

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-LD5-20SL-LW-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-20SL-LW-UNV-L935-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

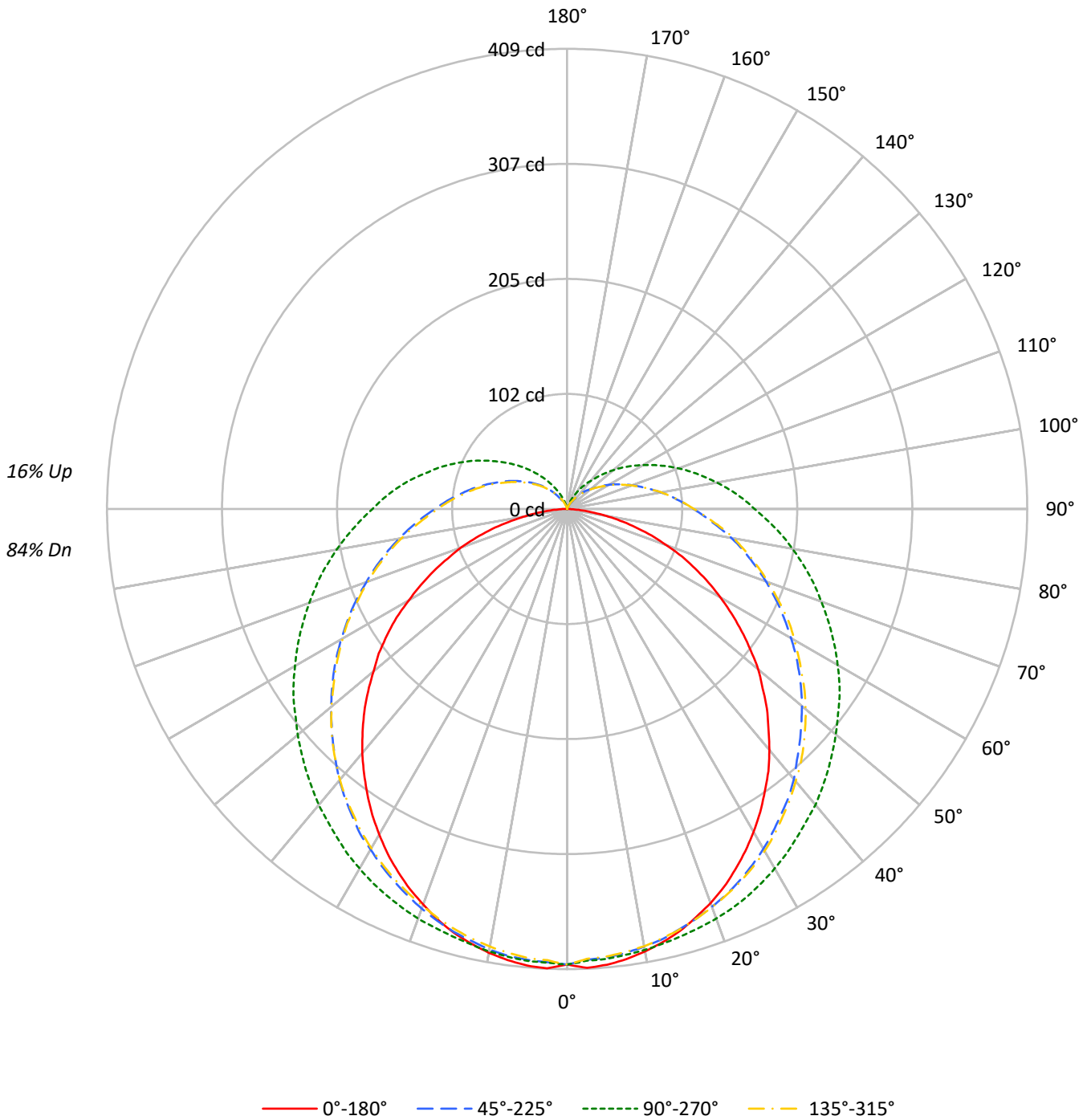
Lumens per Lamp: N/A  
Luminaire Lumens: 1759.0 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 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	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°	3272	3272	3272	3272
5°	3289	3153	3296	3167
10°	3259	3063	3269	3073
15°	3221	2987	3235	2990
20°	3170	2931	3181	2931
25°	3108	2881	3127	2877
30°	3038	2830	3061	2830
35°	2956	2783	2989	2786
40°	2875	2755	2911	2755
45°	2783	2725	2826	2729
50°	2687	2708	2722	2715
55°	2552	2710	2633	2722
60°	2410	2719	2488	2736
65°	2251	2746	2349	2773
70°	2026	2796	2185	2837
75°	1767	2888	1935	2944
80°	1368	3024	1554	3094
85°	820	3240	1018	3330



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.4	2.2
10°-20°	110.2	6.3
20°-30°	169.0	9.6
30°-40°	208.5	11.9
40°-50°	226.2	12.9
50°-60°	223.0	12.7
60°-70°	201.6	11.5
70°-80°	167.9	9.5
80°-90°	130.1	7.4
90°-100°	98.6	5.6
100°-110°	73.0	4.2
110°-120°	50.8	2.9
120°-130°	32.4	1.8
130°-140°	18.2	1.0
140°-150°	8.3	0.5
150°-160°	2.6	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	317.6	18.1
0°-40°	526.1	29.9
0°-60°	975.2	55.4
0°-90°	1474.8	83.8
90°-120°	222.4	12.6
90°-150°	281.3	16.0
90°-180°	284.0	16.1
0°-180°	1759.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	405	405	405	405	405	
5°	407	402	407	403	407	39
15°	388	393	390	393	388	109
25°	354	380	356	379	354	163
35°	306	356	310	357	306	192
45°	251	328	255	328	251	193
55°	189	296	195	297	189	169
65°	126	259	131	262	126	124
75°	63	222	69	226	63	67
85°	12	185	15	190	12	14
90°	0	167	1	173	0	1
95°	0	151	0	158	0	0
105°	0	120	0	127	0	0
115°	0	91	0	100	0	0
125°	0	66	0	73	0	0
135°	0	43	0	50	0	0
145°	0	25	0	30	0	0
155°	0	10	0	14	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: 4SNLED-LD5-20SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9
2.5°	408.3	408.3	407.9	407.0	407.4	408.7	407.9	405.7	404.4	401.0	401.9
5°	406.6	406.6	406.2	405.3	405.7	407.4	406.6	404.9	403.2	400.2	401.5
7.5°	403.6	403.6	403.2	402.3	403.2	404.9	404.0	402.3	401.0	398.0	399.3
10°	399.3	399.7	399.3	398.0	399.7	401.5	401.0	398.9	397.6	395.0	396.3
12.5°	394.2	394.6	394.2	393.8	394.6	397.2	396.3	394.6	393.8	391.6	392.9
15°	388.2	388.6	387.8	387.8	388.6	391.2	391.2	389.5	388.6	386.5	389.1
17.5°	380.5	381.0	380.5	380.5	381.4	383.9	384.4	383.5	382.7	381.8	384.4
20°	372.8	372.4	372.4	372.0	373.7	377.5	377.1	377.1	376.3	376.3	379.2
22.5°	363.9	363.9	363.4	363.4	365.6	369.0	369.0	369.8	369.0	370.7	373.3
25°	353.6	354.0	353.6	354.5	356.2	360.0	360.5	361.7	362.2	363.9	366.9
27.5°	342.9	343.4	342.9	343.8	346.8	349.8	351.9	353.6	354.0	356.6	360.5
30°	331.4	331.4	331.8	332.7	336.1	340.8	342.5	344.7	344.7	348.9	352.8
32.5°	319.5	319.5	319.5	321.2	325.0	330.6	332.7	335.3	336.1	340.4	344.7
35°	306.2	306.6	306.6	307.9	313.0	318.6	321.6	324.6	326.3	331.4	335.7
37.5°	293.8	294.7	293.4	295.1	302.4	307.1	310.5	313.5	316.5	323.3	326.7
40°	279.7	280.6	280.2	283.6	289.6	295.5	299.4	302.4	306.6	313.5	317.3
42.5°	264.8	265.6	266.5	270.3	276.7	282.7	287.4	291.3	296.4	302.4	308.8
45°	251.1	251.1	252.4	257.1	263.9	270.3	275.9	280.2	286.1	292.5	299.0
47.5°	235.7	236.2	237.9	243.4	250.7	258.4	263.5	269.1	275.5	282.3	289.6
50°	221.7	221.7	224.2	230.2	237.0	245.6	251.1	257.5	264.4	272.5	279.7
52.5°	205.4	206.3	210.1	215.7	224.6	232.3	238.7	245.6	253.7	262.2	270.3
55°	189.2	190.9	193.9	201.6	211.0	218.2	225.9	234.5	242.2	251.5	260.9
57.5°	173.4	174.7	179.4	187.1	196.9	205.9	214.0	222.1	231.5	240.9	250.7
60°	157.2	158.9	164.4	172.1	182.8	192.2	201.6	210.1	219.9	229.8	240.0
62.5°	141.8	143.1	149.5	158.4	169.1	179.4	188.8	199.0	209.7	219.1	229.3
65°	125.6	127.7	135.0	143.1	155.5	165.7	176.4	187.5	198.6	208.8	218.7
67.5°	110.6	111.9	119.6	129.0	141.4	152.9	164.0	176.0	187.5	198.2	208.0
70°	93.1	97.4	105.1	114.9	128.1	140.1	152.0	164.4	176.8	187.9	197.3
