

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-LD5-20SL-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-LD5-20SL-LW-UNV-L940-CD1-U  
Description: 2FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

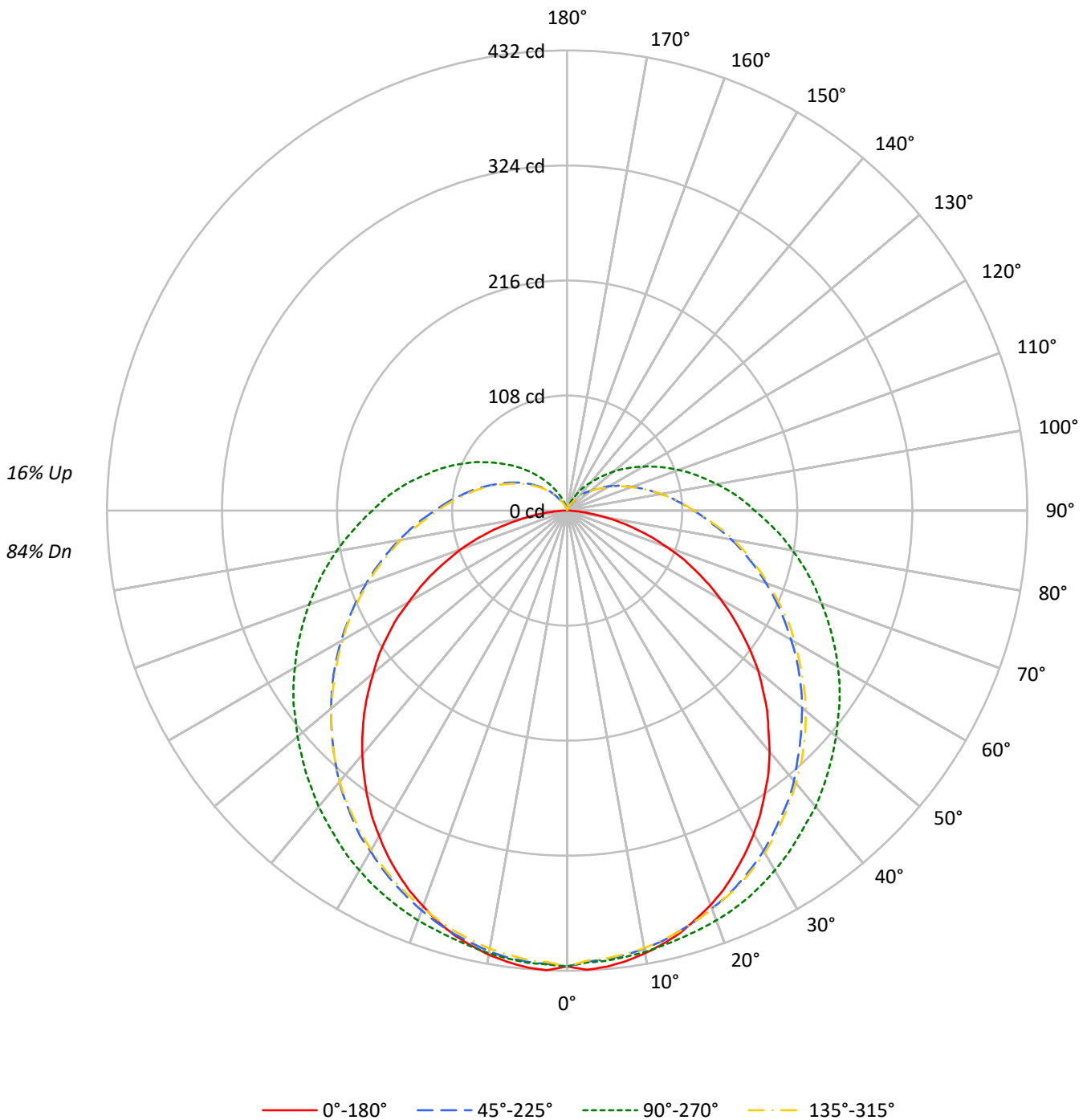
Lumens per Lamp: N/A  
Luminaire Lumens: 1859.0 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 18  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					20	
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	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°	6916	6916	6916	6916
5°	6933	6665	6948	6693
10°	6850	6476	6873	6496
15°	6752	6312	6782	6320
20°	6626	6195	6649	6195
25°	6475	6090	6515	6083
30°	6310	5982	6358	5982
35°	6117	5881	6185	5889
40°	5926	5823	6000	5823
45°	5709	5760	5798	5768
50°	5483	5724	5555	5740
55°	5174	5729	5337	5754
60°	4845	5747	5002	5782
65°	4475	5805	4674	5862
70°	3968	5911	4279	5995
75°	3382	6104	3701	6221
80°	2515	6390	2852	6538
85°	1363	6849	1709	7042



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.5	2.2
10°-20°	116.5	6.3
20°-30°	178.6	9.6
30°-40°	220.3	11.9
40°-50°	239.1	12.9
50°-60°	235.6	12.7
60°-70°	213.0	11.5
70°-80°	177.5	9.5
80°-90°	137.5	7.4
90°-100°	104.3	5.6
100°-110°	77.2	4.2
110°-120°	53.7	2.9
120°-130°	34.2	1.8
130°-140°	19.2	1.0
140°-150°	8.8	0.5
150°-160°	2.7	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	335.6	18.1
0°-40°	556.0	29.9
0°-60°	1030.7	55.4
0°-90°	1558.7	83.8
90°-120°	235.1	12.6
90°-150°	297.3	16.0
90°-180°	300.0	16.1
0°-180°	1859.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	428	428	428	428	428	
5°	430	424	431	426	430	41
15°	410	415	412	416	410	116
25°	374	401	376	401	374	172
35°	324	376	327	377	324	203
45°	265	347	270	347	265	204
55°	200	312	206	314	200	179
65°	133	274	139	277	133	132
75°	67	235	73	239	67	71
85°	13	195	16	201	13	15
90°	0	176	1	183	0	1
95°	0	160	0	168	0	0
105°	0	127	0	134	0	1
115°	0	97	0	105	0	0
125°	0	70	0	77	0	0
135°	0	45	0	53	0	0
145°	0	26	0	32	0	0
155°	0	11	0	15	0	0
165°	0	2	0	3	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9
2.5°	431.5	431.5	431.0	430.1	430.6	431.9	431.0	428.8	427.4	423.8	424.7
5°	429.7	429.7	429.2	428.3	428.8	430.6	429.7	427.9	426.1	422.9	424.3
7.5°	426.5	426.5	426.1	425.2	426.1	427.9	427.0	425.2	423.8	420.7	422.0
10°	422.0	422.5	422.0	420.7	422.5	424.3	423.8	421.6	420.2	417.5	418.9
12.5°	416.6	417.1	416.6	416.2	417.1	419.8	418.9	417.1	416.2	413.9	415.2
15°	410.3	410.7	409.8	409.8	410.7	413.4	413.4	411.6	410.7	408.5	411.2
17.5°	402.2	402.6	402.2	402.2	403.1	405.8	406.2	405.3	404.4	403.5	406.2
20°	394.0	393.6	393.6	393.1	394.9	399.0	398.5	398.5	397.6	397.6	400.8
22.5°	384.6	384.6	384.1	384.1	386.4	390.0	390.0	390.9	390.0	391.8	394.5
25°	373.7	374.2	373.7	374.6	376.4	380.5	380.9	382.3	382.8	384.6	387.7
27.5°	362.4	362.9	362.4	363.3	366.5	369.7	371.9	373.7	374.2	376.9	380.9
30°	350.3	350.3	350.7	351.6	355.2	360.2	362.0	364.2	364.2	368.8	372.8
32.5°	337.6	337.6	337.6	339.4	343.5	349.4	351.6	354.3	355.2	359.7	364.2
35°	323.6	324.1	324.1	325.4	330.8	336.7	339.9	343.0	344.8	350.3	354.8
37.5°	310.5	311.4	310.1	311.9	319.6	324.5	328.1	331.3	334.5	341.7	345.3
40°	295.6	296.5	296.1	299.7	306.0	312.3	316.4	319.6	324.1	331.3	335.4
42.5°	279.8	280.7	281.6	285.7	292.5	298.8	303.8	307.8	313.2	319.6	326.3
45°	265.4	265.4	266.8	271.7	278.9	285.7	291.6	296.1	302.4	309.2	316.0
47.5°	249.1	249.6	251.4	257.3	264.9	273.1	278.5	284.4	291.1	298.3	306.0
50°	234.3	234.3	237.0	243.3	250.5	259.5	265.4	272.2	279.4	288.0	295.6
52.5°	217.1	218.0	222.1	227.9	237.4	245.5	252.3	259.5	268.1	277.1	285.7
55°	200.0	201.8	204.9	213.0	223.0	230.6	238.8	247.8	255.9	265.8	275.8
57.5°	183.3	184.6	189.6	197.7	208.1	217.6	226.1	234.7	244.6	254.6	264.9
60°	166.1	167.9	173.8	181.9	193.2	203.1	213.0	222.1	232.4	242.8	253.7
62.5°	149.9	151.2	158.0	167.5	178.7	189.6	199.5	210.3	221.6	231.5	242.4
65°	132.7	135.0	142.6	151.2	164.3	175.1	186.4	198.1	209.9	220.7	231.1
67.5°	116.9	118.3	126.4	136.3	149.4	161.6	173.3	186.0	198.1	209.4	219.8
