

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **4SNLED-LD5-30SL-LC-UNV-L930-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 (P33518)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-30SL-LC-UNV-L930-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR LENSED  
Light Source: -  
Ballast/Driver: -

**Summary**

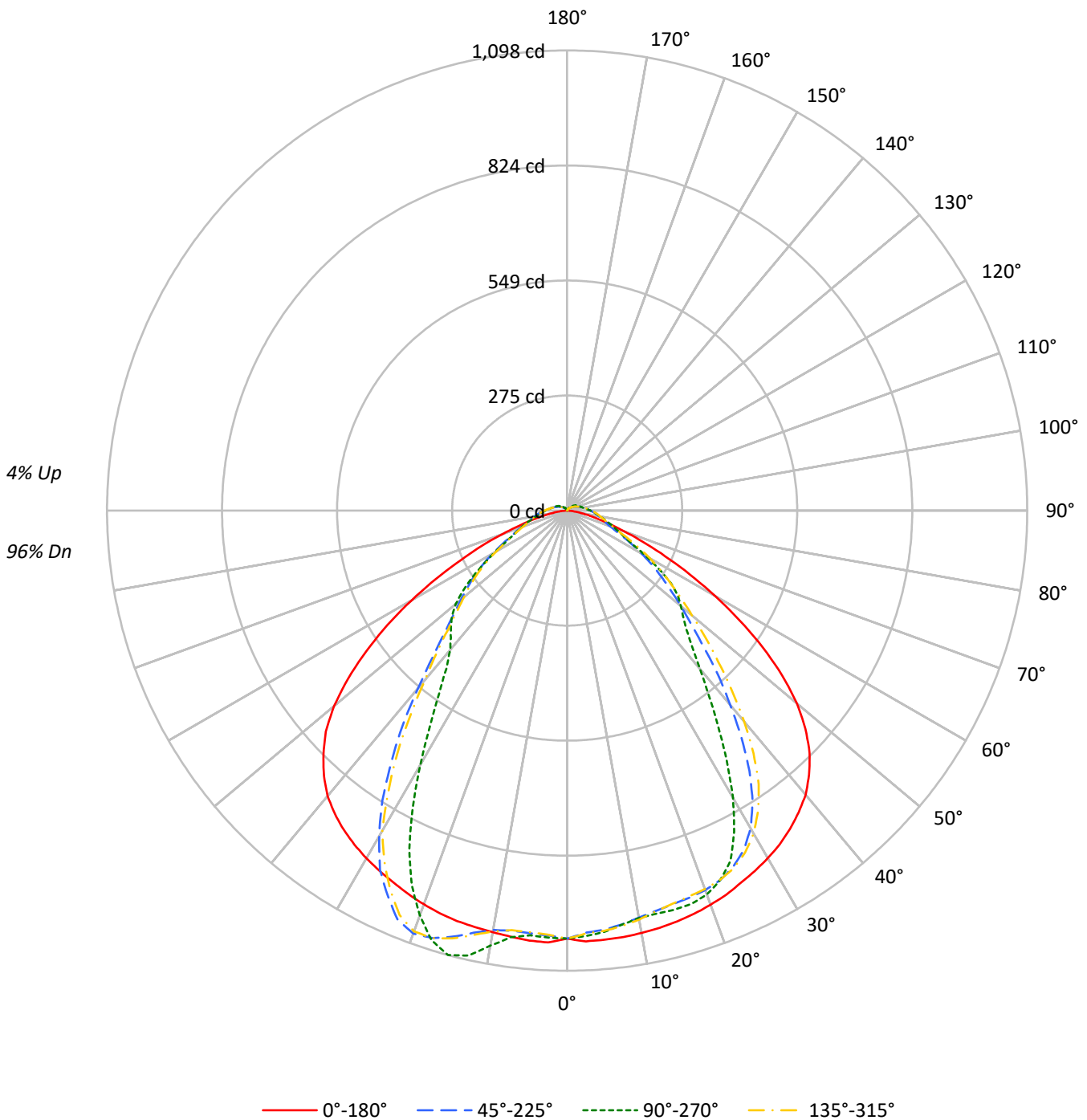
Lumens per Lamp: N/A  
Luminaire Lumens: 2435.0 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 21  
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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	82				
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	71				
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	61				
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	54				
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	47				
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	42				
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	38				
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	34				
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	31				
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	28				

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

	0°	90°	180°	270°
0°	8254	8254	8254	8254
5°	8315	7927	8332	7989
10°	8352	7597	8335	8113
15°	8418	7496	8413	8346
20°	8510	7377	8501	7776
25°	8615	6998	8610	6762
30°	8777	6065	8782	5373
35°	8949	4904	8974	4150
40°	9100	3949	9138	3479
45°	9068	3345	9115	3257
50°	8677	3079	8799	3011
55°	7700	2768	7891	2516
60°	6245	2118	6576	1943
65°	4641	1621	5002	1537
70°	3157	1399	3560	1338
75°	2066	1263	2405	1194
80°	1336	1176	1565	1083
85°	683	1174	902	1073



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.0	4.0
10°-20°	288.7	11.9
20°-30°	438.9	18.0
30°-40°	470.8	19.3
40°-50°	408.6	16.8
50°-60°	302.8	12.4
60°-70°	173.5	7.1
70°-80°	96.1	3.9
80°-90°	58.5	2.4
90°-100°	38.0	1.6
100°-110°	25.5	1.0
110°-120°	17.2	0.7
120°-130°	10.6	0.4
130°-140°	5.6	0.2
140°-150°	2.5	0.1
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	824.6	33.9
0°-40°	1295.4	53.2
