

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-L950-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-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

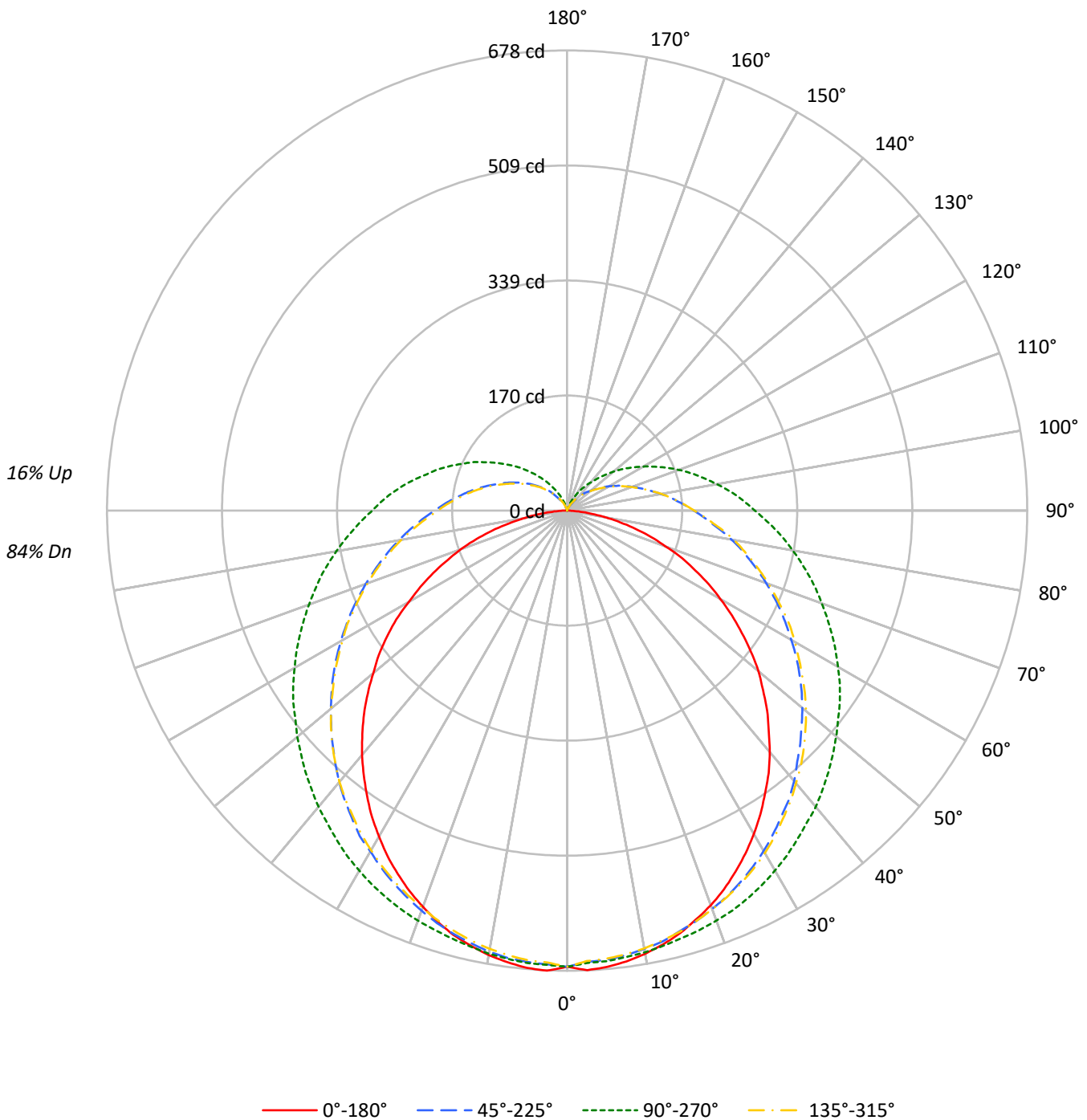
Lumens per Lamp: N/A  
Luminaire Lumens: 2920.0 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Semi-Direct

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#  
CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L950-CD1-U

### 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°	5431	5431	5431	5431
5°	5460	5234	5472	5257
10°	5410	5086	5427	5102
15°	5346	4958	5370	4964
20°	5262	4865	5281	4865
25°	5159	4783	5190	4778
30°	5043	4697	5082	4697
35°	4907	4619	4962	4625
40°	4774	4573	4831	4573
45°	4620	4524	4691	4530
50°	4460	4495	4520	4508
55°	4236	4500	4370	4519
60°	4000	4513	4130	4542
65°	3735	4558	3901	4604
70°	3364	4642	3625	4708
75°	2933	4795	3213	4887
80°	2269	5020	2577	5136
85°	1360	5380	1694	5529



TEST NUMBER: P#

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.7	2.2
10°-20°	183.0	6.3
20°-30°	280.6	9.6
30°-40°	346.1	11.9
40°-50°	375.5	12.9
50°-60°	370.1	12.7
60°-70°	334.6	11.5
70°-80°	278.8	9.5
80°-90°	215.9	7.4
90°-100°	163.7	5.6
100°-110°	121.2	4.2
110°-120°	84.3	2.9
120°-130°	53.8	1.8
130°-140°	30.2	1.0
140°-150°	13.8	0.5
150°-160°	4.3	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	527.2	18.1
0°-40°	873.3	29.9
0°-60°	1618.9	55.4
0°-90°	2448.2	83.8
90°-120°	369.2	12.6
90°-150°	467.0	16.0
90°-180°	472.0	16.2
0°-180°	2920.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	672	672	672	672	672	
5°	675	666	676	669	675	64
15°	644	652	647	653	644	182
25°	587	630	591	630	587	270
35°	508	591	514	592	508	318
45°	417	544	423	545	417	321
55°	314	491	324	493	314	281
65°	208	430	218	435	208	207
75°	105	369	115	376	105	111
85°	20	307	25	316	20	24
90°	1	276	1	287	1	1
95°	1	251	1	263	1	1
105°	1	199	1	211	1	1
115°	1	152	1	165	1	1
125°	1	109	1	121	1	1
135°	1	71	1	84	1	1
145°	1	41	1	50	1	0
155°	1	17	1	23	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-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1
2.5°	677.8	677.8	677.1	675.6	676.4	678.5	677.1	673.5	671.4	665.7	667.1
5°	674.9	674.9	674.2	672.8	673.5	676.4	674.9	672.1	669.3	664.3	666.4
7.5°	670.0	670.0	669.3	667.8	669.3	672.1	670.7	667.8	665.7	660.8	662.9
10°	662.9	663.6	662.9	660.8	663.6	666.4	665.7	662.2	660.0	655.8	657.9
12.5°	654.4	655.1	654.4	653.7	655.1	659.3	657.9	655.1	653.7	650.1	652.2
15°	644.4	645.2	643.7	643.7	645.2	649.4	649.4	646.6	645.2	641.6	645.9
17.5°	631.7	632.4	631.7	631.7	633.1	637.4	638.1	636.7	635.2	633.8	638.1
20°	618.9	618.2	618.2	617.5	620.3	626.7	626.0	626.0	624.6	624.6	629.6
22.5°	604.0	604.0	603.3	603.3	606.9	612.5	612.5	614.0	612.5	615.4	619.6
25°	587.0	587.7	587.0	588.4	591.3	597.7	598.4	600.5	601.2	604.0	609.0
27.5°	569.3	570.0	569.3	570.7	575.7	580.6	584.2	587.0	587.7	592.0	598.4
30°	550.2	550.2	550.9	552.3	558.0	565.8	568.6	572.1	572.1	579.2	585.6
32.5°	530.3	530.3	530.3	533.1	539.5	548.7	552.3	556.5	558.0	565.0	572.1
35°	508.3	509.0	509.0	511.2	519.7	528.9	533.9	538.8	541.6	550.2	557.2
37.5°	487.8	489.2	487.1	489.9	501.9	509.7	515.4	520.4	525.3	536.7	542.4
40°	464.4	465.8	465.1	470.8	480.7	490.6	497.0	501.9	509.0	520.4	526.8
42.5°	439.6	441.0	442.4	448.8	459.4	469.3	477.1	483.5	492.0	501.9	512.6
45°	416.9	416.9	419.0	426.8	438.1	448.8	458.0	465.1	475.0	485.6	496.3
47.5°	391.3	392.1	394.9	404.1	416.2	428.9	437.4	446.6	457.3	468.6	480.7
50°	368.0	368.0	372.2	382.1	393.5	407.7	416.9	427.5	438.8	452.3	464.4
52.5°	341.0	342.4	348.8	358.0	372.9	385.7	396.3	407.7	421.1	435.3	448.8
55°	314.1	316.9	321.9	334.6	350.2	362.3	375.0	389.2	402.0	417.6	433.2
57.5°	287.8	290.0	297.8	310.5	326.8	341.7	355.2	368.7	384.3	399.9	416.2
60°	260.9	263.7	273.0	285.7	303.4	319.0	334.6	348.8	365.1	381.4	398.4
62.5°	235.4	237.5	248.1	263.0	280.7	297.8	313.4	330.4	348.1	363.7	380.7
65°	208.4	212.0	224.0	237.5	258.1	275.1	292.8	311.2	329.7	346.7	363.0