70°	98.4	102.9	111.0	121.4	135.4	148.0	160.7	173.8	186.9	198.6	208.5
72.5°	83.0	86.7	95.7	107.0	120.5	135.4	148.5	162.5	175.6	187.8	198.1
75°	66.8	70.4	80.8	93.4	107.4	123.2	136.8	151.2	164.7	176.9	187.8
77.5°	51.0	55.5	66.8	79.9	95.2	111.5	125.5	139.9	153.9	167.0	177.8
80°	36.6	41.5	53.7	68.6	83.5	99.8	115.1	129.5	143.5	156.6	167.9
82.5°	23.5	28.9	42.0	56.9	72.7	88.9	104.7	119.2	133.2	146.2	158.0
85°	12.6	18.5	32.0	46.9	62.7	79.0	94.8	110.1	123.7	135.9	148.5
87.5°	3.6	10.8	23.9	38.8	55.1	70.0	85.3	100.7	114.2	127.3	138.6
90°	0.5	6.3	18.1	32.0	47.8	62.3	77.6	92.1	105.6	118.7	130.0
92.5°	0.5	4.1	14.0	26.6	41.1	56.0	71.3	85.3	97.9	111.0	122.3
95°	0.5	3.2	11.3	22.6	36.1	50.1	64.5	78.1	91.2	103.4	114.6
97.5°	0.5	2.3	9.0	19.4	31.6	44.7	58.7	72.2	84.9	96.6	107.0
100°	0.5	1.8	7.2	16.7	27.5	40.2	52.8	65.9	78.1	89.4	100.2
102.5°	0.5	1.4	6.3	14.0	24.4	35.7	47.8	60.0	71.8	82.6	93.4
105°	0.5	1.4	5.4	12.2	21.7	32.0	43.3	55.1	65.9	76.3	86.2
107.5°	0.5	0.9	4.5	10.4	19.0	28.9	39.3	50.6	60.5	70.4	79.9
110°	0.5	0.9	3.6	9.5	16.7	25.7	35.7	46.0	55.5	65.0	74.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.5	0.9	3.2	8.1	14.4	23.0	32.0	41.5	50.6	60.0	68.2
115°	0.5	0.9	2.7	7.2	13.5	19.9	28.9	37.5	46.5	55.1	62.7
117.5°	0.5	0.9	2.3	5.9	11.7	18.1	25.3	33.9	42.0	50.1	57.3
120°	0.5	0.9	1.8	5.4	10.4	16.2	22.6	30.2	37.9	45.6	53.3
122.5°	0.5	0.5	1.8	4.5	9.0	14.4	20.8	26.6	33.9	41.1	47.8
125°	0.5	0.5	1.8	4.1	7.7	13.1	18.5	23.9	30.2	36.6	42.4
127.5°	0.5	0.5	1.4	3.2	6.8	11.3	16.2	22.1	26.6	32.5	38.4
130°	0.5	0.5	1.4	2.7	5.9	9.5	14.4	19.4	24.8	28.9	33.9
132.5°	0.5	0.5	1.4	2.3	4.5	7.7	12.2	16.7	21.7	26.2	30.2
135°	0.5	0.5	0.9	1.8	3.6	6.3	9.9	14.0	19.0	23.5	27.5
137.5°	0.5	0.5	0.9	1.8	2.7	5.4	7.7	11.3	15.8	19.9	23.9
140°	0.5	0.5	0.9	1.4	2.3	4.1	6.3	9.0	12.6	16.2	20.8
142.5°	0.5	0.5	0.5	1.4	1.8	3.2	5.0	7.2	9.9	13.1	16.7
145°	0.5	0.5	0.5	1.4	1.8	2.3	4.1	5.9	7.7	9.9	13.1
147.5°	0.5	0.5	0.5	0.9	1.4	1.8	3.2	4.5	5.9	7.7	9.5
150°	0.5	0.5	0.5	0.9	1.4	1.8	2.3	3.2	4.5	6.3	7.7
152.5°	0.5	0.5	0.5	0.9	0.9	1.4	1.8	2.3	3.2	4.5	5.4
155°	0.5	0.5	0.5	0.5	0.9	1.4	1.8	1.8	2.3	3.2	4.1
157.5°	0.5	0.5	0.5	0.5	0.9	0.9	1.4	1.4	1.8	1.8	2.7
160°	0.5	0.5	0.5	0.5	0.5	0.9	0.9	1.4	1.4	1.4	1.4
162.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9	1.4	1.4
165°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9
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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9
2.5°	424.7	425.2	426.5	426.5	425.6	425.6	425.2	424.7	425.2	426.1	426.1
5°	423.8	424.3	425.6	426.1	425.2	424.7	424.7	424.3	424.7	425.6	425.6
7.5°	422.0	422.5	423.8	424.3	423.4	423.4	422.9	422.5	423.4	423.8	423.8
10°	419.3	419.8	421.6	422.0	421.6	421.1	421.1	420.7	421.1	422.0	422.0
12.5°	415.7	416.6	418.9	418.9	418.9	418.4	418.4	418.0	418.4	419.3	418.9
15°	411.6	413.4	415.2	416.2	416.2	416.2	415.7	415.2	416.2	416.6	416.2
17.5°	407.1	409.4	412.1	413.0	413.0	413.4	413.0	412.5	413.4	413.4	413.0
20°	402.6	404.9	407.6	408.5	409.4	409.8	409.8	409.4	409.8	410.3	409.8
22.5°	396.7	399.5	402.6	404.0	404.9	405.8	405.8	405.8	406.2	406.7	405.8
25°	390.4	393.6	397.2	398.5	400.4	400.8	401.3	401.3	401.7	402.2	400.8
27.5°	383.7	387.3	390.9	393.1	394.5	395.4	395.4	395.8	396.3	396.7	395.4
30°	375.5	380.9	384.1	385.9	387.7	389.1	389.5	390.0	390.4	390.9	389.5
32.5°	368.3	372.8	376.9	379.1	381.4	383.2	383.7	383.7	384.6	384.6	383.2
35°	359.7	365.1	369.2	371.5	374.2	375.5	376.4	376.4	377.3	377.3	376.0
37.5°	351.2	356.6	361.1	363.8	367.0	368.8	369.2	369.2	370.1	370.1	368.3
40°	342.1	348.0	353.0	356.1	358.8	361.1	361.5	362.9	362.9	362.4	360.6
42.5°	333.1	338.5	343.9	347.5	351.2	353.4	354.3	354.8	354.8	354.3	353.0
45°	323.2	329.5	334.5	339.0	342.6	344.8	346.2	346.6	346.6	345.7	344.4
47.5°	313.7	320.0	325.0	329.9	333.6	336.3	337.6	338.1	337.6	337.2	335.8
50°	303.8	311.0	316.0	320.9	324.5	326.8	329.0	329.5	329.0	328.6	325.9
52.5°	293.4	301.1	306.5	311.4	315.5	318.2	320.0	320.5	320.5	319.6	317.8
55°	283.0	289.8	296.5	302.0	306.5	309.2	311.4	312.3	311.4	310.5	308.3
