

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-LD5-30SL-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-LD5-30SL-LW-UNV-L935-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

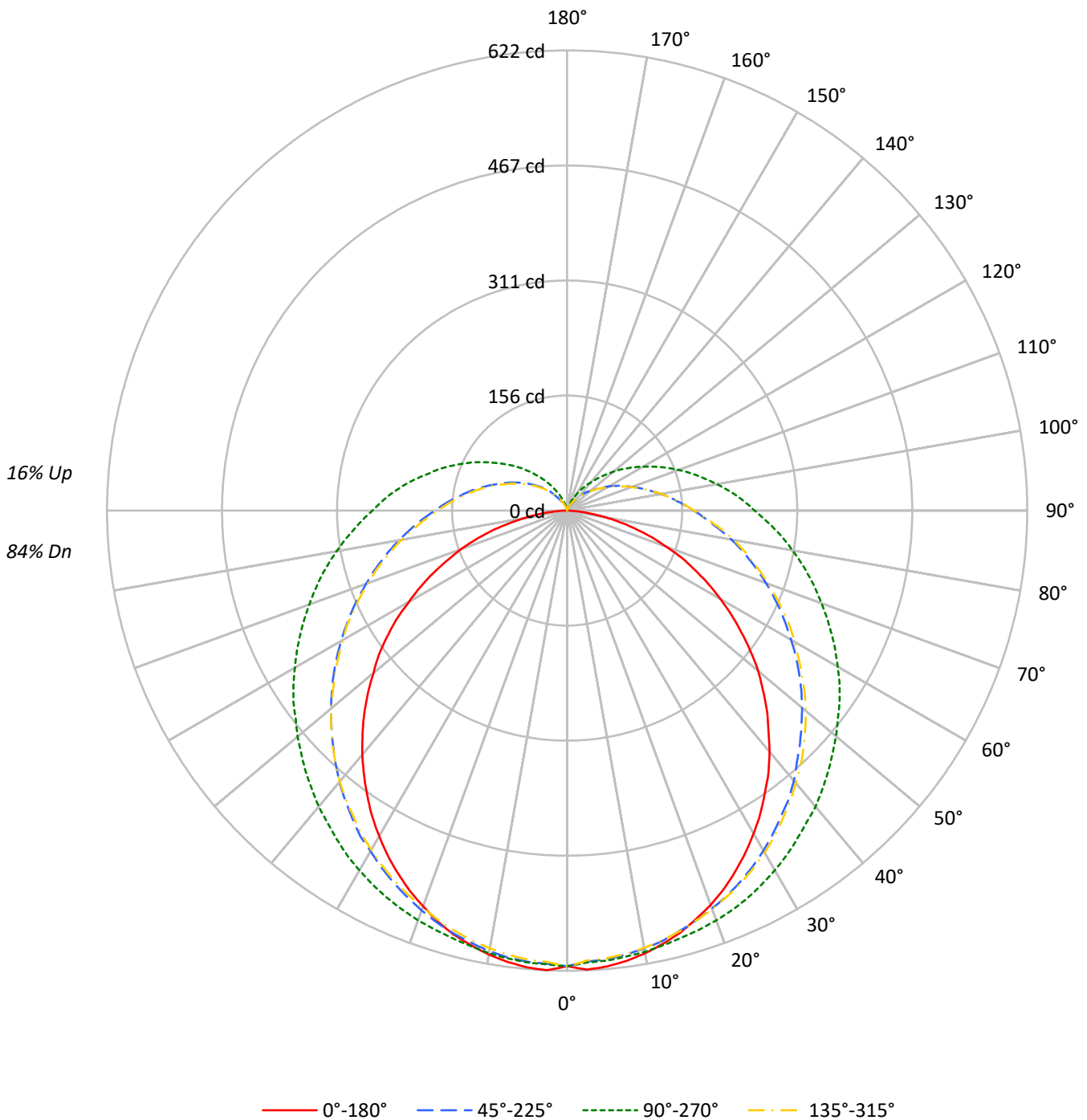
Lumens per Lamp: N/A  
Luminaire Lumens: 2675.9 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 25  
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#  
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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	4977	4977	4977	4977
5°	5004	4796	5014	4817
10°	4958	4660	4973	4675
15°	4900	4543	4922	4549
20°	4823	4459	4840	4459
25°	4728	4383	4756	4378
30°	4621	4305	4657	4305
35°	4498	4233	4547	4238
40°	4375	4191	4428	4191
45°	4233	4146	4299	4151
50°	4087	4120	4143	4131
55°	3882	4124	4004	4142
60°	3666	4136	3786	4162
65°	3423	4178	3575	4219
70°	3081	4255	3323	4315
75°	2690	4394	2944	4479
80°	2079	4600	2364	4706
85°	1243	4930	1551	5067



TEST NUMBER: P#

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.3	2.2
10°-20°	167.7	6.3
20°-30°	257.1	9.6
30°-40°	317.2	11.9
40°-50°	344.1	12.9
50°-60°	339.2	12.7
60°-70°	306.7	11.5
70°-80°	255.5	9.5
80°-90°	197.9	7.4
90°-100°	150.1	5.6
100°-110°	111.0	4.1
110°-120°	77.2	2.9
120°-130°	49.3	1.8
130°-140°	27.6	1.0
140°-150°	12.6	0.5
150°-160°	3.9	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	483.1	18.1
0°-40°	800.3	29.9
0°-60°	1483.6	55.4
0°-90°	2243.6	83.8
90°-120°	338.4	12.6
90°-150°	427.9	16.0
90°-180°	432.0	16.1
0°-180°	2675.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	616	616	616	616	616	
5°	618	611	620	613	618	59
15°	591	598	593	598	591	166
25°	538	578	541	577	538	248
35°	466	542	471	542	466	292
45°	382	499	388	500	382	294
55°	288	450	297	452	288	258
65°	191	394	200	398	191	189
75°	96	338	105	344	96	102
85°	18	281	23	289	18	22
90°	1	253	1	263	1	1
95°	1	230	1	241	1	0
105°	1	183	1	194	1	1
115°	1	139	1	151	1	1
125°	1	100	1	111	1	1
135°	1	65	1	77	1	0
145°	1	38	1	46	1	0
155°	1	16	1	21	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-LD5-30SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9
2.5°	621.1	621.1	620.5	619.2	619.8	621.8	620.5	617.2	615.3	610.1	611.4
5°	618.5	618.5	617.9	616.6	617.2	619.8	618.5	615.9	613.3	608.8	610.7
7.5°	614.0	614.0	613.3	612.0	613.3	615.9	614.6	612.0	610.1	605.5	607.5
10°	607.5	608.1	607.5	605.5	608.1	610.7	610.1	606.8	604.9	601.0	602.9
12.5°	599.7	600.3	599.7	599.0	600.3	604.2	602.9	600.3	599.0	595.8	597.7
15°	590.6	591.2	589.9	589.9	591.2	595.1	595.1	592.5	591.2	588.0	591.9
17.5°	578.9	579.6	578.9	578.9	580.2	584.1	584.8	583.5	582.2	580.9	584.8
20°	567.2	566.6	566.6	565.9	568.5	574.4	573.7	573.7	572.4	572.4	577.0
22.5°	553.6	553.6	552.9	552.9	556.2	561.4	561.4	562.7	561.4	564.0	567.9
25°	538.0	538.6	538.0	539.3	541.9	547.7	548.4	550.3	551.0	553.6	558.1
27.5°	521.7	522.4	521.7	523.0	527.6	532.1	535.4	538.0	538.6	542.5	548.4
30°	504.2	504.2	504.8	506.1	511.3	518.5	521.1	524.3	524.3	530.8	536.7
32.5°	486.0	486.0	486.0	488.6	494.4	502.9	506.1	510.0	511.3	517.8	524.3
35°	465.9	466.5	466.5	468.4	476.2	484.7	489.2	493.8	496.4	504.2	510.7
37.5°	447.0	448.3	446.4	449.0	460.0	467.2	472.3	476.9	481.4	491.8	497.0
40°	425.6	426.9	426.2	431.4	440.5	449.6	455.5	460.0	466.5	476.9	482.7
42.5°	402.8	404.1	405.4	411.3	421.0	430.1	437.3	443.1	450.9	460.0	469.7
45°	382.0	382.0	384.0	391.1	401.5	411.3	419.7	426.2	435.3	445.1	454.8
47.5°	358.6	359.3	361.9	370.3	381.4	393.1	400.9	409.3	419.1	429.5	440.5
50°	337.2	337.2	341.1	350.2	360.6	373.6	382.0	391.8	402.2	414.5	425.6
52.5°	312.5	313.8	319.7	328.1	341.8	353.4	363.2	373.6	385.9	398.9	411.3
55°	287.8	290.4	295.0	306.7	321.0	332.0	343.7	356.7	368.4	382.7	397.0
57.5°	263.8	265.7	272.9	284.6	299.5	313.2	325.5	337.9	352.1	366.4	381.4
60°	239.1	241.7	250.1	261.8	278.1	292.4	306.7	319.7	334.6	349.6	365.1
62.5°	215.7	217.7	227.4	241.0	257.3	272.9	287.2	302.8	319.0	333.3	348.9
65°	191.0	194.3	205.3	217.7	236.5	252.1	268.3	285.2	302.1	317.7	332.7
67.5°	168.3	170.2	181.9	196.2	215.1	232.6	249.5	267.7	285.2	301.5	316.4