72.5°	78.6	82.0	90.5	101.2	114.0	128.1	140.5	153.7	166.1	177.7	187.5
75°	63.2	66.6	76.4	88.4	101.6	116.6	129.4	143.1	155.9	167.4	177.7
77.5°	48.3	52.5	63.2	75.6	90.1	105.5	118.7	132.4	145.6	158.0	168.3
80°	34.6	39.3	50.8	64.9	79.0	94.4	108.9	122.6	135.8	148.2	158.9
82.5°	22.2	27.3	39.7	53.8	68.8	84.1	99.1	112.7	126.0	138.4	149.5
85°	12.0	17.5	30.3	44.4	59.4	74.7	89.7	104.2	117.0	128.6	140.5
87.5°	3.4	10.2	22.6	36.7	52.1	66.2	80.7	95.2	108.1	120.4	131.1
90°	0.4	6.0	17.1	30.3	45.3	58.9	73.5	87.1	99.9	112.3	123.0
92.5°	0.4	3.8	13.2	25.2	38.9	53.0	67.5	80.7	92.7	105.1	115.7
95°	0.4	3.0	10.7	21.4	34.2	47.4	61.1	73.9	86.3	97.8	108.5
97.5°	0.4	2.1	8.5	18.4	29.9	42.3	55.5	68.3	80.3	91.4	101.2
100°	0.4	1.7	6.8	15.8	26.1	38.0	50.0	62.4	73.9	84.6	94.8
102.5°	0.4	1.3	6.0	13.2	23.1	33.7	45.3	56.8	67.9	78.2	88.4
105°	0.4	1.3	5.1	11.5	20.5	30.3	41.0	52.1	62.4	72.2	81.6
107.5°	0.4	0.9	4.3	9.8	17.9	27.3	37.2	47.8	57.2	66.6	75.6
110°	0.4	0.9	3.4	9.0	15.8	24.3	33.7	43.6	52.5	61.5	70.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.4	0.9	3.0	7.7	13.7	21.8	30.3	39.3	47.8	56.8	64.5
115°	0.4	0.9	2.6	6.8	12.8	18.8	27.3	35.4	44.0	52.1	59.4
117.5°	0.4	0.9	2.1	5.6	11.1	17.1	23.9	32.0	39.7	47.4	54.2
120°	0.4	0.9	1.7	5.1	9.8	15.4	21.4	28.6	35.9	43.1	50.4
122.5°	0.4	0.4	1.7	4.3	8.5	13.7	19.6	25.2	32.0	38.9	45.3
125°	0.4	0.4	1.7	3.8	7.3	12.4	17.5	22.6	28.6	34.6	40.1
127.5°	0.4	0.4	1.3	3.0	6.4	10.7	15.4	20.9	25.2	30.7	36.3
130°	0.4	0.4	1.3	2.6	5.6	9.0	13.7	18.4	23.5	27.3	32.0
132.5°	0.4	0.4	1.3	2.1	4.3	7.3	11.5	15.8	20.5	24.8	28.6
135°	0.4	0.4	0.9	1.7	3.4	6.0	9.4	13.2	17.9	22.2	26.1
137.5°	0.4	0.4	0.9	1.7	2.6	5.1	7.3	10.7	14.9	18.8	22.6
140°	0.4	0.4	0.9	1.3	2.1	3.8	6.0	8.5	12.0	15.4	19.6
142.5°	0.4	0.4	0.4	1.3	1.7	3.0	4.7	6.8	9.4	12.4	15.8
145°	0.4	0.4	0.4	1.3	1.7	2.1	3.8	5.6	7.3	9.4	12.4
147.5°	0.4	0.4	0.4	0.9	1.3	1.7	3.0	4.3	5.6	7.3	9.0
150°	0.4	0.4	0.4	0.9	1.3	1.7	2.1	3.0	4.3	6.0	7.3
152.5°	0.4	0.4	0.4	0.9	0.9	1.3	1.7	2.1	3.0	4.3	5.1
155°	0.4	0.4	0.4	0.4	0.9	1.3	1.7	1.7	2.1	3.0	3.8
157.5°	0.4	0.4	0.4	0.4	0.9	0.9	1.3	1.3	1.7	1.7	2.6
160°	0.4	0.4	0.4	0.4	0.4	0.9	0.9	1.3	1.3	1.3	1.3
162.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9	1.3	1.3
165°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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°	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9
2.5°	401.9	402.3	403.6	403.6	402.7	402.7	402.3	401.9	402.3	403.2	403.2
5°	401.0	401.5	402.7	403.2	402.3	401.9	401.9	401.5	401.9	402.7	402.7
7.5°	399.3	399.7	401.0	401.5	400.6	400.6	400.2	399.7	400.6	401.0	401.0
10°	396.8	397.2	398.9	399.3	398.9	398.5	398.5	398.0	398.5	399.3	399.3
12.5°	393.3	394.2	396.3	396.3	396.3	395.9	395.9	395.5	395.9	396.8	396.3
15°	389.5	391.2	392.9	393.8	393.8	393.8	393.3	392.9	393.8	394.2	393.8
17.5°	385.2	387.4	389.9	390.8	390.8	391.2	390.8	390.3	391.2	391.2	390.8
20°	381.0	383.1	385.7	386.5	387.4	387.8	387.8	387.4	387.8	388.2	387.8
22.5°	375.4	378.0	381.0	382.2	383.1	383.9	383.9	383.9	384.4	384.8	383.9
25°	369.4	372.4	375.8	377.1	378.8	379.2	379.7	379.7	380.1	380.5	379.2
27.5°	363.0	366.4	369.8	372.0	373.3	374.1	374.1	374.5	375.0	375.4	374.1
30°	355.3	360.5	363.4	365.2	366.9	368.1	368.6	369.0	369.4	369.8	368.6
32.5°	348.5	352.8	356.6	358.7	360.9	362.6	363.0	363.0	363.9	363.9	362.6
35°	340.4	345.5	349.4	351.5	354.0	355.3	356.2	356.2	357.0	357.0	355.8
37.5°	332.3	337.4	341.7	344.2	347.2	348.9	349.4	349.4	350.2	350.2	348.5
40°	323.7	329.3	334.0	337.0	339.5	341.7	342.1	343.4	343.4	342.9	341.2
42.5°	315.2	320.3	325.4	328.9	332.3	334.4	335.3	335.7	335.7	335.3	334.0
45°	305.8	311.8	316.5	320.7	324.2	326.3	327.6	328.0	328.0	327.1	325.9
47.5°	296.8	302.8	307.5	312.2	315.6	318.2	319.5	319.9	319.5	319.0	317.7
50°	287.4	294.3	299.0	303.7	307.1	309.2	311.3	311.8	311.3	310.9	308.4
52.5°	277.6	284.9	290.0	294.7	298.5	301.1	302.8	303.2	303.2	302.4	300.7
55°	267.8	274.2	280.6	285.7	290.0	292.5	294.7	295.5	294.7	293.8	291.7
57.5°	258.8	264.8	271.2	276.7	281.0	284.4	286.1	287.0	286.1	284.9	282.7