57.5°	273.5	279.8	286.6	292.5	297.0	300.6	302.4	303.3	302.4	301.1	298.8
60°	262.2	269.0	276.7	282.1	287.1	290.7	291.6	293.4	292.5	291.1	288.9
62.5°	251.4	259.5	266.3	273.1	277.1	281.2	283.0	283.9	283.0	281.6	279.4
65°	240.1	249.1	255.9	262.7	267.2	271.3	273.5	274.0	273.1	271.7	269.5
67.5°	229.7	238.3	245.5	252.8	256.8	260.9	263.1	264.0	263.1	261.3	259.1
70°	219.4	227.9	236.5	241.9	246.9	251.4	252.8	254.1	253.2	251.4	248.7
72.5°	209.0	218.0	226.6	232.0	237.4	241.5	243.3	244.6	243.7	241.9	238.8
75°	198.1	207.6	216.2	222.1	227.5	231.5	233.4	234.7	233.8	232.0	228.4
77.5°	188.2	197.7	205.8	212.1	217.6	221.2	224.3	224.8	223.9	222.1	218.5
80°	177.8	187.3	195.9	202.2	207.6	211.2	213.5	214.8	213.9	212.1	208.5
82.5°	168.8	177.4	186.0	192.3	197.7	202.2	204.0	205.4	204.9	202.2	199.5
85°	158.9	168.8	175.6	182.3	187.8	192.3	193.6	195.4	195.0	192.7	189.1
87.5°	148.9	158.9	167.0	173.8	178.7	182.3	184.6	185.5	185.1	182.8	178.7
90°	140.8	149.9	158.0	165.2	169.3	173.3	175.6	176.0	176.0	173.3	170.2
92.5°	133.2	141.7	149.9	156.6	161.6	165.2	167.0	167.9	167.5	165.2	161.6
95°	124.6	134.1	141.7	148.5	153.5	157.1	158.9	159.8	159.3	157.1	153.5
97.5°	117.4	125.9	133.6	139.9	144.9	148.5	150.3	151.2	151.2	148.9	145.3
100°	110.1	118.7	125.9	132.2	136.8	140.4	142.2	142.6	142.2	140.4	136.8
102.5°	102.9	111.0	118.3	124.1	129.1	132.2	134.1	134.5	134.5	132.2	128.6
105°	95.7	103.8	110.6	116.9	121.0	124.1	125.5	126.8	126.4	124.6	121.0
107.5°	88.9	97.0	103.4	109.2	113.3	116.5	117.8	119.2	118.7	116.9	113.3
110°	82.6	90.3	96.1	102.0	105.6	108.8	111.0	111.5	110.6	108.8	105.6





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	76.7	83.5	89.4	94.8	98.8	101.1	102.9	103.8	102.9	101.1	98.8
115°	70.4	77.2	83.0	88.0	91.6	94.3	95.7	96.6	95.7	93.9	91.6
117.5°	64.5	70.9	76.7	81.7	84.9	87.1	88.5	89.4	88.5	87.1	84.9
120°	59.6	65.0	70.4	74.9	78.5	80.3	81.7	82.6	82.1	80.3	78.1
122.5°	53.7	59.6	64.5	69.1	72.2	74.0	74.9	75.8	75.4	74.0	71.8
125°	48.7	53.7	58.7	62.7	65.9	67.7	68.6	69.5	69.1	67.7	65.0
127.5°	43.3	48.7	52.8	56.9	59.1	61.8	62.3	63.2	62.7	61.4	59.1
130°	39.3	43.3	47.4	51.0	53.7	55.5	56.4	56.9	56.0	55.1	52.8
132.5°	34.3	38.8	42.4	45.6	47.4	49.2	50.1	50.6	50.6	49.2	47.4
135°	30.7	33.9	37.0	40.2	42.0	43.8	44.7	45.1	44.7	43.8	42.0
137.5°	27.5	30.2	32.5	35.2	37.5	38.4	39.3	39.3	38.8	38.4	37.0
140°	23.9	27.1	29.3	31.1	32.9	33.4	34.3	34.3	33.9	33.4	32.5
142.5°	20.3	23.0	25.3	27.5	28.9	29.8	30.2	30.7	30.2	29.8	28.4
145°	16.2	19.4	21.7	23.0	24.8	25.3	25.7	26.2	25.7	25.3	23.9
147.5°	12.6	15.3	17.6	19.4	20.8	21.2	21.7	22.1	21.7	20.8	20.3
150°	9.0	11.3	14.0	15.8	16.7	17.6	17.6	17.6	18.1	17.2	16.2
152.5°	7.2	8.1	9.9	11.7	13.1	13.5	14.0	14.0	13.5	13.5	12.6
155°	5.0	5.9	7.2	8.6	9.9	10.4	10.8	10.8	10.4	10.4	9.9
157.5°	3.2	4.1	5.0	5.9	7.2	7.7	8.1	8.1	8.1	7.7	7.2
160°	1.8	2.3	2.7	3.6	4.5	5.0	5.4	5.4	5.4	5.4	5.0
162.5°	1.4	1.4	1.4	1.8	2.3	2.7	3.2	3.2	3.2	3.2	2.7
165°	0.9	0.9	0.9	0.9	0.9	1.4	1.8	1.8	1.8	1.8	1.8
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: 2SNLED-LD5-20SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9
2.5°	425.6	425.6	426.1	425.2	422.5	422.9	422.9	424.7	425.6	426.1	428.3
5°	424.7	424.7	425.6	424.3	422.0	422.0	422.0	423.8	424.3	425.2	427.0
7.5°	423.4	423.4	423.8	422.5	419.8	419.8	419.3	421.1	422.0	422.5	424.3
10°	421.1	421.1	421.6	420.2	417.1	417.1	416.6	418.0	418.4	419.3	420.7
12.5°	418.0	418.0	418.0	416.6	413.4	413.0	412.5	413.9	413.9	414.3	415.7
15°	415.2	414.3	414.3	413.0	409.8	408.9	408.0	408.5	409.4	408.9	409.8
17.5°	412.1	411.2	410.3	408.9	404.9	403.5	402.6	403.1	402.6	402.2	403.1
20°	408.5	407.1	406.7	404.4	400.4	398.1	396.3	395.4	395.8	394.5	394.9
22.5°	404.4	402.6	401.7	399.0	394.9	392.2	390.0	388.2	387.7	385.9	386.4
25°	399.5	397.2	395.8	393.6	389.1	385.9	383.2	380.5	379.1	376.9	376.4
27.5°	393.6	391.3	389.5	387.3	382.8	378.7	375.5	371.9	370.1	367.4	366.1
30°	387.7	385.0	382.3	380.5	375.5	371.0	366.1	362.9	360.2	357.0	354.8
32.5°	380.5	377.8	375.1	372.4	367.9	362.4	358.4	353.4	350.3	346.6	343.9
35°	373.3	369.7	367.0	363.3	359.3	353.0	348.0	343.0	339.0	334.9	331.7