67.5°	183.6	185.7	198.5	214.1	234.7	253.8	272.2	292.1	311.2	329.0	345.3
70°	154.6	161.6	174.4	190.7	212.7	232.5	252.4	273.0	293.5	311.9	327.5
72.5°	130.4	136.1	150.3	168.0	189.3	212.7	233.2	255.2	275.8	294.9	311.2
75°	104.9	110.6	126.9	146.8	168.7	193.5	214.8	237.5	258.8	277.9	294.9
77.5°	80.1	87.2	104.9	125.5	149.6	175.1	197.1	219.8	241.8	262.3	279.3
80°	57.4	65.2	84.4	107.8	131.2	156.7	180.8	203.5	225.5	246.0	263.7
82.5°	36.9	45.4	65.9	89.3	114.1	139.7	164.5	187.2	209.1	229.7	248.1
85°	19.9	29.1	50.3	73.7	98.5	124.1	148.9	173.0	194.3	213.4	233.2
87.5°	5.7	17.0	37.6	61.0	86.5	109.9	134.0	158.1	179.4	199.9	217.7
90°	0.7	9.9	28.4	50.3	75.2	97.8	121.9	144.6	165.9	186.5	204.2
92.5°	0.7	6.4	22.0	41.8	64.5	87.9	112.0	134.0	153.8	174.4	192.1
95°	0.7	5.0	17.7	35.4	56.7	78.7	101.4	122.7	143.2	162.4	180.1
97.5°	0.7	3.5	14.2	30.5	49.6	70.2	92.2	113.4	133.3	151.7	168.0
100°	0.7	2.8	11.3	26.2	43.2	63.1	82.9	103.5	122.7	140.4	157.4
102.5°	0.7	2.1	9.9	22.0	38.3	56.0	75.2	94.3	112.7	129.7	146.8
105°	0.7	2.1	8.5	19.1	34.0	50.3	68.1	86.5	103.5	119.8	135.4
107.5°	0.7	1.4	7.1	16.3	29.8	45.4	61.7	79.4	95.0	110.6	125.5
110°	0.7	1.4	5.7	14.9	26.2	40.4	56.0	72.3	87.2	102.1	116.3



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.7	1.4	5.0	12.8	22.7	36.2	50.3	65.2	79.4	94.3	107.1
115°	0.7	1.4	4.3	11.3	21.3	31.2	45.4	58.8	73.0	86.5	98.5
117.5°	0.7	1.4	3.5	9.2	18.4	28.4	39.7	53.2	65.9	78.7	90.0
120°	0.7	1.4	2.8	8.5	16.3	25.5	35.4	47.5	59.6	71.6	83.7
122.5°	0.7	0.7	2.8	7.1	14.2	22.7	32.6	41.8	53.2	64.5	75.2
125°	0.7	0.7	2.8	6.4	12.1	20.6	29.1	37.6	47.5	57.4	66.6
127.5°	0.7	0.7	2.1	5.0	10.6	17.7	25.5	34.7	41.8	51.0	60.3
130°	0.7	0.7	2.1	4.3	9.2	14.9	22.7	30.5	39.0	45.4	53.2
132.5°	0.7	0.7	2.1	3.5	7.1	12.1	19.1	26.2	34.0	41.1	47.5
135°	0.7	0.7	1.4	2.8	5.7	9.9	15.6	22.0	29.8	36.9	43.2
137.5°	0.7	0.7	1.4	2.8	4.3	8.5	12.1	17.7	24.8	31.2	37.6
140°	0.7	0.7	1.4	2.1	3.5	6.4	9.9	14.2	19.9	25.5	32.6
142.5°	0.7	0.7	0.7	2.1	2.8	5.0	7.8	11.3	15.6	20.6	26.2
145°	0.7	0.7	0.7	2.1	2.8	3.5	6.4	9.2	12.1	15.6	20.6
147.5°	0.7	0.7	0.7	1.4	2.1	2.8	5.0	7.1	9.2	12.1	14.9
150°	0.7	0.7	0.7	1.4	2.1	2.8	3.5	5.0	7.1	9.9	12.1
152.5°	0.7	0.7	0.7	1.4	1.4	2.1	2.8	3.5	5.0	7.1	8.5
155°	0.7	0.7	0.7	0.7	1.4	2.1	2.8	2.8	3.5	5.0	6.4
157.5°	0.7	0.7	0.7	0.7	1.4	1.4	2.1	2.1	2.8	2.8	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



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1
2.5°	667.1	667.8	670.0	670.0	668.6	668.6	667.8	667.1	667.8	669.3	669.3
5°	665.7	666.4	668.6	669.3	667.8	667.1	667.1	666.4	667.1	668.6	668.6
7.5°	662.9	663.6	665.7	666.4	665.0	665.0	664.3	663.6	665.0	665.7	665.7
10°	658.6	659.3	662.2	662.9	662.2	661.5	661.5	660.8	661.5	662.9	662.9
12.5°	653.0	654.4	657.9	657.9	657.9	657.2	657.2	656.5	657.2	658.6	657.9
15°	646.6	649.4	652.2	653.7	653.7	653.7	653.0	652.2	653.7	654.4	653.7
17.5°	639.5	643.0	647.3	648.7	648.7	649.4	648.7	648.0	649.4	649.4	648.7
20°	632.4	635.9	640.2	641.6	643.0	643.7	643.7	643.0	643.7	644.4	643.7
22.5°	623.2	627.4	632.4	634.5	635.9	637.4	637.4	637.4	638.1	638.8	637.4
25°	613.3	618.2	623.9	626.0	628.9	629.6	630.3	630.3	631.0	631.7	629.6
27.5°	602.6	608.3	614.0	617.5	619.6	621.1	621.1	621.8	622.5	623.2	621.1
30°	589.9	598.4	603.3	606.2	609.0	611.1	611.8	612.5	613.3	614.0	611.8
32.5°	578.5	585.6	592.0	595.5	599.1	601.9	602.6	602.6	604.0	604.0	601.9
35°	565.0	573.6	579.9	583.5	587.7	589.9	591.3	591.3	592.7	592.7	590.6
37.5°	551.6	560.1	567.2	571.4	576.4	579.2	579.9	579.9	581.4	581.4	578.5
40°	537.4	546.6	554.4	559.4	563.6	567.2	567.9	570.0	570.0	569.3	566.5
42.5°	523.2	531.7	540.2	545.9	551.6	555.1	556.5	557.2	557.2	556.5	554.4
45°	507.6	517.5	525.3	532.4	538.1	541.6	543.8	544.5	544.5	543.1	540.9
47.5°	492.7	502.7	510.5	518.3	523.9	528.2	530.3	531.0	530.3	529.6	527.5
50°	477.1	488.5	496.3	504.1	509.7	513.3	516.8	517.5	516.8	516.1	511.9
52.5°	460.8	472.9	481.4	489.2	495.6	499.8	502.7	503.4	503.4	501.9	499.1
55°	444.5	455.2	465.8	474.3	481.4	485.6	489.2	490.6	489.2	487.8	484.2
57.5°	429.6	439.6	450.2	459.4	466.5	472.2	475.0	476.4	475.0	472.9	469.3
