

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: **2SNLED-LD5-16SL-LW-UNV-L940-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: 2SNLED-LD5-16SL-LW-UNV-L940-CD1-U  
Description: 2FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

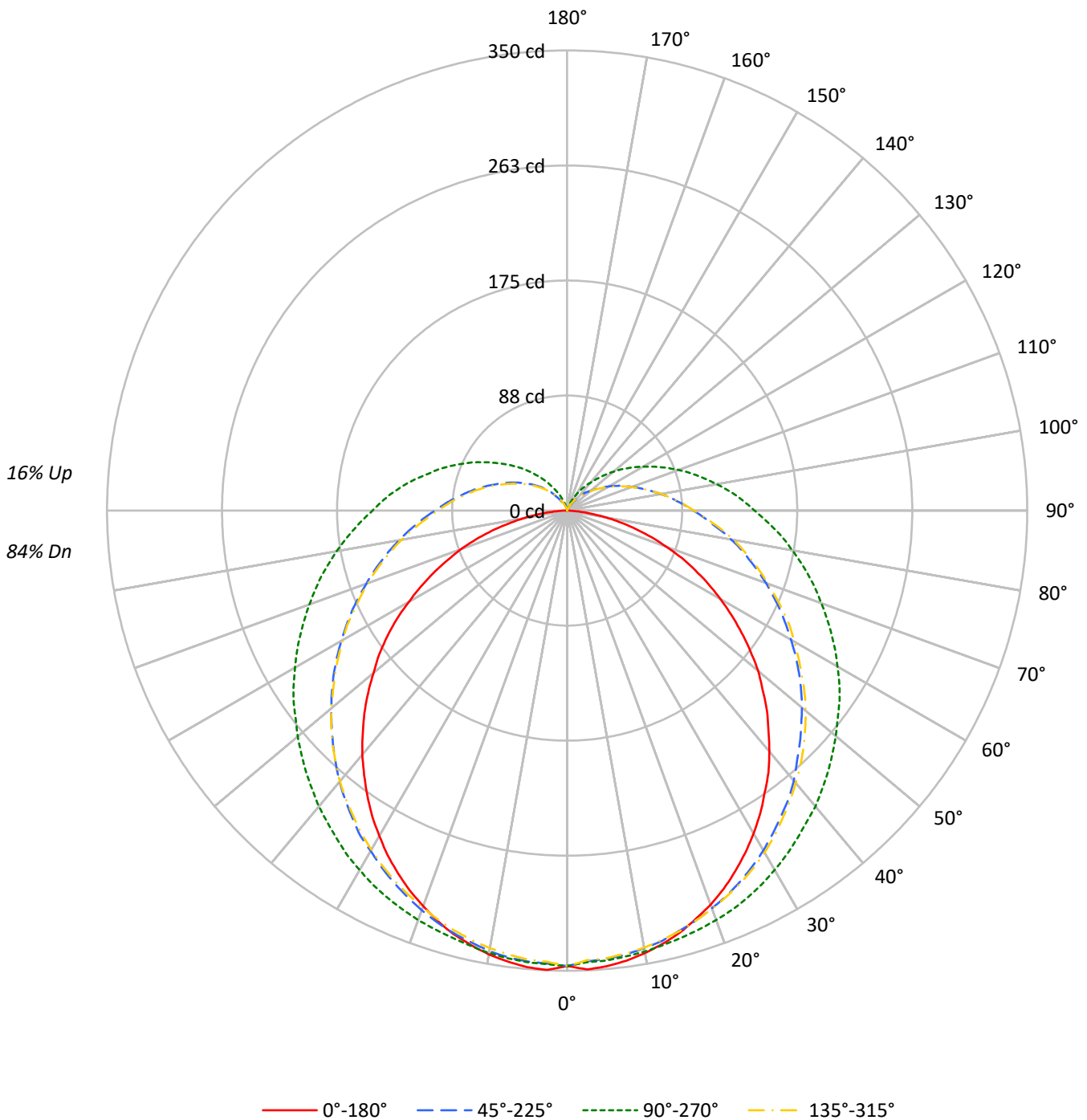
Lumens per Lamp: N/A  
Luminaire Lumens: 1505.0 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 14  
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: 2SNLED-LD5-16SL-LW-UNV-L940-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L940-CD1-U

**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°	5599	5599	5599	5599
5°	5614	5396	5625	5418
10°	5547	5243	5564	5260
15°	5467	5111	5490	5116
20°	5365	5015	5383	5015
25°	5243	4929	5275	4925
30°	5108	4842	5146	4842
35°	4953	4762	5007	4767
40°	4797	4714	4857	4714
45°	4623	4663	4692	4670
50°	4437	4633	4498	4647
55°	4188	4639	4320	4659
60°	3923	4652	4051	4682
65°	3622	4699	3784	4746
70°	3214	4785	3464	4853
75°	2739	4942	2998	5038
80°	2034	5173	2309	5295
85°	1103	5545	1385	5699



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L940-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.8	2.2
10°-20°	94.3	6.3
20°-30°	144.6	9.6
30°-40°	178.4	11.9
40°-50°	193.5	12.9
50°-60°	190.8	12.7
60°-70°	172.5	11.5
70°-80°	143.7	9.5
80°-90°	111.3	7.4
90°-100°	84.4	5.6
100°-110°	62.5	4.2
110°-120°	43.4	2.9
120°-130°	27.7	1.8
130°-140°	15.6	1.0
140°-150°	7.1	0.5
150°-160°	2.2	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	271.7	18.1
0°-40°	450.1	29.9
0°-60°	834.4	55.4
0°-90°	1261.8	83.8
90°-120°	190.3	12.6
90°-150°	240.7	16.0
90°-180°	243.0	16.1
0°-180°	1505.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	346	346	346	346	346	
5°	348	344	349	345	348	33
15°	332	336	334	336	332	94
25°	303	325	304	324	303	139
35°	262	305	265	305	262	164
45°	215	281	218	281	215	166
55°	162	253	167	254	162	145
65°	107	222	112	224	107	106
75°	54	190	59	194	54	57
85°	10	158	13	163	10	12
90°	0	142	1	148	0	1
95°	0	129	0	136	0	0
105°	0	103	0	109	0	0
115°	0	78	0	85	0	0
125°	0	56	0	62	0	0
135°	0	36	0	43	0	0
145°	0	21	0	26	0	0
155°	0	9	0	12	0	0
165°	0	2	0	2	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4
2.5°	349.3	349.3	349.0	348.2	348.6	349.7	349.0	347.1	346.0	343.1	343.8
5°	347.9	347.9	347.5	346.8	347.1	348.6	347.9	346.4	344.9	342.4	343.5
7.5°	345.3	345.3	344.9	344.2	344.9	346.4	345.7	344.2	343.1	340.6	341.7
10°	341.7	342.0	341.7	340.6	342.0	343.5	343.1	341.3	340.2	338.0	339.1
12.5°	337.3	337.6	337.3	336.9	337.6	339.8	339.1	337.6	336.9	335.1	336.2
15°	332.2	332.5	331.8	331.8	332.5	334.7	334.7	333.3	332.5	330.7	332.9
17.5°	325.6	325.9	325.6	325.6	326.3	328.5	328.9	328.1	327.4	326.7	328.9
20°	319.0	318.6	318.6	318.3	319.7	323.0	322.7	322.7	321.9	321.9	324.5
22.5°	311.3	311.3	311.0	311.0	312.8	315.7	315.7	316.4	315.7	317.2	319.4
25°	302.6	302.9	302.6	303.3	304.8	308.0	308.4	309.5	309.9	311.3	313.9
27.5°	293.4	293.8	293.4	294.2	296.7	299.3	301.1	302.6	302.9	305.1	308.4
30°	283.6	283.6	283.9	284.7	287.6	291.6	293.1	294.9	294.9	298.5	301.8
32.5°	273.3	273.3	273.3	274.8	278.1	282.8	284.7	286.8	287.6	291.2	294.9
35°	262.0	262.4	262.4	263.5	267.8	272.6	275.2	277.7	279.2	283.6	287.2
37.5°	251.4	252.1	251.0	252.5	258.7	262.7	265.7	268.2	270.8	276.6	279.5
40°	239.3	240.1	239.7	242.6	247.7	252.9	256.2	258.7	262.4	268.2	271.5
42.5°	226.6	227.3	228.0	231.3	236.8	241.9	245.9	249.2	253.6	258.7	264.2
45°	214.9	214.9	216.0	220.0	225.8	231.3	236.1	239.7	244.8	250.3	255.8
47.5°	201.7	202.1	203.5	208.3	214.5	221.1	225.5	230.2	235.7	241.5	247.7
50°	189.6	189.6	191.8	197.0	202.8	210.1	214.9	220.3	226.2	233.1	239.3
52.5°	175.8	176.5	179.8	184.5	192.2	198.8	204.3	210.1	217.1	224.4	231.3
55°	161.9	163.3	165.9	172.5	180.5	186.7	193.3	200.6	207.2	215.2	223.3
57.5°	148.4	149.5	153.5	160.0	168.5	176.1	183.1	190.0	198.1	206.1	214.5
60°	134.5	135.9	140.7	147.3	156.4	164.4	172.5	179.8	188.2	196.6	205.4
62.5°	121.3	122.4	127.9	135.6	144.7	153.5	161.5	170.3	179.4	187.5	196.2
65°	107.4	109.3	115.5	122.4	133.0	141.8	150.9	160.4	169.9	178.7	187.1