37.5°	365.1	362.4	358.4	355.2	350.3	343.9	338.5	332.2	328.6	323.2	319.1
40°	357.5	354.3	350.3	346.2	341.2	334.0	328.1	320.9	316.9	310.5	306.5
42.5°	349.8	345.3	341.2	336.7	331.3	324.5	317.3	310.1	304.7	298.8	292.9
45°	341.2	336.3	331.3	326.3	320.9	314.1	306.5	298.8	292.0	286.6	279.4
47.5°	332.2	327.2	321.4	316.0	310.1	303.3	295.2	287.1	279.8	273.5	265.8
50°	323.2	318.2	311.9	306.0	299.3	292.5	283.9	274.4	266.8	258.6	251.9
52.5°	313.7	308.7	302.9	295.2	288.0	281.2	272.2	262.2	253.7	246.9	238.3
55°	304.2	299.3	292.5	284.8	277.6	269.0	260.4	250.5	241.0	232.9	224.3
57.5°	294.3	289.8	282.1	275.8	266.8	257.7	248.7	239.2	228.8	219.4	209.4
60°	284.4	279.4	272.2	264.5	255.5	246.4	237.0	226.6	215.7	205.4	196.3
62.5°	275.3	269.0	262.2	254.1	244.6	236.1	225.2	213.9	203.1	192.3	181.4
65°	264.9	258.2	251.9	243.7	233.8	223.9	213.0	201.8	190.0	178.3	167.5
67.5°	254.6	247.8	241.0	232.9	222.5	212.1	200.9	189.6	176.5	165.2	152.6
70°	244.2	238.8	230.2	221.6	212.1	200.9	189.6	177.4	163.8	151.7	138.6
72.5°	233.8	228.4	219.8	210.8	201.8	190.0	177.8	165.6	153.0	139.0	125.0
75°	223.9	217.1	209.4	200.9	191.4	179.2	167.0	154.4	139.5	126.4	111.9
77.5°	214.4	208.1	200.4	190.9	180.5	168.8	156.2	143.1	128.2	114.2	98.4
80°	204.0	197.7	190.0	180.5	170.2	158.9	145.3	131.8	117.4	102.0	85.8
82.5°	194.1	188.2	179.6	171.1	159.8	148.5	135.0	121.4	106.1	91.2	75.4
85°	183.7	177.8	169.7	160.7	149.9	137.7	125.0	111.5	96.1	80.8	65.0
87.5°	174.7	167.9	159.8	150.8	139.9	128.2	116.0	101.6	86.7	71.8	55.5
90°	165.2	158.9	150.8	141.7	130.9	119.2	106.5	93.0	78.5	63.2	47.8
92.5°	157.1	150.3	142.6	133.6	122.8	111.5	98.8	85.3	71.3	56.4	41.5
95°	148.9	142.2	135.0	125.9	115.1	103.8	91.2	78.1	64.5	50.1	36.1
97.5°	139.9	134.1	126.8	118.3	107.4	96.6	84.4	71.8	58.7	44.7	31.6
100°	132.7	125.9	119.2	110.1	100.2	89.8	77.6	65.4	52.8	39.7	27.5
102.5°	124.6	118.3	111.5	102.9	93.0	82.6	71.3	59.6	47.8	35.7	23.9
105°	116.9	111.0	103.8	95.7	86.2	76.3	65.4	54.6	43.3	31.6	21.2
107.5°	109.2	103.4	96.6	88.9	79.9	70.0	60.0	49.2	38.8	28.4	19.0
110°	101.6	96.1	89.8	82.1	73.6	64.5	55.1	45.1	34.8	25.3	16.7



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	94.8	89.4	83.0	75.8	67.7	59.1	50.1	40.6	31.1	22.6	14.4
115°	88.0	83.0	76.7	70.4	62.3	54.2	45.6	36.6	28.0	20.3	12.6
117.5°	81.2	76.3	70.4	64.1	56.9	49.2	41.1	32.5	25.3	18.1	11.3
120°	74.5	70.0	64.5	58.7	52.4	44.7	36.6	29.3	22.6	15.8	9.9
122.5°	68.2	64.1	59.1	53.7	46.9	39.7	32.9	26.6	20.3	14.0	8.1
125°	62.3	58.2	53.7	48.3	42.0	35.7	29.8	23.9	17.6	12.2	6.8
127.5°	56.4	52.4	47.8	42.9	37.9	32.0	26.6	21.2	15.8	10.8	5.9
130°	50.6	46.9	42.9	38.8	33.9	28.4	23.9	18.5	13.5	8.6	5.0
132.5°	44.7	42.0	38.4	34.3	29.8	25.7	20.8	16.2	11.7	7.7	4.5
135°	39.7	37.0	33.9	30.2	26.6	22.6	18.1	14.0	9.9	6.3	3.6
137.5°	35.2	32.9	29.8	26.6	23.5	19.4	15.8	11.7	8.1	5.4	2.7
140°	31.1	28.9	26.2	23.0	20.3	16.7	13.1	9.5	7.2	4.5	2.3
142.5°	27.1	24.8	22.6	19.9	17.2	14.0	10.8	8.1	5.9	3.6	2.3
145°	23.0	21.2	19.0	16.7	14.0	11.3	9.0	6.8	4.5	2.7	1.8
147.5°	19.0	17.6	15.3	13.5	11.3	9.0	7.2	5.4	3.6	2.3	1.4
150°	15.3	14.0	12.2	10.4	9.0	7.2	5.9	4.1	2.7	2.3	1.4
152.5°	11.7	10.8	9.5	8.6	7.2	5.4	4.1	3.2	2.3	1.8	0.9
155°	9.5	8.6	7.7	6.3	5.4	4.1	3.2	2.3	1.8	1.4	0.9
157.5°	6.8	6.3	5.4	4.5	3.6	2.7	2.3	2.3	1.4	0.9	0.5
160°	4.5	4.1	3.6	2.7	2.3	2.3	1.8	1.4	0.9	0.9	0.5
162.5°	2.7	2.3	2.3	2.3	1.8	1.8	1.4	0.9	0.9	0.5	0.5
165°	1.8	1.8	1.8	1.4	1.4	1.4	0.9	0.5	0.5	0.5	0.5
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-LD5-20SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9
2.5°	428.3	427.0	428.8	431.9	432.4	431.9	431.0	432.4	434.2	433.8	430.6
5°	427.4	425.6	427.4	430.6	430.6	430.1	429.7	431.0	432.9	432.4	429.7
7.5°	424.7	422.9	424.7	427.4	427.9	427.0	427.0	428.3	430.1	429.7	427.4
10°	421.1	419.3	420.2	423.4	424.3	423.4	423.4	424.7	427.0	426.5	423.8
12.5°	415.7	414.3	415.2	418.0	418.9	418.4	418.0	419.8	422.0	422.0	419.3
15°	409.8	408.0	408.9	412.1	412.5	411.6	412.1	413.4	416.2	416.2	413.9
17.5°	403.1	400.8	402.2	404.4	404.9	404.9	404.9	406.7	409.8	409.4	407.6