60°	411.9	422.5	434.6	443.1	450.9	456.6	458.0	460.8	459.4	457.3	453.7
62.5°	394.9	407.7	418.3	428.9	435.3	441.7	444.5	445.9	444.5	442.4	438.8
65°	377.2	391.3	402.0	412.6	419.7	426.1	429.6	430.3	428.9	426.8	423.3
67.5°	360.9	374.3	385.7	397.0	403.4	409.8	413.3	414.7	413.3	410.5	406.9
70°	344.6	358.0	371.5	380.0	387.8	394.9	397.0	399.1	397.7	394.9	390.6
72.5°	328.3	342.4	355.9	364.4	372.9	379.3	382.1	384.3	382.8	380.0	375.0
75°	311.2	326.1	339.6	348.8	357.3	363.7	366.5	368.7	367.2	364.4	358.7
77.5°	295.6	310.5	323.3	333.2	341.7	347.4	352.4	353.1	351.6	348.8	343.1
80°	279.3	294.2	307.7	317.6	326.1	331.8	335.3	337.5	336.0	333.2	327.5
82.5°	265.2	278.6	292.1	302.0	310.5	317.6	320.5	322.6	321.9	317.6	313.4
85°	249.6	265.2	275.8	286.4	294.9	302.0	304.1	307.0	306.3	302.7	297.1
87.5°	234.0	249.6	262.3	273.0	280.7	286.4	290.0	291.4	290.7	287.1	280.7
90°	221.2	235.4	248.1	259.5	265.9	272.2	275.8	276.5	276.5	272.2	267.3
92.5°	209.1	222.6	235.4	246.0	253.8	259.5	262.3	263.7	263.0	259.5	253.8
95°	195.7	210.6	222.6	233.2	241.0	246.7	249.6	251.0	250.3	246.7	241.0
97.5°	184.3	197.8	209.9	219.8	227.6	233.2	236.1	237.5	237.5	234.0	228.3
100°	173.0	186.5	197.8	207.7	214.8	220.5	223.3	224.0	223.3	220.5	214.8
102.5°	161.6	174.4	185.7	195.0	202.8	207.7	210.6	211.3	211.3	207.7	202.1
105°	150.3	163.1	173.7	183.6	190.0	195.0	197.1	199.2	198.5	195.7	190.0
107.5°	139.7	152.4	162.4	171.6	178.0	182.9	185.0	187.2	186.5	183.6	178.0
110°	129.7	141.8	151.0	160.2	165.9	170.9	174.4	175.1	173.7	170.9	165.9





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	120.5	131.2	140.4	148.9	155.3	158.8	161.6	163.1	161.6	158.8	155.3
115°	110.6	121.2	130.4	138.2	143.9	148.2	150.3	151.7	150.3	147.5	143.9
117.5°	101.4	111.3	120.5	128.3	133.3	136.8	139.0	140.4	139.0	136.8	133.3
120°	93.6	102.1	110.6	117.7	123.4	126.2	128.3	129.7	129.0	126.2	122.7
122.5°	84.4	93.6	101.4	108.5	113.4	116.3	117.7	119.1	118.4	116.3	112.7
125°	76.6	84.4	92.2	98.5	103.5	106.3	107.8	109.2	108.5	106.3	102.1
127.5°	68.1	76.6	82.9	89.3	92.9	97.1	97.8	99.3	98.5	96.4	92.9
130°	61.7	68.1	74.4	80.1	84.4	87.2	88.6	89.3	87.9	86.5	82.9
132.5°	53.9	61.0	66.6	71.6	74.4	77.3	78.7	79.4	79.4	77.3	74.4
135°	48.2	53.2	58.1	63.1	65.9	68.8	70.2	70.9	70.2	68.8	65.9
137.5°	43.2	47.5	51.0	55.3	58.8	60.3	61.7	61.7	61.0	60.3	58.1
140°	37.6	42.5	46.1	48.9	51.8	52.5	53.9	53.9	53.2	52.5	51.0
142.5°	31.9	36.2	39.7	43.2	45.4	46.8	47.5	48.2	47.5	46.8	44.7
145°	25.5	30.5	34.0	36.2	39.0	39.7	40.4	41.1	40.4	39.7	37.6
147.5°	19.9	24.1	27.6	30.5	32.6	33.3	34.0	34.7	34.0	32.6	31.9
150°	14.2	17.7	22.0	24.8	26.2	27.6	27.6	27.6	28.4	26.9	25.5
152.5°	11.3	12.8	15.6	18.4	20.6	21.3	22.0	22.0	21.3	21.3	19.9
155°	7.8	9.2	11.3	13.5	15.6	16.3	17.0	17.0	16.3	16.3	15.6
157.5°	5.0	6.4	7.8	9.2	11.3	12.1	12.8	12.8	12.8	12.1	11.3
160°	2.8	3.5	4.3	5.7	7.1	7.8	8.5	8.5	8.5	8.5	7.8
162.5°	2.1	2.1	2.1	2.8	3.5	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	2.8	2.8	2.8	2.8	2.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1
2.5°	668.6	668.6	669.3	667.8	663.6	664.3	664.3	667.1	668.6	669.3	672.8
5°	667.1	667.1	668.6	666.4	662.9	662.9	662.9	665.7	666.4	667.8	670.7
7.5°	665.0	665.0	665.7	663.6	659.3	659.3	658.6	661.5	662.9	663.6	666.4
10°	661.5	661.5	662.2	660.0	655.1	655.1	654.4	656.5	657.2	658.6	660.8
12.5°	656.5	656.5	656.5	654.4	649.4	648.7	648.0	650.1	650.1	650.8	653.0
15°	652.2	650.8	650.8	648.7	643.7	642.3	640.9	641.6	643.0	642.3	643.7
17.5°	647.3	645.9	644.4	642.3	635.9	633.8	632.4	633.1	632.4	631.7	633.1
20°	641.6	639.5	638.8	635.2	628.9	625.3	622.5	621.1	621.8	619.6	620.3
22.5°	635.2	632.4	631.0	626.7	620.3	616.1	612.5	609.7	609.0	606.2	606.9
25°	627.4	623.9	621.8	618.2	611.1	606.2	601.9	597.7	595.5	592.0	591.3
27.5°	618.2	614.7	611.8	608.3	601.2	594.8	589.9	584.2	581.4	577.1	575.0
30°	609.0	604.7	600.5	597.7	589.9	582.8	575.0	570.0	565.8	560.8	557.2
32.5°	597.7	593.4	589.1	584.9	577.8	569.3	562.9	555.1	550.2	544.5	540.2
