28.6	22.2	15.7	10.0	5.7
137.5°	55.8	52.2	47.2	42.2	37.2	30.7	25.0	18.6	12.9	8.6	4.3
140°	49.3	45.7	41.5	36.5	32.2	26.4	20.7	15.0	11.4	7.1	3.6
142.5°	42.9	39.3	35.7	31.5	27.2	22.2	17.2	12.9	9.3	5.7	3.6
145°	36.5	33.6	30.0	26.4	22.2	17.9	14.3	10.7	7.1	4.3	2.9
147.5°	30.0	27.9	24.3	21.4	17.9	14.3	11.4	8.6	5.7	3.6	2.1
150°	24.3	22.2	19.3	16.4	14.3	11.4	9.3	6.4	4.3	3.6	2.1
152.5°	18.6	17.2	15.0	13.6	11.4	8.6	6.4	5.0	3.6	2.9	1.4
155°	15.0	13.6	12.2	10.0	8.6	6.4	5.0	3.6	2.9	2.1	1.4
157.5°	10.7	10.0	8.6	7.1	5.7	4.3	3.6	3.6	2.1	1.4	0.7
160°	7.1	6.4	5.7	4.3	3.6	3.6	2.9	2.1	1.4	1.4	0.7
162.5°	4.3	3.6	3.6	3.6	2.9	2.9	2.1	1.4	1.4	0.7	0.7
165°	2.9	2.9	2.9	2.1	2.1	2.1	1.4	0.7	0.7	0.7	0.7
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: P#

CATALOG NUMBER: 4SNLED-LD5-33SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6
2.5°	678.3	676.2	679.1	684.1	684.8	684.1	682.6	684.8	687.6	686.9	681.9
5°	676.9	674.0	676.9	681.9	681.9	681.2	680.5	682.6	685.5	684.8	680.5
7.5°	672.6	669.8	672.6	676.9	677.6	676.2	676.2	678.3	681.2	680.5	676.9
10°	666.9	664.0	665.5	670.5	671.9	670.5	670.5	672.6	676.2	675.5	671.2
12.5°	658.3	656.2	657.6	661.9	663.3	662.6	661.9	664.8	668.3	668.3	664.0
15°	649.0	646.2	647.6	652.6	653.3	651.9	652.6	654.7	659.0	659.0	655.5
17.5°	638.3	634.7	636.9	640.5	641.2	641.2	641.2	644.0	649.0	648.3	645.5
20°	626.2	621.2	622.6	626.2	627.6	627.6	627.6	632.6	636.2	636.2	633.3
22.5°	611.9	608.3	608.3	611.9	614.0	613.3	613.3	617.6	622.6	621.9	621.9
25°	595.4	592.6	591.1	595.4	596.1	596.9	598.3	602.6	608.3	608.3	609.0
27.5°	578.3	575.4	574.7	578.3	579.0	579.7	581.1	586.1	591.8	592.6	594.0
30°	561.8	557.5	556.1	559.0	560.4	561.1	561.1	569.0	574.0	576.1	579.0
32.5°	542.5	538.2	534.7	539.7	540.4	541.8	542.5	550.4	556.1	559.7	564.0
35°	523.2	516.1	514.6	518.2	519.7	520.4	521.8	530.4	538.2	541.1	546.8
37.5°	501.8	496.8	492.5	496.1	497.5	498.2	502.5	510.4	518.2	522.5	528.2
40°	481.8	475.3	471.8	473.9	475.3	476.1	481.1	489.6	498.9	503.9	511.1
42.5°	459.6	451.0	448.2	450.3	451.0	453.2	457.5	468.9	478.2	485.3	491.1
45°	437.5	431.0	424.6	426.7	427.4	428.9	435.3	447.5	457.5	466.0	472.5
47.5°	414.6	406.7	400.3	401.7	404.6	405.3	412.4	426.7	436.0	445.3	453.9
50°	391.7	381.0	376.0	376.0	377.4	381.0	390.3	404.6	414.6	425.3	434.6
52.5°	368.1	358.1	352.4	353.1	354.5	358.8	367.4	381.7	393.1	404.6	416.0
55°	344.5	333.8	328.1	326.7	328.1	333.8	343.8	358.8	370.3	383.8	396.0
57.5°	320.9	308.1	303.1	300.9	302.4	309.5	319.5	335.2	349.5	362.4	376.7
60°	295.2	285.2	276.6	271.6	275.2	284.5	295.2	311.6	326.7	341.0	356.7