20°	395.4	392.2	393.1	395.4	396.3	396.3	396.3	399.5	401.7	401.7	399.9
22.5°	386.4	384.1	384.1	386.4	387.7	387.3	387.3	390.0	393.1	392.7	392.7
25°	376.0	374.2	373.3	376.0	376.4	376.9	377.8	380.5	384.1	384.1	384.6
27.5°	365.1	363.3	362.9	365.1	365.6	366.1	367.0	370.1	373.7	374.2	375.1
30°	354.8	352.1	351.2	353.0	353.9	354.3	354.3	359.3	362.4	363.8	365.6
32.5°	342.6	339.9	337.6	340.8	341.2	342.1	342.6	347.5	351.2	353.4	356.1
35°	330.4	325.9	325.0	327.2	328.1	328.6	329.5	334.9	339.9	341.7	345.3
37.5°	316.9	313.7	311.0	313.2	314.1	314.6	317.3	322.3	327.2	329.9	333.6
40°	304.2	300.2	297.9	299.3	300.2	300.6	303.8	309.2	315.0	318.2	322.7
42.5°	290.2	284.8	283.0	284.4	284.8	286.2	288.9	296.1	302.0	306.5	310.1
45°	276.2	272.2	268.1	269.5	269.9	270.8	274.9	282.6	288.9	294.3	298.3
47.5°	261.8	256.8	252.8	253.7	255.5	255.9	260.4	269.5	275.3	281.2	286.6
50°	247.3	240.6	237.4	237.4	238.3	240.6	246.4	255.5	261.8	268.6	274.4
52.5°	232.4	226.1	222.5	223.0	223.9	226.6	232.0	241.0	248.2	255.5	262.7
55°	217.6	210.8	207.2	206.3	207.2	210.8	217.1	226.6	233.8	242.4	250.1
57.5°	202.7	194.5	191.4	190.0	190.9	195.4	201.8	211.7	220.7	228.8	237.9
60°	186.4	180.1	174.7	171.5	173.8	179.6	186.4	196.8	206.3	215.3	225.2
62.5°	172.4	164.3	158.4	155.3	157.5	162.5	172.0	181.9	192.3	202.7	212.6
65°	156.6	148.5	141.7	138.6	140.8	146.7	156.2	167.0	178.3	188.7	200.4
67.5°	141.3	132.7	124.6	121.4	124.1	130.4	140.8	153.0	165.2	176.0	188.7
70°	126.4	116.9	108.3	106.1	107.9	116.5	126.4	138.6	151.2	163.8	176.9
72.5°	112.8	101.1	92.1	89.4	91.6	101.1	112.4	125.0	138.6	152.1	166.1
75°	97.0	86.2	76.3	73.1	75.8	84.4	98.4	111.9	126.4	140.8	153.9
77.5°	84.4	71.8	61.4	56.4	60.9	71.8	85.3	99.8	114.6	129.5	144.4
80°	71.3	58.2	46.9	41.5	46.5	58.2	71.8	87.6	104.3	119.2	132.7
82.5°	59.6	45.6	33.9	28.0	33.4	46.5	61.4	77.2	93.4	108.3	124.1
85°	48.7	34.3	22.1	15.8	23.5	35.2	51.0	67.3	84.0	99.3	114.6
87.5°	39.7	25.7	13.5	6.8	14.4	27.5	42.4	58.7	75.4	90.7	105.2
90°	32.5	18.5	7.2	0.9	8.6	20.8	35.2	51.0	66.8	82.6	97.0
92.5°	26.6	14.0	4.1	0.5	5.4	16.7	30.2	45.1	60.5	75.8	89.8
95°	22.1	10.8	2.7	0.5	4.1	13.1	25.7	40.2	54.6	69.5	83.5
97.5°	19.0	9.0	2.3	0.5	3.2	11.3	22.1	35.7	49.6	63.6	77.2
100°	16.2	7.2	1.8	0.5	2.7	9.5	19.4	31.6	44.7	58.2	71.3
102.5°	14.0	5.9	1.4	0.5	2.3	8.1	17.2	28.4	40.2	53.3	65.9
105°	12.2	5.0	1.4	0.5	1.8	7.2	15.3	25.3	37.0	48.7	60.9
107.5°	10.4	4.1	0.9	0.5	1.4	5.9	13.5	23.0	33.4	44.7	56.0
110°	9.0	3.6	0.9	0.5	1.4	5.4	11.7	20.8	30.2	40.6	51.5



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	7.7	2.7	0.9	0.5	0.9	4.5	10.4	18.5	27.5	37.0	47.4
115°	6.8	2.3	0.5	0.5	0.9	4.1	9.5	16.7	24.8	33.9	43.3
117.5°	5.4	1.8	0.5	0.5	0.5	3.2	8.1	14.9	22.6	31.1	39.7
120°	4.5	1.8	0.5	0.5	0.5	2.7	7.2	13.1	20.3	28.0	36.1
122.5°	4.1	1.4	0.5	0.5	0.5	2.3	6.3	11.7	18.1	25.3	32.9
125°	3.6	1.4	0.5	0.5	0.5	1.8	5.4	10.4	16.2	22.6	29.8
127.5°	2.7	1.4	0.5	0.5	0.5	1.4	5.0	9.0	14.4	20.3	26.6
130°	2.3	0.9	0.5	0.5	0.5	1.4	4.1	8.1	12.6	18.1	23.9
132.5°	1.8	0.9	0.5	0.5	0.5	0.9	3.2	6.3	10.8	15.8	21.2
135°	1.8	0.9	0.5	0.5	0.5	0.9	2.3	5.4	9.0	13.5	18.1
137.5°	1.8	0.5	0.5	0.5	0.5	0.9	1.8	4.1	7.2	10.8	14.9
140°	1.4	0.5	0.5	0.5	0.5	0.5	1.4	3.2	5.9	9.0	12.6
142.5°	1.4	0.5	0.5	0.5	0.5	0.5	1.4	2.3	4.5	7.2	9.9
145°	0.9	0.5	0.5	0.5	0.5	0.5	0.9	1.8	3.6	5.4	8.1
147.5°	0.9	0.5	0.5	0.5	0.5	0.5	0.9	1.4	2.7	4.5	6.3
150°	0.9	0.5	0.5	0.5	0.5	0.5	0.9	1.4	1.8	3.2	5.0
152.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	1.4	2.3	3.2
155°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4	1.8	2.3
157.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	1.4	1.8
160°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	1.4
162.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9
165°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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-LD5-20SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9
2.5°	429.2	426.1	427.0	426.5	427.4	428.8	428.8	428.3	428.3	427.4	426.5
5°	428.3	425.2	426.5	426.1	427.0	428.3	428.3	427.9	427.9	426.5	426.1