67.5°	94.6	95.7	102.3	110.4	121.0	130.8	140.3	150.5	160.4	169.5	178.0
70°	79.7	83.3	89.9	98.3	109.6	119.9	130.1	140.7	151.3	160.8	168.8
72.5°	67.2	70.2	77.5	86.6	97.6	109.6	120.2	131.5	142.1	152.0	160.4
75°	54.1	57.0	65.4	75.6	87.0	99.8	110.7	122.4	133.4	143.2	152.0
77.5°	41.3	44.9	54.1	64.7	77.1	90.3	101.6	113.3	124.6	135.2	144.0
80°	29.6	33.6	43.5	55.5	67.6	80.8	93.2	104.9	116.2	126.8	135.9
82.5°	19.0	23.4	34.0	46.0	58.8	72.0	84.8	96.5	107.8	118.4	127.9
85°	10.2	15.0	25.9	38.0	50.8	63.9	76.7	89.2	100.1	110.0	120.2
87.5°	2.9	8.8	19.4	31.4	44.6	56.6	69.1	81.5	92.4	103.0	112.2
90°	0.4	5.1	14.6	25.9	38.7	50.4	62.9	74.5	85.5	96.1	105.2
92.5°	0.4	3.3	11.3	21.6	33.3	45.3	57.7	69.1	79.3	89.9	99.0
95°	0.4	2.6	9.1	18.3	29.2	40.6	52.3	63.2	73.8	83.7	92.8
97.5°	0.4	1.8	7.3	15.7	25.6	36.2	47.5	58.5	68.7	78.2	86.6
100°	0.4	1.5	5.8	13.5	22.3	32.5	42.8	53.3	63.2	72.4	81.1
102.5°	0.4	1.1	5.1	11.3	19.7	28.9	38.7	48.6	58.1	66.9	75.6
105°	0.4	1.1	4.4	9.9	17.5	25.9	35.1	44.6	53.3	61.8	69.8
107.5°	0.4	0.7	3.7	8.4	15.3	23.4	31.8	40.9	49.0	57.0	64.7
110°	0.4	0.7	2.9	7.7	13.5	20.8	28.9	37.3	44.9	52.6	59.9



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.4	0.7	2.6	6.6	11.7	18.6	25.9	33.6	40.9	48.6	55.2
115°	0.4	0.7	2.2	5.8	11.0	16.1	23.4	30.3	37.6	44.6	50.8
117.5°	0.4	0.7	1.8	4.8	9.5	14.6	20.5	27.4	34.0	40.6	46.4
120°	0.4	0.7	1.5	4.4	8.4	13.2	18.3	24.5	30.7	36.9	43.1
122.5°	0.4	0.4	1.5	3.7	7.3	11.7	16.8	21.6	27.4	33.3	38.7
125°	0.4	0.4	1.5	3.3	6.2	10.6	15.0	19.4	24.5	29.6	34.3
127.5°	0.4	0.4	1.1	2.6	5.5	9.1	13.2	17.9	21.6	26.3	31.1
130°	0.4	0.4	1.1	2.2	4.8	7.7	11.7	15.7	20.1	23.4	27.4
132.5°	0.4	0.4	1.1	1.8	3.7	6.2	9.9	13.5	17.5	21.2	24.5
135°	0.4	0.4	0.7	1.5	2.9	5.1	8.0	11.3	15.3	19.0	22.3
137.5°	0.4	0.4	0.7	1.5	2.2	4.4	6.2	9.1	12.8	16.1	19.4
140°	0.4	0.4	0.7	1.1	1.8	3.3	5.1	7.3	10.2	13.2	16.8
142.5°	0.4	0.4	0.4	1.1	1.5	2.6	4.0	5.8	8.0	10.6	13.5
145°	0.4	0.4	0.4	1.1	1.5	1.8	3.3	4.8	6.2	8.0	10.6
147.5°	0.4	0.4	0.4	0.7	1.1	1.5	2.6	3.7	4.8	6.2	7.7
150°	0.4	0.4	0.4	0.7	1.1	1.5	1.8	2.6	3.7	5.1	6.2
152.5°	0.4	0.4	0.4	0.7	0.7	1.1	1.5	1.8	2.6	3.7	4.4
155°	0.4	0.4	0.4	0.4	0.7	1.1	1.5	1.5	1.8	2.6	3.3
157.5°	0.4	0.4	0.4	0.4	0.7	0.7	1.1	1.1	1.5	1.5	2.2
160°	0.4	0.4	0.4	0.4	0.4	0.7	0.7	1.1	1.1	1.1	1.1
162.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7	1.1	1.1
165°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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: 2SNLED-LD5-16SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4
2.5°	343.8	344.2	345.3	345.3	344.6	344.6	344.2	343.8	344.2	344.9	344.9
5°	343.1	343.5	344.6	344.9	344.2	343.8	343.8	343.5	343.8	344.6	344.6
7.5°	341.7	342.0	343.1	343.5	342.8	342.8	342.4	342.0	342.8	343.1	343.1
10°	339.5	339.8	341.3	341.7	341.3	340.9	340.9	340.6	340.9	341.7	341.7
12.5°	336.5	337.3	339.1	339.1	339.1	338.7	338.7	338.4	338.7	339.5	339.1
15°	333.3	334.7	336.2	336.9	336.9	336.9	336.5	336.2	336.9	337.3	336.9
17.5°	329.6	331.4	333.6	334.3	334.3	334.7	334.3	334.0	334.7	334.7	334.3
20°	325.9	327.8	330.0	330.7	331.4	331.8	331.8	331.4	331.8	332.2	331.8
22.5°	321.2	323.4	325.9	327.0	327.8	328.5	328.5	328.5	328.9	329.2	328.5
25°	316.1	318.6	321.6	322.7	324.1	324.5	324.8	324.8	325.2	325.6	324.5
27.5°	310.6	313.5	316.4	318.3	319.4	320.1	320.1	320.5	320.8	321.2	320.1
30°	304.0	308.4	311.0	312.4	313.9	315.0	315.3	315.7	316.1	316.4	315.3
32.5°	298.2	301.8	305.1	306.9	308.8	310.2	310.6	310.6	311.3	311.3	310.2
35°	291.2	295.6	298.9	300.7	302.9	304.0	304.8	304.8	305.5	305.5	304.4
37.5°	284.3	288.7	292.3	294.5	297.1	298.5	298.9	298.9	299.6	299.6	298.2
40°	277.0	281.7	285.7	288.3	290.5	292.3	292.7	293.8	293.8	293.4	292.0
42.5°	269.7	274.1	278.4	281.4	284.3	286.1	286.8	287.2	287.2	286.8	285.7
45°	261.6	266.7	270.8	274.4	277.3	279.2	280.3	280.6	280.6	279.9	278.8
47.5°	254.0	259.1	263.1	267.1	270.0	272.2	273.3	273.7	273.3	273.0	271.9
50°	245.9	251.8	255.8	259.8	262.7	264.6	266.4	266.7	266.4	266.0	263.8
52.5°	237.5	243.7	248.1	252.1	255.4	257.6	259.1	259.4	259.4	258.7	257.2