0°-60°	2006.8	82.4
0°-90°	2334.9	95.9
90°-120°	80.7	3.3
90°-150°	99.4	4.1
90°-180°	100.0	4.1
0°-180°	2435.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1021	1021	1021	1021	1021	
5°	1028	1009	1030	1017	1028	98
15°	1015	986	1014	1098	1015	287
25°	980	922	980	891	980	453
35°	927	628	930	531	927	580
45°	818	403	822	392	818	626
55°	571	302	585	274	571	506
65°	259	153	279	145	259	261
75°	74	97	86	92	74	84
85°	10	67	13	61	10	13
90°	0	56	1	52	0	0
95°	0	46	0	44	0	0
105°	0	34	0	33	0	1
115°	0	28	0	25	0	0
125°	0	21	0	17	0	0
135°	0	13	0	11	0	0
145°	0	8	1	6	0	0
155°	1	4	1	3	1	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#

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4
2.5°	1028.8	1026.2	1025.1	1023.0	1024.6	1030.9	1026.7	1019.8	1020.4	1008.2	1014.6
5°	1027.8	1024.6	1023.0	1020.9	1021.9	1027.8	1023.5	1016.7	1016.1	1004.0	1009.8
7.5°	1026.2	1023.0	1020.4	1018.8	1019.3	1024.1	1018.8	1010.9	1009.3	996.1	1001.4
10°	1023.5	1021.4	1017.7	1015.1	1014.6	1019.8	1011.4	1003.5	999.8	986.1	991.3
12.5°	1019.8	1016.7	1013.0	1008.2	1007.7	1010.9	1004.0	992.9	989.2	978.2	984.0
15°	1014.6	1010.9	1006.6	1001.4	998.7	1000.8	992.4	982.4	981.9	972.4	980.3
17.5°	1008.8	1003.5	998.7	991.3	987.7	989.2	982.4	973.4	974.5	968.7	977.6
20°	1000.8	995.0	987.7	980.3	975.0	977.6	972.9	966.0	967.6	963.4	971.3
22.5°	991.9	984.0	975.0	966.6	962.3	966.0	962.3	956.5	957.1	954.4	959.2
25°	980.3	971.3	960.7	950.2	948.1	950.7	948.6	943.9	941.8	937.5	939.6
27.5°	969.7	959.7	946.5	935.4	931.7	937.0	932.3	924.3	918.5	912.7	908.5
30°	957.6	945.4	930.7	918.0	914.8	917.0	910.1	898.0	882.7	875.3	863.7
32.5°	944.4	928.6	910.1	895.9	893.7	892.2	879.5	862.1	838.3	823.6	805.6
35°	927.0	909.6	887.4	870.0	866.8	857.9	837.3	814.1	783.5	758.2	727.6
37.5°	907.5	886.9	863.7	840.5	831.5	813.5	784.5	760.3	713.8	683.2	646.3
40°	885.3	860.5	832.0	804.1	789.3	760.3	727.0	691.1	646.3	605.1	574.0
42.5°	854.7	828.3	794.6	763.4	738.1	699.6	660.5	609.9	568.7	533.9	502.3
45°	818.3	786.6	747.6	710.1	678.0	632.1	586.2	535.5	501.2	460.6	439.0