35°	586.3	580.6	576.4	570.7	564.3	554.4	546.6	538.8	532.4	526.1	521.1
37.5°	573.6	569.3	562.9	558.0	550.2	540.2	531.7	521.8	516.1	507.6	501.2
40°	561.5	556.5	550.2	543.8	536.0	524.6	515.4	504.1	497.7	487.8	481.4
42.5°	549.4	542.4	536.0	528.9	520.4	509.7	498.4	487.1	478.6	469.3	460.1
45°	536.0	528.2	520.4	512.6	504.1	493.4	481.4	469.3	458.7	450.2	438.8
47.5°	521.8	514.0	504.8	496.3	487.1	476.4	463.7	450.9	439.6	429.6	417.6
50°	507.6	499.8	489.9	480.7	470.0	459.4	445.9	431.1	419.0	406.2	395.6
52.5°	492.7	484.9	475.7	463.7	452.3	441.7	427.5	411.9	398.4	387.8	374.3
55°	477.8	470.0	459.4	447.4	436.0	422.5	409.1	393.5	378.6	365.8	352.4
57.5°	462.2	455.2	443.1	433.2	419.0	404.8	390.6	375.8	359.4	344.6	329.0
60°	446.6	438.8	427.5	415.5	401.3	387.1	372.2	355.9	338.9	322.6	308.4
62.5°	432.5	422.5	411.9	399.1	384.3	370.8	353.8	336.0	319.0	302.0	285.0
65°	416.2	405.5	395.6	382.8	367.2	351.6	334.6	316.9	298.5	280.0	263.0
67.5°	399.9	389.2	378.6	365.8	349.5	333.2	315.5	297.8	277.2	259.5	239.6
70°	383.5	375.0	361.6	348.1	333.2	315.5	297.8	278.6	257.4	238.2	217.7
72.5°	367.2	358.7	345.3	331.1	316.9	298.5	279.3	260.2	240.3	218.4	196.4
75°	351.6	341.0	329.0	315.5	300.6	281.5	262.3	242.5	219.1	198.5	175.8
77.5°	336.8	326.8	314.8	299.9	283.6	265.2	245.3	224.7	201.3	179.4	154.6
80°	320.5	310.5	298.5	283.6	267.3	249.6	228.3	207.0	184.3	160.2	134.7
82.5°	304.9	295.6	282.2	268.7	251.0	233.2	212.0	190.7	166.6	143.2	118.4
85°	288.5	279.3	266.6	252.4	235.4	216.2	196.4	175.1	151.0	126.9	102.1
87.5°	274.4	263.7	251.0	236.8	219.8	201.3	182.2	159.5	136.1	112.7	87.2
90°	259.5	249.6	236.8	222.6	205.6	187.2	167.3	146.0	123.4	99.3	75.2
92.5°	246.7	236.1	224.0	209.9	192.8	175.1	155.3	134.0	112.0	88.6	65.2
95°	234.0	223.3	212.0	197.8	180.8	163.1	143.2	122.7	101.4	78.7	56.7
97.5°	219.8	210.6	199.2	185.7	168.7	151.7	132.6	112.7	92.2	70.2	49.6
100°	208.4	197.8	187.2	173.0	157.4	141.1	121.9	102.8	82.9	62.4	43.2
102.5°	195.7	185.7	175.1	161.6	146.0	129.7	112.0	93.6	75.2	56.0	37.6
105°	183.6	174.4	163.1	150.3	135.4	119.8	102.8	85.8	68.1	49.6	33.3
107.5°	171.6	162.4	151.7	139.7	125.5	109.9	94.3	77.3	61.0	44.7	29.8
110°	159.5	151.0	141.1	129.0	115.6	101.4	86.5	70.9	54.6	39.7	26.2



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	148.9	140.4	130.4	119.1	106.3	92.9	78.7	63.8	48.9	35.4	22.7
115°	138.2	130.4	120.5	110.6	97.8	85.1	71.6	57.4	44.0	31.9	19.9
117.5°	127.6	119.8	110.6	100.7	89.3	77.3	64.5	51.0	39.7	28.4	17.7
120°	117.0	109.9	101.4	92.2	82.2	70.2	57.4	46.1	35.4	24.8	15.6
122.5°	107.1	100.7	92.9	84.4	73.7	62.4	51.8	41.8	31.9	22.0	12.8
125°	97.8	91.5	84.4	75.9	65.9	56.0	46.8	37.6	27.6	19.1	10.6
127.5°	88.6	82.2	75.2	67.4	59.6	50.3	41.8	33.3	24.8	17.0	9.2
130°	79.4	73.7	67.4	61.0	53.2	44.7	37.6	29.1	21.3	13.5	7.8
132.5°	70.2	65.9	60.3	53.9	46.8	40.4	32.6	25.5	18.4	12.1	7.1
135°	62.4	58.1	53.2	47.5	41.8	35.4	28.4	22.0	15.6	9.9	5.7
137.5°	55.3	51.8	46.8	41.8	36.9	30.5	24.8	18.4	12.8	8.5	4.3
140°	48.9	45.4	41.1	36.2	31.9	26.2	20.6	14.9	11.3	7.1	3.5
142.5°	42.5	39.0	35.4	31.2	26.9	22.0	17.0	12.8	9.2	5.7	3.5
145°	36.2	33.3	29.8	26.2	22.0	17.7	14.2	10.6	7.1	4.3	2.8
147.5°	29.8	27.6	24.1	21.3	17.7	14.2	11.3	8.5	5.7	3.5	2.1
150°	24.1	22.0	19.1	16.3	14.2	11.3	9.2	6.4	4.3	3.5	2.1
152.5°	18.4	17.0	14.9	13.5	11.3	8.5	6.4	5.0	3.5	2.8	1.4
155°	14.9	13.5	12.1	9.9	8.5	6.4	5.0	3.5	2.8	2.1	1.4
157.5°	10.6	9.9	8.5	7.1	5.7	4.3	3.5	3.5	2.1	1.4	0.7
160°	7.1	6.4	5.7	4.3	3.5	3.5	2.8	2.1	1.4	1.4	0.7
162.5°	4.3	3.5	3.5	3.5	2.8	2.8	2.1	1.4	1.4	0.7	0.7
165°	2.8	2.8	2.8	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-LD5-30SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1
2.5°	672.8	670.7	673.5	678.5	679.2	678.5	677.1	679.2	682.0	681.3	676.4
5°	671.4	668.6	671.4	676.4	676.4	675.6	674.9	677.1	679.9	679.2	674.9
7.5°	667.1	664.3	667.1	671.4	672.1	670.7	670.7	672.8	675.6	674.9	671.4
10°	661.5	658.6	660.0	665.0	666.4	665.0	665.0	667.1	670.7	670.0	665.7
12.5°	653.0	650.8	652.2	656.5	657.9	657.2	656.5	659.3	662.9	662.9	658.6
15°	643.7	640.9	642.3	647.3	648.0	646.6	647.3	649.4	653.7	653.7	650.1