55°	229.1	234.6	240.1	244.5	248.1	250.3	252.1	252.9	252.1	251.4	249.6
57.5°	221.4	226.6	232.0	236.8	240.4	243.4	244.8	245.6	244.8	243.7	241.9
60°	212.3	217.8	224.0	228.4	232.4	235.3	236.1	237.5	236.8	235.7	233.9
62.5°	203.5	210.1	215.6	221.1	224.4	227.6	229.1	229.8	229.1	228.0	226.2
65°	194.4	201.7	207.2	212.7	216.3	219.6	221.4	221.8	221.1	220.0	218.1
67.5°	186.0	192.9	198.8	204.6	207.9	211.2	213.0	213.8	213.0	211.6	209.7
70°	177.6	184.5	191.5	195.9	199.9	203.5	204.6	205.7	205.0	203.5	201.3
72.5°	169.2	176.5	183.4	187.8	192.2	195.5	197.0	198.1	197.3	195.9	193.3
75°	160.4	168.1	175.0	179.8	184.2	187.5	188.9	190.0	189.3	187.8	184.9
77.5°	152.4	160.0	166.6	171.7	176.1	179.0	181.6	182.0	181.2	179.8	176.9
80°	144.0	151.6	158.6	163.7	168.1	171.0	172.8	173.9	173.2	171.7	168.8
82.5°	136.7	143.6	150.5	155.7	160.0	163.7	165.2	166.3	165.9	163.7	161.5
85°	128.6	136.7	142.1	147.6	152.0	155.7	156.8	158.2	157.9	156.0	153.1
87.5°	120.6	128.6	135.2	140.7	144.7	147.6	149.5	150.2	149.8	148.0	144.7
90°	114.0	121.3	127.9	133.7	137.0	140.3	142.1	142.5	142.5	140.3	137.8
92.5°	107.8	114.7	121.3	126.8	130.8	133.7	135.2	135.9	135.6	133.7	130.8
95°	100.9	108.5	114.7	120.2	124.2	127.2	128.6	129.4	129.0	127.2	124.2
97.5°	95.0	101.9	108.2	113.3	117.3	120.2	121.7	122.4	122.4	120.6	117.7
100°	89.2	96.1	101.9	107.1	110.7	113.6	115.1	115.5	115.1	113.6	110.7
102.5°	83.3	89.9	95.7	100.5	104.5	107.1	108.5	108.9	108.9	107.1	104.1
105°	77.5	84.0	89.5	94.6	97.9	100.5	101.6	102.7	102.3	100.9	97.9
107.5°	72.0	78.6	83.7	88.4	91.7	94.3	95.4	96.5	96.1	94.6	91.7
110°	66.9	73.1	77.8	82.6	85.5	88.1	89.9	90.3	89.5	88.1	85.5





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	62.1	67.6	72.4	76.7	80.0	81.9	83.3	84.0	83.3	81.9	80.0
115°	57.0	62.5	67.2	71.3	74.2	76.4	77.5	78.2	77.5	76.0	74.2
117.5°	52.3	57.4	62.1	66.1	68.7	70.5	71.6	72.4	71.6	70.5	68.7
120°	48.2	52.6	57.0	60.7	63.6	65.0	66.1	66.9	66.5	65.0	63.2
122.5°	43.5	48.2	52.3	55.9	58.5	59.9	60.7	61.4	61.0	59.9	58.1
125°	39.5	43.5	47.5	50.8	53.3	54.8	55.5	56.3	55.9	54.8	52.6
127.5°	35.1	39.5	42.8	46.0	47.9	50.1	50.4	51.2	50.8	49.7	47.9
130°	31.8	35.1	38.4	41.3	43.5	44.9	45.7	46.0	45.3	44.6	42.8
132.5°	27.8	31.4	34.3	36.9	38.4	39.8	40.6	40.9	40.9	39.8	38.4
135°	24.8	27.4	30.0	32.5	34.0	35.4	36.2	36.5	36.2	35.4	34.0
137.5°	22.3	24.5	26.3	28.5	30.3	31.1	31.8	31.8	31.4	31.1	30.0
140°	19.4	21.9	23.8	25.2	26.7	27.0	27.8	27.8	27.4	27.0	26.3
142.5°	16.4	18.6	20.5	22.3	23.4	24.1	24.5	24.8	24.5	24.1	23.0
145°	13.2	15.7	17.5	18.6	20.1	20.5	20.8	21.2	20.8	20.5	19.4
147.5°	10.2	12.4	14.3	15.7	16.8	17.2	17.5	17.9	17.5	16.8	16.4
150°	7.3	9.1	11.3	12.8	13.5	14.3	14.3	14.3	14.6	13.9	13.2
152.5°	5.8	6.6	8.0	9.5	10.6	11.0	11.3	11.3	11.0	11.0	10.2
155°	4.0	4.8	5.8	6.9	8.0	8.4	8.8	8.8	8.4	8.4	8.0
157.5°	2.6	3.3	4.0	4.8	5.8	6.2	6.6	6.6	6.6	6.2	5.8
160°	1.5	1.8	2.2	2.9	3.7	4.0	4.4	4.4	4.4	4.4	4.0
162.5°	1.1	1.1	1.1	1.5	1.8	2.2	2.6	2.6	2.6	2.6	2.2
165°	0.7	0.7	0.7	0.7	0.7	1.1	1.5	1.5	1.5	1.5	1.5
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: 2SNLED-LD5-16SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4
2.5°	344.6	344.6	344.9	344.2	342.0	342.4	342.4	343.8	344.6	344.9	346.8
5°	343.8	343.8	344.6	343.5	341.7	341.7	341.7	343.1	343.5	344.2	345.7
7.5°	342.8	342.8	343.1	342.0	339.8	339.8	339.5	340.9	341.7	342.0	343.5
10°	340.9	340.9	341.3	340.2	337.6	337.6	337.3	338.4	338.7	339.5	340.6
12.5°	338.4	338.4	338.4	337.3	334.7	334.3	334.0	335.1	335.1	335.4	336.5
15°	336.2	335.4	335.4	334.3	331.8	331.1	330.3	330.7	331.4	331.1	331.8
17.5°	333.6	332.9	332.2	331.1	327.8	326.7	325.9	326.3	325.9	325.6	326.3
20°	330.7	329.6	329.2	327.4	324.1	322.3	320.8	320.1	320.5	319.4	319.7
22.5°	327.4	325.9	325.2	323.0	319.7	317.5	315.7	314.3	313.9	312.4	312.8
25°	323.4	321.6	320.5	318.6	315.0	312.4	310.2	308.0	306.9	305.1	304.8
27.5°	318.6	316.8	315.3	313.5	309.9	306.6	304.0	301.1	299.6	297.4	296.3
30°	313.9	311.7	309.5	308.0	304.0	300.4	296.3	293.8	291.6	289.0	287.2