62.5°	273.1	260.2	250.9	245.9	249.5	257.3	272.3	288.1	304.5	320.9	336.7
65°	248.0	235.2	224.4	219.4	223.0	232.3	247.3	264.5	282.3	298.8	317.4
67.5°	223.7	210.1	197.3	192.3	196.6	206.6	223.0	242.3	261.6	278.8	298.8
70°	200.1	185.1	171.5	168.0	170.8	184.4	200.1	219.4	239.5	259.5	280.2
72.5°	178.7	160.1	145.8	141.5	145.1	160.1	178.0	198.0	219.4	240.9	263.0
75°	153.7	136.5	120.8	115.8	120.1	133.7	155.8	177.3	200.1	223.0	243.7
77.5°	133.7	113.7	97.2	89.3	96.5	113.7	135.1	158.0	181.6	205.1	228.7
80°	112.9	92.2	74.3	65.8	73.6	92.2	113.7	138.7	165.1	188.7	210.1
82.5°	94.4	72.2	53.6	44.3	52.9	73.6	97.2	122.2	148.0	171.5	196.6
85°	77.2	54.3	35.0	25.0	37.2	55.8	80.8	106.5	133.0	157.3	181.6
87.5°	62.9	40.7	21.4	10.7	22.9	43.6	67.2	92.9	119.4	143.7	166.5
90°	51.5	29.3	11.4	1.4	13.6	32.9	55.8	80.8	105.8	130.8	153.7
92.5°	42.2	22.2	6.4	0.7	8.6	26.4	47.9	71.5	95.8	120.1	142.2
95°	35.0	17.2	4.3	0.7	6.4	20.7	40.7	63.6	86.5	110.1	132.2
97.5°	30.0	14.3	3.6	0.7	5.0	17.9	35.0	56.5	78.6	100.8	122.2
100°	25.7	11.4	2.9	0.7	4.3	15.0	30.7	50.0	70.8	92.2	112.9
102.5°	22.2	9.3	2.1	0.7	3.6	12.9	27.2	45.0	63.6	84.3	104.4
105°	19.3	7.9	2.1	0.7	2.9	11.4	24.3	40.0	58.6	77.2	96.5
107.5°	16.4	6.4	1.4	0.7	2.1	9.3	21.4	36.5	52.9	70.8	88.6
110°	14.3	5.7	1.4	0.7	2.1	8.6	18.6	32.9	47.9	64.3	81.5



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-33SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	12.2	4.3	1.4	0.7	1.4	7.1	16.4	29.3	43.6	58.6	75.1
115°	10.7	3.6	0.7	0.7	1.4	6.4	15.0	26.4	39.3	53.6	68.6
117.5°	8.6	2.9	0.7	0.7	0.7	5.0	12.9	23.6	35.7	49.3	62.9
120°	7.1	2.9	0.7	0.7	0.7	4.3	11.4	20.7	32.2	44.3	57.2
122.5°	6.4	2.1	0.7	0.7	0.7	3.6	10.0	18.6	28.6	40.0	52.2
125°	5.7	2.1	0.7	0.7	0.7	2.9	8.6	16.4	25.7	35.7	47.2
127.5°	4.3	2.1	0.7	0.7	0.7	2.1	7.9	14.3	22.9	32.2	42.2
130°	3.6	1.4	0.7	0.7	0.7	2.1	6.4	12.9	20.0	28.6	37.9
132.5°	2.9	1.4	0.7	0.7	0.7	1.4	5.0	10.0	17.2	25.0	33.6
135°	2.9	1.4	0.7	0.7	0.7	1.4	3.6	8.6	14.3	21.4	28.6
137.5°	2.9	0.7	0.7	0.7	0.7	1.4	2.9	6.4	11.4	17.2	23.6
140°	2.1	0.7	0.7	0.7	0.7	0.7	2.1	5.0	9.3	14.3	20.0
142.5°	2.1	0.7	0.7	0.7	0.7	0.7	2.1	3.6	7.1	11.4	15.7
145°	1.4	0.7	0.7	0.7	0.7	0.7	1.4	2.9	5.7	8.6	12.9
147.5°	1.4	0.7	0.7	0.7	0.7	0.7	1.4	2.1	4.3	7.1	10.0
150°	1.4	0.7	0.7	0.7	0.7	0.7	1.4	2.1	2.9	5.0	7.9
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.1	3.6	5.0
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	2.9	3.6
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.1	2.9
160°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.1
162.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