17.5°	633.1	629.6	631.7	635.2	635.9	635.9	635.9	638.8	643.7	643.0	640.2
20°	621.1	616.1	617.5	621.1	622.5	622.5	622.5	627.4	631.0	631.0	628.1
22.5°	606.9	603.3	603.3	606.9	609.0	608.3	608.3	612.5	617.5	616.8	616.8
25°	590.6	587.7	586.3	590.6	591.3	592.0	593.4	597.7	603.3	603.3	604.0
27.5°	573.6	570.7	570.0	573.6	574.3	575.0	576.4	581.4	587.0	587.7	589.1
30°	557.2	553.0	551.6	554.4	555.8	556.5	556.5	564.3	569.3	571.4	574.3
32.5°	538.1	533.9	530.3	535.3	536.0	537.4	538.1	545.9	551.6	555.1	559.4
35°	519.0	511.9	510.5	514.0	515.4	516.1	517.5	526.1	533.9	536.7	542.4
37.5°	497.7	492.7	488.5	492.0	493.4	494.1	498.4	506.2	514.0	518.3	523.9
40°	477.8	471.5	467.9	470.0	471.5	472.2	477.1	485.6	494.9	499.8	506.9
42.5°	455.9	447.4	444.5	446.6	447.4	449.5	453.7	465.1	474.3	481.4	487.1
45°	433.9	427.5	421.1	423.3	424.0	425.4	431.8	443.8	453.7	462.2	468.6
47.5°	411.2	403.4	397.0	398.4	401.3	402.0	409.1	423.3	432.5	441.7	450.2
50°	388.5	377.9	372.9	372.9	374.3	377.9	387.1	401.3	411.2	421.8	431.1
52.5°	365.1	355.2	349.5	350.2	351.6	355.9	364.4	378.6	389.9	401.3	412.6
55°	341.7	331.1	325.4	324.0	325.4	331.1	341.0	355.9	367.2	380.7	392.8
57.5°	318.3	305.6	300.6	298.5	299.9	307.0	316.9	332.5	346.7	359.4	373.6
60°	292.8	282.9	274.4	269.4	273.0	282.2	292.8	309.1	324.0	338.2	353.8
62.5°	270.8	258.1	248.8	243.9	247.4	255.2	270.1	285.7	302.0	318.3	333.9
65°	246.0	233.2	222.6	217.7	221.2	230.4	245.3	262.3	280.0	296.3	314.8
67.5°	221.9	208.4	195.7	190.7	195.0	204.9	221.2	240.3	259.5	276.5	296.3
70°	198.5	183.6	170.2	166.6	169.4	182.9	198.5	217.7	237.5	257.4	277.9
72.5°	177.2	158.8	144.6	140.4	143.9	158.8	176.5	196.4	217.7	238.9	260.9
75°	152.4	135.4	119.8	114.9	119.1	132.6	154.6	175.8	198.5	221.2	241.8
77.5°	132.6	112.7	96.4	88.6	95.7	112.7	134.0	156.7	180.1	203.5	226.9
80°	112.0	91.5	73.7	65.2	73.0	91.5	112.7	137.5	163.8	187.2	208.4
82.5°	93.6	71.6	53.2	44.0	52.5	73.0	96.4	121.2	146.8	170.2	195.0
85°	76.6	53.9	34.7	24.8	36.9	55.3	80.1	105.6	131.9	156.0	180.1
87.5°	62.4	40.4	21.3	10.6	22.7	43.2	66.6	92.2	118.4	142.5	165.2
90°	51.0	29.1	11.3	1.4	13.5	32.6	55.3	80.1	104.9	129.7	152.4
92.5°	41.8	22.0	6.4	0.7	8.5	26.2	47.5	70.9	95.0	119.1	141.1
95°	34.7	17.0	4.3	0.7	6.4	20.6	40.4	63.1	85.8	109.2	131.2
97.5°	29.8	14.2	3.5	0.7	5.0	17.7	34.7	56.0	78.0	100.0	121.2
100°	25.5	11.3	2.8	0.7	4.3	14.9	30.5	49.6	70.2	91.5	112.0
102.5°	22.0	9.2	2.1	0.7	3.5	12.8	26.9	44.7	63.1	83.7	103.5
105°	19.1	7.8	2.1	0.7	2.8	11.3	24.1	39.7	58.1	76.6	95.7
107.5°	16.3	6.4	1.4	0.7	2.1	9.2	21.3	36.2	52.5	70.2	87.9
110°	14.2	5.7	1.4	0.7	2.1	8.5	18.4	32.6	47.5	63.8	80.8



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	12.1	4.3	1.4	0.7	1.4	7.1	16.3	29.1	43.2	58.1	74.4
115°	10.6	3.5	0.7	0.7	1.4	6.4	14.9	26.2	39.0	53.2	68.1
117.5°	8.5	2.8	0.7	0.7	0.7	5.0	12.8	23.4	35.4	48.9	62.4
120°	7.1	2.8	0.7	0.7	0.7	4.3	11.3	20.6	31.9	44.0	56.7
122.5°	6.4	2.1	0.7	0.7	0.7	3.5	9.9	18.4	28.4	39.7	51.8
125°	5.7	2.1	0.7	0.7	0.7	2.8	8.5	16.3	25.5	35.4	46.8
127.5°	4.3	2.1	0.7	0.7	0.7	2.1	7.8	14.2	22.7	31.9	41.8
130°	3.5	1.4	0.7	0.7	0.7	2.1	6.4	12.8	19.9	28.4	37.6
132.5°	2.8	1.4	0.7	0.7	0.7	1.4	5.0	9.9	17.0	24.8	33.3
135°	2.8	1.4	0.7	0.7	0.7	1.4	3.5	8.5	14.2	21.3	28.4
137.5°	2.8	0.7	0.7	0.7	0.7	1.4	2.8	6.4	11.3	17.0	23.4
140°	2.1	0.7	0.7	0.7	0.7	0.7	2.1	5.0	9.2	14.2	19.9
142.5°	2.1	0.7	0.7	0.7	0.7	0.7	2.1	3.5	7.1	11.3	15.6
145°	1.4	0.7	0.7	0.7	0.7	0.7	1.4	2.8	5.7	8.5	12.8
147.5°	1.4	0.7	0.7	0.7	0.7	0.7	1.4	2.1	4.3	7.1	9.9
150°	1.4	0.7	0.7	0.7	0.7	0.7	1.4	2.1	2.8	5.0	7.8
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.1	3.5	5.0
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	2.8	3.5
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.1	2.8
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-LD5-30SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1
2.5°	674.2	669.3	670.7	670.0	671.4	673.5	673.5	672.8	672.8	671.4	670.0
5°	672.8	667.8	670.0	669.3	670.7	672.8	672.8	672.1	672.1	670.0	669.3