32.5°	308.0	305.8	303.7	301.5	297.8	293.4	290.1	286.1	283.6	280.6	278.4
35°	302.2	299.3	297.1	294.2	290.9	285.7	281.7	277.7	274.4	271.1	268.6
37.5°	295.6	293.4	290.1	287.6	283.6	278.4	274.1	268.9	266.0	261.6	258.3
40°	289.4	286.8	283.6	280.3	276.2	270.4	265.7	259.8	256.5	251.4	248.1
42.5°	283.2	279.5	276.2	272.6	268.2	262.7	256.9	251.0	246.7	241.9	237.1
45°	276.2	272.2	268.2	264.2	259.8	254.3	248.1	241.9	236.4	232.0	226.2
47.5°	268.9	264.9	260.2	255.8	251.0	245.6	239.0	232.4	226.6	221.4	215.2
50°	261.6	257.6	252.5	247.7	242.3	236.8	229.8	222.2	216.0	209.4	203.9
52.5°	254.0	249.9	245.2	239.0	233.1	227.6	220.3	212.3	205.4	199.9	192.9
55°	246.3	242.3	236.8	230.6	224.7	217.8	210.8	202.8	195.1	188.6	181.6
57.5°	238.2	234.6	228.4	223.3	216.0	208.6	201.3	193.7	185.3	177.6	169.5
60°	230.2	226.2	220.3	214.1	206.8	199.5	191.8	183.4	174.7	166.3	159.0
62.5°	222.9	217.8	212.3	205.7	198.1	191.1	182.3	173.2	164.4	155.7	146.9
65°	214.5	209.0	203.9	197.3	189.3	181.2	172.5	163.3	153.8	144.3	135.6
67.5°	206.1	200.6	195.1	188.6	180.1	171.7	162.6	153.5	142.9	133.7	123.5
70°	197.7	193.3	186.4	179.4	171.7	162.6	153.5	143.6	132.6	122.8	112.2
72.5°	189.3	184.9	178.0	170.6	163.3	153.8	144.0	134.1	123.9	112.5	101.2
75°	181.2	175.8	169.5	162.6	154.9	145.1	135.2	125.0	112.9	102.3	90.6
77.5°	173.6	168.5	162.2	154.6	146.2	136.7	126.4	115.8	103.8	92.4	79.7
80°	165.2	160.0	153.8	146.2	137.8	128.6	117.7	106.7	95.0	82.6	69.4
82.5°	157.1	152.4	145.4	138.5	129.4	120.2	109.3	98.3	85.9	73.8	61.0
85°	148.7	144.0	137.4	130.1	121.3	111.4	101.2	90.3	77.8	65.4	52.6
87.5°	141.4	135.9	129.4	122.0	113.3	103.8	93.9	82.2	70.2	58.1	44.9
90°	133.7	128.6	122.0	114.7	106.0	96.5	86.2	75.3	63.6	51.2	38.7
92.5°	127.2	121.7	115.5	108.2	99.4	90.3	80.0	69.1	57.7	45.7	33.6
95°	120.6	115.1	109.3	101.9	93.2	84.0	73.8	63.2	52.3	40.6	29.2
97.5°	113.3	108.5	102.7	95.7	87.0	78.2	68.3	58.1	47.5	36.2	25.6
100°	107.4	101.9	96.5	89.2	81.1	72.7	62.9	53.0	42.8	32.2	22.3
102.5°	100.9	95.7	90.3	83.3	75.3	66.9	57.7	48.2	38.7	28.9	19.4
105°	94.6	89.9	84.0	77.5	69.8	61.8	53.0	44.2	35.1	25.6	17.2
107.5°	88.4	83.7	78.2	72.0	64.7	56.6	48.6	39.8	31.4	23.0	15.3
110°	82.2	77.8	72.7	66.5	59.6	52.3	44.6	36.5	28.1	20.5	13.5



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	76.7	72.4	67.2	61.4	54.8	47.9	40.6	32.9	25.2	18.3	11.7
115°	71.3	67.2	62.1	57.0	50.4	43.8	36.9	29.6	22.7	16.4	10.2
117.5°	65.8	61.8	57.0	51.9	46.0	39.8	33.3	26.3	20.5	14.6	9.1
120°	60.3	56.6	52.3	47.5	42.4	36.2	29.6	23.8	18.3	12.8	8.0
122.5°	55.2	51.9	47.9	43.5	38.0	32.2	26.7	21.6	16.4	11.3	6.6
125°	50.4	47.1	43.5	39.1	34.0	28.9	24.1	19.4	14.3	9.9	5.5
127.5°	45.7	42.4	38.7	34.7	30.7	25.9	21.6	17.2	12.8	8.8	4.8
130°	40.9	38.0	34.7	31.4	27.4	23.0	19.4	15.0	11.0	6.9	4.0
132.5°	36.2	34.0	31.1	27.8	24.1	20.8	16.8	13.2	9.5	6.2	3.7
135°	32.2	30.0	27.4	24.5	21.6	18.3	14.6	11.3	8.0	5.1	2.9
137.5°	28.5	26.7	24.1	21.6	19.0	15.7	12.8	9.5	6.6	4.4	2.2
140°	25.2	23.4	21.2	18.6	16.4	13.5	10.6	7.7	5.8	3.7	1.8
142.5°	21.9	20.1	18.3	16.1	13.9	11.3	8.8	6.6	4.8	2.9	1.8
145°	18.6	17.2	15.3	13.5	11.3	9.1	7.3	5.5	3.7	2.2	1.5
147.5°	15.3	14.3	12.4	11.0	9.1	7.3	5.8	4.4	2.9	1.8	1.1
150°	12.4	11.3	9.9	8.4	7.3	5.8	4.8	3.3	2.2	1.8	1.1
152.5°	9.5	8.8	7.7	6.9	5.8	4.4	3.3	2.6	1.8	1.5	0.7
155°	7.7	6.9	6.2	5.1	4.4	3.3	2.6	1.8	1.5	1.1	0.7
157.5°	5.5	5.1	4.4	3.7	2.9	2.2	1.8	1.8	1.1	0.7	0.4
160°	3.7	3.3	2.9	2.2	1.8	1.8	1.5	1.1	0.7	0.7	0.4
162.5°	2.2	1.8	1.8	1.8	1.5	1.5	1.1	0.7	0.7	0.4	0.4
165°	1.5	1.5	1.5	1.1	1.1	1.1	0.7	0.4	0.4	0.4	0.4
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: 2SNLED-LD5-16SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4
2.5°	346.8	345.7	347.1	349.7	350.1	349.7	349.0	350.1	351.5	351.2	348.6
5°	346.0	344.6	346.0	348.6	348.6	348.2	347.9	349.0	350.4	350.1	347.9
7.5°	343.8	342.4	343.8	346.0	346.4	345.7	345.7	346.8	348.2	347.9	346.0
10°	340.9	339.5	340.2	342.8	343.5	342.8	342.8	343.8	345.7	345.3	343.1
12.5°	336.5	335.4	336.2	338.4	339.1	338.7	338.4	339.8	341.7	341.7	339.5
15°	331.8	330.3	331.1	333.6	334.0	333.3	333.6	334.7	336.9	336.9	335.1