165°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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: P#

CATALOG NUMBER: 4SNLED-LD5-33SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6
2.5°	679.8	674.8	676.2	675.5	676.9	679.1	679.1	678.3	678.3	676.9	675.5
5°	678.3	673.3	675.5	674.8	676.2	678.3	678.3	677.6	677.6	675.5	674.8
7.5°	674.0	670.5	671.9	671.9	673.3	675.5	675.5	674.8	674.8	672.6	671.9
10°	669.8	665.5	667.6	667.6	669.0	671.9	671.9	671.2	671.2	669.0	668.3
12.5°	662.6	658.3	661.9	662.6	664.0	666.9	666.2	666.2	666.2	664.0	663.3
15°	654.0	651.2	654.7	655.5	657.6	661.2	661.2	661.2	661.2	659.0	658.3
17.5°	644.7	642.6	646.2	647.6	650.5	654.0	654.0	654.7	655.5	654.0	653.3
20°	634.0	632.6	636.2	639.0	643.3	646.9	648.3	649.0	650.5	649.0	648.3
22.5°	621.9	621.9	626.9	629.7	634.7	638.3	640.5	642.6	644.0	642.6	641.9
25°	608.3	610.4	615.4	620.4	626.2	629.7	631.9	634.7	636.2	635.4	634.7
27.5°	595.4	598.3	604.7	609.7	614.7	620.4	622.6	626.2	627.6	627.6	626.9
30°	580.4	584.7	591.8	597.6	604.0	609.7	612.6	616.2	618.3	616.9	617.6
32.5°	566.1	573.3	579.0	585.4	592.6	598.3	601.9	606.1	608.3	607.6	608.3
35°	550.4	557.5	565.4	571.8	580.4	586.1	591.1	594.7	597.6	596.9	596.9
37.5°	533.2	542.5	550.4	559.0	566.8	573.3	578.3	582.6	585.4	585.4	585.4
40°	516.8	526.8	534.7	544.7	554.7	560.4	566.1	570.4	573.3	574.0	574.7
42.5°	498.9	509.6	518.9	529.7	539.7	546.8	553.2	558.3	561.1	562.5	561.8
45°	482.5	492.5	503.2	515.4	524.7	531.8	539.7	545.4	548.2	549.0	549.7
47.5°	463.9	475.3	487.5	499.6	508.9	518.2	525.4	531.1	533.9	536.1	536.1
50°	446.0	458.2	471.8	484.6	494.6	503.9	511.1	517.5	521.1	522.5	523.2
52.5°	429.6	441.0	455.3	468.2	478.2	487.5	496.8	503.9	507.5	508.9	508.9
55°	409.6	423.9	439.6	451.7	462.5	473.2	482.5	489.6	493.2	495.4	496.8
57.5°	391.0	406.0	422.4	435.3	448.2	458.2	466.8	476.1	478.9	481.8	482.5
60°	373.1	388.1	403.9	418.2	431.0	441.7	451.7	459.6	464.6	466.0	467.5
62.5°	354.5	370.3	386.7	401.0	414.6	427.4	436.7	443.9	449.6	451.7	453.2
65°	336.7	353.1	369.5	384.6	398.9	411.7	421.0	428.2	433.9	437.5	438.2
67.5°	317.4	335.2	352.4	368.1	382.4	396.0	405.3	412.4	418.2	422.4	423.2
70°	299.5	318.1	335.2	352.4	366.7	380.3	390.3	397.4	403.9	406.7	408.1
72.5°	282.3	301.6	319.5	336.7	351.0	364.5	375.3	382.4	388.8	392.4	393.1
75°	265.9	285.2	304.5	320.9	336.0	349.5	360.3	368.1	373.8	377.4	378.8
77.5°	249.5	269.5	288.8	305.2	320.9	334.5	343.8	353.1	358.8	363.1	363.1
80°	233.0	253.8	273.8	290.2	305.9	318.1	328.8	338.1	343.8	348.1	348.1
82.5°	218.7	238.7	258.0	274.5	290.2	303.8	314.5	323.1	329.5	332.4	333.1