60°	248.1	254.5	261.8	266.9	271.6	275.0	275.9	277.6	276.7	275.5	273.3
62.5°	237.9	245.6	252.0	258.4	262.2	266.1	267.8	268.6	267.8	266.5	264.4
65°	227.2	235.7	242.2	248.6	252.8	256.7	258.8	259.2	258.4	257.1	255.0
67.5°	217.4	225.5	232.3	239.2	243.0	246.9	249.0	249.8	249.0	247.3	245.1
70°	207.6	215.7	223.8	228.9	233.6	237.9	239.2	240.4	239.6	237.9	235.3
72.5°	197.7	206.3	214.4	219.5	224.6	228.5	230.2	231.5	230.6	228.9	225.9
75°	187.5	196.5	204.6	210.1	215.2	219.1	220.8	222.1	221.2	219.5	216.1
77.5°	178.1	187.1	194.7	200.7	205.9	209.3	212.3	212.7	211.8	210.1	206.7
80°	168.3	177.2	185.4	191.3	196.5	199.9	202.0	203.3	202.4	200.7	197.3
82.5°	159.7	167.8	176.0	181.9	187.1	191.3	193.0	194.3	193.9	191.3	188.8
85°	150.3	159.7	166.1	172.5	177.7	181.9	183.2	184.9	184.5	182.4	178.9
87.5°	140.9	150.3	158.0	164.4	169.1	172.5	174.7	175.5	175.1	173.0	169.1
90°	133.2	141.8	149.5	156.3	160.2	164.0	166.1	166.6	166.6	164.0	161.0
92.5°	126.0	134.1	141.8	148.2	152.9	156.3	158.0	158.9	158.4	156.3	152.9
95°	117.9	126.8	134.1	140.5	145.2	148.6	150.3	151.2	150.8	148.6	145.2
97.5°	111.0	119.2	126.4	132.4	137.1	140.5	142.2	143.1	143.1	140.9	137.5
100°	104.2	112.3	119.2	125.1	129.4	132.8	134.5	135.0	134.5	132.8	129.4
102.5°	97.4	105.1	111.9	117.4	122.1	125.1	126.8	127.3	127.3	125.1	121.7
105°	90.5	98.2	104.6	110.6	114.5	117.4	118.7	120.0	119.6	117.9	114.5
107.5°	84.1	91.8	97.8	103.4	107.2	110.2	111.5	112.7	112.3	110.6	107.2
110°	78.2	85.4	91.0	96.5	99.9	102.9	105.1	105.5	104.6	102.9	99.9





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-20SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	72.6	79.0	84.6	89.7	93.5	95.7	97.4	98.2	97.4	95.7	93.5
115°	66.6	73.0	78.6	83.3	86.7	89.3	90.5	91.4	90.5	88.8	86.7
117.5°	61.1	67.1	72.6	77.3	80.3	82.4	83.7	84.6	83.7	82.4	80.3
120°	56.4	61.5	66.6	70.9	74.3	76.0	77.3	78.2	77.7	76.0	73.9
122.5°	50.8	56.4	61.1	65.3	68.3	70.0	70.9	71.7	71.3	70.0	67.9
125°	46.1	50.8	55.5	59.4	62.4	64.1	64.9	65.8	65.3	64.1	61.5
127.5°	41.0	46.1	50.0	53.8	55.9	58.5	58.9	59.8	59.4	58.1	55.9
130°	37.2	41.0	44.8	48.3	50.8	52.5	53.4	53.8	53.0	52.1	50.0
132.5°	32.5	36.7	40.1	43.1	44.8	46.6	47.4	47.8	47.8	46.6	44.8
135°	29.0	32.0	35.0	38.0	39.7	41.4	42.3	42.7	42.3	41.4	39.7
137.5°	26.1	28.6	30.7	33.3	35.4	36.3	37.2	37.2	36.7	36.3	35.0
140°	22.6	25.6	27.8	29.5	31.2	31.6	32.5	32.5	32.0	31.6	30.7
142.5°	19.2	21.8	23.9	26.1	27.3	28.2	28.6	29.0	28.6	28.2	26.9
145°	15.4	18.4	20.5	21.8	23.5	23.9	24.3	24.8	24.3	23.9	22.6
147.5°	12.0	14.5	16.7	18.4	19.6	20.1	20.5	20.9	20.5	19.6	19.2
150°	8.5	10.7	13.2	14.9	15.8	16.7	16.7	16.7	17.1	16.2	15.4
152.5°	6.8	7.7	9.4	11.1	12.4	12.8	13.2	13.2	12.8	12.8	12.0
155°	4.7	5.6	6.8	8.1	9.4	9.8	10.2	10.2	9.8	9.8	9.4
157.5°	3.0	3.8	4.7	5.6	6.8	7.3	7.7	7.7	7.7	7.3	6.8
160°	1.7	2.1	2.6	3.4	4.3	4.7	5.1	5.1	5.1	5.1	4.7
162.5°	1.3	1.3	1.3	1.7	2.1	2.6	3.0	3.0	3.0	3.0	2.6
165°	0.9	0.9	0.9	0.9	0.9	1.3	1.7	1.7	1.7	1.7	1.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-20SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9
2.5°	402.7	402.7	403.2	402.3	399.7	400.2	400.2	401.9	402.7	403.2	405.3
5°	401.9	401.9	402.7	401.5	399.3	399.3	399.3	401.0	401.5	402.3	404.0
7.5°	400.6	400.6	401.0	399.7	397.2	397.2	396.8	398.5	399.3	399.7	401.5
10°	398.5	398.5	398.9	397.6	394.6	394.6	394.2	395.5	395.9	396.8	398.0
12.5°	395.5	395.5	395.5	394.2	391.2	390.8	390.3	391.6	391.6	392.1	393.3
15°	392.9	392.1	392.1	390.8	387.8	386.9	386.1	386.5	387.4	386.9	387.8
17.5°	389.9	389.1	388.2	386.9	383.1	381.8	381.0	381.4	381.0	380.5	381.4
20°	386.5	385.2	384.8	382.7	378.8	376.7	375.0	374.1	374.5	373.3	373.7
22.5°	382.7	381.0	380.1	377.5	373.7	371.1	369.0	367.3	366.9	365.2	365.6
25°	378.0	375.8	374.5	372.4	368.1	365.2	362.6	360.0	358.7	356.6	356.2
27.5°	372.4	370.3	368.6	366.4	362.2	358.3	355.3	351.9	350.2	347.6	346.4
30°	366.9	364.3	361.7	360.0	355.3	351.1	346.4	343.4	340.8	337.8	335.7
32.5°	360.0	357.5	354.9	352.3	348.1	342.9	339.1	334.4	331.4	328.0	325.4
35°	353.2	349.8	347.2	343.8	340.0	334.0	329.3	324.6	320.7	316.9	313.9