70°	141.6	148.1	159.8	174.8	194.9	213.1	231.3	250.1	269.0	285.9	300.2
72.5°	119.5	124.7	137.7	154.0	173.5	194.9	213.8	233.9	252.7	270.3	285.2
75°	96.2	101.4	116.3	134.5	154.6	177.4	196.9	217.7	237.1	254.7	270.3
77.5°	73.4	79.9	96.2	115.0	137.1	160.5	180.6	201.4	221.6	240.4	256.0
80°	52.6	59.8	77.3	98.8	120.2	143.6	165.7	186.5	206.6	225.5	241.7
82.5°	33.8	41.6	60.4	81.9	104.6	128.0	150.7	171.5	191.7	210.5	227.4
85°	18.2	26.6	46.1	67.6	90.3	113.7	136.4	158.5	178.0	195.6	213.8
87.5°	5.2	15.6	34.4	55.9	79.3	100.7	122.8	144.9	164.4	183.2	199.5
90°	0.6	9.1	26.0	46.1	68.9	89.7	111.8	132.5	152.0	170.9	187.1
92.5°	0.6	5.8	20.1	38.3	59.1	80.6	102.7	122.8	141.0	159.8	176.1
95°	0.6	4.5	16.2	32.5	52.0	72.1	92.9	112.4	131.2	148.8	165.0
97.5°	0.6	3.2	13.0	27.9	45.5	64.3	84.5	104.0	122.1	139.0	154.0
100°	0.6	2.6	10.4	24.0	39.6	57.8	76.0	94.9	112.4	128.6	144.2
102.5°	0.6	1.9	9.1	20.1	35.1	51.3	68.9	86.4	103.3	118.9	134.5
105°	0.6	1.9	7.8	17.5	31.2	46.1	62.4	79.3	94.9	109.8	124.1
107.5°	0.6	1.3	6.5	14.9	27.3	41.6	56.5	72.8	87.1	101.4	115.0
110°	0.6	1.3	5.2	13.6	24.0	37.0	51.3	66.3	79.9	93.6	106.6



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CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.6	1.3	4.5	11.7	20.8	33.1	46.1	59.8	72.8	86.4	98.1
115°	0.6	1.3	3.9	10.4	19.5	28.6	41.6	53.9	66.9	79.3	90.3
117.5°	0.6	1.3	3.2	8.4	16.9	26.0	36.4	48.7	60.4	72.1	82.5
120°	0.6	1.3	2.6	7.8	14.9	23.4	32.5	43.5	54.6	65.6	76.7
122.5°	0.6	0.6	2.6	6.5	13.0	20.8	29.9	38.3	48.7	59.1	68.9
125°	0.6	0.6	2.6	5.8	11.0	18.8	26.6	34.4	43.5	52.6	61.1
127.5°	0.6	0.6	1.9	4.5	9.7	16.2	23.4	31.8	38.3	46.8	55.2
130°	0.6	0.6	1.9	3.9	8.4	13.6	20.8	27.9	35.7	41.6	48.7
132.5°	0.6	0.6	1.9	3.2	6.5	11.0	17.5	24.0	31.2	37.7	43.5
135°	0.6	0.6	1.3	2.6	5.2	9.1	14.3	20.1	27.3	33.8	39.6
137.5°	0.6	0.6	1.3	2.6	3.9	7.8	11.0	16.2	22.7	28.6	34.4
140°	0.6	0.6	1.3	1.9	3.2	5.8	9.1	13.0	18.2	23.4	29.9
142.5°	0.6	0.6	0.6	1.9	2.6	4.5	7.1	10.4	14.3	18.8	24.0
145°	0.6	0.6	0.6	1.9	2.6	3.2	5.8	8.4	11.0	14.3	18.8
147.5°	0.6	0.6	0.6	1.3	1.9	2.6	4.5	6.5	8.4	11.0	13.6
150°	0.6	0.6	0.6	1.3	1.9	2.6	3.2	4.5	6.5	9.1	11.0
152.5°	0.6	0.6	0.6	1.3	1.3	1.9	2.6	3.2	4.5	6.5	7.8
155°	0.6	0.6	0.6	0.6	1.3	1.9	2.6	2.6	3.2	4.5	5.8
157.5°	0.6	0.6	0.6	0.6	1.3	1.3	1.9	1.9	2.6	2.6	3.9
160°	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.9	1.9	1.9	1.9
162.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.3	1.9	1.9
165°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.3
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-LD5-30SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9
2.5°	611.4	612.0	614.0	614.0	612.7	612.7	612.0	611.4	612.0	613.3	613.3
5°	610.1	610.7	612.7	613.3	612.0	611.4	611.4	610.7	611.4	612.7	612.7
7.5°	607.5	608.1	610.1	610.7	609.4	609.4	608.8	608.1	609.4	610.1	610.1
10°	603.6	604.2	606.8	607.5	606.8	606.2	606.2	605.5	606.2	607.5	607.5
12.5°	598.4	599.7	602.9	602.9	602.9	602.3	602.3	601.6	602.3	603.6	602.9
15°	592.5	595.1	597.7	599.0	599.0	599.0	598.4	597.7	599.0	599.7	599.0
17.5°	586.0	589.3	593.2	594.5	594.5	595.1	594.5	593.8	595.1	595.1	594.5
20°	579.6	582.8	586.7	588.0	589.3	589.9	589.9	589.3	589.9	590.6	589.9
22.5°	571.1	575.0	579.6	581.5	582.8	584.1	584.1	584.1	584.8	585.4	584.1
25°	562.0	566.6	571.8	573.7	576.3	577.0	577.6	577.6	578.3	578.9	577.0
27.5°	552.3	557.5	562.7	565.9	567.9	569.2	569.2	569.8	570.5	571.1	569.2
30°	540.6	548.4	552.9	555.5	558.1	560.1	560.7	561.4	562.0	562.7	560.7
32.5°	530.2	536.7	542.5	545.8	549.0	551.6	552.3	552.3	553.6	553.6	551.6
35°	517.8	525.6	531.5	534.7	538.6	540.6	541.9	541.9	543.2	543.2	541.2
37.5°	505.5	513.3	519.8	523.7	528.2	530.8	531.5	531.5	532.8	532.8	530.2
40°	492.5	500.9	508.1	512.6	516.5	519.8	520.4	522.4	522.4	521.7	519.1
42.5°	479.5	487.3	495.1	500.3	505.5	508.7	510.0	510.7	510.7	510.0	508.1
45°	465.2	474.3	481.4	487.9	493.1	496.4	498.3	499.0	499.0	497.7	495.7
47.5°	451.6	460.7	467.8	474.9	480.1	484.0	486.0	486.6	486.0	485.3	483.4
50°	437.3	447.7	454.8	462.0	467.2	470.4	473.6	474.3	473.6	473.0	469.1
52.5°	422.3	433.4	441.2	448.3	454.2	458.1	460.7	461.3	461.3	460.0	457.4