85°	202.3	224.4	242.3	260.2	275.2	288.1	298.8	308.1	313.8	316.7	318.1
87.5°	188.7	210.1	229.4	245.2	260.2	273.1	285.2	293.1	298.8	302.4	303.8
90°	175.8	196.6	215.9	231.6	247.3	259.5	270.9	278.8	285.2	288.1	289.5
92.5°	164.4	185.1	203.7	219.4	234.5	248.0	258.8	266.6	272.3	275.2	277.3
95°	153.7	173.7	191.6	208.7	223.0	235.2	246.6	254.5	260.9	263.0	265.2
97.5°	143.0	162.3	180.1	196.6	211.6	223.0	233.7	241.6	246.6	250.2	252.3
100°	133.7	152.3	169.4	185.1	199.4	210.1	221.6	228.7	233.7	236.6	239.5
102.5°	123.7	142.2	158.7	173.7	188.7	198.7	209.4	216.6	220.9	225.9	225.9
105°	115.1	132.2	148.7	163.0	175.8	188.0	197.3	204.4	209.4	213.0	213.0
107.5°	105.8	122.9	138.7	153.7	165.8	177.3	185.8	192.3	198.0	200.1	202.3
110°	98.6	113.7	129.4	143.7	155.1	165.8	174.4	181.6	186.6	188.7	190.1



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-33SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	90.1	105.8	120.1	133.7	145.1	155.1	163.7	169.4	174.4	177.3	178.0
115°	82.9	97.9	110.8	123.7	135.8	144.4	152.3	158.0	163.0	165.1	166.5
117.5°	76.5	90.1	102.9	113.7	125.1	134.4	142.2	147.2	151.5	154.4	155.8
120°	70.0	82.9	94.4	105.1	115.8	124.4	131.5	136.5	141.5	143.7	143.7
122.5°	63.6	75.8	86.5	96.5	106.5	114.4	122.2	126.5	130.8	133.0	133.0
125°	57.9	69.3	79.3	88.6	97.9	105.1	111.5	116.5	120.8	122.2	122.2
127.5°	52.2	62.9	72.2	80.8	88.6	95.8	102.2	107.2	110.8	112.2	112.2
130°	47.2	56.5	65.0	73.6	81.5	87.2	93.6	97.9	100.1	102.2	102.9
132.5°	42.2	50.8	58.6	65.8	73.6	79.3	84.3	88.6	90.8	92.9	93.6
135°	37.2	45.0	52.2	59.3	65.8	71.5	75.8	79.3	82.2	83.6	84.3
137.5°	31.5	40.0	46.5	52.2	59.3	63.6	68.6	70.8	73.6	75.1	75.1
140°	26.4	32.9	40.0	45.7	51.5	55.8	60.0	63.6	65.8	66.5	66.5
142.5°	21.4	27.2	32.9	40.0	45.0	48.6	52.9	55.8	57.2	57.9	58.6
145°	17.2	21.4	26.4	32.9	38.6	42.9	45.0	47.9	49.3	50.0	50.8
147.5°	12.9	17.2	21.4	25.7	31.5	35.7	37.9	40.7	42.2	42.9	42.9
150°	10.0	12.9	15.7	20.0	24.3	29.3	32.2	34.3	35.0	35.7	35.7
152.5°	7.1	10.0	12.2	15.0	17.9	22.2	26.4	27.9	28.6	29.3	29.3
155°	5.0	7.1	8.6	10.7	12.9	16.4	20.0	22.2	22.9	23.6	23.6
157.5°	3.6	5.0	5.7	7.9	9.3	10.7	13.6	17.2	17.9	17.9	17.9
160°	2.1	2.9	3.6	5.0	5.7	7.1	8.6	10.7	12.9	12.9	12.9
162.5°	1.4	2.1	2.1	2.9	2.9	4.3	5.0	5.7	7.9	8.6	8.6
165°	0.7	1.4	1.4	1.4	1.4	1.4	2.1	2.1	3.6	4.3	4.3
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: P#

CATALOG NUMBER: 4SNLED-LD5-33SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6
2.5°	676.2	677.6	676.9	676.9	676.9	678.3	676.9	670.5	671.9	673.3	674.8