7.5°	425.6	423.4	424.3	424.3	425.2	426.5	426.5	426.1	426.1	424.7	424.3
10°	422.9	420.2	421.6	421.6	422.5	424.3	424.3	423.8	423.8	422.5	422.0
12.5°	418.4	415.7	418.0	418.4	419.3	421.1	420.7	420.7	420.7	419.3	418.9
15°	413.0	411.2	413.4	413.9	415.2	417.5	417.5	417.5	417.5	416.2	415.7
17.5°	407.1	405.8	408.0	408.9	410.7	413.0	413.0	413.4	413.9	413.0	412.5
20°	400.4	399.5	401.7	403.5	406.2	408.5	409.4	409.8	410.7	409.8	409.4
22.5°	392.7	392.7	395.8	397.6	400.8	403.1	404.4	405.8	406.7	405.8	405.3
25°	384.1	385.5	388.6	391.8	395.4	397.6	399.0	400.8	401.7	401.3	400.8
27.5°	376.0	377.8	381.8	385.0	388.2	391.8	393.1	395.4	396.3	396.3	395.8
30°	366.5	369.2	373.7	377.3	381.4	385.0	386.8	389.1	390.4	389.5	390.0
32.5°	357.5	362.0	365.6	369.7	374.2	377.8	380.0	382.8	384.1	383.7	384.1
35°	347.5	352.1	357.0	361.1	366.5	370.1	373.3	375.5	377.3	376.9	376.9
37.5°	336.7	342.6	347.5	353.0	357.9	362.0	365.1	367.9	369.7	369.7	369.7
40°	326.3	332.7	337.6	343.9	350.3	353.9	357.5	360.2	362.0	362.4	362.9
42.5°	315.0	321.8	327.7	334.5	340.8	345.3	349.4	352.5	354.3	355.2	354.8
45°	304.7	311.0	317.8	325.4	331.3	335.8	340.8	344.4	346.2	346.6	347.1
47.5°	292.9	300.2	307.8	315.5	321.4	327.2	331.7	335.4	337.2	338.5	338.5
50°	281.6	289.3	297.9	306.0	312.3	318.2	322.7	326.8	329.0	329.9	330.4
52.5°	271.3	278.5	287.5	295.6	302.0	307.8	313.7	318.2	320.5	321.4	321.4
55°	258.6	267.7	277.6	285.3	292.0	298.8	304.7	309.2	311.4	312.8	313.7
57.5°	246.9	256.4	266.8	274.9	283.0	289.3	294.7	300.6	302.4	304.2	304.7
60°	235.6	245.1	255.0	264.0	272.2	278.9	285.3	290.2	293.4	294.3	295.2
62.5°	223.9	233.8	244.2	253.2	261.8	269.9	275.8	280.3	283.9	285.3	286.2
65°	212.6	223.0	233.4	242.8	251.9	260.0	265.8	270.4	274.0	276.2	276.7
67.5°	200.4	211.7	222.5	232.4	241.5	250.1	255.9	260.4	264.0	266.8	267.2
70°	189.1	200.9	211.7	222.5	231.5	240.1	246.4	251.0	255.0	256.8	257.7
72.5°	178.3	190.5	201.8	212.6	221.6	230.2	237.0	241.5	245.5	247.8	248.2
75°	167.9	180.1	192.3	202.7	212.1	220.7	227.5	232.4	236.1	238.3	239.2
77.5°	157.5	170.2	182.3	192.7	202.7	211.2	217.1	223.0	226.6	229.3	229.3
80°	147.1	160.2	172.9	183.3	193.2	200.9	207.6	213.5	217.1	219.8	219.8
82.5°	138.1	150.8	162.9	173.3	183.3	191.8	198.6	204.0	208.1	209.9	210.3
85°	127.7	141.7	153.0	164.3	173.8	181.9	188.7	194.5	198.1	200.0	200.9
87.5°	119.2	132.7	144.9	154.8	164.3	172.4	180.1	185.1	188.7	190.9	191.8
90°	111.0	124.1	136.3	146.2	156.2	163.8	171.1	176.0	180.1	181.9	182.8
92.5°	103.8	116.9	128.6	138.6	148.0	156.6	163.4	168.4	172.0	173.8	175.1
95°	97.0	109.7	121.0	131.8	140.8	148.5	155.7	160.7	164.7	166.1	167.5
97.5°	90.3	102.5	113.7	124.1	133.6	140.8	147.6	152.6	155.7	158.0	159.3
100°	84.4	96.1	107.0	116.9	125.9	132.7	139.9	144.4	147.6	149.4	151.2
102.5°	78.1	89.8	100.2	109.7	119.2	125.5	132.2	136.8	139.5	142.6	142.6
105°	72.7	83.5	93.9	102.9	111.0	118.7	124.6	129.1	132.2	134.5	134.5
107.5°	66.8	77.6	87.6	97.0	104.7	111.9	117.4	121.4	125.0	126.4	127.7
110°	62.3	71.8	81.7	90.7	97.9	104.7	110.1	114.6	117.8	119.2	120.1



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	56.9	66.8	75.8	84.4	91.6	97.9	103.4	107.0	110.1	111.9	112.4
115°	52.4	61.8	70.0	78.1	85.8	91.2	96.1	99.8	102.9	104.3	105.2
117.5°	48.3	56.9	65.0	71.8	79.0	84.9	89.8	93.0	95.7	97.5	98.4
120°	44.2	52.4	59.6	66.3	73.1	78.5	83.0	86.2	89.4	90.7	90.7
122.5°	40.2	47.8	54.6	60.9	67.3	72.2	77.2	79.9	82.6	84.0	84.0
125°	36.6	43.8	50.1	56.0	61.8	66.3	70.4	73.6	76.3	77.2	77.2
127.5°	32.9	39.7	45.6	51.0	56.0	60.5	64.5	67.7	70.0	70.9	70.9
130°	29.8	35.7	41.1	46.5	51.5	55.1	59.1	61.8	63.2	64.5	65.0
132.5°	26.6	32.0	37.0	41.5	46.5	50.1	53.3	56.0	57.3	58.7	59.1
135°	23.5	28.4	32.9	37.5	41.5	45.1	47.8	50.1	51.9	52.8	53.3
137.5°	19.9	25.3	29.3	32.9	37.5	40.2	43.3	44.7	46.5	47.4	47.4
140°	16.7	20.8	25.3	28.9	32.5	35.2	37.9	40.2	41.5	42.0	42.0
142.5°	13.5	17.2	20.8	25.3	28.4	30.7	33.4	35.2	36.1	36.6	37.0
145°	10.8	13.5	16.7	20.8	24.4	27.1	28.4	30.2	31.1	31.6	32.0
147.5°	8.1	10.8	13.5	16.2	19.9	22.6	23.9	25.7	26.6	27.1	27.1