47.5°	771.3	737.0	695.4	653.7	611.5	560.8	512.8	464.3	430.0	401.0	385.1
50°	715.9	684.3	638.4	588.8	542.4	489.6	441.6	405.2	372.0	354.0	341.9
52.5°	647.4	617.8	570.9	517.0	472.2	420.5	376.7	347.2	323.4	310.2	306.0
55°	570.9	545.0	498.6	448.5	402.6	355.1	321.8	296.0	280.7	272.8	273.3
57.5°	489.1	469.0	425.2	380.4	337.1	301.3	271.2	250.6	239.0	238.5	240.1
60°	407.3	392.5	354.5	316.0	278.0	249.0	226.9	212.6	205.2	205.8	205.2
62.5°	329.2	315.5	288.1	256.4	226.3	206.8	186.8	181.0	174.6	174.1	174.1
65°	259.0	248.5	226.3	203.7	181.0	168.3	158.3	151.4	146.7	145.6	146.1
67.5°	194.7	190.5	175.2	159.9	145.6	137.7	129.3	127.7	124.0	124.0	125.0
70°	145.1	141.9	133.5	124.5	118.7	113.4	109.2	109.2	108.7	108.2	110.8
72.5°	105.0	105.5	102.9	96.0	95.5	94.4	93.4	95.0	95.5	97.1	100.2
75°	73.9	75.4	75.4	74.4	76.5	79.1	80.7	83.4	86.5	88.6	92.3
77.5°	52.2	52.2	54.9	58.0	62.3	67.0	71.2	74.9	79.1	81.8	84.9
80°	33.8	35.3	39.6	45.4	51.2	57.5	63.3	68.1	72.3	76.5	78.6
82.5°	20.0	22.7	28.0	35.3	42.7	50.6	56.5	62.3	67.0	71.2	72.8
85°	10.0	13.7	20.0	28.0	35.9	44.3	51.7	57.0	62.3	65.9	68.1
87.5°	3.2	7.4	14.2	21.6	30.1	38.5	46.4	52.2	57.0	60.1	62.3
90°	0.0	3.7	10.0	17.9	25.9	34.3	41.7	48.0	52.8	55.4	57.0
92.5°	0.0	2.1	7.9	14.8	22.2	30.6	38.0	43.8	48.0	50.6	51.7
95°	0.5	1.6	5.8	12.1	19.5	27.4	34.3	39.6	43.8	46.4	47.0
97.5°	0.5	1.1	4.7	10.0	16.9	24.3	31.1	36.4	39.6	42.2	42.7
100°	0.5	1.1	3.7	9.0	14.8	21.6	28.0	32.7	36.4	38.5	39.0
102.5°	0.5	0.5	3.2	7.4	13.2	19.0	24.8	29.5	32.7	34.8	35.9
105°	0.5	0.5	2.6	6.3	11.6	16.9	22.2	26.9	29.5	31.7	32.7
107.5°	0.5	0.5	2.1	5.3	10.0	14.8	20.0	23.7	26.9	29.0	30.1
110°	0.5	0.5	1.6	4.7	8.4	13.2	17.4	21.1	24.3	26.4	27.4



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.5	0.5	1.6	4.2	7.4	11.6	15.3	19.0	21.6	23.7	25.3
115°	0.5	0.5	1.6	3.7	6.9	10.0	13.7	16.9	19.5	21.6	23.2
117.5°	0.5	0.5	1.6	3.2	5.8	9.0	12.1	15.3	17.4	19.5	21.1
120°	0.5	0.5	1.1	2.6	5.3	7.9	10.6	13.2	15.8	17.9	19.5
122.5°	0.5	0.5	1.1	2.6	4.2	6.9	9.5	11.6	14.2	15.8	17.4
125°	0.5	0.5	1.1	2.1	3.7	6.3	8.4	10.6	12.1	14.2	15.8
127.5°	0.5	0.5	1.1	2.1	3.2	5.3	7.4	9.5	11.1	12.7	13.7