7.5°	668.6	665.0	666.4	666.4	667.8	670.0	670.0	669.3	669.3	667.1	666.4
10°	664.3	660.0	662.2	662.2	663.6	666.4	666.4	665.7	665.7	663.6	662.9
12.5°	657.2	653.0	656.5	657.2	658.6	661.5	660.8	660.8	660.8	658.6	657.9
15°	648.7	645.9	649.4	650.1	652.2	655.8	655.8	655.8	655.8	653.7	653.0
17.5°	639.5	637.4	640.9	642.3	645.2	648.7	648.7	649.4	650.1	648.7	648.0
20°	628.9	627.4	631.0	633.8	638.1	641.6	643.0	643.7	645.2	643.7	643.0
22.5°	616.8	616.8	621.8	624.6	629.6	633.1	635.2	637.4	638.8	637.4	636.7
25°	603.3	605.5	610.4	615.4	621.1	624.6	626.7	629.6	631.0	630.3	629.6
27.5°	590.6	593.4	599.8	604.7	609.7	615.4	617.5	621.1	622.5	622.5	621.8
30°	575.7	579.9	587.0	592.7	599.1	604.7	607.6	611.1	613.3	611.8	612.5
32.5°	561.5	568.6	574.3	580.6	587.7	593.4	596.9	601.2	603.3	602.6	603.3
35°	545.9	553.0	560.8	567.2	575.7	581.4	586.3	589.9	592.7	592.0	592.0
37.5°	528.9	538.1	545.9	554.4	562.2	568.6	573.6	577.8	580.6	580.6	580.6
40°	512.6	522.5	530.3	540.2	550.2	555.8	561.5	565.8	568.6	569.3	570.0
42.5°	494.9	505.5	514.7	525.3	535.3	542.4	548.7	553.7	556.5	558.0	557.2
45°	478.6	488.5	499.1	511.2	520.4	527.5	535.3	540.9	543.8	544.5	545.2
47.5°	460.1	471.5	483.5	495.6	504.8	514.0	521.1	526.8	529.6	531.7	531.7
50°	442.4	454.4	467.9	480.7	490.6	499.8	506.9	513.3	516.8	518.3	519.0
52.5°	426.1	437.4	451.6	464.4	474.3	483.5	492.7	499.8	503.4	504.8	504.8
55°	406.2	420.4	436.0	448.1	458.7	469.3	478.6	485.6	489.2	491.3	492.7
57.5°	387.8	402.7	419.0	431.8	444.5	454.4	463.0	472.2	475.0	477.8	478.6
60°	370.1	385.0	400.6	414.7	427.5	438.1	448.1	455.9	460.8	462.2	463.7
62.5°	351.6	367.2	383.5	397.7	411.2	424.0	433.2	440.3	445.9	448.1	449.5
65°	333.9	350.2	366.5	381.4	395.6	408.4	417.6	424.7	430.3	433.9	434.6
67.5°	314.8	332.5	349.5	365.1	379.3	392.8	402.0	409.1	414.7	419.0	419.7
70°	297.1	315.5	332.5	349.5	363.7	377.2	387.1	394.2	400.6	403.4	404.8
72.5°	280.0	299.2	316.9	333.9	348.1	361.6	372.2	379.3	385.7	389.2	389.9
75°	263.7	282.9	302.0	318.3	333.2	346.7	357.3	365.1	370.8	374.3	375.8
77.5°	247.4	267.3	286.4	302.7	318.3	331.8	341.0	350.2	355.9	360.2	360.2
80°	231.1	251.7	271.5	287.8	303.4	315.5	326.1	335.3	341.0	345.3	345.3
82.5°	216.9	236.8	255.9	272.2	287.8	301.3	311.9	320.5	326.8	329.7	330.4
85°	200.6	222.6	240.3	258.1	273.0	285.7	296.3	305.6	311.2	314.1	315.5
87.5°	187.2	208.4	227.6	243.2	258.1	270.8	282.9	290.7	296.3	299.9	301.3
90°	174.4	195.0	214.1	229.7	245.3	257.4	268.7	276.5	282.9	285.7	287.1
92.5°	163.1	183.6	202.1	217.7	232.5	246.0	256.6	264.4	270.1	273.0	275.1
95°	152.4	172.3	190.0	207.0	221.2	233.2	244.6	252.4	258.8	260.9	263.0
97.5°	141.8	160.9	178.7	195.0	209.9	221.2	231.8	239.6	244.6	248.1	250.3
100°	132.6	151.0	168.0	183.6	197.8	208.4	219.8	226.9	231.8	234.7	237.5
102.5°	122.7	141.1	157.4	172.3	187.2	197.1	207.7	214.8	219.1	224.0	224.0
105°	114.1	131.2	147.5	161.6	174.4	186.5	195.7	202.8	207.7	211.3	211.3
107.5°	104.9	121.9	137.5	152.4	164.5	175.8	184.3	190.7	196.4	198.5	200.6
110°	97.8	112.7	128.3	142.5	153.8	164.5	173.0	180.1	185.0	187.2	188.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	89.3	104.9	119.1	132.6	143.9	153.8	162.4	168.0	173.0	175.8	176.5
115°	82.2	97.1	109.9	122.7	134.7	143.2	151.0	156.7	161.6	163.8	165.2
117.5°	75.9	89.3	102.1	112.7	124.1	133.3	141.1	146.0	150.3	153.1	154.6
120°	69.5	82.2	93.6	104.2	114.9	123.4	130.4	135.4	140.4	142.5	142.5
122.5°	63.1	75.2	85.8	95.7	105.6	113.4	121.2	125.5	129.7	131.9	131.9
125°	57.4	68.8	78.7	87.9	97.1	104.2	110.6	115.6	119.8	121.2	121.2
127.5°	51.8	62.4	71.6	80.1	87.9	95.0	101.4	106.3	109.9	111.3	111.3
130°	46.8	56.0	64.5	73.0	80.8	86.5	92.9	97.1	99.3	101.4	102.1
132.5°	41.8	50.3	58.1	65.2	73.0	78.7	83.7	87.9	90.0	92.2	92.9
135°	36.9	44.7	51.8	58.8	65.2	70.9	75.2	78.7	81.5	82.9	83.7
137.5°	31.2	39.7	46.1	51.8	58.8	63.1	68.1	70.2	73.0	74.4	74.4
140°	26.2	32.6	39.7	45.4	51.0	55.3	59.6	63.1	65.2	65.9	65.9
142.5°	21.3	26.9	32.6	39.7	44.7	48.2	52.5	55.3	56.7	57.4	58.1
145°	17.0	21.3	26.2	32.6	38.3	42.5	44.7	47.5	48.9	49.6	50.3