150°	6.3	8.1	9.9	12.6	15.3	18.5	20.3	21.7	22.1	22.6	22.6
152.5°	4.5	6.3	7.7	9.5	11.3	14.0	16.7	17.6	18.1	18.5	18.5
155°	3.2	4.5	5.4	6.8	8.1	10.4	12.6	14.0	14.4	14.9	14.9
157.5°	2.3	3.2	3.6	5.0	5.9	6.8	8.6	10.8	11.3	11.3	11.3
160°	1.4	1.8	2.3	3.2	3.6	4.5	5.4	6.8	8.1	8.1	8.1
162.5°	0.9	1.4	1.4	1.8	1.8	2.7	3.2	3.6	5.0	5.4	5.4
165°	0.5	0.9	0.9	0.9	0.9	0.9	1.4	1.4	2.3	2.7	2.7
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-LD5-20SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9
2.5°	427.0	427.9	427.4	427.4	427.4	428.3	427.4	423.4	424.3	425.2	426.1
5°	426.5	427.0	427.0	426.5	426.5	427.4	426.5	422.5	423.4	424.3	424.7
7.5°	424.7	425.2	425.2	425.2	424.7	425.6	424.3	420.7	420.7	421.6	422.0
10°	422.5	423.4	422.9	422.5	422.5	422.5	421.6	417.5	417.5	418.0	418.4
12.5°	419.8	419.8	419.8	419.3	418.9	418.9	418.0	413.9	413.4	414.3	413.9
15°	416.2	417.1	416.2	415.7	414.8	414.8	413.4	409.4	408.5	408.9	408.5
17.5°	413.0	413.4	412.5	411.6	410.7	410.3	408.9	404.4	403.1	403.5	402.6
20°	409.8	409.8	408.9	408.0	406.7	405.3	403.5	399.0	396.7	396.7	394.9
22.5°	405.8	405.8	404.9	403.5	402.2	400.4	398.5	394.0	390.4	389.5	388.2
25°	401.3	400.8	400.4	399.0	396.3	394.5	392.7	387.7	383.7	381.8	379.6
27.5°	395.8	395.8	394.5	393.1	390.4	388.2	385.9	381.4	376.0	373.7	370.6
30°	390.0	390.0	388.6	386.8	384.1	381.4	378.7	373.3	367.9	364.7	361.1
32.5°	384.1	383.7	382.3	380.5	377.8	373.7	371.5	366.1	359.7	356.1	351.2
35°	376.9	376.4	375.1	372.8	369.2	366.1	362.4	357.5	350.3	345.7	340.3
37.5°	369.7	369.2	368.3	365.1	361.5	357.9	353.4	348.4	341.7	335.8	330.4
40°	362.4	362.0	360.2	357.9	353.4	348.9	344.4	339.4	332.2	325.4	319.6
42.5°	354.8	354.3	352.1	349.4	344.4	339.9	334.5	329.0	321.8	313.7	307.8
45°	347.1	346.2	343.9	340.8	335.4	330.4	325.0	318.7	311.4	303.8	296.1
47.5°	339.0	337.6	335.4	330.8	326.3	320.9	314.6	307.8	300.6	292.0	283.9
50°	329.9	329.0	326.3	322.3	316.9	311.4	304.2	297.4	288.9	280.7	270.8
52.5°	321.4	319.6	317.3	312.8	307.4	301.5	293.8	285.7	277.1	269.5	259.1
55°	312.3	311.4	308.3	304.7	297.9	291.1	283.9	275.3	265.8	256.8	246.9
57.5°	303.8	302.0	299.3	294.3	288.4	281.6	274.0	264.9	254.6	245.1	234.3
60°	295.2	292.5	289.3	284.8	278.5	271.3	263.1	253.7	243.3	232.9	221.6
62.5°	285.7	283.5	279.8	275.3	269.0	261.3	252.8	242.8	232.9	222.1	209.9
65°	276.2	274.0	270.4	265.8	259.5	251.0	241.9	232.0	220.7	210.3	197.2
67.5°	266.8	264.5	260.4	255.5	249.1	241.0	231.5	221.2	209.9	198.6	185.1
70°	257.3	254.6	251.0	245.5	239.2	230.6	221.2	210.3	199.0	186.9	173.3
72.5°	247.8	245.5	241.0	236.1	229.3	220.7	211.2	200.4	188.7	176.0	162.5
75°	238.3	235.6	232.4	226.6	219.4	211.2	201.3	190.5	177.8	165.6	151.7
77.5°	228.8	226.6	222.5	216.7	209.9	201.3	191.4	180.5	167.9	155.3	140.4
80°	219.4	216.7	213.5	208.1	200.4	191.8	181.4	170.6	158.0	144.9	130.0
82.5°	209.9	207.2	203.6	198.1	190.9	182.3	172.4	160.7	148.0	134.5	120.5
85°	200.4	198.1	194.1	188.7	181.0	172.4	162.5	152.1	138.6	125.0	111.0
87.5°	190.9	188.7	184.6	179.2	172.0	163.4	153.5	142.6	129.5	116.9	101.6
90°	181.9	180.1	176.0	170.6	163.4	154.8	145.8	134.1	121.4	108.8	94.3
92.5°	173.8	172.0	168.4	162.9	156.6	147.1	138.1	126.8	114.2	101.1	87.1
95°	166.6	164.3	160.7	155.7	148.0	139.9	130.9	119.6	107.4	94.3	80.8
97.5°	158.4	156.2	152.6	147.1	140.8	132.2	123.2	112.4	100.2	88.0	74.5
100°	150.3	148.0	144.0	139.5	133.2	124.6	116.0	105.2	93.9	82.1	69.1
102.5°	142.2	139.9	136.3	131.8	125.5	117.8	109.2	98.8	87.6	75.8	63.6
105°	134.5	132.2	128.6	124.1	118.3	110.6	101.6	92.5	81.7	70.4	58.7
107.5°	126.8	124.6	121.4	116.9	111.0	103.8	95.2	85.8	75.8	65.0	53.7
110°	119.2	117.4	113.7	109.7	103.8	96.6	88.9	79.9	70.0	60.0	49.2





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	111.9	110.1	106.5	102.0	97.0	90.3	82.6	74.0	64.5	55.1	44.7
115°	104.7	102.5	99.3	95.2	90.3	84.0	76.7	69.1	59.6	50.6	41.1
117.5°	97.5	95.7	92.5	88.5	84.0	77.6	70.9	63.6	54.6	46.0	37.5
120°	90.3	88.9	85.8	82.1	77.6	71.8	65.4	58.2	50.1	42.0	33.9
122.5°	83.5	82.1	79.0	75.8	71.3	65.9	60.0	53.3	46.0	38.4	31.1
125°	77.2	75.4	72.7	69.5	65.4	60.5	54.6	48.3	41.5	34.8	28.0