130°	0.5	0.5	1.1	1.6	2.6	4.2	6.3	7.9	10.0	11.1	12.1
132.5°	0.5	0.5	0.5	1.6	2.1	3.2	4.7	6.9	8.4	10.0	10.6
135°	0.5	0.5	0.5	1.1	2.1	2.6	3.7	5.3	6.9	8.4	9.5
137.5°	0.5	0.5	0.5	1.1	1.6	2.6	3.2	4.2	5.8	6.9	8.4
140°	0.5	0.5	0.5	1.1	1.6	2.1	2.6	3.7	4.7	5.8	6.9
142.5°	0.5	0.5	0.5	1.1	1.1	1.6	2.1	3.2	3.7	4.7	5.8
145°	0.5	0.5	0.5	1.1	1.1	1.6	2.1	2.6	3.2	3.7	4.7
147.5°	0.5	0.5	0.5	1.1	1.1	1.1	1.6	2.1	2.6	3.2	3.7
150°	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	2.1	2.6	3.2
152.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	1.6	2.1	2.6
155°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	2.1	2.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4
2.5°	1012.5	1013.5	1019.8	1019.3	1018.3	1017.2	1017.2	1016.1	1017.2	1019.8	1018.8
5°	1007.2	1008.8	1013.5	1013.0	1011.9	1011.4	1010.9	1009.3	1010.3	1014.0	1013.0
7.5°	997.7	999.3	1003.5	1001.4	999.8	1000.8	998.2	996.6	998.7	1002.4	1001.9
10°	987.7	988.7	994.0	992.9	990.3	990.8	988.2	987.1	989.8	991.9	992.4
12.5°	980.8	984.5	989.2	988.7	988.2	988.7	986.1	985.0	986.6	988.7	988.2
15°	979.2	984.0	989.2	989.2	989.8	990.3	987.7	986.1	987.7	989.2	988.7
17.5°	977.6	983.4	988.2	987.7	988.2	989.2	985.0	984.0	986.1	988.2	987.1
20°	972.4	977.6	980.8	979.7	979.7	980.3	975.0	975.0	978.2	979.7	980.3
22.5°	957.6	963.9	963.9	961.3	961.3	959.2	957.6	954.4	958.1	960.7	962.9
25°	935.4	938.1	934.9	929.1	925.9	923.3	915.9	922.2	922.2	930.1	932.8
27.5°	904.3	898.5	889.5	877.4	874.7	866.3	861.6	863.1	865.8	876.9	885.3
30°	853.1	835.7	820.4	815.1	803.5	795.1	786.6	790.9	795.6	801.9	819.4
32.5°	785.6	768.7	743.9	734.9	722.8	712.3	702.2	708.6	717.0	721.2	740.2
35°	708.0	688.0	665.3	650.0	637.3	631.5	618.9	627.8	636.8	640.0	656.3
37.5°	625.7	605.1	585.1	571.9	559.8	556.1	547.6	554.0	560.8	565.6	579.3
40°	547.6	528.6	513.3	504.4	495.9	492.8	489.6	492.2	497.5	501.2	511.8
42.5°	480.6	465.3	454.8	449.5	443.7	439.5	440.0	441.1	443.7	451.6	456.4
45°	422.1	413.1	406.2	405.2	401.5	401.0	400.4	402.6	404.1	408.9	412.6
47.5°	375.1	371.4	369.8	372.0	373.5	371.4	372.5	375.1	378.3	378.3	377.8