37.5°	345.5	342.9	339.1	336.1	331.4	325.4	320.3	314.3	310.9	305.8	301.9
40°	338.2	335.3	331.4	327.6	322.9	316.0	310.5	303.7	299.8	293.8	290.0
42.5°	331.0	326.7	322.9	318.6	313.5	307.1	300.2	293.4	288.3	282.7	277.2
45°	322.9	318.2	313.5	308.8	303.7	297.2	290.0	282.7	276.3	271.2	264.4
47.5°	314.3	309.6	304.1	299.0	293.4	287.0	279.3	271.6	264.8	258.8	251.5
50°	305.8	301.1	295.1	289.6	283.2	276.7	268.6	259.7	252.4	244.7	238.3
52.5°	296.8	292.1	286.6	279.3	272.5	266.1	257.5	248.1	240.0	233.6	225.5
55°	287.9	283.2	276.7	269.5	262.7	254.5	246.4	237.0	228.1	220.4	212.3
57.5°	278.5	274.2	266.9	260.9	252.4	243.9	235.3	226.4	216.5	207.6	198.2
60°	269.1	264.4	257.5	250.3	241.7	233.2	224.2	214.4	204.1	194.3	185.8
62.5°	260.5	254.5	248.1	240.4	231.5	223.4	213.1	202.4	192.2	181.9	171.7
65°	250.7	244.3	238.3	230.6	221.2	211.8	201.6	190.9	179.8	168.7	158.4
67.5°	240.9	234.5	228.1	220.4	210.5	200.7	190.0	179.4	167.0	156.3	144.4
70°	231.0	225.9	217.8	209.7	200.7	190.0	179.4	167.8	155.0	143.5	131.1
72.5°	221.2	216.1	208.0	199.4	190.9	179.8	168.3	156.7	144.8	131.5	118.3
75°	211.8	205.4	198.2	190.0	181.1	169.6	158.0	146.1	132.0	119.6	105.9
77.5°	202.9	196.9	189.6	180.7	170.8	159.7	147.8	135.4	121.3	108.1	93.1
80°	193.0	187.1	179.8	170.8	161.0	150.3	137.5	124.7	111.0	96.5	81.1
82.5°	183.6	178.1	170.0	161.9	151.2	140.5	127.7	114.9	100.4	86.3	71.3
85°	173.8	168.3	160.6	152.0	141.8	130.3	118.3	105.5	91.0	76.4	61.5
87.5°	165.3	158.9	151.2	142.6	132.4	121.3	109.8	96.1	82.0	67.9	52.5
90°	156.3	150.3	142.6	134.1	123.9	112.7	100.8	88.0	74.3	59.8	45.3
92.5°	148.6	142.2	135.0	126.4	116.2	105.5	93.5	80.7	67.5	53.4	39.3
95°	140.9	134.5	127.7	119.2	108.9	98.2	86.3	73.9	61.1	47.4	34.2
97.5°	132.4	126.8	120.0	111.9	101.6	91.4	79.9	67.9	55.5	42.3	29.9
100°	125.6	119.2	112.7	104.2	94.8	85.0	73.5	61.9	50.0	37.6	26.1
102.5°	117.9	111.9	105.5	97.4	88.0	78.2	67.5	56.4	45.3	33.7	22.6
105°	110.6	105.1	98.2	90.5	81.6	72.2	61.9	51.7	41.0	29.9	20.1
107.5°	103.4	97.8	91.4	84.1	75.6	66.2	56.8	46.6	36.7	26.9	17.9
110°	96.1	91.0	85.0	77.7	69.6	61.1	52.1	42.7	32.9	23.9	15.8



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-20SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	89.7	84.6	78.6	71.7	64.1	55.9	47.4	38.4	29.5	21.4	13.7
115°	83.3	78.6	72.6	66.6	58.9	51.2	43.1	34.6	26.5	19.2	12.0
117.5°	76.9	72.2	66.6	60.6	53.8	46.6	38.9	30.7	23.9	17.1	10.7
120°	70.5	66.2	61.1	55.5	49.5	42.3	34.6	27.8	21.4	14.9	9.4
122.5°	64.5	60.6	55.9	50.8	44.4	37.6	31.2	25.2	19.2	13.2	7.7
125°	58.9	55.1	50.8	45.7	39.7	33.7	28.2	22.6	16.7	11.5	6.4
127.5°	53.4	49.5	45.3	40.6	35.9	30.3	25.2	20.1	14.9	10.2	5.6
130°	47.8	44.4	40.6	36.7	32.0	26.9	22.6	17.5	12.8	8.1	4.7
132.5°	42.3	39.7	36.3	32.5	28.2	24.3	19.6	15.4	11.1	7.3	4.3
135°	37.6	35.0	32.0	28.6	25.2	21.4	17.1	13.2	9.4	6.0	3.4
137.5°	33.3	31.2	28.2	25.2	22.2	18.4	14.9	11.1	7.7	5.1	2.6
140°	29.5	27.3	24.8	21.8	19.2	15.8	12.4	9.0	6.8	4.3	2.1
142.5°	25.6	23.5	21.4	18.8	16.2	13.2	10.2	7.7	5.6	3.4	2.1
145°	21.8	20.1	17.9	15.8	13.2	10.7	8.5	6.4	4.3	2.6	1.7
147.5°	17.9	16.7	14.5	12.8	10.7	8.5	6.8	5.1	3.4	2.1	1.3
150°	14.5	13.2	11.5	9.8	8.5	6.8	5.6	3.8	2.6	2.1	1.3
152.5°	11.1	10.2	9.0	8.1	6.8	5.1	3.8	3.0	2.1	1.7	0.9
155°	9.0	8.1	7.3	6.0	5.1	3.8	3.0	2.1	1.7	1.3	0.9
157.5°	6.4	6.0	5.1	4.3	3.4	2.6	2.1	2.1	1.3	0.9	0.4
160°	4.3	3.8	3.4	2.6	2.1	2.1	1.7	1.3	0.9	0.9	0.4
162.5°	2.6	2.1	2.1	2.1	1.7	1.7	1.3	0.9	0.9	0.4	0.4
165°	1.7	1.7	1.7	1.3	1.3	1.3	0.9	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: 4SNLED-LD5-20SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9
2.5°	405.3	404.0	405.7	408.7	409.1	408.7	407.9	409.1	410.8	410.4	407.4
5°	404.4	402.7	404.4	407.4	407.4	407.0	406.6	407.9	409.6	409.1	406.6
7.5°	401.9	400.2	401.9	404.4	404.9	404.0	404.0	405.3	407.0	406.6	404.4
10°	398.5	396.8	397.6	400.6	401.5	400.6	400.6	401.9	404.0	403.6	401.0
12.5°	393.3	392.1	392.9	395.5	396.3	395.9	395.5	397.2	399.3	399.3	396.8
15°	387.8	386.1	386.9	389.9	390.3	389.5	389.9	391.2	393.8	393.8	391.6
17.5°	381.4	379.2	380.5	382.7	383.1	383.1	383.1	384.8	387.8	387.4	385.7