55°	407.4	417.1	426.9	434.7	441.2	445.1	448.3	449.6	448.3	447.0	443.8
57.5°	393.7	402.8	412.6	421.0	427.5	432.7	435.3	436.6	435.3	433.4	430.1
60°	377.5	387.2	398.3	406.1	413.2	418.4	419.7	422.3	421.0	419.1	415.8
62.5°	361.9	373.6	383.3	393.1	398.9	404.8	407.4	408.7	407.4	405.4	402.2
65°	345.7	358.6	368.4	378.1	384.6	390.5	393.7	394.4	393.1	391.1	387.9
67.5°	330.7	343.1	353.4	363.8	369.7	375.5	378.8	380.1	378.8	376.2	372.9
70°	315.8	328.1	340.5	348.3	355.4	361.9	363.8	365.8	364.5	361.9	358.0
72.5°	300.8	313.8	326.2	334.0	341.8	347.6	350.2	352.1	350.9	348.3	343.7
75°	285.2	298.9	311.2	319.7	327.5	333.3	335.9	337.9	336.6	334.0	328.8
77.5°	270.9	284.6	296.3	305.4	313.2	318.4	322.9	323.6	322.3	319.7	314.5
80°	256.0	269.6	282.0	291.1	298.9	304.1	307.3	309.3	308.0	305.4	300.2
82.5°	243.0	255.3	267.7	276.8	284.6	291.1	293.7	295.6	295.0	291.1	287.2
85°	228.7	243.0	252.7	262.5	270.3	276.8	278.7	281.3	280.7	277.4	272.2
87.5°	214.4	228.7	240.4	250.1	257.3	262.5	265.7	267.0	266.4	263.1	257.3
90°	202.7	215.7	227.4	237.8	243.6	249.5	252.7	253.4	253.4	249.5	244.9
92.5°	191.7	204.0	215.7	225.5	232.6	237.8	240.4	241.7	241.0	237.8	232.6
95°	179.3	193.0	204.0	213.8	220.9	226.1	228.7	230.0	229.4	226.1	220.9
97.5°	168.9	181.3	192.3	201.4	208.6	213.8	216.4	217.7	217.7	214.4	209.2
100°	158.5	170.9	181.3	190.4	196.9	202.1	204.7	205.3	204.7	202.1	196.9
102.5°	148.1	159.8	170.2	178.7	185.8	190.4	193.0	193.6	193.6	190.4	185.2
105°	137.7	149.4	159.2	168.3	174.1	178.7	180.6	182.6	181.9	179.3	174.1
107.5°	128.0	139.7	148.8	157.2	163.1	167.6	169.6	171.5	170.9	168.3	163.1
110°	118.9	129.9	138.4	146.8	152.0	156.6	159.8	160.5	159.2	156.6	152.0





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	110.5	120.2	128.6	136.4	142.3	145.5	148.1	149.4	148.1	145.5	142.3
115°	101.4	111.1	119.5	126.7	131.9	135.8	137.7	139.0	137.7	135.1	131.9
117.5°	92.9	102.0	110.5	117.6	122.1	125.4	127.3	128.6	127.3	125.4	122.1
120°	85.8	93.6	101.4	107.9	113.1	115.7	117.6	118.9	118.2	115.7	112.4
122.5°	77.3	85.8	92.9	99.4	104.0	106.6	107.9	109.2	108.5	106.6	103.3
125°	70.2	77.3	84.5	90.3	94.9	97.5	98.8	100.1	99.4	97.5	93.6
127.5°	62.4	70.2	76.0	81.9	85.1	89.0	89.7	91.0	90.3	88.4	85.1
130°	56.5	62.4	68.2	73.4	77.3	79.9	81.2	81.9	80.6	79.3	76.0
132.5°	49.4	55.9	61.1	65.6	68.2	70.8	72.1	72.8	72.8	70.8	68.2
135°	44.2	48.7	53.3	57.8	60.4	63.0	64.3	65.0	64.3	63.0	60.4
137.5°	39.6	43.5	46.8	50.7	53.9	55.2	56.5	56.5	55.9	55.2	53.3
140°	34.4	39.0	42.2	44.8	47.4	48.1	49.4	49.4	48.7	48.1	46.8
142.5°	29.2	33.1	36.4	39.6	41.6	42.9	43.5	44.2	43.5	42.9	40.9
145°	23.4	27.9	31.2	33.1	35.7	36.4	37.0	37.7	37.0	36.4	34.4
147.5°	18.2	22.1	25.3	27.9	29.9	30.5	31.2	31.8	31.2	29.9	29.2
150°	13.0	16.2	20.1	22.7	24.0	25.3	25.3	25.3	26.0	24.7	23.4
152.5°	10.4	11.7	14.3	16.9	18.8	19.5	20.1	20.1	19.5	19.5	18.2
155°	7.1	8.4	10.4	12.3	14.3	14.9	15.6	15.6	14.9	14.9	14.3
157.5°	4.5	5.8	7.1	8.4	10.4	11.0	11.7	11.7	11.7	11.0	10.4
160°	2.6	3.2	3.9	5.2	6.5	7.1	7.8	7.8	7.8	7.8	7.1
162.5°	1.9	1.9	1.9	2.6	3.2	3.9	4.5	4.5	4.5	4.5	3.9
165°	1.3	1.3	1.3	1.3	1.3	1.9	2.6	2.6	2.6	2.6	2.6
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: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9
2.5°	612.7	612.7	613.3	612.0	608.1	608.8	608.8	611.4	612.7	613.3	616.6
5°	611.4	611.4	612.7	610.7	607.5	607.5	607.5	610.1	610.7	612.0	614.6
7.5°	609.4	609.4	610.1	608.1	604.2	604.2	603.6	606.2	607.5	608.1	610.7
10°	606.2	606.2	606.8	604.9	600.3	600.3	599.7	601.6	602.3	603.6	605.5
12.5°	601.6	601.6	601.6	599.7	595.1	594.5	593.8	595.8	595.8	596.4	598.4
15°	597.7	596.4	596.4	594.5	589.9	588.6	587.3	588.0	589.3	588.6	589.9
17.5°	593.2	591.9	590.6	588.6	582.8	580.9	579.6	580.2	579.6	578.9	580.2
20°	588.0	586.0	585.4	582.2	576.3	573.1	570.5	569.2	569.8	567.9	568.5
22.5°	582.2	579.6	578.3	574.4	568.5	564.6	561.4	558.8	558.1	555.5	556.2
25°	575.0	571.8	569.8	566.6	560.1	555.5	551.6	547.7	545.8	542.5	541.9
27.5°	566.6	563.3	560.7	557.5	551.0	545.1	540.6	535.4	532.8	528.9	526.9
30°	558.1	554.2	550.3	547.7	540.6	534.1	526.9	522.4	518.5	513.9	510.7