147.5°	12.8	17.0	21.3	25.5	31.2	35.4	37.6	40.4	41.8	42.5	42.5
150°	9.9	12.8	15.6	19.9	24.1	29.1	31.9	34.0	34.7	35.4	35.4
152.5°	7.1	9.9	12.1	14.9	17.7	22.0	26.2	27.6	28.4	29.1	29.1
155°	5.0	7.1	8.5	10.6	12.8	16.3	19.9	22.0	22.7	23.4	23.4
157.5°	3.5	5.0	5.7	7.8	9.2	10.6	13.5	17.0	17.7	17.7	17.7
160°	2.1	2.8	3.5	5.0	5.7	7.1	8.5	10.6	12.8	12.8	12.8
162.5°	1.4	2.1	2.1	2.8	2.8	4.3	5.0	5.7	7.8	8.5	8.5
165°	0.7	1.4	1.4	1.4	1.4	1.4	2.1	2.1	3.5	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-LD5-30SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1
2.5°	670.7	672.1	671.4	671.4	671.4	672.8	671.4	665.0	666.4	667.8	669.3
5°	670.0	670.7	670.7	670.0	670.0	671.4	670.0	663.6	665.0	666.4	667.1
7.5°	667.1	667.8	667.8	667.8	667.1	668.6	666.4	660.8	660.8	662.2	662.9
10°	663.6	665.0	664.3	663.6	663.6	663.6	662.2	655.8	655.8	656.5	657.2
12.5°	659.3	659.3	659.3	658.6	657.9	657.9	656.5	650.1	649.4	650.8	650.1
15°	653.7	655.1	653.7	653.0	651.5	651.5	649.4	643.0	641.6	642.3	641.6
17.5°	648.7	649.4	648.0	646.6	645.2	644.4	642.3	635.2	633.1	633.8	632.4
20°	643.7	643.7	642.3	640.9	638.8	636.7	633.8	626.7	623.2	623.2	620.3
22.5°	637.4	637.4	635.9	633.8	631.7	628.9	626.0	618.9	613.3	611.8	609.7
25°	630.3	629.6	628.9	626.7	622.5	619.6	616.8	609.0	602.6	599.8	596.2
27.5°	621.8	621.8	619.6	617.5	613.3	609.7	606.2	599.1	590.6	587.0	582.1
30°	612.5	612.5	610.4	607.6	603.3	599.1	594.8	586.3	577.8	572.8	567.2
32.5°	603.3	602.6	600.5	597.7	593.4	587.0	583.5	575.0	565.0	559.4	551.6
35°	592.0	591.3	589.1	585.6	579.9	575.0	569.3	561.5	550.2	543.1	534.6
37.5°	580.6	579.9	578.5	573.6	567.9	562.2	555.1	547.3	536.7	527.5	519.0
40°	569.3	568.6	565.8	562.2	555.1	548.0	540.9	533.1	521.8	511.2	501.9
42.5°	557.2	556.5	553.0	548.7	540.9	533.9	525.3	516.8	505.5	492.7	483.5
45°	545.2	543.8	540.2	535.3	526.8	519.0	510.5	500.5	489.2	477.1	465.1
47.5°	532.4	530.3	526.8	519.7	512.6	504.1	494.1	483.5	472.2	458.7	445.9
50°	518.3	516.8	512.6	506.2	497.7	489.2	477.8	467.2	453.7	441.0	425.4
52.5°	504.8	501.9	498.4	491.3	482.8	473.6	461.5	448.8	435.3	423.3	406.9
55°	490.6	489.2	484.2	478.6	467.9	457.3	445.9	432.5	417.6	403.4	387.8
57.5°	477.1	474.3	470.0	462.2	453.0	442.4	430.3	416.2	399.9	385.0	368.0
60°	463.7	459.4	454.4	447.4	437.4	426.1	413.3	398.4	382.1	365.8	348.1
62.5°	448.8	445.2	439.6	432.5	422.5	410.5	397.0	381.4	365.8	348.8	329.7
65°	433.9	430.3	424.7	417.6	407.7	394.2	380.0	364.4	346.7	330.4	309.8
67.5°	419.0	415.5	409.1	401.3	391.3	378.6	363.7	347.4	329.7	311.9	290.7
70°	404.1	399.9	394.2	385.7	375.8	362.3	347.4	330.4	312.7	293.5	272.2
72.5°	389.2	385.7	378.6	370.8	360.2	346.7	331.8	314.8	296.3	276.5	255.2
75°	374.3	370.1	365.1	355.9	344.6	331.8	316.2	299.2	279.3	260.2	238.2
77.5°	359.4	355.9	349.5	340.3	329.7	316.2	300.6	283.6	263.7	243.9	220.5
80°	344.6	340.3	335.3	326.8	314.8	301.3	285.0	268.0	248.1	227.6	204.2
82.5°	329.7	325.4	319.7	311.2	299.9	286.4	270.8	252.4	232.5	211.3	189.3
85°	314.8	311.2	304.9	296.3	284.3	270.8	255.2	238.9	217.7	196.4	174.4
87.5°	299.9	296.3	290.0	281.5	270.1	256.6	241.0	224.0	203.5	183.6	159.5
90°	285.7	282.9	276.5	268.0	256.6	243.2	229.0	210.6	190.7	170.9	148.2
92.5°	273.0	270.1	264.4	255.9	246.0	231.1	216.9	199.2	179.4	158.8	136.8
95°	261.6	258.1	252.4	244.6	232.5	219.8	205.6	187.9	168.7	148.2	126.9
97.5°	248.8	245.3	239.6	231.1	221.2	207.7	193.5	176.5	157.4	138.2	117.0
100°	236.1	232.5	226.2	219.1	209.1	195.7	182.2	165.2	147.5	129.0	108.5
102.5°	223.3	219.8	214.1	207.0	197.1	185.0	171.6	155.3	137.5	119.1	100.0
105°	211.3	207.7	202.1	195.0	185.7	173.7	159.5	145.3	128.3	110.6	92.2
107.5°	199.2	195.7	190.7	183.6	174.4	163.1	149.6	134.7	119.1	102.1	84.4
110°	187.2	184.3	178.7	172.3	163.1	151.7	139.7	125.5	109.9	94.3	77.3





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	175.8	173.0	167.3	160.2	152.4	141.8	129.7	116.3	101.4	86.5	70.2
115°	164.5	160.9	156.0	149.6	141.8	131.9	120.5	108.5	93.6	79.4	64.5
117.5°	153.1	150.3	145.3	139.0	131.9	121.9	111.3	100.0	85.8	72.3	58.8
