

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-LD5-22SL-LN-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 (P33519)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-22SL-LN-UNV-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

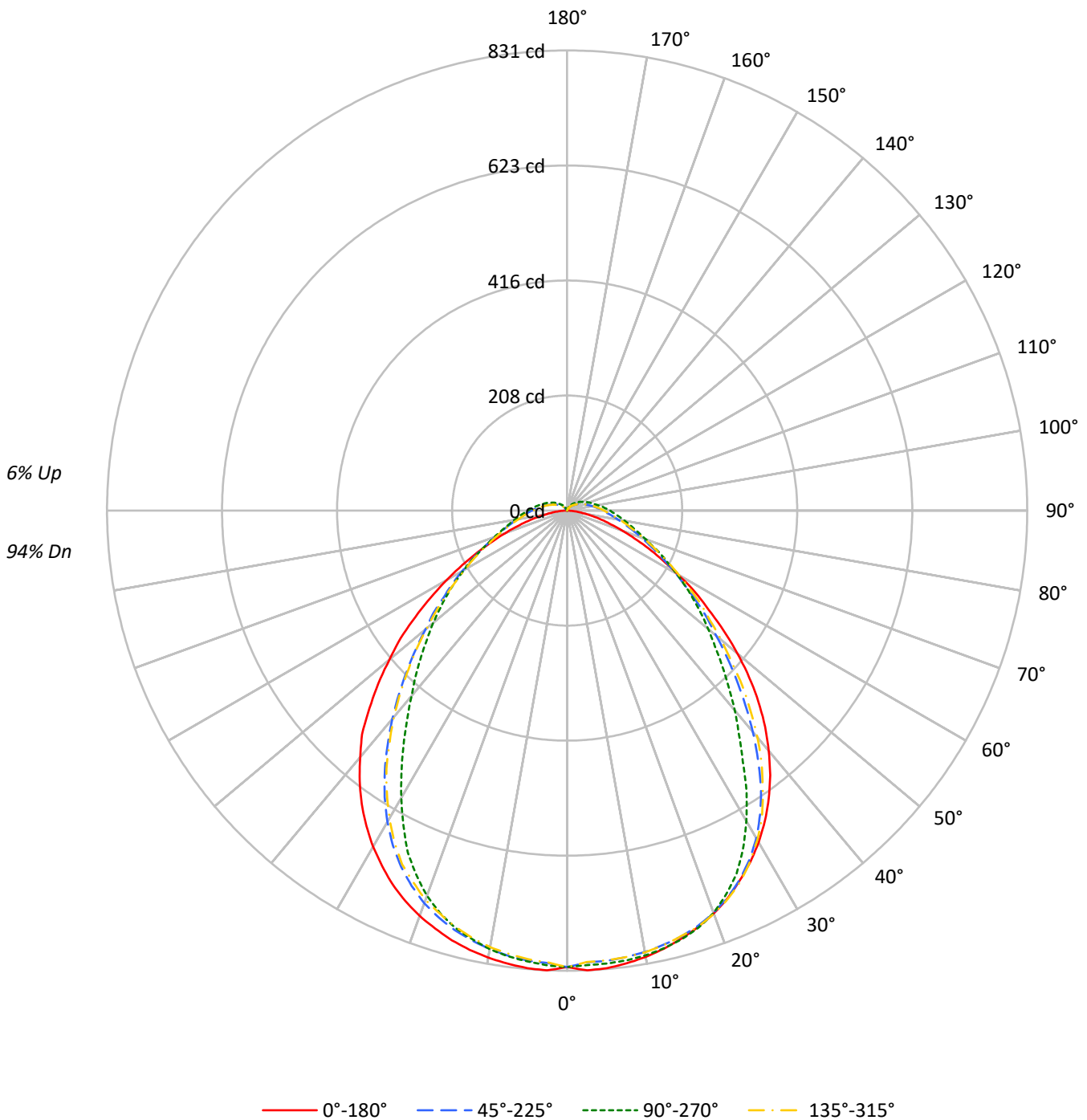
Lumens per Lamp: N/A  
Luminaire Lumens: 2086.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 16  
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	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81	79
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69	67
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60	57
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52	50
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46	44
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41	39
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33	31
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30	28
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	6661	6661	6661	6661
5°	6709	6449	6709	6421
10°	6679	6278	6689	6190
15°	6636	6090	6665	5931
20°	6585	5848	6623	5602
25°	6479	5491	6551	5168
30°	6342	4965	6424	4597
35°	6127	4321	6246	4024
40°	5821	3779	5974	3507
45°	5417	3285	5592	3097
50°	4864	2886	5077	2741
55°	4207	2549	4513	2420
60°	3539	2238	3858	2110
65°	2901	1979	3193	1835
70°	2309	1756	2585	1624
75°	1812	1622	2041	1492
80°	1308	1565	1542	1429
85°	806	1574	1086	1446



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.1	3.7
10°-20°	224.1	10.7
20°-30°	332.1	15.9
30°-40°	368.9	17.7
40°-50°	334.4	16.0
50°-60°	259.2	12.4
60°-70°	176.0	8.4
70°-80°	112.0	5.4
80°-90°	71.6	3.4
90°-100°	48.3	2.3
100°-110°	33.1	1.6
110°-120°	22.0	1.1
120°-130°	13.7	0.7
130°-140°	7.6	0.4
140°-150°	3.6	0.2
150°-160°	1.3	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	634.3	30.4
0°-40°	1003.3	48.1
0°-60°	1596.9	76.6
0°-90°	1956.4	93.8
90°-120°	103.4	5.0
90°-150°	128.2	6.1
90°-180°	130.0	6.2
0°-180°	2086.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	824	824	824	824	824	
5°	829	821	829	818	829	79
15°	800	801	803	780	800	226
25°	737	724	745	681	737	340
35°	635	553	647	515	635	396
45°	489	395	505	373	489	375
55°	312	278	335	264	312	281
65°	162	187	178	173	162	162
75°	65	125	73	115	65	70
85°	12	90	16	82	12	14
90°	0	78	1	71	0	1
95°	0	66	0	62	0	0
105°	0	48	0	46	0	1
115°	0	37	0	34	0	0
125°	0	27	0	24	0	0
135°	0	19	0	15	0	0
145°	0	12	0	9	0	0
155°	0	7	0	3	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-22SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3
2.5°	831.1	830.2	829.3	827.9	829.3	832.9	830.6	825.6	824.7	816.6	820.2
5°	829.3	827.9	827.0	825.6	827.4	832.0	829.7	825.2	823.8	816.1	820.2
7.5°	824.7	823.8	822.5	822.5	824.3	828.8	827.0	822.0	821.1	813.4	817.9
10°	818.4	817.9	817.0	817.0	818.8	824.3	822.0	817.5	816.6	809.3	814.3
12.5°	810.2	810.7	809.3	809.3	812.0	817.5	815.7	810.7	809.8	803.4	808.4
15°	799.8	800.2	799.3	799.8	802.5	808.9	806.6	802.0	801.1	796.2	800.2
17.5°	788.0	788.4	788.4	788.0	791.2	797.5	795.7	791.6	790.3	786.2	791.2
20°	774.4	774.4	774.4	774.4	778.0	784.4	782.1	778.9	776.2	773.0	777.1
22.5°	757.6	757.2	757.6	759.0	762.6	767.6	766.2	762.6	758.5	756.7	759.9
25°	737.2	738.6	739.0	740.4	744.9	749.0	747.6	744.0	737.7	736.3	737.2
27.5°	715.9	716.8	718.2	717.7	724.1	728.1	725.4	722.3	713.2	711.8	710.9
30°	691.9	693.2	694.1	693.7	698.7	703.2	700.5	696.4	684.2	683.3	676.0
32.5°	664.7	666.0	666.9	666.9	674.2	676.0	671.0	665.1	652.0	648.8	642.5
35°	634.7	636.1	636.6	636.6	643.8	643.4	637.0	628.9	614.3	610.3	599.4
37.5°	602.6	603.5	603.9	606.6	609.8	607.1	598.9	588.5	577.6	566.3	554.5
40°	566.3	567.6	568.6	570.4	573.5	570.4	558.6	545.9	534.1	521.4	509.6
42.5°	529.1	533.2	532.3	531.8	533.6	525.0	516.0	501.5	489.7	476.5	464.7
45°	488.8	488.3	490.6	491.5	491.0	483.8	471.1	457.9	446.1	432.5	422.6
47.5°	446.1	445.7	447.5	448.4	445.7	438.0	428.0	413.0	403.1	391.3	383.6