32.5°	547.7	543.8	539.9	536.0	529.5	521.7	515.9	508.7	504.2	499.0	495.1
35°	537.3	532.1	528.2	523.0	517.2	508.1	500.9	493.8	487.9	482.1	477.5
37.5°	525.6	521.7	515.9	511.3	504.2	495.1	487.3	478.2	473.0	465.2	459.4
40°	514.6	510.0	504.2	498.3	491.2	480.8	472.3	462.0	456.1	447.0	441.2
42.5°	503.5	497.0	491.2	484.7	476.9	467.2	456.8	446.4	438.6	430.1	421.7
45°	491.2	484.0	476.9	469.7	462.0	452.2	441.2	430.1	420.4	412.6	402.2
47.5°	478.2	471.0	462.6	454.8	446.4	436.6	424.9	413.2	402.8	393.7	382.7
50°	465.2	458.1	449.0	440.5	430.8	421.0	408.7	395.0	384.0	372.3	362.5
52.5°	451.6	444.4	436.0	424.9	414.5	404.8	391.8	377.5	365.1	355.4	343.1
55°	437.9	430.8	421.0	410.0	399.6	387.2	374.9	360.6	347.0	335.3	322.9
57.5°	423.6	417.1	406.1	397.0	384.0	371.0	358.0	344.4	329.4	315.8	301.5
60°	409.3	402.2	391.8	380.7	367.7	354.7	341.1	326.2	310.6	295.6	282.6
62.5°	396.3	387.2	377.5	365.8	352.1	339.8	324.2	308.0	292.4	276.8	261.2
65°	381.4	371.6	362.5	350.9	336.6	322.3	306.7	290.4	273.5	256.6	241.0
67.5°	366.4	356.7	347.0	335.3	320.3	305.4	289.1	272.9	254.0	237.8	219.6
70°	351.5	343.7	331.4	319.0	305.4	289.1	272.9	255.3	235.8	218.3	199.5
72.5°	336.6	328.8	316.4	303.4	290.4	273.5	256.0	238.4	220.3	200.1	180.0
75°	322.3	312.5	301.5	289.1	275.5	257.9	240.4	222.2	200.8	181.9	161.1
77.5°	308.6	299.5	288.5	274.8	259.9	243.0	224.8	206.0	184.5	164.4	141.6
80°	293.7	284.6	273.5	259.9	244.9	228.7	209.2	189.7	168.9	146.8	123.4
82.5°	279.4	270.9	258.6	246.2	230.0	213.8	194.3	174.8	152.7	131.2	108.5
85°	264.4	256.0	244.3	231.3	215.7	198.2	180.0	160.5	138.4	116.3	93.6
87.5°	251.4	241.7	230.0	217.0	201.4	184.5	167.0	146.2	124.7	103.3	79.9
90°	237.8	228.7	217.0	204.0	188.4	171.5	153.3	133.8	113.1	91.0	68.9
92.5°	226.1	216.4	205.3	192.3	176.7	160.5	142.3	122.8	102.7	81.2	59.8
95°	214.4	204.7	194.3	181.3	165.7	149.4	131.2	112.4	92.9	72.1	52.0
97.5°	201.4	193.0	182.6	170.2	154.6	139.0	121.5	103.3	84.5	64.3	45.5
100°	191.0	181.3	171.5	158.5	144.2	129.3	111.8	94.2	76.0	57.2	39.6
102.5°	179.3	170.2	160.5	148.1	133.8	118.9	102.7	85.8	68.9	51.3	34.4
105°	168.3	159.8	149.4	137.7	124.1	109.8	94.2	78.6	62.4	45.5	30.5
107.5°	157.2	148.8	139.0	128.0	115.0	100.7	86.4	70.8	55.9	40.9	27.3
110°	146.2	138.4	129.3	118.2	105.9	92.9	79.3	65.0	50.0	36.4	24.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	136.4	128.6	119.5	109.2	97.5	85.1	72.1	58.5	44.8	32.5	20.8
115°	126.7	119.5	110.5	101.4	89.7	78.0	65.6	52.6	40.3	29.2	18.2
117.5°	117.0	109.8	101.4	92.3	81.9	70.8	59.1	46.8	36.4	26.0	16.2
120°	107.2	100.7	92.9	84.5	75.4	64.3	52.6	42.2	32.5	22.7	14.3
122.5°	98.1	92.3	85.1	77.3	67.6	57.2	47.4	38.3	29.2	20.1	11.7
125°	89.7	83.8	77.3	69.5	60.4	51.3	42.9	34.4	25.3	17.5	9.7
127.5°	81.2	75.4	68.9	61.7	54.6	46.1	38.3	30.5	22.7	15.6	8.4
130°	72.8	67.6	61.7	55.9	48.7	40.9	34.4	26.6	19.5	12.3	7.1
132.5°	64.3	60.4	55.2	49.4	42.9	37.0	29.9	23.4	16.9	11.0	6.5
135°	57.2	53.3	48.7	43.5	38.3	32.5	26.0	20.1	14.3	9.1	5.2
137.5°	50.7	47.4	42.9	38.3	33.8	27.9	22.7	16.9	11.7	7.8	3.9
140°	44.8	41.6	37.7	33.1	29.2	24.0	18.8	13.6	10.4	6.5	3.2
142.5°	39.0	35.7	32.5	28.6	24.7	20.1	15.6	11.7	8.4	5.2	3.2
145°	33.1	30.5	27.3	24.0	20.1	16.2	13.0	9.7	6.5	3.9	2.6
147.5°	27.3	25.3	22.1	19.5	16.2	13.0	10.4	7.8	5.2	3.2	1.9
150°	22.1	20.1	17.5	14.9	13.0	10.4	8.4	5.8	3.9	3.2	1.9
152.5°	16.9	15.6	13.6	12.3	10.4	7.8	5.8	4.5	3.2	2.6	1.3
155°	13.6	12.3	11.0	9.1	7.8	5.8	4.5	3.2	2.6	1.9	1.3
157.5°	9.7	9.1	7.8	6.5	5.2	3.9	3.2	3.2	1.9	1.3	0.6
160°	6.5	5.8	5.2	3.9	3.2	3.2	2.6	1.9	1.3	1.3	0.6
162.5°	3.9	3.2	3.2	3.2	2.6	2.6	1.9	1.3	1.3	0.6	0.6
165°	2.6	2.6	2.6	1.9	1.9	1.9	1.3	0.6	0.6	0.6	0.6
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: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9
2.5°	616.6	614.6	617.2	621.8	622.4	621.8	620.5	622.4	625.0	624.4	619.8
5°	615.3	612.7	615.3	619.8	619.8	619.2	618.5	620.5	623.1	622.4	618.5
7.5°	611.4	608.8	611.4	615.3	615.9	614.6	614.6	616.6	619.2	618.5	615.3
10°	606.2	603.6	604.9	609.4	610.7	609.4	609.4	611.4	614.6	614.0	610.1
12.5°	598.4	596.4	597.7	601.6	602.9	602.3	601.6	604.2	607.5	607.5	603.6