20°	374.1	371.1	372.0	374.1	375.0	375.0	375.0	378.0	380.1	380.1	378.4
22.5°	365.6	363.4	363.4	365.6	366.9	366.4	366.4	369.0	372.0	371.6	371.6
25°	355.8	354.0	353.2	355.8	356.2	356.6	357.5	360.0	363.4	363.4	363.9
27.5°	345.5	343.8	343.4	345.5	345.9	346.4	347.2	350.2	353.6	354.0	354.9
30°	335.7	333.1	332.3	334.0	334.8	335.3	335.3	340.0	342.9	344.2	345.9
32.5°	324.2	321.6	319.5	322.4	322.9	323.7	324.2	328.9	332.3	334.4	337.0
35°	312.6	308.4	307.5	309.6	310.5	310.9	311.8	316.9	321.6	323.3	326.7
37.5°	299.8	296.8	294.3	296.4	297.2	297.7	300.2	304.9	309.6	312.2	315.6
40°	287.9	284.0	281.9	283.2	284.0	284.4	287.4	292.5	298.1	301.1	305.4
42.5°	274.6	269.5	267.8	269.1	269.5	270.8	273.3	280.2	285.7	290.0	293.4
45°	261.4	257.5	253.7	255.0	255.4	256.2	260.1	267.4	273.3	278.5	282.3
47.5°	247.7	243.0	239.2	240.0	241.7	242.2	246.4	255.0	260.5	266.1	271.2
50°	234.0	227.6	224.6	224.6	225.5	227.6	233.2	241.7	247.7	254.1	259.7
52.5°	219.9	214.0	210.5	211.0	211.8	214.4	219.5	228.1	234.9	241.7	248.6
55°	205.9	199.4	196.0	195.2	196.0	199.4	205.4	214.4	221.2	229.3	236.6
57.5°	191.8	184.1	181.1	179.8	180.7	184.9	190.9	200.3	208.8	216.5	225.1
60°	176.4	170.4	165.3	162.3	164.4	170.0	176.4	186.2	195.2	203.7	213.1
62.5°	163.1	155.5	149.9	146.9	149.1	153.7	162.7	172.1	181.9	191.8	201.2
65°	148.2	140.5	134.1	131.1	133.2	138.8	147.8	158.0	168.7	178.5	189.6
67.5°	133.7	125.6	117.9	114.9	117.4	123.4	133.2	144.8	156.3	166.6	178.5
70°	119.6	110.6	102.5	100.4	102.1	110.2	119.6	131.1	143.1	155.0	167.4
72.5°	106.8	95.7	87.1	84.6	86.7	95.7	106.3	118.3	131.1	143.9	157.2
75°	91.8	81.6	72.2	69.2	71.7	79.9	93.1	105.9	119.6	133.2	145.6
77.5°	79.9	67.9	58.1	53.4	57.7	67.9	80.7	94.4	108.5	122.6	136.7
80°	67.5	55.1	44.4	39.3	44.0	55.1	67.9	82.9	98.7	112.7	125.6
82.5°	56.4	43.1	32.0	26.5	31.6	44.0	58.1	73.0	88.4	102.5	117.4
85°	46.1	32.5	20.9	14.9	22.2	33.3	48.3	63.6	79.4	94.0	108.5
87.5°	37.6	24.3	12.8	6.4	13.7	26.1	40.1	55.5	71.3	85.8	99.5
90°	30.7	17.5	6.8	0.9	8.1	19.6	33.3	48.3	63.2	78.2	91.8
92.5°	25.2	13.2	3.8	0.4	5.1	15.8	28.6	42.7	57.2	71.7	85.0
95°	20.9	10.2	2.6	0.4	3.8	12.4	24.3	38.0	51.7	65.8	79.0
97.5°	17.9	8.5	2.1	0.4	3.0	10.7	20.9	33.7	47.0	60.2	73.0
100°	15.4	6.8	1.7	0.4	2.6	9.0	18.4	29.9	42.3	55.1	67.5
102.5°	13.2	5.6	1.3	0.4	2.1	7.7	16.2	26.9	38.0	50.4	62.4
105°	11.5	4.7	1.3	0.4	1.7	6.8	14.5	23.9	35.0	46.1	57.7
107.5°	9.8	3.8	0.9	0.4	1.3	5.6	12.8	21.8	31.6	42.3	53.0
110°	8.5	3.4	0.9	0.4	1.3	5.1	11.1	19.6	28.6	38.4	48.7



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-20SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	7.3	2.6	0.9	0.4	0.9	4.3	9.8	17.5	26.1	35.0	44.8
115°	6.4	2.1	0.4	0.4	0.9	3.8	9.0	15.8	23.5	32.0	41.0
117.5°	5.1	1.7	0.4	0.4	0.4	3.0	7.7	14.1	21.4	29.5	37.6
120°	4.3	1.7	0.4	0.4	0.4	2.6	6.8	12.4	19.2	26.5	34.2
122.5°	3.8	1.3	0.4	0.4	0.4	2.1	6.0	11.1	17.1	23.9	31.2
125°	3.4	1.3	0.4	0.4	0.4	1.7	5.1	9.8	15.4	21.4	28.2
127.5°	2.6	1.3	0.4	0.4	0.4	1.3	4.7	8.5	13.7	19.2	25.2
130°	2.1	0.9	0.4	0.4	0.4	1.3	3.8	7.7	12.0	17.1	22.6
132.5°	1.7	0.9	0.4	0.4	0.4	0.9	3.0	6.0	10.2	14.9	20.1
135°	1.7	0.9	0.4	0.4	0.4	0.9	2.1	5.1	8.5	12.8	17.1
137.5°	1.7	0.4	0.4	0.4	0.4	0.9	1.7	3.8	6.8	10.2	14.1
140°	1.3	0.4	0.4	0.4	0.4	0.4	1.3	3.0	5.6	8.5	12.0
142.5°	1.3	0.4	0.4	0.4	0.4	0.4	1.3	2.1	4.3	6.8	9.4
145°	0.9	0.4	0.4	0.4	0.4	0.4	0.9	1.7	3.4	5.1	7.7
147.5°	0.9	0.4	0.4	0.4	0.4	0.4	0.9	1.3	2.6	4.3	6.0
150°	0.9	0.4	0.4	0.4	0.4	0.4	0.9	1.3	1.7	3.0	4.7
152.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	1.3	2.1	3.0
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3	1.7	2.1
157.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	1.3	1.7
160°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	1.3
162.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9
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: 4SNLED-LD5-20SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9
2.5°	406.2	403.2	404.0	403.6	404.4	405.7	405.7	405.3	405.3	404.4	403.6
5°	405.3	402.3	403.6	403.2	404.0	405.3	405.3	404.9	404.9	403.6	403.2