50°	401.3	401.3	404.0	401.3	399.9	392.2	384.0	369.1	361.4	350.9	346.4
52.5°	356.4	360.4	357.7	356.8	355.5	347.8	341.4	329.2	322.8	318.3	312.8
55°	311.9	316.5	314.7	313.3	312.8	306.5	300.6	291.5	287.5	284.3	281.1
57.5°	274.3	273.8	272.9	271.6	272.0	267.0	261.2	256.2	254.4	253.0	253.9
60°	230.8	234.4	233.0	233.5	234.0	233.0	228.1	224.9	225.3	225.8	227.1
62.5°	195.0	198.1	200.4	198.6	199.5	200.9	198.1	197.2	199.0	200.9	202.7
65°	161.9	165.0	167.3	166.8	169.6	172.3	171.8	172.7	176.8	179.1	181.4
67.5°	131.9	135.1	138.3	138.7	142.8	146.9	148.7	151.9	156.4	159.6	162.3
70°	106.1	108.8	112.4	114.7	120.1	125.6	128.8	135.1	137.8	142.4	144.2
72.5°	83.0	85.2	90.2	95.7	100.2	107.0	113.3	118.8	122.9	127.9	130.1
75°	64.8	65.7	71.2	77.5	83.9	91.6	98.4	104.3	109.7	114.7	118.3
77.5°	47.6	49.0	54.0	62.6	69.8	78.0	85.7	92.0	97.9	102.9	107.9
80°	33.1	35.8	41.3	49.9	58.0	67.1	74.4	81.6	88.0	92.9	97.9
82.5°	21.3	23.6	31.3	39.9	48.5	57.6	65.3	72.5	79.3	84.8	89.3
85°	11.8	15.0	22.7	31.7	40.4	49.4	57.6	64.8	71.6	76.6	81.2
87.5°	4.5	9.1	16.3	24.9	33.6	42.2	50.8	57.6	64.4	69.8	73.9
90°	0.0	5.4	12.2	20.9	29.5	38.1	46.2	53.5	59.8	64.8	69.4
92.5°	0.5	3.6	9.5	16.8	24.9	33.1	40.8	48.1	54.4	59.4	63.5
95°	0.5	2.7	7.7	14.5	21.8	29.5	36.7	43.5	49.4	54.4	58.5
97.5°	0.5	1.8	6.3	12.7	19.0	26.8	33.6	39.9	45.3	50.3	53.5
100°	0.5	1.8	5.4	10.9	17.2	24.0	30.4	36.7	41.7	45.8	49.4
102.5°	0.5	1.4	4.5	9.5	15.4	21.3	27.7	33.6	38.1	42.2	45.8
105°	0.5	1.4	4.1	8.2	13.6	19.5	24.9	30.4	35.4	39.0	42.2
107.5°	0.5	0.9	3.6	6.8	11.8	17.7	23.1	27.7	32.2	35.8	39.0
110°	0.5	0.9	3.2	6.3	10.4	15.9	20.9	25.4	29.5	33.1	35.8



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CATALOG NUMBER: 4SNLED-LD5-22SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.5	0.9	2.7	5.9	9.5	14.1	19.0	23.1	27.2	30.4	33.1
115°	0.5	0.9	2.7	5.4	8.6	12.2	16.8	21.3	24.5	28.1	30.4
117.5°	0.5	0.9	2.3	4.5	8.2	11.3	15.4	19.0	22.7	25.8	28.1
120°	0.5	0.9	2.3	4.1	7.3	10.4	13.6	17.2	20.9	23.1	25.4
122.5°	0.5	0.9	1.8	4.1	6.3	9.5	12.2	15.4	18.6	21.3	23.6
125°	0.5	0.9	1.8	3.6	5.9	8.6	11.3	13.6	16.8	19.0	21.3
127.5°	0.5	0.9	1.8	3.2	5.4	7.7	10.4	12.7	15.0	17.2	19.0
130°	0.5	0.9	1.4	2.7	5.0	6.8	9.1	11.8	13.6	15.4	17.2
132.5°	0.5	0.9	1.4	2.7	4.1	5.9	8.2	10.4	12.2	14.1	15.4
135°	0.5	0.9	1.4	2.3	3.6	5.4	6.8	9.1	10.9	12.7	14.1
137.5°	0.5	0.9	1.4	2.3	3.2	4.5	5.9	7.7	9.5	10.9	12.7
140°	0.5	0.9	1.4	1.8	2.7	4.1	5.4	6.3	8.2	9.5	10.9
142.5°	0.5	0.9	1.4	1.8	2.7	3.6	4.5	5.4	6.8	8.2	9.5
145°	0.5	0.9	1.4	1.8	2.3	3.2	4.1	5.0	5.4	6.8	7.7
147.5°	0.5	0.9	1.4	1.8	1.8	2.7	3.6	4.1	5.0	5.4	6.3
150°	0.5	0.9	1.4	1.4	1.8	2.3	3.2	3.6	4.1	5.0	5.4
152.5°	0.5	0.9	1.4	1.4	1.8	2.3	2.7	3.2	3.6	4.1	4.5
155°	0.5	0.9	1.4	1.4	1.4	1.8	2.3	2.7	3.2	3.6	4.1
157.5°	0.9	0.9	0.9	1.4	1.4	1.8	1.8	2.3	2.7	2.7	3.2
160°	0.9	0.9	0.9	1.4	1.4	1.4	1.8	1.8	2.3	2.3	2.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3
2.5°	819.3	820.6	824.7	824.7	823.8	822.9	822.9	821.5	822.5	824.3	823.4
5°	819.3	820.6	824.7	824.7	823.8	822.9	822.5	821.1	822.5	824.3	823.4
7.5°	816.6	818.4	822.5	822.5	821.5	821.1	820.2	819.3	820.6	822.5	821.5
10°	812.9	814.7	818.8	818.8	817.9	817.9	816.6	815.7	817.5	818.8	818.4
12.5°	807.5	809.8	813.4	812.9	812.0	812.5	811.1	809.3	811.1	812.5	812.9
15°	799.8	802.5	806.1	805.2	803.9	804.8	802.5	801.1	802.5	805.2	804.8
17.5°	789.8	791.6	794.3	794.3	793.0	792.1	791.2	789.8	790.7	792.5	793.0
20°	775.8	778.0	779.4	778.0	777.6	776.2	774.4	773.0	774.8	777.6	778.0
22.5°	757.2	757.6	760.8	757.6	755.4	754.9	753.1	750.4	753.1	755.4	755.8
25°	734.0	736.3	734.9	729.5	729.5	725.9	725.0	723.6	724.1	728.1	730.0
27.5°	704.6	705.5	701.9	697.3	693.2	691.0	687.8	688.2	688.2	693.7	695.5
30°	672.4	667.4	664.2	657.0	653.8	648.3	647.4	647.4	646.5	649.3	657.4
32.5°	633.8	627.0	622.1	615.3	609.8	604.4	601.7	603.0	602.6	609.4	612.1
35°	591.7	587.6	577.2	568.6	565.4	557.2	557.2	553.1	555.9	563.6	566.7
37.5°	547.2	540.9	532.3	522.8	520.5	514.1	511.9	509.6	515.5	516.9	520.0