15°	589.9	587.3	588.6	593.2	593.8	592.5	593.2	595.1	599.0	599.0	595.8
17.5°	580.2	577.0	578.9	582.2	582.8	582.8	582.8	585.4	589.9	589.3	586.7
20°	569.2	564.6	565.9	569.2	570.5	570.5	570.5	575.0	578.3	578.3	575.7
22.5°	556.2	552.9	552.9	556.2	558.1	557.5	557.5	561.4	565.9	565.3	565.3
25°	541.2	538.6	537.3	541.2	541.9	542.5	543.8	547.7	552.9	552.9	553.6
27.5°	525.6	523.0	522.4	525.6	526.3	526.9	528.2	532.8	538.0	538.6	539.9
30°	510.7	506.8	505.5	508.1	509.4	510.0	510.0	517.2	521.7	523.7	526.3
32.5°	493.1	489.2	486.0	490.5	491.2	492.5	493.1	500.3	505.5	508.7	512.6
35°	475.6	469.1	467.8	471.0	472.3	473.0	474.3	482.1	489.2	491.8	497.0
37.5°	456.1	451.6	447.7	450.9	452.2	452.9	456.8	463.9	471.0	474.9	480.1
40°	437.9	432.1	428.8	430.8	432.1	432.7	437.3	445.1	453.5	458.1	464.6
42.5°	417.8	410.0	407.4	409.3	410.0	411.9	415.8	426.2	434.7	441.2	446.4
45°	397.6	391.8	385.9	387.9	388.5	389.8	395.7	406.7	415.8	423.6	429.5
47.5°	376.8	369.7	363.8	365.1	367.7	368.4	374.9	387.9	396.3	404.8	412.6
50°	356.0	346.3	341.8	341.8	343.1	346.3	354.7	367.7	376.8	386.6	395.0
52.5°	334.6	325.5	320.3	321.0	322.3	326.2	334.0	347.0	357.3	367.7	378.1
55°	313.2	303.4	298.2	296.9	298.2	303.4	312.5	326.2	336.6	348.9	359.9
57.5°	291.7	280.0	275.5	273.5	274.8	281.3	290.4	304.7	317.7	329.4	342.4
60°	268.3	259.2	251.4	246.9	250.1	258.6	268.3	283.3	296.9	309.9	324.2
62.5°	248.2	236.5	228.1	223.5	226.8	233.9	247.5	261.8	276.8	291.7	306.0
65°	225.5	213.8	204.0	199.5	202.7	211.2	224.8	240.4	256.6	271.6	288.5
67.5°	203.4	191.0	179.3	174.8	178.7	187.8	202.7	220.3	237.8	253.4	271.6
70°	181.9	168.3	155.9	152.7	155.3	167.6	181.9	199.5	217.7	235.8	254.7
72.5°	162.4	145.5	132.5	128.6	131.9	145.5	161.8	180.0	199.5	219.0	239.1
75°	139.7	124.1	109.8	105.3	109.2	121.5	141.6	161.1	181.9	202.7	221.6
77.5°	121.5	103.3	88.4	81.2	87.7	103.3	122.8	143.6	165.0	186.5	207.9
80°	102.7	83.8	67.6	59.8	66.9	83.8	103.3	126.0	150.1	171.5	191.0
82.5°	85.8	65.6	48.7	40.3	48.1	66.9	88.4	111.1	134.5	155.9	178.7
85°	70.2	49.4	31.8	22.7	33.8	50.7	73.4	96.8	120.8	142.9	165.0
87.5°	57.2	37.0	19.5	9.7	20.8	39.6	61.1	84.5	108.5	130.6	151.4
90°	46.8	26.6	10.4	1.3	12.3	29.9	50.7	73.4	96.2	118.9	139.7
92.5°	38.3	20.1	5.8	0.6	7.8	24.0	43.5	65.0	87.1	109.2	129.3
95°	31.8	15.6	3.9	0.6	5.8	18.8	37.0	57.8	78.6	100.1	120.2
97.5°	27.3	13.0	3.2	0.6	4.5	16.2	31.8	51.3	71.5	91.6	111.1
100°	23.4	10.4	2.6	0.6	3.9	13.6	27.9	45.5	64.3	83.8	102.7
102.5°	20.1	8.4	1.9	0.6	3.2	11.7	24.7	40.9	57.8	76.7	94.9
105°	17.5	7.1	1.9	0.6	2.6	10.4	22.1	36.4	53.3	70.2	87.7
107.5°	14.9	5.8	1.3	0.6	1.9	8.4	19.5	33.1	48.1	64.3	80.6
110°	13.0	5.2	1.3	0.6	1.9	7.8	16.9	29.9	43.5	58.5	74.1



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	11.0	3.9	1.3	0.6	1.3	6.5	14.9	26.6	39.6	53.3	68.2
115°	9.7	3.2	0.6	0.6	1.3	5.8	13.6	24.0	35.7	48.7	62.4
117.5°	7.8	2.6	0.6	0.6	0.6	4.5	11.7	21.4	32.5	44.8	57.2
120°	6.5	2.6	0.6	0.6	0.6	3.9	10.4	18.8	29.2	40.3	52.0
122.5°	5.8	1.9	0.6	0.6	0.6	3.2	9.1	16.9	26.0	36.4	47.4
125°	5.2	1.9	0.6	0.6	0.6	2.6	7.8	14.9	23.4	32.5	42.9
127.5°	3.9	1.9	0.6	0.6	0.6	1.9	7.1	13.0	20.8	29.2	38.3
130°	3.2	1.3	0.6	0.6	0.6	1.9	5.8	11.7	18.2	26.0	34.4
132.5°	2.6	1.3	0.6	0.6	0.6	1.3	4.5	9.1	15.6	22.7	30.5
135°	2.6	1.3	0.6	0.6	0.6	1.3	3.2	7.8	13.0	19.5	26.0
137.5°	2.6	0.6	0.6	0.6	0.6	1.3	2.6	5.8	10.4	15.6	21.4
140°	1.9	0.6	0.6	0.6	0.6	0.6	1.9	4.5	8.4	13.0	18.2
142.5°	1.9	0.6	0.6	0.6	0.6	0.6	1.9	3.2	6.5	10.4	14.3
145°	1.3	0.6	0.6	0.6	0.6	0.6	1.3	2.6	5.2	7.8	11.7
147.5°	1.3	0.6	0.6	0.6	0.6	0.6	1.3	1.9	3.9	6.5	9.1
150°	1.3	0.6	0.6	0.6	0.6	0.6	1.3	1.9	2.6	4.5	7.1
152.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.9	3.2	4.5
155°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.9	2.6	3.2
157.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.9	2.6
160°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.9
162.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3
165°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9
2.5°	617.9	613.3	614.6	614.0	615.3	617.2	617.2	616.6	616.6	615.3	614.0