5°	675.5	676.2	676.2	675.5	675.5	676.9	675.5	669.0	670.5	671.9	672.6
7.5°	672.6	673.3	673.3	673.3	672.6	674.0	671.9	666.2	666.2	667.6	668.3
10°	669.0	670.5	669.8	669.0	669.0	669.0	667.6	661.2	661.2	661.9	662.6
12.5°	664.8	664.8	664.8	664.0	663.3	663.3	661.9	655.5	654.7	656.2	655.5
15°	659.0	660.5	659.0	658.3	656.9	656.9	654.7	648.3	646.9	647.6	646.9
17.5°	654.0	654.7	653.3	651.9	650.5	649.7	647.6	640.5	638.3	639.0	637.6
20°	649.0	649.0	647.6	646.2	644.0	641.9	639.0	631.9	628.3	628.3	625.4
22.5°	642.6	642.6	641.2	639.0	636.9	634.0	631.2	624.0	618.3	616.9	614.7
25°	635.4	634.7	634.0	631.9	627.6	624.7	621.9	614.0	607.6	604.7	601.1
27.5°	626.9	626.9	624.7	622.6	618.3	614.7	611.1	604.0	595.4	591.8	586.8
30°	617.6	617.6	615.4	612.6	608.3	604.0	599.7	591.1	582.6	577.6	571.8
32.5°	608.3	607.6	605.4	602.6	598.3	591.8	588.3	579.7	569.7	564.0	556.1
35°	596.9	596.1	594.0	590.4	584.7	579.7	574.0	566.1	554.7	547.5	539.0
37.5°	585.4	584.7	583.3	578.3	572.5	566.8	559.7	551.8	541.1	531.8	523.2
40°	574.0	573.3	570.4	566.8	559.7	552.5	545.4	537.5	526.1	515.4	506.1
42.5°	561.8	561.1	557.5	553.2	545.4	538.2	529.7	521.1	509.6	496.8	487.5
45°	549.7	548.2	544.7	539.7	531.1	523.2	514.6	504.6	493.2	481.1	468.9
47.5°	536.8	534.7	531.1	523.9	516.8	508.2	498.2	487.5	476.1	462.5	449.6
50°	522.5	521.1	516.8	510.4	501.8	493.2	481.8	471.0	457.5	444.6	428.9
52.5°	508.9	506.1	502.5	495.4	486.8	477.5	465.3	452.5	438.9	426.7	410.3
55°	494.6	493.2	488.2	482.5	471.8	461.0	449.6	436.0	421.0	406.7	391.0
57.5°	481.1	478.2	473.9	466.0	456.8	446.0	433.9	419.6	403.1	388.1	371.0
60°	467.5	463.2	458.2	451.0	441.0	429.6	416.7	401.7	385.3	368.8	351.0
62.5°	452.5	448.9	443.2	436.0	426.0	413.9	400.3	384.6	368.8	351.7	332.4
65°	437.5	433.9	428.2	421.0	411.0	397.4	383.1	367.4	349.5	333.1	312.4
67.5°	422.4	418.9	412.4	404.6	394.6	381.7	366.7	350.2	332.4	314.5	293.1
70°	407.4	403.1	397.4	388.8	378.8	365.3	350.2	333.1	315.2	295.9	274.5
72.5°	392.4	388.8	381.7	373.8	363.1	349.5	334.5	317.4	298.8	278.8	257.3
75°	377.4	373.1	368.1	358.8	347.4	334.5	318.8	301.6	281.6	262.3	240.2
77.5°	362.4	358.8	352.4	343.1	332.4	318.8	303.1	285.9	265.9	245.9	222.3
80°	347.4	343.1	338.1	329.5	317.4	303.8	287.3	270.2	250.2	229.4	205.9
82.5°	332.4	328.1	322.4	313.8	302.4	288.8	273.1	254.5	234.5	213.0	190.8
85°	317.4	313.8	307.4	298.8	286.6	273.1	257.3	240.9	219.4	198.0	175.8
87.5°	302.4	298.8	292.3	283.8	272.3	258.8	243.0	225.9	205.1	185.1	160.8
90°	288.1	285.2	278.8	270.2	258.8	245.2	230.9	212.3	192.3	172.3	149.4
92.5°	275.2	272.3	266.6	258.0	248.0	233.0	218.7	200.9	180.8	160.1	138.0