40°	501.9	496.0	487.8	478.8	478.8	471.1	471.1	471.1	471.5	474.2	480.1
42.5°	458.8	452.5	445.2	438.9	438.0	432.1	432.1	431.6	432.5	434.8	440.2
45°	417.1	412.1	404.4	401.3	401.7	395.4	396.7	395.4	397.2	399.4	401.3
47.5°	378.6	375.4	372.2	367.7	366.3	365.9	363.6	361.8	365.0	365.0	367.7
50°	342.8	341.0	339.1	336.4	336.9	335.1	332.3	332.3	334.6	335.1	336.9
52.5°	311.5	309.2	306.9	307.4	307.9	306.9	305.6	304.2	305.6	306.5	308.8
55°	280.2	278.4	280.6	279.7	280.6	279.7	278.8	277.9	280.2	278.8	281.1
57.5°	252.1	253.9	254.8	253.0	254.4	253.4	253.9	252.5	254.4	255.3	254.8
60°	226.2	229.0	227.6	228.1	229.9	229.0	227.1	228.5	230.3	230.8	230.3
62.5°	202.7	205.8	207.2	206.3	206.7	205.8	207.2	205.4	207.7	208.6	207.2
65°	181.4	185.0	185.9	185.9	185.9	185.0	186.3	186.8	187.7	187.7	186.8
67.5°	163.2	166.4	167.3	168.2	167.3	166.4	166.4	166.8	168.7	169.6	168.7
70°	146.9	150.1	150.5	150.5	151.0	151.9	150.1	151.0	152.3	152.8	152.3
72.5°	132.8	136.0	136.9	136.5	136.9	137.4	137.4	136.5	137.8	138.7	138.7
75°	121.5	123.3	124.2	124.2	124.7	125.1	125.1	124.7	125.6	126.0	126.5
77.5°	111.1	112.4	113.8	113.8	114.3	113.8	114.7	114.7	115.2	115.6	116.1
80°	100.7	102.5	103.4	103.8	104.7	105.2	105.2	105.2	105.6	106.1	106.1
82.5°	92.5	93.9	95.2	96.6	96.6	97.0	97.0	97.0	97.5	97.5	97.9
85°	84.3	86.1	87.5	88.4	88.9	89.3	89.3	89.8	89.8	89.8	90.2
87.5°	77.1	79.3	80.3	81.2	81.6	82.5	82.5	82.5	83.0	83.0	83.0
90°	72.1	74.4	75.3	76.2	76.6	77.1	77.1	77.5	77.5	78.0	78.0
92.5°	66.2	68.5	70.3	70.3	70.7	71.6	71.2	71.2	71.6	72.1	72.1
95°	61.7	63.5	64.8	65.3	65.7	65.7	65.7	66.2	65.7	66.2	66.2
97.5°	56.2	58.0	59.4	60.3	60.8	60.8	60.8	61.2	60.8	61.2	61.2
100°	51.7	53.5	54.9	55.3	56.2	56.2	56.2	56.2	56.2	56.2	56.7
102.5°	48.1	49.9	50.8	51.2	51.7	52.1	52.1	52.1	52.1	52.6	52.6
105°	44.4	46.2	47.2	47.6	48.1	48.5	48.5	48.5	49.0	49.0	48.5
107.5°	41.3	42.6	43.5	44.4	44.9	44.9	45.3	45.3	45.3	45.3	45.3
110°	38.1	39.4	40.8	41.7	41.7	42.2	42.2	42.6	42.6	42.2	42.6





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-22SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	34.9	36.7	37.6	38.5	39.0	39.4	39.4	39.4	39.4	39.4	39.4
115°	32.2	34.0	34.9	35.8	36.3	36.7	36.7	36.7	36.7	36.7	36.7
117.5°	29.9	31.7	32.6	33.1	33.6	34.0	34.5	34.5	34.5	34.5	34.0
120°	27.7	29.0	29.9	30.8	31.3	31.7	31.7	31.7	31.7	31.7	31.7
122.5°	25.4	26.8	27.7	28.6	29.0	29.5	29.5	29.5	29.5	29.5	29.5
125°	23.1	24.5	25.4	26.3	26.8	27.2	27.2	27.2	27.2	27.2	27.2
127.5°	20.9	22.2	23.6	24.0	24.5	24.9	24.9	24.9	25.4	24.9	24.9
130°	18.6	19.9	21.3	21.8	22.2	22.7	23.1	23.1	23.1	23.1	22.7
132.5°	16.8	18.1	19.0	19.5	20.4	20.4	20.9	20.9	20.9	20.9	20.4
135°	15.4	16.3	17.2	17.7	18.6	18.6	18.6	19.0	19.0	18.6	18.1
137.5°	13.6	14.5	15.4	15.9	16.3	16.8	16.8	17.2	16.8	16.8	16.8
140°	12.7	13.1	14.1	14.5	15.0	15.0	15.0	15.4	15.4	15.0	15.0
142.5°	10.9	11.8	12.7	13.1	13.6	13.6	13.6	13.6	13.6	13.6	13.6
145°	9.1	10.4	10.9	11.8	11.8	12.2	12.2	12.2	12.2	12.2	11.8
147.5°	7.7	8.6	10.0	10.4	10.4	10.9	10.9	10.9	10.9	10.9	10.4
150°	5.9	6.8	8.2	9.1	9.1	9.5	9.5	9.5	9.5	9.1	9.1
152.5°	5.0	5.9	6.3	7.3	7.7	7.7	7.7	8.2	7.7	7.7	7.7
155°	4.5	5.0	5.4	5.9	6.3	6.8	6.8	6.8	6.8	6.3	6.3
157.5°	3.6	4.1	4.5	5.0	5.4	5.9	5.9	5.9	5.9	5.9	5.4
160°	2.7	3.2	3.6	3.6	4.1	4.5	5.0	4.5	4.5	4.5	4.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-LD5-22SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3
2.5°	822.5	822.0	823.4	821.1	814.3	816.1	815.2	819.3	820.2	821.1	825.2
5°	822.5	822.0	822.9	821.1	813.8	815.2	814.3	818.4	819.3	819.7	823.8
7.5°	820.6	820.2	821.5	819.3	811.6	813.4	812.0	816.1	816.6	817.0	820.6
10°	817.0	816.6	817.5	815.7	807.9	809.8	807.9	812.0	812.0	812.9	815.7
12.5°	811.6	810.7	812.5	810.2	801.6	803.9	803.0	805.7	806.1	806.6	809.3
15°	803.9	803.0	804.3	803.0	795.2	795.7	794.3	798.4	798.9	798.0	800.7
17.5°	792.5	791.6	794.3	793.4	785.7	787.5	787.1	788.0	789.4	787.1	790.7
20°	778.5	779.4	780.3	780.7	774.8	774.8	774.4	776.2	777.6	775.8	778.5