17.5°	326.3	324.5	325.6	327.4	327.8	327.8	327.8	329.2	331.8	331.4	330.0
20°	320.1	317.5	318.3	320.1	320.8	320.8	320.8	323.4	325.2	325.2	323.8
22.5°	312.8	311.0	311.0	312.8	313.9	313.5	313.5	315.7	318.3	317.9	317.9
25°	304.4	302.9	302.2	304.4	304.8	305.1	305.8	308.0	311.0	311.0	311.3
27.5°	295.6	294.2	293.8	295.6	296.0	296.3	297.1	299.6	302.6	302.9	303.7
30°	287.2	285.0	284.3	285.7	286.5	286.8	286.8	290.9	293.4	294.5	296.0
32.5°	277.3	275.2	273.3	275.9	276.2	277.0	277.3	281.4	284.3	286.1	288.3
35°	267.5	263.8	263.1	264.9	265.7	266.0	266.7	271.1	275.2	276.6	279.5
37.5°	256.5	254.0	251.8	253.6	254.3	254.7	256.9	260.9	264.9	267.1	270.0
40°	246.3	243.0	241.2	242.3	243.0	243.4	245.9	250.3	255.1	257.6	261.3
42.5°	235.0	230.6	229.1	230.2	230.6	231.7	233.9	239.7	244.5	248.1	251.0
45°	223.6	220.3	217.1	218.1	218.5	219.2	222.5	228.7	233.9	238.2	241.5
47.5°	211.9	207.9	204.6	205.4	206.8	207.2	210.8	218.1	222.9	227.6	232.0
50°	200.2	194.8	192.2	192.2	192.9	194.8	199.5	206.8	211.9	217.4	222.2
52.5°	188.2	183.1	180.1	180.5	181.2	183.4	187.8	195.1	201.0	206.8	212.7
55°	176.1	170.6	167.7	167.0	167.7	170.6	175.8	183.4	189.3	196.2	202.4
57.5°	164.1	157.5	154.9	153.8	154.6	158.2	163.3	171.4	178.7	185.3	192.6
60°	150.9	145.8	141.4	138.9	140.7	145.4	150.9	159.3	167.0	174.3	182.3
62.5°	139.6	133.0	128.3	125.7	127.5	131.5	139.2	147.3	155.7	164.1	172.1
65°	126.8	120.2	114.7	112.2	114.0	118.8	126.4	135.2	144.3	152.7	162.2
67.5°	114.4	107.4	100.9	98.3	100.5	105.6	114.0	123.9	133.7	142.5	152.7
70°	102.3	94.6	87.7	85.9	87.3	94.3	102.3	112.2	122.4	132.6	143.2
72.5°	91.4	81.9	74.5	72.4	74.2	81.9	91.0	101.2	112.2	123.1	134.5
75°	78.6	69.8	61.8	59.2	61.4	68.3	79.7	90.6	102.3	114.0	124.6
77.5°	68.3	58.1	49.7	45.7	49.3	58.1	69.1	80.8	92.8	104.9	116.9
80°	57.7	47.1	38.0	33.6	37.6	47.1	58.1	70.9	84.4	96.5	107.4
82.5°	48.2	36.9	27.4	22.7	27.0	37.6	49.7	62.5	75.6	87.7	100.5
85°	39.5	27.8	17.9	12.8	19.0	28.5	41.3	54.4	68.0	80.4	92.8
87.5°	32.2	20.8	11.0	5.5	11.7	22.3	34.3	47.5	61.0	73.4	85.1
90°	26.3	15.0	5.8	0.7	6.9	16.8	28.5	41.3	54.1	66.9	78.6
92.5°	21.6	11.3	3.3	0.4	4.4	13.5	24.5	36.5	49.0	61.4	72.7
95°	17.9	8.8	2.2	0.4	3.3	10.6	20.8	32.5	44.2	56.3	67.6
97.5°	15.3	7.3	1.8	0.4	2.6	9.1	17.9	28.9	40.2	51.5	62.5
100°	13.2	5.8	1.5	0.4	2.2	7.7	15.7	25.6	36.2	47.1	57.7
102.5°	11.3	4.8	1.1	0.4	1.8	6.6	13.9	23.0	32.5	43.1	53.3
105°	9.9	4.0	1.1	0.4	1.5	5.8	12.4	20.5	30.0	39.5	49.3
107.5°	8.4	3.3	0.7	0.4	1.1	4.8	11.0	18.6	27.0	36.2	45.3
110°	7.3	2.9	0.7	0.4	1.1	4.4	9.5	16.8	24.5	32.9	41.7



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	6.2	2.2	0.7	0.4	0.7	3.7	8.4	15.0	22.3	30.0	38.4
115°	5.5	1.8	0.4	0.4	0.7	3.3	7.7	13.5	20.1	27.4	35.1
117.5°	4.4	1.5	0.4	0.4	0.4	2.6	6.6	12.1	18.3	25.2	32.2
120°	3.7	1.5	0.4	0.4	0.4	2.2	5.8	10.6	16.4	22.7	29.2
122.5°	3.3	1.1	0.4	0.4	0.4	1.8	5.1	9.5	14.6	20.5	26.7
125°	2.9	1.1	0.4	0.4	0.4	1.5	4.4	8.4	13.2	18.3	24.1
127.5°	2.2	1.1	0.4	0.4	0.4	1.1	4.0	7.3	11.7	16.4	21.6
130°	1.8	0.7	0.4	0.4	0.4	1.1	3.3	6.6	10.2	14.6	19.4
132.5°	1.5	0.7	0.4	0.4	0.4	0.7	2.6	5.1	8.8	12.8	17.2
135°	1.5	0.7	0.4	0.4	0.4	0.7	1.8	4.4	7.3	11.0	14.6
137.5°	1.5	0.4	0.4	0.4	0.4	0.7	1.5	3.3	5.8	8.8	12.1
140°	1.1	0.4	0.4	0.4	0.4	0.4	1.1	2.6	4.8	7.3	10.2
142.5°	1.1	0.4	0.4	0.4	0.4	0.4	1.1	1.8	3.7	5.8	8.0
145°	0.7	0.4	0.4	0.4	0.4	0.4	0.7	1.5	2.9	4.4	6.6
147.5°	0.7	0.4	0.4	0.4	0.4	0.4	0.7	1.1	2.2	3.7	5.1
150°	0.7	0.4	0.4	0.4	0.4	0.4	0.7	1.1	1.5	2.6	4.0
152.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	1.1	1.8	2.6
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.1	1.5	1.8
157.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	1.1	1.5
160°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	1.1
162.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7
165°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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: 2SNLED-LD5-16SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4
2.5°	347.5	344.9	345.7	345.3	346.0	347.1	347.1	346.8	346.8	346.0	345.3