7.5°	402.7	400.6	401.5	401.5	402.3	403.6	403.6	403.2	403.2	401.9	401.5
10°	400.2	397.6	398.9	398.9	399.7	401.5	401.5	401.0	401.0	399.7	399.3
12.5°	395.9	393.3	395.5	395.9	396.8	398.5	398.0	398.0	398.0	396.8	396.3
15°	390.8	389.1	391.2	391.6	392.9	395.0	395.0	395.0	395.0	393.8	393.3
17.5°	385.2	383.9	386.1	386.9	388.6	390.8	390.8	391.2	391.6	390.8	390.3
20°	378.8	378.0	380.1	381.8	384.4	386.5	387.4	387.8	388.6	387.8	387.4
22.5°	371.6	371.6	374.5	376.3	379.2	381.4	382.7	383.9	384.8	383.9	383.5
25°	363.4	364.7	367.7	370.7	374.1	376.3	377.5	379.2	380.1	379.7	379.2
27.5°	355.8	357.5	361.3	364.3	367.3	370.7	372.0	374.1	375.0	375.0	374.5
30°	346.8	349.4	353.6	357.0	360.9	364.3	366.0	368.1	369.4	368.6	369.0
32.5°	338.2	342.5	345.9	349.8	354.0	357.5	359.6	362.2	363.4	363.0	363.4
35°	328.9	333.1	337.8	341.7	346.8	350.2	353.2	355.3	357.0	356.6	356.6
37.5°	318.6	324.2	328.9	334.0	338.7	342.5	345.5	348.1	349.8	349.8	349.8
40°	308.8	314.8	319.5	325.4	331.4	334.8	338.2	340.8	342.5	342.9	343.4
42.5°	298.1	304.5	310.1	316.5	322.4	326.7	330.6	333.5	335.3	336.1	335.7
45°	288.3	294.3	300.7	307.9	313.5	317.7	322.4	325.9	327.6	328.0	328.4
47.5°	277.2	284.0	291.3	298.5	304.1	309.6	313.9	317.3	319.0	320.3	320.3
50°	266.5	273.8	281.9	289.6	295.5	301.1	305.4	309.2	311.3	312.2	312.6
52.5°	256.7	263.5	272.0	279.7	285.7	291.3	296.8	301.1	303.2	304.1	304.1
55°	244.7	253.3	262.7	269.9	276.3	282.7	288.3	292.5	294.7	296.0	296.8
57.5°	233.6	242.6	252.4	260.1	267.8	273.8	278.9	284.4	286.1	287.9	288.3
60°	222.9	231.9	241.3	249.8	257.5	263.9	269.9	274.6	277.6	278.5	279.3
62.5°	211.8	221.2	231.0	239.6	247.7	255.4	260.9	265.2	268.6	269.9	270.8
65°	201.2	211.0	220.8	229.8	238.3	246.0	251.5	255.8	259.2	261.4	261.8
67.5°	189.6	200.3	210.5	219.9	228.5	236.6	242.2	246.4	249.8	252.4	252.8
70°	178.9	190.0	200.3	210.5	219.1	227.2	233.2	237.5	241.3	243.0	243.9
72.5°	168.7	180.2	190.9	201.2	209.7	217.8	224.2	228.5	232.3	234.5	234.9
75°	158.9	170.4	181.9	191.8	200.7	208.8	215.2	219.9	223.4	225.5	226.4
77.5°	149.1	161.0	172.5	182.4	191.8	199.9	205.4	211.0	214.4	217.0	217.0
80°	139.2	151.6	163.6	173.4	182.8	190.0	196.5	202.0	205.4	208.0	208.0
82.5°	130.7	142.6	154.2	164.0	173.4	181.5	187.9	193.0	196.9	198.6	199.0
85°	120.9	134.1	144.8	155.5	164.4	172.1	178.5	184.1	187.5	189.2	190.0
87.5°	112.7	125.6	137.1	146.5	155.5	163.1	170.4	175.1	178.5	180.7	181.5
90°	105.1	117.4	129.0	138.4	147.8	155.0	161.9	166.6	170.4	172.1	173.0
92.5°	98.2	110.6	121.7	131.1	140.1	148.2	154.6	159.3	162.7	164.4	165.7
95°	91.8	103.8	114.5	124.7	133.2	140.5	147.3	152.0	155.9	157.2	158.4
97.5°	85.4	96.9	107.6	117.4	126.4	133.2	139.7	144.4	147.3	149.5	150.8
100°	79.9	91.0	101.2	110.6	119.2	125.6	132.4	136.7	139.7	141.4	143.1
102.5°	73.9	85.0	94.8	103.8	112.7	118.7	125.1	129.4	132.0	135.0	135.0
105°	68.8	79.0	88.8	97.4	105.1	112.3	117.9	122.1	125.1	127.3	127.3
107.5°	63.2	73.5	82.9	91.8	99.1	105.9	111.0	114.9	118.3	119.6	120.9
110°	58.9	67.9	77.3	85.8	92.7	99.1	104.2	108.5	111.5	112.7	113.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-20SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	53.8	63.2	71.7	79.9	86.7	92.7	97.8	101.2	104.2	105.9	106.3
115°	49.5	58.5	66.2	73.9	81.1	86.3	91.0	94.4	97.4	98.7	99.5
117.5°	45.7	53.8	61.5	67.9	74.7	80.3	85.0	88.0	90.5	92.2	93.1
120°	41.9	49.5	56.4	62.8	69.2	74.3	78.6	81.6	84.6	85.8	85.8
122.5°	38.0	45.3	51.7	57.7	63.6	68.3	73.0	75.6	78.2	79.4	79.4
125°	34.6	41.4	47.4	53.0	58.5	62.8	66.6	69.6	72.2	73.0	73.0
127.5°	31.2	37.6	43.1	48.3	53.0	57.2	61.1	64.1	66.2	67.1	67.1
130°	28.2	33.7	38.9	44.0	48.7	52.1	55.9	58.5	59.8	61.1	61.5
132.5°	25.2	30.3	35.0	39.3	44.0	47.4	50.4	53.0	54.2	55.5	55.9
135°	22.2	26.9	31.2	35.4	39.3	42.7	45.3	47.4	49.1	50.0	50.4
137.5°	18.8	23.9	27.8	31.2	35.4	38.0	41.0	42.3	44.0	44.8	44.8
140°	15.8	19.6	23.9	27.3	30.7	33.3	35.9	38.0	39.3	39.7	39.7
142.5°	12.8	16.2	19.6	23.9	26.9	29.0	31.6	33.3	34.2	34.6	35.0
145°	10.2	12.8	15.8	19.6	23.1	25.6	26.9	28.6	29.5	29.9	30.3
147.5°	7.7	10.2	12.8	15.4	18.8	21.4	22.6	24.3	25.2	25.6	25.6