22.5°	757.6	759.9	762.6	763.5	759.4	759.0	761.7	760.8	762.2	761.2	763.1
25°	731.3	735.9	738.6	741.3	739.0	739.9	744.0	744.9	744.9	744.5	746.3
27.5°	698.7	704.6	709.6	715.5	713.2	715.0	721.8	722.7	724.5	722.7	726.3
30°	659.7	665.1	674.6	683.3	684.2	686.9	696.4	697.3	702.3	700.5	701.9
32.5°	620.7	623.4	634.3	642.9	648.3	655.2	665.6	667.4	674.2	675.6	675.6
35°	571.7	579.4	589.4	601.7	608.5	615.7	629.8	632.5	642.5	645.6	649.3
37.5°	530.5	537.7	544.1	556.8	569.0	577.2	588.5	595.3	605.7	611.6	616.2
40°	486.5	492.4	499.2	511.9	522.3	534.5	545.9	554.0	567.2	574.0	579.9
42.5°	444.8	449.3	456.6	465.6	476.5	490.1	501.0	510.5	524.6	534.1	540.9
45°	407.6	410.3	416.7	423.5	433.0	447.0	457.5	469.7	481.0	491.0	499.2
47.5°	372.7	376.3	379.5	384.0	392.6	401.3	413.5	425.3	436.6	447.5	455.7
50°	340.5	340.5	345.5	348.7	354.6	362.3	371.8	379.9	394.0	401.7	412.1
52.5°	309.2	311.0	313.7	315.6	320.1	325.1	332.8	339.6	351.4	358.6	368.6
55°	281.6	283.4	284.7	285.6	288.4	294.3	297.0	302.4	310.6	316.5	325.1
57.5°	255.3	256.2	257.5	258.0	258.4	262.1	264.3	265.7	273.8	279.7	287.0
60°	231.2	231.2	232.6	232.1	231.7	233.5	233.0	234.4	239.4	243.0	246.2
62.5°	208.6	208.6	209.0	208.1	207.7	207.7	205.8	207.2	208.6	209.0	211.3
65°	187.7	190.0	188.2	188.6	185.9	185.0	184.1	181.4	180.9	179.1	180.0
67.5°	169.1	170.9	169.1	169.1	166.8	165.0	162.8	158.2	156.9	153.2	152.3
70°	154.2	152.8	153.7	152.3	149.6	147.4	144.2	140.6	136.0	131.5	128.3
72.5°	139.6	139.6	138.7	137.4	136.0	131.5	127.9	123.8	118.3	112.4	107.9
75°	125.6	126.0	126.0	124.7	122.4	118.3	114.3	108.4	102.5	95.7	89.8
77.5°	115.6	115.6	115.6	113.3	111.1	107.5	102.5	96.1	89.8	81.6	74.8
80°	106.1	105.6	105.6	102.9	100.7	96.6	91.6	85.2	78.4	69.8	62.1
82.5°	98.4	97.9	97.0	94.8	91.6	87.5	82.5	75.7	68.5	60.8	51.2
85°	90.2	89.8	88.9	86.6	83.4	79.8	74.4	67.6	60.3	51.7	42.6
87.5°	83.0	82.5	81.2	79.8	76.2	72.1	66.6	60.3	52.6	44.4	35.4
90°	78.0	77.1	76.2	74.4	71.2	66.6	61.2	54.4	46.7	38.5	29.5
92.5°	72.1	71.6	70.3	68.5	65.7	61.2	55.8	49.4	41.7	34.0	25.4
95°	66.2	65.7	64.8	63.0	60.3	56.2	51.2	44.9	37.6	29.9	22.2
97.5°	60.8	60.8	59.4	58.0	54.9	51.7	46.7	40.8	34.0	27.2	19.9
100°	56.2	56.2	54.9	53.0	50.8	47.6	42.6	37.2	30.8	24.5	17.2
102.5°	52.1	51.7	50.8	49.0	46.7	43.5	39.0	34.0	28.1	21.8	15.4
105°	48.5	48.1	47.2	45.3	43.5	39.9	36.3	31.3	25.4	19.5	13.6
107.5°	44.9	44.4	44.0	42.2	39.9	36.7	33.1	28.1	23.1	17.7	12.2
110°	41.7	41.3	40.4	38.5	36.3	33.6	29.9	25.8	20.9	15.9	10.9



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-22SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	39.0	38.5	37.6	35.8	34.0	30.8	27.7	23.1	19.0	14.5	9.5
115°	36.3	35.8	34.9	33.1	30.8	28.1	24.9	21.3	16.8	12.7	8.6
117.5°	33.6	33.1	32.2	30.8	28.6	25.8	22.7	19.0	15.0	11.8	7.7
120°	31.3	30.4	29.5	28.1	25.8	23.6	20.4	17.2	13.6	10.4	6.8
122.5°	29.0	28.1	27.2	25.8	23.6	21.3	18.1	15.4	12.7	9.5	6.3
125°	26.3	25.8	24.9	23.6	21.3	19.0	16.8	14.1	11.3	8.6	5.4
127.5°	24.0	23.6	22.7	20.9	19.0	17.2	15.0	12.7	10.0	7.3	5.0
130°	22.2	21.3	20.4	19.0	17.7	15.9	13.6	11.3	9.1	6.3	4.5
132.5°	19.9	19.0	18.1	17.2	15.9	14.1	12.2	10.0	8.2	5.9	4.1
135°	18.1	17.2	16.3	15.4	14.1	12.7	10.9	9.1	7.3	5.4	3.6
137.5°	15.9	15.4	15.0	14.1	12.7	11.3	10.0	7.7	6.3	5.0	3.2
140°	14.5	14.1	13.6	12.2	11.3	10.0	8.6	6.8	5.4	4.1	2.7
142.5°	13.1	12.7	11.8	10.9	10.0	9.1	7.3	6.3	5.0	3.6	2.7
145°	11.3	10.9	10.4	9.5	8.6	7.3	6.3	5.4	4.5	3.2	2.3
147.5°	10.4	10.0	9.1	8.2	7.3	6.3	5.9	5.0	3.6	2.7	1.8
150°	8.6	8.2	7.7	6.8	6.3	5.9	5.0	4.1	3.2	2.3	1.8
152.5°	7.3	6.8	6.3	6.3	5.4	5.0	4.1	3.6	2.7	2.3	1.4
155°	6.3	6.3	5.9	5.4	4.5	4.1	3.6	2.7	2.3	1.8	1.4
157.5°	5.4	5.0	4.5	4.5	4.1	3.6	2.7	2.3	1.8	1.8	1.4
160°	4.5	4.1	4.1	3.6	3.2	2.7	2.3	2.3	1.8	1.4	1.4
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-LD5-22SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3
2.5°	825.6	820.6	825.2	831.1	831.1	830.2	829.3	831.1	835.6	833.8	828.3
5°	824.3	819.3	823.4	829.3	829.3	827.9	827.0	828.3	833.3	831.1	826.1