120°	141.8	139.7	134.7	129.0	121.9	112.7	102.8	91.5	78.7	65.9	53.2
122.5°	131.2	129.0	124.1	119.1	112.0	103.5	94.3	83.7	72.3	60.3	48.9
125°	121.2	118.4	114.1	109.2	102.8	95.0	85.8	75.9	65.2	54.6	44.0
127.5°	110.6	108.5	105.6	100.0	93.6	86.5	78.0	69.5	59.6	49.6	39.7
130°	102.1	99.3	95.7	91.5	85.8	78.7	70.9	62.4	53.9	44.7	34.7
132.5°	92.2	89.3	86.5	82.2	77.3	70.9	63.8	56.0	48.2	39.7	31.2
135°	82.9	80.8	78.0	73.7	68.8	63.8	56.7	49.6	42.5	34.7	27.6
137.5°	74.4	72.3	69.5	66.6	61.7	56.7	50.3	44.0	37.6	30.5	24.1
140°	65.9	64.5	61.7	58.8	54.6	49.6	44.0	38.3	32.6	26.2	20.6
142.5°	57.4	56.0	53.9	51.0	47.5	43.2	38.3	33.3	27.6	22.7	17.7
145°	49.6	48.9	46.8	44.0	41.1	36.9	32.6	28.4	23.4	19.1	14.2
147.5°	41.8	41.1	39.7	37.6	34.7	31.2	27.6	23.4	19.9	15.6	11.3
150°	34.7	34.0	33.3	30.5	29.1	25.5	22.7	19.1	16.3	12.1	9.2
152.5°	28.4	28.4	26.9	24.8	23.4	20.6	18.4	15.6	12.8	9.9	7.1
155°	22.7	22.0	21.3	19.9	18.4	16.3	14.2	12.1	9.9	7.1	5.0
157.5°	17.7	17.0	16.3	14.9	13.5	12.8	10.6	8.5	6.4	5.0	3.5
160°	12.8	12.1	11.3	10.6	9.9	8.5	7.1	5.7	4.3	2.8	2.1
162.5°	8.5	7.8	7.8	7.1	6.4	5.0	4.3	3.5	2.8	2.1	1.4
165°	4.3	4.3	3.5	3.5	2.8	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-LD5-30SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	672.1	672.1	672.1	672.1	672.1	672.1	672.1
2.5°	668.6	668.6	671.4	670.7	668.6	672.8	677.8
5°	666.4	666.4	668.6	668.6	666.4	670.7	674.9
7.5°	662.9	662.2	664.3	664.3	661.5	665.0	670.0
10°	656.5	655.8	657.9	657.9	655.1	658.6	662.9
12.5°	649.4	648.0	650.1	649.4	646.6	650.1	654.4
15°	640.2	639.5	640.9	639.5	636.7	640.2	644.4
17.5°	631.0	628.9	629.6	629.6	624.6	628.1	631.7
20°	618.9	616.1	616.8	616.1	612.5	614.7	618.9
22.5°	606.9	602.6	602.6	601.9	597.7	600.5	604.0
25°	592.0	587.0	587.0	586.3	581.4	583.5	587.0
27.5°	577.1	572.1	570.0	569.3	564.3	564.3	569.3
30°	561.5	554.4	553.0	550.9	545.9	545.9	550.2
32.5°	546.6	536.7	533.9	531.0	526.1	525.3	530.3
35°	526.8	519.0	514.0	511.2	505.5	504.1	508.3
37.5°	510.5	500.5	493.4	489.9	484.2	482.1	487.8
40°	492.7	482.1	472.9	470.8	462.2	459.4	464.4
42.5°	472.9	461.5	452.3	448.1	441.7	438.8	439.6
45°	453.0	441.0	431.1	425.4	419.0	414.0	416.9
47.5°	432.5	421.8	409.8	401.3	393.5	389.9	391.3
50°	411.9	399.1	387.8	378.6	369.4	365.1	368.0
52.5°	391.3	377.9	365.1	355.2	344.6	340.3	341.0
55°	371.5	357.3	342.4	331.8	321.9	315.5	314.1
57.5°	351.6	336.0	320.5	308.4	295.6	290.0	287.8
60°	330.4	314.1	297.8	283.6	270.1	263.7	260.9
62.5°	310.5	292.8	274.4	259.5	246.0	237.5	235.4
65°	291.4	270.8	252.4	235.4	220.5	211.3	208.4
67.5°	270.8	249.6	229.7	211.3	197.1	185.0	183.6
70°	251.7	229.0	207.0	187.9	172.3	160.2	154.6
72.5°	232.5	209.1	186.5	165.9	146.0	134.7	130.4
75°	214.1	190.0	165.9	144.6	122.7	109.2	104.9
77.5°	197.1	172.3	146.8	123.4	102.8	85.8	80.1
80°	180.8	155.3	128.3	104.2	82.2	63.8	57.4
82.5°	163.8	139.7	112.0	86.5	63.8	44.7	36.9
85°	148.9	124.8	97.1	71.6	48.9	28.4	19.9
87.5°	136.8	110.6	85.8	60.3	36.9	16.3	5.7
90°	124.8	99.3	74.4	49.6	27.6	9.2	0.7
92.5°	114.1	90.0	65.2	42.5	21.3	6.4	0.7
95°	104.2	80.8	57.4	35.4	17.0	4.3	0.7
97.5°	95.0	73.0	51.0	30.5	14.2	3.5	0.7
100°	87.2	65.9	45.4	26.9	12.1	2.8	0.7
102.5°	79.4	59.6	40.4	23.4	10.6	2.1	0.7
105°	73.0	53.9	36.2	21.3	9.2	2.1	0.7
107.5°	66.6	48.9	32.6	18.4	7.8	1.4	0.7
110°	60.3	44.7	29.1	16.3	7.1	1.4	0.7



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	55.3	40.4	26.2	14.9	5.7	1.4	0.7
115°	50.3	36.2	23.4	12.8	5.0	0.7	0.7
117.5°	45.4	32.6	20.6	11.3	4.3	0.7	0.7
120°	41.1	29.1	18.4	9.9	3.5	0.7	0.7
122.5°	36.9	26.2	16.3	8.5	2.8	0.7	0.7
125°	33.3	23.4	14.2	7.1	2.1	0.7	0.7
127.5°	29.8	20.6	12.8	6.4	2.1	0.7	0.7
130°	26.2	18.4	10.6	5.0	1.4	0.7	0.7
132.5°	23.4	15.6	9.2	4.3	1.4	0.7	0.7
135°	20.6	13.5	7.8	2.8	1.4	0.7	0.7
137.5°	17.7	11.3	6.4	2.1	0.7	0.7	0.7
140°	14.9	9.9	5.0	2.1	0.7	0.7	0.7
142.5°	12.8	7.8	3.5	1.4	0.7	0.7	0.7
145°	9.9	6.4	2.8	1.4	0.7	0.7	0.7
147.5°	7.8	5.0	2.1	1.4	0.7	0.7	0.7
150°	5.7	3.5	2.1	0.7	0.7	0.7	0.7
152.5°	4.3	2.8	1.4	0.7	0.7	0.7	0.7
155°	2.8	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)