95°	263.8	260.2	254.5	246.6	234.5	221.6	207.3	189.4	170.1	149.4	127.9
97.5°	250.9	247.3	241.6	233.0	223.0	209.4	195.1	178.0	158.7	139.4	117.9
100°	238.0	234.5	228.0	220.9	210.9	197.3	183.7	166.5	148.7	130.1	109.4
102.5°	225.2	221.6	215.9	208.7	198.7	186.6	173.0	156.5	138.7	120.1	100.8
105°	213.0	209.4	203.7	196.6	187.3	175.1	160.8	146.5	129.4	111.5	92.9
107.5°	200.9	197.3	192.3	185.1	175.8	164.4	150.8	135.8	120.1	102.9	85.1
110°	188.7	185.8	180.1	173.7	164.4	153.0	140.8	126.5	110.8	95.1	77.9





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-33SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	177.3	174.4	168.7	161.5	153.7	143.0	130.8	117.2	102.2	87.2	70.8
115°	165.8	162.3	157.3	150.8	143.0	133.0	121.5	109.4	94.4	80.1	65.0
117.5°	154.4	151.5	146.5	140.1	133.0	122.9	112.2	100.8	86.5	72.9	59.3
120°	143.0	140.8	135.8	130.1	122.9	113.7	103.6	92.2	79.3	66.5	53.6
122.5°	132.2	130.1	125.1	120.1	112.9	104.4	95.1	84.3	72.9	60.8	49.3
125°	122.2	119.4	115.1	110.1	103.6	95.8	86.5	76.5	65.8	55.0	44.3
127.5°	111.5	109.4	106.5	100.8	94.4	87.2	78.6	70.0	60.0	50.0	40.0
130°	102.9	100.1	96.5	92.2	86.5	79.3	71.5	62.9	54.3	45.0	35.0
132.5°	92.9	90.1	87.2	82.9	77.9	71.5	64.3	56.5	48.6	40.0	31.5
135°	83.6	81.5	78.6	74.3	69.3	64.3	57.2	50.0	42.9	35.0	27.9
137.5°	75.1	72.9	70.0	67.2	62.2	57.2	50.8	44.3	37.9	30.7	24.3
140°	66.5	65.0	62.2	59.3	55.0	50.0	44.3	38.6	32.9	26.4	20.7
142.5°	57.9	56.5	54.3	51.5	47.9	43.6	38.6	33.6	27.9	22.9	17.9
145°	50.0	49.3	47.2	44.3	41.5	37.2	32.9	28.6	23.6	19.3	14.3
147.5°	42.2	41.5	40.0	37.9	35.0	31.5	27.9	23.6	20.0	15.7	11.4
150°	35.0	34.3	33.6	30.7	29.3	25.7	22.9	19.3	16.4	12.2	9.3
152.5°	28.6	28.6	27.2	25.0	23.6	20.7	18.6	15.7	12.9	10.0	7.1
155°	22.9	22.2	21.4	20.0	18.6	16.4	14.3	12.2	10.0	7.1	5.0
157.5°	17.9	17.2	16.4	15.0	13.6	12.9	10.7	8.6	6.4	5.0	3.6
160°	12.9	12.2	11.4	10.7	10.0	8.6	7.1	5.7	4.3	2.9	2.1
162.5°	8.6	7.9	7.9	7.1	6.4	5.0	4.3	3.6	2.9	2.1	1.4
165°	4.3	4.3	3.6	3.6	2.9	2.1	2.1	2.1	1.4	1.4	0.7
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: P#

CATALOG NUMBER: 4SNLED-LD5-33SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	677.6	677.6	677.6	677.6	677.6	677.6	677.6
2.5°	674.0	674.0	676.9	676.2	674.0	678.3	683.3
5°	671.9	671.9	674.0	674.0	671.9	676.2	680.5
7.5°	668.3	667.6	669.8	669.8	666.9	670.5	675.5
10°	661.9	661.2	663.3	663.3	660.5	664.0	668.3
12.5°	654.7	653.3	655.5	654.7	651.9	655.5	659.8
15°	645.5	644.7	646.2	644.7	641.9	645.5	649.7
17.5°	636.2	634.0	634.7	634.7	629.7	633.3	636.9
20°	624.0	621.2	621.9	621.2	617.6	619.7	624.0