50°	338.2	339.2	341.4	346.1	349.3	350.3	351.4	354.5	355.1	356.1	354.5
52.5°	308.1	309.2	315.0	322.4	326.1	327.6	329.7	332.9	332.9	334.0	331.9
55°	277.5	279.1	284.9	292.3	295.5	297.6	299.7	301.8	303.4	305.5	303.9
57.5°	243.7	248.5	252.2	254.3	256.4	258.0	259.6	260.1	263.3	263.8	266.4
60°	207.9	208.9	212.6	212.1	210.5	214.7	212.6	216.3	220.0	224.8	225.3
62.5°	173.6	174.1	176.7	175.7	177.8	177.3	178.9	178.9	181.5	183.6	186.2
65°	146.7	147.2	149.3	149.3	148.8	150.4	151.9	153.0	153.0	154.6	156.7
67.5°	126.6	128.2	130.3	131.4	132.4	132.4	134.0	134.5	135.6	136.1	137.2
70°	112.9	115.0	117.1	118.2	118.7	119.8	120.3	120.3	121.3	121.9	122.9
72.5°	102.9	105.0	106.6	106.6	107.6	108.2	108.2	108.7	109.2	110.3	111.3
75°	94.4	96.0	97.1	96.5	96.5	96.5	97.1	97.1	98.1	99.2	100.2
77.5°	86.5	88.1	88.1	87.1	87.1	87.1	87.1	87.6	88.1	89.2	90.2
80°	80.7	80.7	80.2	80.2	79.1	78.6	78.6	79.1	79.1	80.2	81.8
82.5°	74.4	74.4	73.9	73.3	72.8	72.3	72.3	72.8	73.3	73.9	74.9
85°	68.6	68.6	67.5	67.5	67.0	67.0	67.0	67.0	67.5	68.1	69.1
87.5°	62.8	62.3	61.7	61.2	61.2	61.2	61.2	61.2	61.7	62.8	63.3
90°	57.0	56.5	55.9	55.9	55.4	55.4	55.9	55.9	56.5	57.0	57.5
92.5°	51.7	51.2	50.6	50.6	50.1	50.1	50.6	50.1	51.2	51.2	51.7
95°	47.0	46.4	45.9	45.9	45.9	45.9	45.9	45.9	46.4	46.4	47.0
97.5°	42.7	42.2	41.7	41.7	42.2	41.7	42.2	42.2	42.2	42.7	43.3
100°	39.0	38.5	38.5	39.0	38.5	38.5	39.0	39.0	39.0	39.0	39.6
102.5°	35.9	35.9	35.9	35.9	35.9	35.9	36.4	36.4	36.4	36.4	36.9
105°	32.7	33.2	33.2	33.2	33.8	33.8	33.8	34.3	34.3	34.3	34.3
107.5°	30.6	31.1	31.1	31.7	31.7	32.2	32.2	32.2	32.2	32.7	32.7
110°	28.5	29.0	29.5	30.1	30.1	30.6	30.6	30.6	30.6	30.6	30.6





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	26.4	26.9	27.4	28.5	29.0	29.0	29.0	29.0	29.5	29.5	29.0
115°	24.3	25.3	25.9	26.9	27.4	27.4	28.0	28.0	28.0	28.0	27.4
117.5°	22.2	23.7	24.3	25.3	25.9	25.9	26.4	26.4	26.4	26.4	25.9
120°	20.6	21.6	22.7	23.2	23.7	24.3	24.3	24.8	24.8	24.8	24.3
122.5°	19.0	20.0	21.1	21.6	22.2	22.7	22.7	22.7	22.7	22.7	22.7
125°	16.9	17.9	19.0	19.5	20.0	20.6	20.6	21.1	21.1	21.1	20.6