7.5°	821.5	817.0	819.7	825.2	825.2	823.8	822.9	824.7	828.8	826.5	821.1
10°	816.6	811.6	814.7	819.7	819.3	818.4	817.0	819.3	822.9	819.7	813.4
12.5°	810.2	805.2	807.9	812.5	812.0	810.2	809.3	810.7	813.8	812.0	805.2
15°	801.6	796.6	798.9	803.4	802.0	800.7	798.9	799.3	803.4	800.2	793.0
17.5°	791.2	785.7	787.5	791.6	790.3	788.9	786.6	787.1	791.6	787.1	779.4
20°	778.5	772.6	773.9	778.9	776.7	774.4	772.1	772.1	776.7	771.7	763.1
22.5°	764.9	759.0	759.9	763.5	761.7	757.6	755.4	756.7	759.0	752.6	743.6
25°	748.1	740.4	741.7	745.4	744.0	738.6	736.3	737.2	736.3	731.3	721.8
27.5°	728.6	720.4	721.3	723.6	721.8	716.8	714.1	714.5	712.7	706.4	695.5
30°	704.1	700.0	699.6	700.9	698.2	693.2	690.1	689.2	688.7	679.6	666.5
32.5°	679.2	675.6	673.3	675.1	671.9	666.9	661.5	661.5	657.0	648.3	637.0
35°	653.8	647.9	645.6	647.0	643.4	637.0	632.5	630.2	623.4	612.5	600.3
37.5°	621.1	617.1	614.3	615.7	611.6	607.1	598.5	596.2	589.0	574.0	558.6
40°	585.8	582.6	579.9	581.2	576.7	569.9	562.2	558.6	550.4	533.6	521.4
42.5°	547.7	546.3	543.2	548.2	539.1	532.3	524.6	518.7	510.5	492.4	478.3
45°	507.3	510.5	503.3	504.6	498.7	492.8	484.7	476.1	467.9	450.7	434.8
47.5°	464.7	467.0	462.0	462.9	456.6	451.1	443.9	433.0	423.9	409.0	394.9
50°	420.7	419.8	419.8	418.9	413.9	407.1	399.9	389.9	380.8	367.2	355.5
52.5°	374.0	375.9	376.8	379.0	372.7	368.6	357.3	348.7	341.9	327.8	317.8
55°	329.2	335.5	333.7	334.6	327.3	324.2	315.1	308.3	298.3	290.2	283.8
57.5°	288.4	289.7	290.6	292.0	288.8	282.5	275.2	269.8	262.1	255.3	250.7
60°	248.9	248.9	249.4	251.6	248.5	243.0	237.6	233.5	228.1	224.0	221.3
62.5°	211.7	214.9	215.4	213.5	209.5	206.7	203.1	200.9	197.2	195.9	195.0
65°	177.3	177.3	177.3	178.2	175.9	174.1	171.8	171.4	172.7	170.9	171.8
67.5°	148.3	146.9	146.0	146.4	145.5	144.6	144.2	145.5	148.3	148.3	150.5
70°	123.3	120.6	118.8	118.8	118.8	119.2	120.6	123.3	127.9	129.7	132.8
72.5°	102.9	97.0	94.3	94.3	94.8	96.6	100.7	105.6	109.7	113.3	117.4
75°	83.4	77.5	73.4	73.0	73.9	76.6	82.5	87.1	93.9	98.8	103.8
77.5°	67.6	60.3	55.3	54.9	56.2	60.3	67.6	73.4	81.2	86.6	92.0
80°	54.0	45.8	41.7	39.0	41.3	46.2	54.4	61.7	68.9	76.2	83.0
82.5°	43.1	35.4	29.0	26.3	29.0	35.8	43.5	52.1	59.4	67.1	73.9
85°	34.0	25.8	18.6	15.9	19.0	26.3	34.9	43.5	51.7	59.4	66.2
87.5°	26.8	18.6	11.3	7.7	11.8	19.5	27.7	36.3	44.9	52.6	59.4
90°	20.9	13.1	6.3	0.9	6.8	14.1	22.2	30.4	39.0	46.7	53.5
92.5°	17.7	10.0	3.6	0.0	4.1	10.4	18.1	26.3	34.0	41.7	48.5
95°	15.0	8.2	2.7	0.0	2.7	8.2	15.0	22.2	29.9	37.6	44.4
97.5°	12.7	6.3	1.8	0.0	1.8	6.3	12.2	19.5	26.3	33.6	39.9
100°	10.9	5.4	1.4	0.0	1.4	5.0	10.4	16.8	23.6	30.4	36.3
102.5°	9.5	4.5	0.9	0.0	0.9	4.1	8.6	14.5	20.4	26.8	32.6
105°	8.2	3.6	0.9	0.0	0.5	3.2	7.3	12.7	18.1	24.0	29.5
107.5°	7.3	3.2	0.9	0.0	0.5	2.7	6.3	10.9	16.3	21.3	26.3
110°	6.3	2.7	0.9	0.0	0.5	1.8	5.4	9.5	14.1	19.0	24.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-22SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	5.4	2.3	0.5	0.0	0.0	1.4	4.5	8.2	12.2	17.2	21.3
115°	5.0	2.3	0.5	0.0	0.0	0.9	3.6	7.3	10.9	15.4	19.0
117.5°	4.5	1.8	0.5	0.0	0.5	0.9	3.2	6.3	9.5	13.1	17.2
120°	4.1	1.8	0.5	0.0	0.5	0.5	2.3	5.4	8.2	11.8	15.0
122.5°	3.6	1.8	0.5	0.0	0.5	0.5	1.8	4.5	7.3	10.4	13.1
125°	3.2	1.4	0.9	0.5	0.5	0.5	1.4	3.6	6.3	8.6	11.8
127.5°	3.2	1.4	0.9	0.5	0.5	0.5	0.9	3.2	5.0	7.7	10.4
130°	2.7	1.4	0.9	0.5	0.5	0.5	0.5	2.3	4.5	6.3	8.6
132.5°	2.3	1.4	0.9	0.5	0.5	0.5	0.5	1.4	3.2	5.4	7.3
135°	2.3	1.4	0.9	0.5	0.5	0.5	0.5	0.9	2.3	4.1	5.9
137.5°	1.8	0.9	0.9	0.5	0.5	0.5	0.5	0.5	1.8	3.2	4.5
140°	1.8	0.9	0.9	0.5	0.5	0.5	0.5	0.5	1.4	2.3	3.6
142.5°	1.4	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.9	1.8	2.7
145°	1.4	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.8
147.5°	1.4	1.4	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4
150°	1.4	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
152.5°	1.4	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
155°	1.4	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9