5°	346.8	344.2	345.3	344.9	345.7	346.8	346.8	346.4	346.4	345.3	344.9
7.5°	344.6	342.8	343.5	343.5	344.2	345.3	345.3	344.9	344.9	343.8	343.5
10°	342.4	340.2	341.3	341.3	342.0	343.5	343.5	343.1	343.1	342.0	341.7
12.5°	338.7	336.5	338.4	338.7	339.5	340.9	340.6	340.6	340.6	339.5	339.1
15°	334.3	332.9	334.7	335.1	336.2	338.0	338.0	338.0	338.0	336.9	336.5
17.5°	329.6	328.5	330.3	331.1	332.5	334.3	334.3	334.7	335.1	334.3	334.0
20°	324.1	323.4	325.2	326.7	328.9	330.7	331.4	331.8	332.5	331.8	331.4
22.5°	317.9	317.9	320.5	321.9	324.5	326.3	327.4	328.5	329.2	328.5	328.1
25°	311.0	312.1	314.6	317.2	320.1	321.9	323.0	324.5	325.2	324.8	324.5
27.5°	304.4	305.8	309.1	311.7	314.3	317.2	318.3	320.1	320.8	320.8	320.5
30°	296.7	298.9	302.6	305.5	308.8	311.7	313.2	315.0	316.1	315.3	315.7
32.5°	289.4	293.1	296.0	299.3	302.9	305.8	307.7	309.9	311.0	310.6	311.0
35°	281.4	285.0	289.0	292.3	296.7	299.6	302.2	304.0	305.5	305.1	305.1
37.5°	272.6	277.3	281.4	285.7	289.8	293.1	295.6	297.8	299.3	299.3	299.3
40°	264.2	269.3	273.3	278.4	283.6	286.5	289.4	291.6	293.1	293.4	293.8
42.5°	255.1	260.5	265.3	270.8	275.9	279.5	282.8	285.4	286.8	287.6	287.2
45°	246.7	251.8	257.2	263.5	268.2	271.9	275.9	278.8	280.3	280.6	281.0
47.5°	237.1	243.0	249.2	255.4	260.2	264.9	268.6	271.5	273.0	274.1	274.1
50°	228.0	234.2	241.2	247.7	252.9	257.6	261.3	264.6	266.4	267.1	267.5
52.5°	219.6	225.5	232.8	239.3	244.5	249.2	254.0	257.6	259.4	260.2	260.2
55°	209.4	216.7	224.7	230.9	236.4	241.9	246.7	250.3	252.1	253.2	254.0
57.5°	199.9	207.6	216.0	222.5	229.1	234.2	238.6	243.4	244.8	246.3	246.7
60°	190.7	198.4	206.5	213.8	220.3	225.8	230.9	235.0	237.5	238.2	239.0
62.5°	181.2	189.3	197.7	205.0	211.9	218.5	223.3	226.9	229.8	230.9	231.7
65°	172.1	180.5	188.9	196.6	203.9	210.5	215.2	218.9	221.8	223.6	224.0
67.5°	162.2	171.4	180.1	188.2	195.5	202.4	207.2	210.8	213.8	216.0	216.3
70°	153.1	162.6	171.4	180.1	187.5	194.4	199.5	203.2	206.5	207.9	208.6
72.5°	144.3	154.2	163.3	172.1	179.4	186.4	191.8	195.5	198.8	200.6	201.0
75°	135.9	145.8	155.7	164.1	171.7	178.7	184.2	188.2	191.1	192.9	193.7
77.5°	127.5	137.8	147.6	156.0	164.1	171.0	175.8	180.5	183.4	185.6	185.6
80°	119.1	129.7	140.0	148.4	156.4	162.6	168.1	172.8	175.8	178.0	178.0
82.5°	111.8	122.0	131.9	140.3	148.4	155.3	160.8	165.2	168.5	169.9	170.3
85°	103.4	114.7	123.9	133.0	140.7	147.3	152.7	157.5	160.4	161.9	162.6
87.5°	96.5	107.4	117.3	125.3	133.0	139.6	145.8	149.8	152.7	154.6	155.3
90°	89.9	100.5	110.4	118.4	126.4	132.6	138.5	142.5	145.8	147.3	148.0
92.5°	84.0	94.6	104.1	112.2	119.9	126.8	132.3	136.3	139.2	140.7	141.8
95°	78.6	88.8	97.9	106.7	114.0	120.2	126.1	130.1	133.4	134.5	135.6
97.5°	73.1	82.9	92.1	100.5	108.2	114.0	119.5	123.5	126.1	127.9	129.0
100°	68.3	77.8	86.6	94.6	101.9	107.4	113.3	116.9	119.5	121.0	122.4
102.5°	63.2	72.7	81.1	88.8	96.5	101.6	107.1	110.7	112.9	115.5	115.5
105°	58.8	67.6	76.0	83.3	89.9	96.1	100.9	104.5	107.1	108.9	108.9
107.5°	54.1	62.9	70.9	78.6	84.8	90.6	95.0	98.3	101.2	102.3	103.4
110°	50.4	58.1	66.1	73.4	79.3	84.8	89.2	92.8	95.4	96.5	97.2



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	46.0	54.1	61.4	68.3	74.2	79.3	83.7	86.6	89.2	90.6	91.0
115°	42.4	50.1	56.6	63.2	69.4	73.8	77.8	80.8	83.3	84.4	85.1
117.5°	39.1	46.0	52.6	58.1	63.9	68.7	72.7	75.3	77.5	78.9	79.7
120°	35.8	42.4	48.2	53.7	59.2	63.6	67.2	69.8	72.4	73.4	73.4
122.5°	32.5	38.7	44.2	49.3	54.4	58.5	62.5	64.7	66.9	68.0	68.0
125°	29.6	35.4	40.6	45.3	50.1	53.7	57.0	59.6	61.8	62.5	62.5
127.5°	26.7	32.2	36.9	41.3	45.3	49.0	52.3	54.8	56.6	57.4	57.4
130°	24.1	28.9	33.3	37.6	41.7	44.6	47.9	50.1	51.2	52.3	52.6
132.5°	21.6	25.9	30.0	33.6	37.6	40.6	43.1	45.3	46.4	47.5	47.9
135°	19.0	23.0	26.7	30.3	33.6	36.5	38.7	40.6	42.0	42.8	43.1
137.5°	16.1	20.5	23.8	26.7	30.3	32.5	35.1	36.2	37.6	38.4	38.4
140°	13.5	16.8	20.5	23.4	26.3	28.5	30.7	32.5	33.6	34.0	34.0
142.5°	11.0	13.9	16.8	20.5	23.0	24.8	27.0	28.5	29.2	29.6	30.0
145°	8.8	11.0	13.5	16.8	19.7	21.9	23.0	24.5	25.2	25.6	25.9
147.5°	6.6	8.8	11.0	13.2	16.1	18.3	19.4	20.8	21.6	21.9	21.9