127.5°	70.4	69.1	67.3	63.6	59.6	55.1	49.6	44.2	37.9	31.6	25.3
130°	65.0	63.2	60.9	58.2	54.6	50.1	45.1	39.7	34.3	28.4	22.1
132.5°	58.7	56.9	55.1	52.4	49.2	45.1	40.6	35.7	30.7	25.3	19.9
135°	52.8	51.5	49.6	46.9	43.8	40.6	36.1	31.6	27.1	22.1	17.6
137.5°	47.4	46.0	44.2	42.4	39.3	36.1	32.0	28.0	23.9	19.4	15.3
140°	42.0	41.1	39.3	37.5	34.8	31.6	28.0	24.4	20.8	16.7	13.1
142.5°	36.6	35.7	34.3	32.5	30.2	27.5	24.4	21.2	17.6	14.4	11.3
145°	31.6	31.1	29.8	28.0	26.2	23.5	20.8	18.1	14.9	12.2	9.0
147.5°	26.6	26.2	25.3	23.9	22.1	19.9	17.6	14.9	12.6	9.9	7.2
150°	22.1	21.7	21.2	19.4	18.5	16.2	14.4	12.2	10.4	7.7	5.9
152.5°	18.1	18.1	17.2	15.8	14.9	13.1	11.7	9.9	8.1	6.3	4.5
155°	14.4	14.0	13.5	12.6	11.7	10.4	9.0	7.7	6.3	4.5	3.2
157.5°	11.3	10.8	10.4	9.5	8.6	8.1	6.8	5.4	4.1	3.2	2.3
160°	8.1	7.7	7.2	6.8	6.3	5.4	4.5	3.6	2.7	1.8	1.4
162.5°	5.4	5.0	5.0	4.5	4.1	3.2	2.7	2.3	1.8	1.4	0.9
165°	2.7	2.7	2.3	2.3	1.8	1.4	1.4	1.4	0.9	0.9	0.5
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-LD5-20SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	427.9	427.9	427.9	427.9	427.9	427.9	427.9
2.5°	425.6	425.6	427.4	427.0	425.6	428.3	431.5
5°	424.3	424.3	425.6	425.6	424.3	427.0	429.7
7.5°	422.0	421.6	422.9	422.9	421.1	423.4	426.5
10°	418.0	417.5	418.9	418.9	417.1	419.3	422.0
12.5°	413.4	412.5	413.9	413.4	411.6	413.9	416.6
15°	407.6	407.1	408.0	407.1	405.3	407.6	410.3
17.5°	401.7	400.4	400.8	400.8	397.6	399.9	402.2
20°	394.0	392.2	392.7	392.2	390.0	391.3	394.0
22.5°	386.4	383.7	383.7	383.2	380.5	382.3	384.6
25°	376.9	373.7	373.7	373.3	370.1	371.5	373.7
27.5°	367.4	364.2	362.9	362.4	359.3	359.3	362.4
30°	357.5	353.0	352.1	350.7	347.5	347.5	350.3
32.5°	348.0	341.7	339.9	338.1	334.9	334.5	337.6
35°	335.4	330.4	327.2	325.4	321.8	320.9	323.6
37.5°	325.0	318.7	314.1	311.9	308.3	306.9	310.5
40°	313.7	306.9	301.1	299.7	294.3	292.5	295.6
42.5°	301.1	293.8	288.0	285.3	281.2	279.4	279.8
45°	288.4	280.7	274.4	270.8	266.8	263.6	265.4
47.5°	275.3	268.6	260.9	255.5	250.5	248.2	249.1
50°	262.2	254.1	246.9	241.0	235.2	232.4	234.3
52.5°	249.1	240.6	232.4	226.1	219.4	216.7	217.1
55°	236.5	227.5	218.0	211.2	204.9	200.9	200.0
57.5°	223.9	213.9	204.0	196.3	188.2	184.6	183.3
60°	210.3	200.0	189.6	180.5	172.0	167.9	166.1
62.5°	197.7	186.4	174.7	165.2	156.6	151.2	149.9
65°	185.5	172.4	160.7	149.9	140.4	134.5	132.7
67.5°	172.4	158.9	146.2	134.5	125.5	117.8	116.9
70°	160.2	145.8	131.8	119.6	109.7	102.0	98.4
72.5°	148.0	133.2	118.7	105.6	93.0	85.8	83.0
75°	136.3	121.0	105.6	92.1	78.1	69.5	66.8
77.5°	125.5	109.7	93.4	78.5	65.4	54.6	51.0
80°	115.1	98.8	81.7	66.3	52.4	40.6	36.6
82.5°	104.3	88.9	71.3	55.1	40.6	28.4	23.5
85°	94.8	79.4	61.8	45.6	31.1	18.1	12.6
87.5°	87.1	70.4	54.6	38.4	23.5	10.4	3.6
90°	79.4	63.2	47.4	31.6	17.6	5.9	0.5
92.5°	72.7	57.3	41.5	27.1	13.5	4.1	0.5
95°	66.3	51.5	36.6	22.6	10.8	2.7	0.5
97.5°	60.5	46.5	32.5	19.4	9.0	2.3	0.5
100°	55.5	42.0	28.9	17.2	7.7	1.8	0.5
102.5°	50.6	37.9	25.7	14.9	6.8	1.4	0.5
105°	46.5	34.3	23.0	13.5	5.9	1.4	0.5
107.5°	42.4	31.1	20.8	11.7	5.0	0.9	0.5
110°	38.4	28.4	18.5	10.4	4.5	0.9	0.5



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-20SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	35.2	25.7	16.7	9.5	3.6	0.9	0.5
115°	32.0	23.0	14.9	8.1	3.2	0.5	0.5
117.5°	28.9	20.8	13.1	7.2	2.7	0.5	0.5
120°	26.2	18.5	11.7	6.3	2.3	0.5	0.5
122.5°	23.5	16.7	10.4	5.4	1.8	0.5	0.5
125°	21.2	14.9	9.0	4.5	1.4	0.5	0.5
127.5°	19.0	13.1	8.1	4.1	1.4	0.5	0.5
130°	16.7	11.7	6.8	3.2	0.9	0.5	0.5
132.5°	14.9	9.9	5.9	2.7	0.9	0.5	0.5
135°	13.1	8.6	5.0	1.8	0.9	0.5	0.5
137.5°	11.3	7.2	4.1	1.4	0.5	0.5	0.5
140°	9.5	6.3	3.2	1.4	0.5	0.5	0.5
142.5°	8.1	5.0	2.3	0.9	0.5	0.5	0.5
145°	6.3	4.1	1.8	0.9	0.5	0.5	0.5
147.5°	5.0	3.2	1.4	0.9	0.5	0.5	0.5
150°	3.6	2.3	1.4	0.5	0.5	0.5	0.5
152.5°	2.7	1.8	0.9	0.5	0.5	0.5	0.5
155°	1.8	1.4	0.9	0.5	0.5	0.5	0.5
157.5°	1.4	0.9	0.5	0.5	0.5	0.5	0.5
160°	0.9	0.5	0.5	0.5	0.5	0.5	0.5
162.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5
165°	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)