157.5°	1.4	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
160°	1.4	0.9	0.9	0.5	0.9	0.5	0.9	0.9	0.9	0.9	0.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-LD5-22SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3
2.5°	826.5	817.9	822.5	821.1	822.9	826.5	826.1	825.2	825.2	823.8	822.0
5°	823.8	815.7	819.7	817.5	819.7	822.9	822.5	821.1	822.0	819.7	817.5
7.5°	818.4	811.1	814.7	812.9	814.7	817.9	816.6	816.1	817.0	813.4	812.0
10°	812.0	803.9	807.9	805.7	807.9	810.2	809.3	807.5	809.3	805.7	804.3
12.5°	802.0	795.2	798.0	797.1	798.4	800.7	798.9	797.5	798.4	795.2	792.5
15°	791.2	784.4	786.6	785.3	786.2	788.9	785.7	785.3	784.4	781.2	780.3
17.5°	777.1	770.8	773.0	770.8	772.1	771.2	770.8	768.5	768.5	764.9	762.2
20°	759.9	754.4	753.1	751.3	753.1	751.3	748.5	746.7	746.3	742.7	740.4
22.5°	739.9	733.6	734.5	729.5	730.0	727.2	722.7	720.9	719.1	715.0	711.8
25°	715.9	709.6	705.0	701.9	697.8	697.3	691.4	686.9	686.4	681.4	681.0
27.5°	688.7	681.4	677.8	670.1	665.1	661.0	656.1	651.5	649.3	643.8	640.2
30°	657.4	649.3	640.2	634.7	627.0	623.9	615.3	609.8	608.0	602.1	599.4
32.5°	622.1	613.4	606.2	595.8	587.1	582.6	574.0	568.6	566.3	559.9	556.3
35°	583.5	574.0	565.4	555.4	548.6	540.9	530.5	525.0	520.0	517.8	515.1
37.5°	543.2	532.7	522.8	512.8	506.9	497.8	488.8	485.1	479.2	477.0	474.2
40°	501.5	491.0	481.5	472.0	465.2	457.0	448.9	447.5	441.1	438.9	437.1
42.5°	460.2	449.3	438.4	431.6	426.6	418.5	413.0	411.7	406.2	404.9	404.9
45°	423.0	409.4	400.3	394.5	390.4	383.6	379.0	378.1	373.6	372.7	372.7
47.5°	383.1	370.4	363.6	360.0	356.4	351.4	348.7	348.7	344.1	343.2	342.8
50°	345.9	334.1	329.2	325.5	325.1	321.5	319.2	318.3	318.3	315.1	315.6
52.5°	310.6	304.7	300.6	298.3	295.6	293.3	291.5	291.5	290.2	287.9	288.8
55°	277.9	271.1	271.6	269.8	268.4	267.0	267.5	264.8	264.3	262.5	263.9
57.5°	245.3	245.3	244.4	243.0	240.8	241.7	241.7	241.7	239.4	238.0	239.4
60°	217.6	219.0	216.7	218.1	217.2	217.6	216.7	216.7	215.4	214.9	215.4
62.5°	193.1	195.4	194.5	196.3	195.4	195.9	196.8	195.0	194.1	193.1	194.1
65°	171.4	174.1	173.6	175.0	175.5	175.9	176.4	175.5	174.6	173.6	173.2
67.5°	152.3	155.1	156.9	157.3	157.8	159.1	158.7	157.8	156.9	155.5	155.1
70°	135.1	138.7	141.0	141.9	143.7	142.8	142.8	142.4	141.5	140.1	139.6
72.5°	120.6	124.7	126.9	127.9	129.7	129.7	129.2	128.8	127.9	126.5	126.0
75°	107.9	111.5	114.7	116.5	117.9	117.9	117.4	117.0	116.1	115.2	114.7
77.5°	97.9	101.1	103.8	106.1	107.0	107.5	107.0	106.1	106.1	105.6	105.2
80°	88.0	91.6	94.3	96.6	97.9	97.9	97.5	97.9	97.0	96.6	96.1
82.5°	79.3	83.4	86.6	88.9	89.8	90.2	89.8	90.2	89.3	89.3	89.3
85°	71.6	75.7	79.3	81.2	82.5	83.0	83.0	83.0	82.5	82.5	82.5
87.5°	65.3	69.4	73.0	74.8	76.2	76.6	76.6	77.1	76.2	76.2	76.2
90°	59.4	63.5	67.1	68.9	70.3	71.2	71.2	71.6	71.2	70.7	70.7
92.5°	54.0	58.5	62.1	63.9	65.3	66.6	66.6	67.1	66.2	66.2	66.2
95°	49.4	54.0	57.1	59.4	60.8	61.7	62.1	62.1	61.7	61.7	61.7
97.5°	45.3	49.4	52.6	54.9	56.2	56.7	57.1	57.6	57.1	57.1	57.1
100°	41.3	45.3	48.5	50.3	52.1	52.6	53.0	53.5	53.5	53.0	53.0
102.5°	37.6	41.7	44.4	46.7	48.1	49.0	49.4	49.4	49.4	49.4	49.4
105°	34.0	38.1	40.8	43.1	44.4	45.3	45.8	46.2	46.2	45.8	45.8
107.5°	30.8	34.5	37.6	39.4	41.3	42.2	42.6	42.6	43.1	42.6	42.6
110°	27.7	31.7	34.5	36.3	38.1	39.0	39.4	39.9	39.9	39.9	39.9



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-22SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	25.4	28.6	31.3	33.1	34.9	35.8	36.3	36.7	37.2	36.7	36.7
115°	22.7	25.8	28.6	30.4	31.7	32.6	33.6	34.0	34.0	34.5	34.0
117.5°	20.4	23.1	25.8	27.7	29.0	30.4	30.8	31.3	31.7	31.3	31.3
120°	18.1	20.9	23.1	24.9	26.3	27.7	28.1	28.6	29.0	28.6	28.6
122.5°	16.3	18.6	20.9	22.7	24.0	24.9	25.8	25.8	26.3	26.3	26.3
125°	14.5	16.8	18.6	20.4	21.8	22.7	23.1	23.6	23.6	24.0	24.0
127.5°	12.7	14.5	16.8	18.1	19.5	20.4	20.9	21.3	21.3	21.8	21.8
130°	10.9	12.7	14.5	15.9	17.2	18.1	18.6	19.0	19.5	19.5	19.5
132.5°	9.5	11.3	12.7	14.1	15.0	15.9	16.8	17.2	17.2	17.2	17.2