5°	616.6	612.0	614.0	613.3	614.6	616.6	616.6	615.9	615.9	614.0	613.3
7.5°	612.7	609.4	610.7	610.7	612.0	614.0	614.0	613.3	613.3	611.4	610.7
10°	608.8	604.9	606.8	606.8	608.1	610.7	610.7	610.1	610.1	608.1	607.5
12.5°	602.3	598.4	601.6	602.3	603.6	606.2	605.5	605.5	605.5	603.6	602.9
15°	594.5	591.9	595.1	595.8	597.7	601.0	601.0	601.0	601.0	599.0	598.4
17.5°	586.0	584.1	587.3	588.6	591.2	594.5	594.5	595.1	595.8	594.5	593.8
20°	576.3	575.0	578.3	580.9	584.8	588.0	589.3	589.9	591.2	589.9	589.3
22.5°	565.3	565.3	569.8	572.4	577.0	580.2	582.2	584.1	585.4	584.1	583.5
25°	552.9	554.9	559.4	564.0	569.2	572.4	574.4	577.0	578.3	577.6	577.0
27.5°	541.2	543.8	549.7	554.2	558.8	564.0	565.9	569.2	570.5	570.5	569.8
30°	527.6	531.5	538.0	543.2	549.0	554.2	556.8	560.1	562.0	560.7	561.4
32.5°	514.6	521.1	526.3	532.1	538.6	543.8	547.1	551.0	552.9	552.3	552.9
35°	500.3	506.8	513.9	519.8	527.6	532.8	537.3	540.6	543.2	542.5	542.5
37.5°	484.7	493.1	500.3	508.1	515.2	521.1	525.6	529.5	532.1	532.1	532.1
40°	469.7	478.8	486.0	495.1	504.2	509.4	514.6	518.5	521.1	521.7	522.4
42.5°	453.5	463.3	471.7	481.4	490.5	497.0	502.9	507.4	510.0	511.3	510.7
45°	438.6	447.7	457.4	468.4	476.9	483.4	490.5	495.7	498.3	499.0	499.6
47.5°	421.7	432.1	443.1	454.2	462.6	471.0	477.5	482.7	485.3	487.3	487.3
50°	405.4	416.5	428.8	440.5	449.6	458.1	464.6	470.4	473.6	474.9	475.6
52.5°	390.5	400.9	413.9	425.6	434.7	443.1	451.6	458.1	461.3	462.6	462.6
55°	372.3	385.3	399.6	410.6	420.4	430.1	438.6	445.1	448.3	450.3	451.6
57.5°	355.4	369.0	384.0	395.7	407.4	416.5	424.3	432.7	435.3	437.9	438.6
60°	339.2	352.8	367.1	380.1	391.8	401.5	410.6	417.8	422.3	423.6	424.9
62.5°	322.3	336.6	351.5	364.5	376.8	388.5	397.0	403.5	408.7	410.6	411.9
65°	306.0	321.0	335.9	349.6	362.5	374.2	382.7	389.2	394.4	397.6	398.3
67.5°	288.5	304.7	320.3	334.6	347.6	359.9	368.4	374.9	380.1	384.0	384.6
70°	272.2	289.1	304.7	320.3	333.3	345.7	354.7	361.2	367.1	369.7	371.0
72.5°	256.6	274.2	290.4	306.0	319.0	331.4	341.1	347.6	353.4	356.7	357.3
75°	241.7	259.2	276.8	291.7	305.4	317.7	327.5	334.6	339.8	343.1	344.4
77.5°	226.8	244.9	262.5	277.4	291.7	304.1	312.5	321.0	326.2	330.1	330.1
80°	211.8	230.7	248.8	263.8	278.1	289.1	298.9	307.3	312.5	316.4	316.4
82.5°	198.8	217.0	234.5	249.5	263.8	276.1	285.9	293.7	299.5	302.1	302.8
85°	183.9	204.0	220.3	236.5	250.1	261.8	271.6	280.0	285.2	287.8	289.1
87.5°	171.5	191.0	208.6	222.9	236.5	248.2	259.2	266.4	271.6	274.8	276.1
90°	159.8	178.7	196.2	210.5	224.8	235.8	246.2	253.4	259.2	261.8	263.1
92.5°	149.4	168.3	185.2	199.5	213.1	225.5	235.2	242.3	247.5	250.1	252.1
95°	139.7	157.9	174.1	189.7	202.7	213.8	224.2	231.3	237.1	239.1	241.0
97.5°	129.9	147.5	163.7	178.7	192.3	202.7	212.5	219.6	224.2	227.4	229.4
100°	121.5	138.4	154.0	168.3	181.3	191.0	201.4	207.9	212.5	215.1	217.7
102.5°	112.4	129.3	144.2	157.9	171.5	180.6	190.4	196.9	200.8	205.3	205.3
105°	104.6	120.2	135.1	148.1	159.8	170.9	179.3	185.8	190.4	193.6	193.6
107.5°	96.2	111.8	126.0	139.7	150.7	161.1	168.9	174.8	180.0	181.9	183.9
110°	89.7	103.3	117.6	130.6	141.0	150.7	158.5	165.0	169.6	171.5	172.8



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	81.9	96.2	109.2	121.5	131.9	141.0	148.8	154.0	158.5	161.1	161.8
115°	75.4	89.0	100.7	112.4	123.4	131.2	138.4	143.6	148.1	150.1	151.4
117.5°	69.5	81.9	93.6	103.3	113.7	122.1	129.3	133.8	137.7	140.3	141.6
120°	63.7	75.4	85.8	95.5	105.3	113.1	119.5	124.1	128.6	130.6	130.6
122.5°	57.8	68.9	78.6	87.7	96.8	104.0	111.1	115.0	118.9	120.8	120.8
125°	52.6	63.0	72.1	80.6	89.0	95.5	101.4	105.9	109.8	111.1	111.1
127.5°	47.4	57.2	65.6	73.4	80.6	87.1	92.9	97.5	100.7	102.0	102.0
130°	42.9	51.3	59.1	66.9	74.1	79.3	85.1	89.0	91.0	92.9	93.6
132.5°	38.3	46.1	53.3	59.8	66.9	72.1	76.7	80.6	82.5	84.5	85.1
135°	33.8	40.9	47.4	53.9	59.8	65.0	68.9	72.1	74.7	76.0	76.7
137.5°	28.6	36.4	42.2	47.4	53.9	57.8	62.4	64.3	66.9	68.2	68.2
140°	24.0	29.9	36.4	41.6	46.8	50.7	54.6	57.8	59.8	60.4	60.4
142.5°	19.5	24.7	29.9	36.4	40.9	44.2	48.1	50.7	52.0	52.6	53.3
145°	15.6	19.5	24.0	29.9	35.1	39.0	40.9	43.5	44.8	45.5	46.1
147.5°	11.7	15.6	19.5	23.4	28.6	32.5	34.4	37.0	38.3	39.0	39.0