150°	5.1	6.6	8.0	10.2	12.4	15.0	16.4	17.5	17.9	18.3	18.3
152.5°	3.7	5.1	6.2	7.7	9.1	11.3	13.5	14.3	14.6	15.0	15.0
155°	2.6	3.7	4.4	5.5	6.6	8.4	10.2	11.3	11.7	12.1	12.1
157.5°	1.8	2.6	2.9	4.0	4.8	5.5	6.9	8.8	9.1	9.1	9.1
160°	1.1	1.5	1.8	2.6	2.9	3.7	4.4	5.5	6.6	6.6	6.6
162.5°	0.7	1.1	1.1	1.5	1.5	2.2	2.6	2.9	4.0	4.4	4.4
165°	0.4	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.8	2.2	2.2
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: 2SNLED-LD5-16SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4
2.5°	345.7	346.4	346.0	346.0	346.0	346.8	346.0	342.8	343.5	344.2	344.9
5°	345.3	345.7	345.7	345.3	345.3	346.0	345.3	342.0	342.8	343.5	343.8
7.5°	343.8	344.2	344.2	344.2	343.8	344.6	343.5	340.6	340.6	341.3	341.7
10°	342.0	342.8	342.4	342.0	342.0	342.0	341.3	338.0	338.0	338.4	338.7
12.5°	339.8	339.8	339.8	339.5	339.1	339.1	338.4	335.1	334.7	335.4	335.1
15°	336.9	337.6	336.9	336.5	335.8	335.8	334.7	331.4	330.7	331.1	330.7
17.5°	334.3	334.7	334.0	333.3	332.5	332.2	331.1	327.4	326.3	326.7	325.9
20°	331.8	331.8	331.1	330.3	329.2	328.1	326.7	323.0	321.2	321.2	319.7
22.5°	328.5	328.5	327.8	326.7	325.6	324.1	322.7	319.0	316.1	315.3	314.3
25°	324.8	324.5	324.1	323.0	320.8	319.4	317.9	313.9	310.6	309.1	307.3
27.5°	320.5	320.5	319.4	318.3	316.1	314.3	312.4	308.8	304.4	302.6	300.0
30°	315.7	315.7	314.6	313.2	311.0	308.8	306.6	302.2	297.8	295.2	292.3
32.5°	311.0	310.6	309.5	308.0	305.8	302.6	300.7	296.3	291.2	288.3	284.3
35°	305.1	304.8	303.7	301.8	298.9	296.3	293.4	289.4	283.6	279.9	275.5
37.5°	299.3	298.9	298.2	295.6	292.7	289.8	286.1	282.1	276.6	271.9	267.5
40°	293.4	293.1	291.6	289.8	286.1	282.5	278.8	274.8	268.9	263.5	258.7
42.5°	287.2	286.8	285.0	282.8	278.8	275.2	270.8	266.4	260.5	254.0	249.2
45°	281.0	280.3	278.4	275.9	271.5	267.5	263.1	258.0	252.1	245.9	239.7
47.5°	274.4	273.3	271.5	267.8	264.2	259.8	254.7	249.2	243.4	236.4	229.8
50°	267.1	266.4	264.2	260.9	256.5	252.1	246.3	240.8	233.9	227.3	219.2
52.5°	260.2	258.7	256.9	253.2	248.8	244.1	237.9	231.3	224.4	218.1	209.7
55°	252.9	252.1	249.6	246.7	241.2	235.7	229.8	222.9	215.2	207.9	199.9
57.5°	245.9	244.5	242.3	238.2	233.5	228.0	221.8	214.5	206.1	198.4	189.6
60°	239.0	236.8	234.2	230.6	225.5	219.6	213.0	205.4	197.0	188.6	179.4
62.5°	231.3	229.5	226.6	222.9	217.8	211.6	204.6	196.6	188.6	179.8	169.9
65°	223.6	221.8	218.9	215.2	210.1	203.2	195.9	187.8	178.7	170.3	159.7
67.5°	216.0	214.1	210.8	206.8	201.7	195.1	187.5	179.0	169.9	160.8	149.8
70°	208.3	206.1	203.2	198.8	193.7	186.7	179.0	170.3	161.1	151.3	140.3
72.5°	200.6	198.8	195.1	191.1	185.6	178.7	171.0	162.2	152.7	142.5	131.5
75°	192.9	190.7	188.2	183.4	177.6	171.0	163.0	154.2	144.0	134.1	122.8
77.5°	185.3	183.4	180.1	175.4	169.9	163.0	154.9	146.2	135.9	125.7	113.6
80°	177.6	175.4	172.8	168.5	162.2	155.3	146.9	138.1	127.9	117.3	105.2
82.5°	169.9	167.7	164.8	160.4	154.6	147.6	139.6	130.1	119.9	108.9	97.6
85°	162.2	160.4	157.1	152.7	146.5	139.6	131.5	123.1	112.2	101.2	89.9
87.5°	154.6	152.7	149.5	145.1	139.2	132.3	124.2	115.5	104.9	94.6	82.2
90°	147.3	145.8	142.5	138.1	132.3	125.3	118.0	108.5	98.3	88.1	76.4
92.5°	140.7	139.2	136.3	131.9	126.8	119.1	111.8	102.7	92.4	81.9	70.5
95°	134.8	133.0	130.1	126.1	119.9	113.3	106.0	96.8	87.0	76.4	65.4
97.5°	128.3	126.4	123.5	119.1	114.0	107.1	99.8	91.0	81.1	71.3	60.3
100°	121.7	119.9	116.6	112.9	107.8	100.9	93.9	85.1	76.0	66.5	55.9
102.5°	115.1	113.3	110.4	106.7	101.6	95.4	88.4	80.0	70.9	61.4	51.5
105°	108.9	107.1	104.1	100.5	95.7	89.5	82.2	74.9	66.1	57.0	47.5
107.5°	102.7	100.9	98.3	94.6	89.9	84.0	77.1	69.4	61.4	52.6	43.5
110°	96.5	95.0	92.1	88.8	84.0	78.2	72.0	64.7	56.6	48.6	39.8





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	90.6	89.2	86.2	82.6	78.6	73.1	66.9	59.9	52.3	44.6	36.2
115°	84.8	82.9	80.4	77.1	73.1	68.0	62.1	55.9	48.2	40.9	33.3
117.5°	78.9	77.5	74.9	71.6	68.0	62.9	57.4	51.5	44.2	37.3	30.3
120°	73.1	72.0	69.4	66.5	62.9	58.1	53.0	47.1	40.6	34.0	27.4
122.5°	67.6	66.5	63.9	61.4	57.7	53.3	48.6	43.1	37.3	31.1	25.2