135°	7.7	9.5	10.9	12.2	13.1	14.1	14.5	15.4	15.4	15.4	15.4
137.5°	6.3	8.2	9.5	10.4	11.3	12.2	12.7	13.1	13.6	13.6	13.6
140°	5.0	6.3	7.7	9.1	10.0	10.4	11.3	11.3	11.8	11.8	11.8
142.5°	3.6	5.0	5.9	7.3	8.2	9.1	9.5	10.0	10.0	10.0	10.0
145°	2.7	3.6	4.5	5.4	6.8	7.3	7.7	8.2	8.6	8.6	8.6
147.5°	1.8	2.7	3.2	4.1	5.0	5.9	6.3	6.8	7.3	7.3	7.3
150°	1.4	1.8	2.7	3.2	3.6	4.5	5.4	5.4	5.9	5.9	5.4
152.5°	0.9	1.4	1.8	2.3	2.7	3.2	4.1	4.1	4.5	4.5	4.5
155°	0.9	0.9	0.9	1.4	1.8	2.3	2.7	3.2	3.2	3.2	3.2
157.5°	0.9	0.9	0.9	0.9	0.9	1.4	1.8	2.3	2.3	2.3	2.3
160°	0.9	0.9	0.5	0.5	0.9	0.9	0.9	0.9	1.4	1.4	1.4
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-LD5-22SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3
2.5°	823.4	824.3	824.3	823.4	822.9	824.7	822.5	813.8	816.6	817.5	820.2
5°	819.3	820.2	820.2	820.2	819.3	821.1	818.8	810.2	813.4	814.7	816.6
7.5°	813.4	813.8	814.7	814.3	813.4	816.1	813.8	805.2	807.5	809.8	812.0
10°	805.7	805.7	806.1	807.0	806.1	808.4	806.1	798.4	800.7	802.0	804.8
12.5°	795.2	796.2	796.6	796.2	795.7	797.5	796.6	789.4	790.3	793.0	795.7
15°	781.2	781.2	783.5	782.6	782.6	784.4	785.3	777.1	778.5	782.6	785.3
17.5°	764.0	764.4	766.2	767.1	766.7	769.9	770.3	764.0	763.5	768.5	771.2
20°	741.7	742.7	744.9	746.7	746.7	750.4	751.7	747.6	748.1	753.5	754.4
22.5°	714.5	714.5	718.6	721.3	723.6	725.9	730.0	726.3	726.3	733.6	737.7
25°	681.0	684.2	685.5	691.0	694.1	700.5	704.1	704.6	705.0	711.8	714.5
27.5°	643.8	644.7	648.8	655.2	658.8	664.7	671.5	672.8	675.1	684.2	688.2
30°	601.7	604.4	606.2	615.3	620.2	627.9	636.6	639.7	641.5	653.8	658.8
32.5°	558.6	559.5	567.2	572.2	578.1	586.2	596.2	602.1	605.7	618.4	625.7
35°	515.5	517.3	523.7	530.0	535.9	544.1	554.5	562.7	569.0	580.3	589.9
37.5°	476.1	480.6	482.0	488.3	492.8	501.0	508.3	520.0	526.4	538.2	550.4
40°	440.7	442.1	443.0	449.3	452.5	460.2	470.6	478.3	486.9	495.6	510.1
42.5°	405.8	406.7	408.1	411.7	415.3	420.7	428.5	436.2	445.2	457.9	467.4
45°	373.6	374.5	375.4	377.7	380.8	385.8	390.8	396.3	405.3	416.2	426.2
47.5°	343.7	345.5	345.5	345.9	348.2	352.3	355.9	362.7	367.7	373.6	384.9
50°	315.1	316.5	316.9	316.9	318.3	321.0	321.9	326.4	331.0	336.4	344.6
52.5°	288.4	288.4	287.9	289.7	289.7	291.5	292.0	294.7	297.9	303.8	307.4
55°	263.0	263.0	264.3	263.4	263.4	264.3	263.9	264.3	267.0	270.7	273.8
57.5°	238.5	238.0	239.4	238.5	238.0	238.9	239.8	238.0	238.5	242.1	242.1
60°	214.0	214.5	215.8	214.9	214.9	214.9	214.0	213.1	212.2	214.5	215.4
62.5°	194.5	193.1	194.5	193.1	194.1	193.6	192.7	190.9	191.3	190.4	189.5
65°	174.1	174.1	174.6	173.2	174.1	174.1	172.7	172.3	169.6	168.7	166.4
67.5°	156.4	156.4	156.9	156.0	156.0	156.4	155.1	153.7	151.0	149.6	146.4
70°	141.0	141.0	141.0	140.6	140.6	140.6	139.6	137.8	135.1	132.8	128.8
72.5°	126.9	127.4	126.9	126.9	128.3	126.9	125.6	123.8	121.5	117.0	113.3
75°	115.6	116.1	115.6	115.6	115.6	115.2	114.7	112.0	109.3	105.6	100.2
77.5°	105.6	105.6	106.1	105.6	105.6	105.2	103.8	101.6	98.4	95.2	88.9
80°	96.1	96.6	97.0	97.5	96.6	96.1	94.8	92.9	88.9	85.2	78.9
82.5°	89.3	88.9	89.3	89.8	88.9	88.4	87.1	84.8	81.6	76.6	70.3
85°	82.5	82.1	82.1	82.5	82.1	81.2	79.8	77.5	74.4	69.4	63.0
87.5°	75.7	76.2	76.6	76.2	75.7	74.8	73.4	71.2	67.6	63.5	56.7
90°	70.7	70.7	70.7	70.7	70.3	69.4	68.0	65.3	62.1	57.1	51.2
92.5°	66.2	66.2	66.2	66.2	65.7	64.4	63.0	60.8	57.1	52.1	46.7
95°	61.7	62.1	61.7	61.7	60.8	60.3	58.0	55.8	52.6	47.6	41.7
97.5°	56.7	57.1	56.7	56.7	56.2	55.3	54.0	51.2	48.1	43.5	38.1
100°	53.0	53.0	52.6	52.6	52.1	51.2	49.4	47.2	44.0	39.4	34.0
102.5°	49.0	49.4	49.0	49.0	48.1	47.2	45.8	43.5	40.4	35.8	30.8
105°	45.8	45.8	45.3	45.3	44.4	43.5	42.2	39.4	36.7	32.6	27.7
107.5°	42.6	42.6	42.2	42.2	41.3	40.4	38.5	36.3	33.6	29.5	24.9
110°	39.4	39.4	39.4	39.0	38.1	36.7	35.4	33.1	30.4	26.8	22.2





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-22SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	37.2	36.7	36.3	35.8	34.9	34.0	32.2	29.9	27.2	24.0	19.9
115°	34.0	34.0	33.6	33.1	32.2	30.8	29.5	27.7	24.9	21.3	17.7