150°	9.1	11.7	14.3	18.2	22.1	26.6	29.2	31.2	31.8	32.5	32.5
152.5°	6.5	9.1	11.0	13.6	16.2	20.1	24.0	25.3	26.0	26.6	26.6
155°	4.5	6.5	7.8	9.7	11.7	14.9	18.2	20.1	20.8	21.4	21.4
157.5°	3.2	4.5	5.2	7.1	8.4	9.7	12.3	15.6	16.2	16.2	16.2
160°	1.9	2.6	3.2	4.5	5.2	6.5	7.8	9.7	11.7	11.7	11.7
162.5°	1.3	1.9	1.9	2.6	2.6	3.9	4.5	5.2	7.1	7.8	7.8
165°	0.6	1.3	1.3	1.3	1.3	1.3	1.9	1.9	3.2	3.9	3.9
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-LD5-30SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9
2.5°	614.6	615.9	615.3	615.3	615.3	616.6	615.3	609.4	610.7	612.0	613.3
5°	614.0	614.6	614.6	614.0	614.0	615.3	614.0	608.1	609.4	610.7	611.4
7.5°	611.4	612.0	612.0	612.0	611.4	612.7	610.7	605.5	605.5	606.8	607.5
10°	608.1	609.4	608.8	608.1	608.1	608.1	606.8	601.0	601.0	601.6	602.3
12.5°	604.2	604.2	604.2	603.6	602.9	602.9	601.6	595.8	595.1	596.4	595.8
15°	599.0	600.3	599.0	598.4	597.1	597.1	595.1	589.3	588.0	588.6	588.0
17.5°	594.5	595.1	593.8	592.5	591.2	590.6	588.6	582.2	580.2	580.9	579.6
20°	589.9	589.9	588.6	587.3	585.4	583.5	580.9	574.4	571.1	571.1	568.5
22.5°	584.1	584.1	582.8	580.9	578.9	576.3	573.7	567.2	562.0	560.7	558.8
25°	577.6	577.0	576.3	574.4	570.5	567.9	565.3	558.1	552.3	549.7	546.4
27.5°	569.8	569.8	567.9	565.9	562.0	558.8	555.5	549.0	541.2	538.0	533.4
30°	561.4	561.4	559.4	556.8	552.9	549.0	545.1	537.3	529.5	525.0	519.8
32.5°	552.9	552.3	550.3	547.7	543.8	538.0	534.7	526.9	517.8	512.6	505.5
35°	542.5	541.9	539.9	536.7	531.5	526.9	521.7	514.6	504.2	497.7	489.9
37.5°	532.1	531.5	530.2	525.6	520.4	515.2	508.7	501.6	491.8	483.4	475.6
40°	521.7	521.1	518.5	515.2	508.7	502.2	495.7	488.6	478.2	468.4	460.0
42.5°	510.7	510.0	506.8	502.9	495.7	489.2	481.4	473.6	463.3	451.6	443.1
45°	499.6	498.3	495.1	490.5	482.7	475.6	467.8	458.7	448.3	437.3	426.2
47.5°	487.9	486.0	482.7	476.2	469.7	462.0	452.9	443.1	432.7	420.4	408.7
50°	474.9	473.6	469.7	463.9	456.1	448.3	437.9	428.2	415.8	404.1	389.8
52.5°	462.6	460.0	456.8	450.3	442.5	434.0	423.0	411.3	398.9	387.9	372.9
55°	449.6	448.3	443.8	438.6	428.8	419.1	408.7	396.3	382.7	369.7	355.4
57.5°	437.3	434.7	430.8	423.6	415.2	405.4	394.4	381.4	366.4	352.8	337.2
60°	424.9	421.0	416.5	410.0	400.9	390.5	378.8	365.1	350.2	335.3	319.0
62.5°	411.3	408.0	402.8	396.3	387.2	376.2	363.8	349.6	335.3	319.7	302.1
65°	397.6	394.4	389.2	382.7	373.6	361.2	348.3	334.0	317.7	302.8	283.9
67.5°	384.0	380.7	374.9	367.7	358.6	347.0	333.3	318.4	302.1	285.9	266.4
70°	370.3	366.4	361.2	353.4	344.4	332.0	318.4	302.8	286.5	269.0	249.5
72.5°	356.7	353.4	347.0	339.8	330.1	317.7	304.1	288.5	271.6	253.4	233.9
75°	343.1	339.2	334.6	326.2	315.8	304.1	289.8	274.2	256.0	238.4	218.3
77.5°	329.4	326.2	320.3	311.9	302.1	289.8	275.5	259.9	241.7	223.5	202.1
80°	315.8	311.9	307.3	299.5	288.5	276.1	261.2	245.6	227.4	208.6	187.1
82.5°	302.1	298.2	293.0	285.2	274.8	262.5	248.2	231.3	213.1	193.6	173.5
85°	288.5	285.2	279.4	271.6	260.5	248.2	233.9	219.0	199.5	180.0	159.8
87.5°	274.8	271.6	265.7	257.9	247.5	235.2	220.9	205.3	186.5	168.3	146.2
90°	261.8	259.2	253.4	245.6	235.2	222.9	209.9	193.0	174.8	156.6	135.8
92.5°	250.1	247.5	242.3	234.5	225.5	211.8	198.8	182.6	164.4	145.5	125.4
95°	239.7	236.5	231.3	224.2	213.1	201.4	188.4	172.2	154.6	135.8	116.3
97.5°	228.1	224.8	219.6	211.8	202.7	190.4	177.4	161.8	144.2	126.7	107.2
100°	216.4	213.1	207.3	200.8	191.7	179.3	167.0	151.4	135.1	118.2	99.4
102.5°	204.7	201.4	196.2	189.7	180.6	169.6	157.2	142.3	126.0	109.2	91.6
105°	193.6	190.4	185.2	178.7	170.2	159.2	146.2	133.2	117.6	101.4	84.5
107.5°	182.6	179.3	174.8	168.3	159.8	149.4	137.1	123.4	109.2	93.6	77.3
110°	171.5	168.9	163.7	157.9	149.4	139.0	128.0	115.0	100.7	86.4	70.8





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	161.1	158.5	153.3	146.8	139.7	129.9	118.9	106.6	92.9	79.3	64.3
115°	150.7	147.5	142.9	137.1	129.9	120.8	110.5	99.4	85.8	72.8	59.1
117.5°	140.3	137.7	133.2	127.3	120.8	111.8	102.0	91.6	78.6	66.3	53.9
120°	129.9	128.0	123.4	118.2	111.8	103.3	94.2	83.8	72.1	60.4	48.7
122.5°	120.2	118.2	113.7	109.2	102.7	94.9	86.4	76.7	66.3	55.2	44.8