150°	6.0	7.7	9.4	12.0	14.5	17.5	19.2	20.5	20.9	21.4	21.4
152.5°	4.3	6.0	7.3	9.0	10.7	13.2	15.8	16.7	17.1	17.5	17.5
155°	3.0	4.3	5.1	6.4	7.7	9.8	12.0	13.2	13.7	14.1	14.1
157.5°	2.1	3.0	3.4	4.7	5.6	6.4	8.1	10.2	10.7	10.7	10.7
160°	1.3	1.7	2.1	3.0	3.4	4.3	5.1	6.4	7.7	7.7	7.7
162.5°	0.9	1.3	1.3	1.7	1.7	2.6	3.0	3.4	4.7	5.1	5.1
165°	0.4	0.9	0.9	0.9	0.9	0.9	1.3	1.3	2.1	2.6	2.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-20SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9	404.9
2.5°	404.0	404.9	404.4	404.4	404.4	405.3	404.4	400.6	401.5	402.3	403.2
5°	403.6	404.0	404.0	403.6	403.6	404.4	403.6	399.7	400.6	401.5	401.9
7.5°	401.9	402.3	402.3	402.3	401.9	402.7	401.5	398.0	398.0	398.9	399.3
10°	399.7	400.6	400.2	399.7	399.7	399.7	398.9	395.0	395.0	395.5	395.9
12.5°	397.2	397.2	397.2	396.8	396.3	396.3	395.5	391.6	391.2	392.1	391.6
15°	393.8	394.6	393.8	393.3	392.5	392.5	391.2	387.4	386.5	386.9	386.5
17.5°	390.8	391.2	390.3	389.5	388.6	388.2	386.9	382.7	381.4	381.8	381.0
20°	387.8	387.8	386.9	386.1	384.8	383.5	381.8	377.5	375.4	375.4	373.7
22.5°	383.9	383.9	383.1	381.8	380.5	378.8	377.1	372.8	369.4	368.6	367.3
25°	379.7	379.2	378.8	377.5	375.0	373.3	371.6	366.9	363.0	361.3	359.2
27.5°	374.5	374.5	373.3	372.0	369.4	367.3	365.2	360.9	355.8	353.6	350.6
30°	369.0	369.0	367.7	366.0	363.4	360.9	358.3	353.2	348.1	345.1	341.7
32.5°	363.4	363.0	361.7	360.0	357.5	353.6	351.5	346.4	340.4	337.0	332.3
35°	356.6	356.2	354.9	352.8	349.4	346.4	342.9	338.2	331.4	327.1	322.0
37.5°	349.8	349.4	348.5	345.5	342.1	338.7	334.4	329.7	323.3	317.7	312.6
40°	342.9	342.5	340.8	338.7	334.4	330.1	325.9	321.2	314.3	307.9	302.4
42.5°	335.7	335.3	333.1	330.6	325.9	321.6	316.5	311.3	304.5	296.8	291.3
45°	328.4	327.6	325.4	322.4	317.3	312.6	307.5	301.5	294.7	287.4	280.2
47.5°	320.7	319.5	317.3	313.0	308.8	303.7	297.7	291.3	284.4	276.3	268.6
50°	312.2	311.3	308.8	304.9	299.8	294.7	287.9	281.4	273.3	265.6	256.2
52.5°	304.1	302.4	300.2	296.0	290.8	285.3	278.0	270.3	262.2	255.0	245.1
55°	295.5	294.7	291.7	288.3	281.9	275.5	268.6	260.5	251.5	243.0	233.6
57.5°	287.4	285.7	283.2	278.5	272.9	266.5	259.2	250.7	240.9	231.9	221.7
60°	279.3	276.7	273.8	269.5	263.5	256.7	249.0	240.0	230.2	220.4	209.7
62.5°	270.3	268.2	264.8	260.5	254.5	247.3	239.2	229.8	220.4	210.1	198.6
65°	261.4	259.2	255.8	251.5	245.6	237.5	228.9	219.5	208.8	199.0	186.6
67.5°	252.4	250.3	246.4	241.7	235.7	228.1	219.1	209.3	198.6	187.9	175.1
70°	243.4	240.9	237.5	232.3	226.4	218.2	209.3	199.0	188.3	176.8	164.0
72.5°	234.5	232.3	228.1	223.4	217.0	208.8	199.9	189.6	178.5	166.6	153.7
75°	225.5	222.9	219.9	214.4	207.6	199.9	190.5	180.2	168.3	156.7	143.5
77.5°	216.5	214.4	210.5	205.0	198.6	190.5	181.1	170.8	158.9	146.9	132.8
80°	207.6	205.0	202.0	196.9	189.6	181.5	171.7	161.4	149.5	137.1	123.0
82.5°	198.6	196.0	192.6	187.5	180.7	172.5	163.1	152.0	140.1	127.3	114.0
85°	189.6	187.5	183.6	178.5	171.3	163.1	153.7	143.9	131.1	118.3	105.1
87.5°	180.7	178.5	174.7	169.6	162.7	154.6	145.2	135.0	122.6	110.6	96.1
90°	172.1	170.4	166.6	161.4	154.6	146.5	137.9	126.8	114.9	102.9	89.3
92.5°	164.4	162.7	159.3	154.2	148.2	139.2	130.7	120.0	108.1	95.7	82.4
95°	157.6	155.5	152.0	147.3	140.1	132.4	123.9	113.2	101.6	89.3	76.4
97.5°	149.9	147.8	144.4	139.2	133.2	125.1	116.6	106.3	94.8	83.3	70.5
100°	142.2	140.1	136.2	132.0	126.0	117.9	109.8	99.5	88.8	77.7	65.3
102.5°	134.5	132.4	129.0	124.7	118.7	111.5	103.4	93.5	82.9	71.7	60.2
105°	127.3	125.1	121.7	117.4	111.9	104.6	96.1	87.6	77.3	66.6	55.5
107.5°	120.0	117.9	114.9	110.6	105.1	98.2	90.1	81.1	71.7	61.5	50.8
110°	112.7	111.0	107.6	103.8	98.2	91.4	84.1	75.6	66.2	56.8	46.6





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-20SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	105.9	104.2	100.8	96.5	91.8	85.4	78.2	70.0	61.1	52.1	42.3
115°	99.1	96.9	94.0	90.1	85.4	79.4	72.6	65.3	56.4	47.8	38.9
117.5°	92.2	90.5	87.6	83.7	79.4	73.5	67.1	60.2	51.7	43.6	35.4
120°	85.4	84.1	81.1	77.7	73.5	67.9	61.9	55.1	47.4	39.7	32.0