125°	62.5	61.0	58.8	56.3	53.0	49.0	44.2	39.1	33.6	28.1	22.7
127.5°	57.0	55.9	54.4	51.5	48.2	44.6	40.2	35.8	30.7	25.6	20.5
130°	52.6	51.2	49.3	47.1	44.2	40.6	36.5	32.2	27.8	23.0	17.9
132.5°	47.5	46.0	44.6	42.4	39.8	36.5	32.9	28.9	24.8	20.5	16.1
135°	42.8	41.7	40.2	38.0	35.4	32.9	29.2	25.6	21.9	17.9	14.3
137.5°	38.4	37.3	35.8	34.3	31.8	29.2	25.9	22.7	19.4	15.7	12.4
140°	34.0	33.3	31.8	30.3	28.1	25.6	22.7	19.7	16.8	13.5	10.6
142.5°	29.6	28.9	27.8	26.3	24.5	22.3	19.7	17.2	14.3	11.7	9.1
145°	25.6	25.2	24.1	22.7	21.2	19.0	16.8	14.6	12.1	9.9	7.3
147.5°	21.6	21.2	20.5	19.4	17.9	16.1	14.3	12.1	10.2	8.0	5.8
150°	17.9	17.5	17.2	15.7	15.0	13.2	11.7	9.9	8.4	6.2	4.8
152.5°	14.6	14.6	13.9	12.8	12.1	10.6	9.5	8.0	6.6	5.1	3.7
155°	11.7	11.3	11.0	10.2	9.5	8.4	7.3	6.2	5.1	3.7	2.6
157.5°	9.1	8.8	8.4	7.7	6.9	6.6	5.5	4.4	3.3	2.6	1.8
160°	6.6	6.2	5.8	5.5	5.1	4.4	3.7	2.9	2.2	1.5	1.1
162.5°	4.4	4.0	4.0	3.7	3.3	2.6	2.2	1.8	1.5	1.1	0.7
165°	2.2	2.2	1.8	1.8	1.5	1.1	1.1	1.1	0.7	0.7	0.4
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: 2SNLED-LD5-16SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	346.4	346.4	346.4	346.4	346.4	346.4	346.4
2.5°	344.6	344.6	346.0	345.7	344.6	346.8	349.3
5°	343.5	343.5	344.6	344.6	343.5	345.7	347.9
7.5°	341.7	341.3	342.4	342.4	340.9	342.8	345.3
10°	338.4	338.0	339.1	339.1	337.6	339.5	341.7
12.5°	334.7	334.0	335.1	334.7	333.3	335.1	337.3
15°	330.0	329.6	330.3	329.6	328.1	330.0	332.2
17.5°	325.2	324.1	324.5	324.5	321.9	323.8	325.6
20°	319.0	317.5	317.9	317.5	315.7	316.8	319.0
22.5°	312.8	310.6	310.6	310.2	308.0	309.5	311.3
25°	305.1	302.6	302.6	302.2	299.6	300.7	302.6
27.5°	297.4	294.9	293.8	293.4	290.9	290.9	293.4
30°	289.4	285.7	285.0	283.9	281.4	281.4	283.6
32.5°	281.7	276.6	275.2	273.7	271.1	270.8	273.3
35°	271.5	267.5	264.9	263.5	260.5	259.8	262.0
37.5°	263.1	258.0	254.3	252.5	249.6	248.5	251.4
40°	254.0	248.5	243.7	242.6	238.2	236.8	239.3
42.5°	243.7	237.9	233.1	230.9	227.6	226.2	226.6
45°	233.5	227.3	222.2	219.2	216.0	213.4	214.9
47.5°	222.9	217.4	211.2	206.8	202.8	201.0	201.7
50°	212.3	205.7	199.9	195.1	190.4	188.2	189.6
52.5°	201.7	194.8	188.2	183.1	177.6	175.4	175.8
55°	191.5	184.2	176.5	171.0	165.9	162.6	161.9
57.5°	181.2	173.2	165.2	159.0	152.4	149.5	148.4
60°	170.3	161.9	153.5	146.2	139.2	135.9	134.5
62.5°	160.0	150.9	141.4	133.7	126.8	122.4	121.3
65°	150.2	139.6	130.1	121.3	113.6	108.9	107.4
67.5°	139.6	128.6	118.4	108.9	101.6	95.4	94.6
70°	129.7	118.0	106.7	96.8	88.8	82.6	79.7
72.5°	119.9	107.8	96.1	85.5	75.3	69.4	67.2
75°	110.4	97.9	85.5	74.5	63.2	56.3	54.1
77.5°	101.6	88.8	75.6	63.6	53.0	44.2	41.3
80°	93.2	80.0	66.1	53.7	42.4	32.9	29.6
82.5°	84.4	72.0	57.7	44.6	32.9	23.0	19.0
85°	76.7	64.3	50.1	36.9	25.2	14.6	10.2
87.5°	70.5	57.0	44.2	31.1	19.0	8.4	2.9
90°	64.3	51.2	38.4	25.6	14.3	4.8	0.4
92.5°	58.8	46.4	33.6	21.9	11.0	3.3	0.4
95°	53.7	41.7	29.6	18.3	8.8	2.2	0.4
97.5°	49.0	37.6	26.3	15.7	7.3	1.8	0.4
100°	44.9	34.0	23.4	13.9	6.2	1.5	0.4
102.5°	40.9	30.7	20.8	12.1	5.5	1.1	0.4
105°	37.6	27.8	18.6	11.0	4.8	1.1	0.4
107.5°	34.3	25.2	16.8	9.5	4.0	0.7	0.4
110°	31.1	23.0	15.0	8.4	3.7	0.7	0.4



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-16SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	28.5	20.8	13.5	7.7	2.9	0.7	0.4
115°	25.9	18.6	12.1	6.6	2.6	0.4	0.4
117.5°	23.4	16.8	10.6	5.8	2.2	0.4	0.4
120°	21.2	15.0	9.5	5.1	1.8	0.4	0.4
122.5°	19.0	13.5	8.4	4.4	1.5	0.4	0.4
125°	17.2	12.1	7.3	3.7	1.1	0.4	0.4
127.5°	15.3	10.6	6.6	3.3	1.1	0.4	0.4
130°	13.5	9.5	5.5	2.6	0.7	0.4	0.4
132.5°	12.1	8.0	4.8	2.2	0.7	0.4	0.4
135°	10.6	6.9	4.0	1.5	0.7	0.4	0.4
137.5°	9.1	5.8	3.3	1.1	0.4	0.4	0.4
140°	7.7	5.1	2.6	1.1	0.4	0.4	0.4
142.5°	6.6	4.0	1.8	0.7	0.4	0.4	0.4
145°	5.1	3.3	1.5	0.7	0.4	0.4	0.4
147.5°	4.0	2.6	1.1	0.7	0.4	0.4	0.4
150°	2.9	1.8	1.1	0.4	0.4	0.4	0.4
152.5°	2.2	1.5	0.7	0.4	0.4	0.4	0.4
155°	1.5	1.1	0.7	0.4	0.4	0.4	0.4
157.5°	1.1	0.7	0.4	0.4	0.4	0.4	0.4
160°	0.7	0.4	0.4	0.4	0.4	0.4	0.4
162.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4
165°	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)