125°	111.1	108.5	104.6	100.1	94.2	87.1	78.6	69.5	59.8	50.0	40.3
127.5°	101.4	99.4	96.8	91.6	85.8	79.3	71.5	63.7	54.6	45.5	36.4
130°	93.6	91.0	87.7	83.8	78.6	72.1	65.0	57.2	49.4	40.9	31.8
132.5°	84.5	81.9	79.3	75.4	70.8	65.0	58.5	51.3	44.2	36.4	28.6
135°	76.0	74.1	71.5	67.6	63.0	58.5	52.0	45.5	39.0	31.8	25.3
137.5°	68.2	66.3	63.7	61.1	56.5	52.0	46.1	40.3	34.4	27.9	22.1
140°	60.4	59.1	56.5	53.9	50.0	45.5	40.3	35.1	29.9	24.0	18.8
142.5°	52.6	51.3	49.4	46.8	43.5	39.6	35.1	30.5	25.3	20.8	16.2
145°	45.5	44.8	42.9	40.3	37.7	33.8	29.9	26.0	21.4	17.5	13.0
147.5°	38.3	37.7	36.4	34.4	31.8	28.6	25.3	21.4	18.2	14.3	10.4
150°	31.8	31.2	30.5	27.9	26.6	23.4	20.8	17.5	14.9	11.0	8.4
152.5°	26.0	26.0	24.7	22.7	21.4	18.8	16.9	14.3	11.7	9.1	6.5
155°	20.8	20.1	19.5	18.2	16.9	14.9	13.0	11.0	9.1	6.5	4.5
157.5°	16.2	15.6	14.9	13.6	12.3	11.7	9.7	7.8	5.8	4.5	3.2
160°	11.7	11.0	10.4	9.7	9.1	7.8	6.5	5.2	3.9	2.6	1.9
162.5°	7.8	7.1	7.1	6.5	5.8	4.5	3.9	3.2	2.6	1.9	1.3
165°	3.9	3.9	3.2	3.2	2.6	1.9	1.9	1.9	1.3	1.3	0.6
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: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	615.9	615.9	615.9	615.9	615.9	615.9	615.9
2.5°	612.7	612.7	615.3	614.6	612.7	616.6	621.1
5°	610.7	610.7	612.7	612.7	610.7	614.6	618.5
7.5°	607.5	606.8	608.8	608.8	606.2	609.4	614.0
10°	601.6	601.0	602.9	602.9	600.3	603.6	607.5
12.5°	595.1	593.8	595.8	595.1	592.5	595.8	599.7
15°	586.7	586.0	587.3	586.0	583.5	586.7	590.6
17.5°	578.3	576.3	577.0	577.0	572.4	575.7	578.9
20°	567.2	564.6	565.3	564.6	561.4	563.3	567.2
22.5°	556.2	552.3	552.3	551.6	547.7	550.3	553.6
25°	542.5	538.0	538.0	537.3	532.8	534.7	538.0
27.5°	528.9	524.3	522.4	521.7	517.2	517.2	521.7
30°	514.6	508.1	506.8	504.8	500.3	500.3	504.2
32.5°	500.9	491.8	489.2	486.6	482.1	481.4	486.0
35°	482.7	475.6	471.0	468.4	463.3	462.0	465.9
37.5°	467.8	458.7	452.2	449.0	443.8	441.8	447.0
40°	451.6	441.8	433.4	431.4	423.6	421.0	425.6
42.5°	433.4	423.0	414.5	410.6	404.8	402.2	402.8
45°	415.2	404.1	395.0	389.8	384.0	379.4	382.0
47.5°	396.3	386.6	375.5	367.7	360.6	357.3	358.6
50°	377.5	365.8	355.4	347.0	338.5	334.6	337.2
52.5°	358.6	346.3	334.6	325.5	315.8	311.9	312.5
55°	340.5	327.5	313.8	304.1	295.0	289.1	287.8
57.5°	322.3	308.0	293.7	282.6	270.9	265.7	263.8
60°	302.8	287.8	272.9	259.9	247.5	241.7	239.1
62.5°	284.6	268.3	251.4	237.8	225.5	217.7	215.7
65°	267.0	248.2	231.3	215.7	202.1	193.6	191.0
67.5°	248.2	228.7	210.5	193.6	180.6	169.6	168.3
70°	230.7	209.9	189.7	172.2	157.9	146.8	141.6
72.5°	213.1	191.7	170.9	152.0	133.8	123.4	119.5
75°	196.2	174.1	152.0	132.5	112.4	100.1	96.2
77.5°	180.6	157.9	134.5	113.1	94.2	78.6	73.4
80°	165.7	142.3	117.6	95.5	75.4	58.5	52.6
82.5°	150.1	128.0	102.7	79.3	58.5	40.9	33.8
85°	136.4	114.4	89.0	65.6	44.8	26.0	18.2
87.5°	125.4	101.4	78.6	55.2	33.8	14.9	5.2
90°	114.4	91.0	68.2	45.5	25.3	8.4	0.6
92.5°	104.6	82.5	59.8	39.0	19.5	5.8	0.6
95°	95.5	74.1	52.6	32.5	15.6	3.9	0.6
97.5°	87.1	66.9	46.8	27.9	13.0	3.2	0.6
100°	79.9	60.4	41.6	24.7	11.0	2.6	0.6
102.5°	72.8	54.6	37.0	21.4	9.7	1.9	0.6
105°	66.9	49.4	33.1	19.5	8.4	1.9	0.6
107.5°	61.1	44.8	29.9	16.9	7.1	1.3	0.6
110°	55.2	40.9	26.6	14.9	6.5	1.3	0.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	50.7	37.0	24.0	13.6	5.2	1.3	0.6
115°	46.1	33.1	21.4	11.7	4.5	0.6	0.6
117.5°	41.6	29.9	18.8	10.4	3.9	0.6	0.6
120°	37.7	26.6	16.9	9.1	3.2	0.6	0.6
122.5°	33.8	24.0	14.9	7.8	2.6	0.6	0.6
125°	30.5	21.4	13.0	6.5	1.9	0.6	0.6
127.5°	27.3	18.8	11.7	5.8	1.9	0.6	0.6
130°	24.0	16.9	9.7	4.5	1.3	0.6	0.6
132.5°	21.4	14.3	8.4	3.9	1.3	0.6	0.6
135°	18.8	12.3	7.1	2.6	1.3	0.6	0.6
137.5°	16.2	10.4	5.8	1.9	0.6	0.6	0.6
140°	13.6	9.1	4.5	1.9	0.6	0.6	0.6
142.5°	11.7	7.1	3.2	1.3	0.6	0.6	0.6
145°	9.1	5.8	2.6	1.3	0.6	0.6	0.6
147.5°	7.1	4.5	1.9	1.3	0.6	0.6	0.6
150°	5.2	3.2	1.9	0.6	0.6	0.6	0.6
152.5°	3.9	2.6	1.3	0.6	0.6	0.6	0.6
155°	2.6	1.9	1.3	0.6	0.6	0.6	0.6
157.5°	1.9	1.3	0.6	0.6	0.6	0.6	0.6
160°	1.3	0.6	0.6	0.6	0.6	0.6	0.6
162.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6
165°	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)