22.5°	611.9	607.6	607.6	606.9	602.6	605.4	609.0
25°	596.9	591.8	591.8	591.1	586.1	588.3	591.8
27.5°	581.8	576.8	574.7	574.0	569.0	569.0	574.0
30°	566.1	559.0	557.5	555.4	550.4	550.4	554.7
32.5°	551.1	541.1	538.2	535.4	530.4	529.7	534.7
35°	531.1	523.2	518.2	515.4	509.6	508.2	512.5
37.5°	514.6	504.6	497.5	493.9	488.2	486.1	491.8
40°	496.8	486.1	476.8	474.6	466.0	463.2	468.2
42.5°	476.8	465.3	456.0	451.7	445.3	442.5	443.2
45°	456.8	444.6	434.6	428.9	422.4	417.4	420.3
47.5°	436.0	425.3	413.1	404.6	396.7	393.1	394.6
50°	415.3	402.4	391.0	381.7	372.4	368.1	371.0
52.5°	394.6	381.0	368.1	358.1	347.4	343.1	343.8
55°	374.6	360.3	345.2	334.5	324.5	318.1	316.7
57.5°	354.5	338.8	323.1	310.9	298.1	292.3	290.2
60°	333.1	316.7	300.2	285.9	272.3	265.9	263.0
62.5°	313.1	295.2	276.6	261.6	248.0	239.5	237.3
65°	293.8	273.1	254.5	237.3	222.3	213.0	210.1
67.5°	273.1	251.6	231.6	213.0	198.7	186.6	185.1
70°	253.8	230.9	208.7	189.4	173.7	161.5	155.8
72.5°	234.5	210.9	188.0	167.3	147.2	135.8	131.5
75°	215.9	191.6	167.3	145.8	123.7	110.1	105.8
77.5°	198.7	173.7	148.0	124.4	103.6	86.5	80.8
80°	182.3	156.5	129.4	105.1	82.9	64.3	57.9
82.5°	165.1	140.8	112.9	87.2	64.3	45.0	37.2
85°	150.1	125.8	97.9	72.2	49.3	28.6	20.0
87.5°	138.0	111.5	86.5	60.8	37.2	16.4	5.7
90°	125.8	100.1	75.1	50.0	27.9	9.3	0.7
92.5°	115.1	90.8	65.8	42.9	21.4	6.4	0.7
95°	105.1	81.5	57.9	35.7	17.2	4.3	0.7
97.5°	95.8	73.6	51.5	30.7	14.3	3.6	0.7
100°	87.9	66.5	45.7	27.2	12.2	2.9	0.7
102.5°	80.1	60.0	40.7	23.6	10.7	2.1	0.7
105°	73.6	54.3	36.5	21.4	9.3	2.1	0.7
107.5°	67.2	49.3	32.9	18.6	7.9	1.4	0.7
110°	60.8	45.0	29.3	16.4	7.1	1.4	0.7



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-33SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	55.8	40.7	26.4	15.0	5.7	1.4	0.7
115°	50.8	36.5	23.6	12.9	5.0	0.7	0.7
117.5°	45.7	32.9	20.7	11.4	4.3	0.7	0.7
120°	41.5	29.3	18.6	10.0	3.6	0.7	0.7
122.5°	37.2	26.4	16.4	8.6	2.9	0.7	0.7
125°	33.6	23.6	14.3	7.1	2.1	0.7	0.7
127.5°	30.0	20.7	12.9	6.4	2.1	0.7	0.7
130°	26.4	18.6	10.7	5.0	1.4	0.7	0.7
132.5°	23.6	15.7	9.3	4.3	1.4	0.7	0.7
135°	20.7	13.6	7.9	2.9	1.4	0.7	0.7
137.5°	17.9	11.4	6.4	2.1	0.7	0.7	0.7
140°	15.0	10.0	5.0	2.1	0.7	0.7	0.7
142.5°	12.9	7.9	3.6	1.4	0.7	0.7	0.7
145°	10.0	6.4	2.9	1.4	0.7	0.7	0.7
147.5°	7.9	5.0	2.1	1.4	0.7	0.7	0.7
150°	5.7	3.6	2.1	0.7	0.7	0.7	0.7
152.5°	4.3	2.9	1.4	0.7	0.7	0.7	0.7
155°	2.9	2.1	1.4	0.7	0.7	0.7	0.7
157.5°	2.1	1.4	0.7	0.7	0.7	0.7	0.7
160°	1.4	0.7	0.7	0.7	0.7	0.7	0.7
162.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7
165°	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)