117.5°	31.3	31.3	30.8	30.4	29.5	28.1	26.8	24.9	22.2	19.0	15.9
120°	28.6	28.6	28.1	27.7	26.8	25.4	24.5	22.2	19.9	16.8	14.1
122.5°	26.3	25.8	25.8	24.9	24.5	23.1	21.8	19.9	17.7	15.0	12.2
125°	23.6	23.6	23.1	22.7	22.2	20.9	19.5	17.7	15.4	13.1	10.9
127.5°	21.3	21.3	20.9	20.4	19.9	18.6	17.2	15.9	13.6	11.3	9.1
130°	19.0	19.0	18.6	18.1	17.7	16.3	15.4	13.6	11.8	10.0	7.7
132.5°	17.2	17.2	16.8	16.3	15.4	14.5	13.6	11.8	10.4	8.6	6.8
135°	15.4	15.0	15.0	14.5	13.6	12.7	11.8	10.4	8.6	7.3	5.4
137.5°	13.6	13.1	12.7	12.2	11.8	10.9	10.0	9.1	7.7	5.9	4.5
140°	11.8	11.3	11.3	10.9	10.0	9.5	8.6	7.3	6.3	5.0	3.6
142.5°	10.0	10.0	9.5	9.1	8.6	8.2	7.3	6.3	5.0	4.1	2.7
145°	8.6	8.2	8.2	7.7	7.3	6.3	5.9	5.0	4.1	3.2	2.3
147.5°	6.8	6.8	6.8	6.3	5.9	5.4	5.0	4.1	3.2	2.3	1.4
150°	5.4	5.4	5.4	5.0	4.5	4.1	3.6	3.2	2.3	1.4	0.9
152.5°	4.5	4.5	4.1	4.1	3.6	3.2	2.7	2.3	1.4	0.9	0.9
155°	3.2	3.2	3.2	2.7	2.7	2.3	1.8	1.4	0.9	0.9	0.9
157.5°	2.3	2.3	2.3	1.8	1.8	1.4	1.4	0.9	0.9	0.9	0.9
160°	1.4	1.4	1.4	1.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-LD5-22SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	824.3	824.3	824.3	824.3	824.3	824.3	824.3
2.5°	818.8	818.4	822.0	822.0	817.9	824.3	831.1
5°	816.1	815.7	819.3	819.3	815.7	822.0	829.3
7.5°	810.7	811.1	814.7	815.7	811.1	817.0	824.7
10°	804.8	804.3	808.4	809.3	805.7	811.1	818.4
12.5°	795.2	795.2	799.3	800.7	797.1	803.4	810.2
15°	785.3	785.3	788.0	790.3	787.1	793.0	799.8
17.5°	772.6	772.1	774.8	777.6	774.4	780.7	788.0
20°	756.3	756.3	759.4	762.6	760.3	766.2	774.4
22.5°	739.0	737.2	742.7	744.9	743.6	749.5	757.6
25°	717.3	716.8	722.3	725.4	723.6	730.0	737.2
27.5°	693.7	693.2	698.7	702.8	701.9	707.7	715.9
30°	665.1	667.4	672.4	679.2	676.9	683.3	691.9
32.5°	635.2	637.5	643.4	650.6	651.1	656.1	664.7
35°	599.4	605.3	609.4	618.9	620.7	625.7	634.7
37.5°	561.8	568.6	577.2	584.4	588.0	592.1	602.6
40°	519.6	529.6	539.1	547.7	552.2	556.3	566.3
42.5°	481.5	489.2	498.3	506.9	515.1	518.7	529.1
45°	438.4	447.5	455.7	466.1	474.2	478.3	488.8
47.5°	396.3	405.3	416.2	423.5	432.1	436.2	446.1
50°	355.9	364.1	373.1	381.8	389.0	392.6	401.3
52.5°	316.0	324.6	333.2	338.7	346.4	349.1	356.4
55°	280.6	286.5	294.3	297.4	305.1	306.9	311.9
57.5°	246.6	250.7	253.4	258.9	264.3	268.4	274.3
60°	215.8	217.6	219.4	222.6	227.1	228.5	230.8
62.5°	188.2	187.7	191.3	192.2	192.7	197.2	195.0
65°	163.7	164.1	161.0	159.6	161.4	162.8	161.9
67.5°	143.3	140.6	137.8	134.7	131.9	133.3	131.9
70°	123.3	121.1	116.5	112.0	110.2	107.5	106.1
72.5°	107.5	102.0	97.5	91.6	88.4	85.2	83.0
75°	95.2	87.5	81.2	74.8	70.3	65.7	64.8
77.5°	82.5	75.3	68.0	61.2	54.4	49.4	47.6
80°	72.5	65.7	57.1	49.0	41.7	35.4	33.1
82.5°	63.5	56.2	47.6	39.0	30.8	24.0	21.3
85°	55.8	48.1	39.4	30.8	22.7	15.4	11.8
87.5°	49.9	41.3	32.6	24.5	15.9	8.6	4.5
90°	44.4	36.3	28.1	19.5	11.3	4.5	0.0
92.5°	39.4	31.7	23.6	15.9	8.6	2.7	0.5
95°	34.9	28.1	19.9	12.7	6.3	1.8	0.5
97.5°	31.3	24.5	17.2	10.4	5.0	1.4	0.5
100°	28.1	21.3	15.0	8.6	4.1	0.9	0.5
102.5°	24.9	19.0	12.7	7.3	3.2	0.5	0.5
105°	22.2	16.8	10.9	6.3	2.7	0.5	0.5
107.5°	19.9	15.0	9.5	5.4	1.8	0.5	0.5
110°	17.7	12.7	8.2	4.5	1.4	0.5	0.5



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-22SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	15.9	11.3	7.3	3.6	0.9	0.5	0.5
115°	14.1	10.0	6.3	3.2	0.9	0.5	0.5
117.5°	12.2	8.6	5.4	2.3	0.5	0.5	0.5
120°	10.9	7.7	4.5	1.8	0.5	0.5	0.5
122.5°	9.5	6.3	3.6	1.4	0.5	0.5	0.5
125°	8.2	5.4	3.2	0.9	0.5	0.5	0.5
127.5°	6.8	4.5	2.3	0.9	0.5	0.5	0.5
130°	5.9	3.6	1.8	0.5	0.5	0.5	0.5
132.5°	5.0	2.7	1.4	0.5	0.5	0.5	0.5
135°	4.1	2.3	0.9	0.5	0.5	0.5	0.5
137.5°	3.2	1.8	0.9	0.5	0.5	0.5	0.5
140°	2.3	1.4	0.5	0.5	0.5	0.5	0.5
142.5°	1.8	0.9	0.5	0.5	0.5	0.5	0.5
145°	1.4	0.9	0.5	0.5	0.5	0.5	0.5
147.5°	0.9	0.9	0.9	0.9	0.5	0.5	0.5
150°	0.9	0.9	0.5	0.5	0.9	0.5	0.5
152.5°	0.9	0.5	0.5	0.5	0.9	0.5	0.5
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.5
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)