122.5°	79.0	77.7	74.7	71.7	67.5	62.4	56.8	50.4	43.6	36.3	29.5
125°	73.0	71.3	68.8	65.8	61.9	57.2	51.7	45.7	39.3	32.9	26.5
127.5°	66.6	65.3	63.6	60.2	56.4	52.1	47.0	41.9	35.9	29.9	23.9
130°	61.5	59.8	57.7	55.1	51.7	47.4	42.7	37.6	32.5	26.9	20.9
132.5°	55.5	53.8	52.1	49.5	46.6	42.7	38.4	33.7	29.0	23.9	18.8
135°	50.0	48.7	47.0	44.4	41.4	38.4	34.2	29.9	25.6	20.9	16.7
137.5°	44.8	43.6	41.9	40.1	37.2	34.2	30.3	26.5	22.6	18.4	14.5
140°	39.7	38.9	37.2	35.4	32.9	29.9	26.5	23.1	19.6	15.8	12.4
142.5°	34.6	33.7	32.5	30.7	28.6	26.1	23.1	20.1	16.7	13.7	10.7
145°	29.9	29.5	28.2	26.5	24.8	22.2	19.6	17.1	14.1	11.5	8.5
147.5°	25.2	24.8	23.9	22.6	20.9	18.8	16.7	14.1	12.0	9.4	6.8
150°	20.9	20.5	20.1	18.4	17.5	15.4	13.7	11.5	9.8	7.3	5.6
152.5°	17.1	17.1	16.2	14.9	14.1	12.4	11.1	9.4	7.7	6.0	4.3
155°	13.7	13.2	12.8	12.0	11.1	9.8	8.5	7.3	6.0	4.3	3.0
157.5°	10.7	10.2	9.8	9.0	8.1	7.7	6.4	5.1	3.8	3.0	2.1
160°	7.7	7.3	6.8	6.4	6.0	5.1	4.3	3.4	2.6	1.7	1.3
162.5°	5.1	4.7	4.7	4.3	3.8	3.0	2.6	2.1	1.7	1.3	0.9
165°	2.6	2.6	2.1	2.1	1.7	1.3	1.3	1.3	0.9	0.9	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: 4SNLED-LD5-20SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	404.9	404.9	404.9	404.9	404.9	404.9	404.9
2.5°	402.7	402.7	404.4	404.0	402.7	405.3	408.3
5°	401.5	401.5	402.7	402.7	401.5	404.0	406.6
7.5°	399.3	398.9	400.2	400.2	398.5	400.6	403.6
10°	395.5	395.0	396.3	396.3	394.6	396.8	399.3
12.5°	391.2	390.3	391.6	391.2	389.5	391.6	394.2
15°	385.7	385.2	386.1	385.2	383.5	385.7	388.2
17.5°	380.1	378.8	379.2	379.2	376.3	378.4	380.5
20°	372.8	371.1	371.6	371.1	369.0	370.3	372.8
22.5°	365.6	363.0	363.0	362.6	360.0	361.7	363.9
25°	356.6	353.6	353.6	353.2	350.2	351.5	353.6
27.5°	347.6	344.7	343.4	342.9	340.0	340.0	342.9
30°	338.2	334.0	333.1	331.8	328.9	328.9	331.4
32.5°	329.3	323.3	321.6	319.9	316.9	316.5	319.5
35°	317.3	312.6	309.6	307.9	304.5	303.7	306.2
37.5°	307.5	301.5	297.2	295.1	291.7	290.4	293.8
40°	296.8	290.4	284.9	283.6	278.5	276.7	279.7
42.5°	284.9	278.0	272.5	269.9	266.1	264.4	264.8
45°	272.9	265.6	259.7	256.2	252.4	249.4	251.1
47.5°	260.5	254.1	246.9	241.7	237.0	234.9	235.7
50°	248.1	240.4	233.6	228.1	222.5	219.9	221.7
52.5°	235.7	227.6	219.9	214.0	207.6	205.0	205.4
55°	223.8	215.2	206.3	199.9	193.9	190.0	189.2
57.5°	211.8	202.4	193.0	185.8	178.1	174.7	173.4
60°	199.0	189.2	179.4	170.8	162.7	158.9	157.2
62.5°	187.1	176.4	165.3	156.3	148.2	143.1	141.8
65°	175.5	163.1	152.0	141.8	132.8	127.3	125.6
67.5°	163.1	150.3	138.4	127.3	118.7	111.5	110.6
70°	151.6	137.9	124.7	113.2	103.8	96.5	93.1
72.5°	140.1	126.0	112.3	99.9	88.0	81.1	78.6
75°	129.0	114.5	99.9	87.1	73.9	65.8	63.2
77.5°	118.7	103.8	88.4	74.3	61.9	51.7	48.3
80°	108.9	93.5	77.3	62.8	49.5	38.4	34.6
82.5°	98.7	84.1	67.5	52.1	38.4	26.9	22.2
85°	89.7	75.2	58.5	43.1	29.5	17.1	12.0
87.5°	82.4	66.6	51.7	36.3	22.2	9.8	3.4
90°	75.2	59.8	44.8	29.9	16.7	5.6	0.4
92.5°	68.8	54.2	39.3	25.6	12.8	3.8	0.4
95°	62.8	48.7	34.6	21.4	10.2	2.6	0.4
97.5°	57.2	44.0	30.7	18.4	8.5	2.1	0.4
100°	52.5	39.7	27.3	16.2	7.3	1.7	0.4
102.5°	47.8	35.9	24.3	14.1	6.4	1.3	0.4
105°	44.0	32.5	21.8	12.8	5.6	1.3	0.4
107.5°	40.1	29.5	19.6	11.1	4.7	0.9	0.4
110°	36.3	26.9	17.5	9.8	4.3	0.9	0.4



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-20SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	33.3	24.3	15.8	9.0	3.4	0.9	0.4
115°	30.3	21.8	14.1	7.7	3.0	0.4	0.4
117.5°	27.3	19.6	12.4	6.8	2.6	0.4	0.4
120°	24.8	17.5	11.1	6.0	2.1	0.4	0.4
122.5°	22.2	15.8	9.8	5.1	1.7	0.4	0.4
125°	20.1	14.1	8.5	4.3	1.3	0.4	0.4
127.5°	17.9	12.4	7.7	3.8	1.3	0.4	0.4
130°	15.8	11.1	6.4	3.0	0.9	0.4	0.4
132.5°	14.1	9.4	5.6	2.6	0.9	0.4	0.4
135°	12.4	8.1	4.7	1.7	0.9	0.4	0.4
137.5°	10.7	6.8	3.8	1.3	0.4	0.4	0.4
140°	9.0	6.0	3.0	1.3	0.4	0.4	0.4
142.5°	7.7	4.7	2.1	0.9	0.4	0.4	0.4
145°	6.0	3.8	1.7	0.9	0.4	0.4	0.4
147.5°	4.7	3.0	1.3	0.9	0.4	0.4	0.4
150°	3.4	2.1	1.3	0.4	0.4	0.4	0.4
152.5°	2.6	1.7	0.9	0.4	0.4	0.4	0.4
155°	1.7	1.3	0.9	0.4	0.4	0.4	0.4
157.5°	1.3	0.9	0.4	0.4	0.4	0.4	0.4
160°	0.9	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)