127.5°	15.3	16.4	16.9	17.9	18.5	18.5	19.0	19.0	19.0	19.0	18.5
130°	13.2	14.2	15.3	15.8	16.4	16.4	16.9	16.9	16.9	16.9	16.9
132.5°	11.6	12.7	13.2	14.2	14.2	14.8	14.8	15.3	15.3	15.3	14.8
135°	10.6	11.1	11.6	12.7	12.7	13.2	13.2	13.2	13.2	13.2	13.2
137.5°	9.5	10.0	10.6	11.1	11.1	11.6	11.6	11.6	11.6	12.1	11.6
140°	7.9	9.0	9.5	9.5	10.0	10.0	10.0	10.6	10.6	10.6	10.0
142.5°	6.9	7.4	7.9	8.4	9.0	9.0	9.0	9.0	9.5	9.0	9.0
145°	5.3	6.3	6.9	7.4	7.9	7.9	7.9	7.9	7.9	7.9	7.9
147.5°	4.2	4.7	5.8	6.3	6.3	6.9	6.9	6.9	6.9	6.9	6.9
150°	3.7	3.7	4.7	5.3	5.8	5.8	5.8	5.8	5.8	5.8	5.8
152.5°	2.6	3.2	3.7	4.2	4.7	4.7	4.7	4.7	4.7	4.7	4.7
155°	2.6	2.6	3.2	3.2	3.7	3.7	3.7	3.7	4.2	3.7	3.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-LD5-30SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4
2.5°	1017.2	1016.7	1018.8	1016.7	1006.1	1010.3	1008.8	1014.6	1015.1	1016.7	1021.9
5°	1011.9	1011.9	1014.6	1012.5	1002.4	1006.6	1006.1	1011.9	1013.0	1014.0	1019.8
7.5°	1001.4	1001.9	1005.6	1004.0	993.5	999.8	999.3	1006.1	1008.2	1010.3	1015.6
10°	991.3	990.8	995.0	993.5	983.4	990.8	990.3	997.2	1000.3	1004.0	1010.3
12.5°	986.1	984.5	986.1	984.5	973.4	979.2	979.7	987.7	991.3	996.1	1003.5
15°	986.1	983.4	983.4	980.3	967.6	971.3	971.8	977.1	981.9	986.6	995.6
17.5°	985.0	982.4	981.9	979.2	965.5	965.5	965.0	968.7	971.3	976.0	985.5
20°	979.2	978.2	977.6	976.0	963.4	961.3	960.2	960.2	961.8	963.4	972.9
22.5°	963.9	965.0	966.0	967.1	957.1	953.4	953.9	952.8	951.3	951.3	959.2
25°	935.4	940.7	944.9	949.7	943.9	941.2	944.4	942.8	940.2	938.1	944.9
27.5°	890.0	901.1	910.1	921.7	922.2	920.1	928.6	927.5	927.0	923.8	929.1
30°	827.3	844.7	856.8	873.7	887.9	890.0	904.3	906.4	908.5	906.9	912.2
32.5°	751.3	775.0	795.6	822.0	835.7	847.8	867.9	876.3	884.8	887.4	893.2
35°	668.5	695.4	719.6	748.7	770.3	796.7	820.9	833.6	852.6	860.0	868.4
37.5°	589.8	615.2	638.9	667.9	702.8	730.2	760.3	788.8	814.6	825.2	837.8
40°	520.2	540.8	563.5	588.8	620.4	656.3	689.0	728.6	759.2	780.3	798.8
42.5°	467.4	477.5	497.0	519.7	545.0	581.4	614.6	659.0	695.9	726.0	756.6
45°	420.5	425.2	439.5	451.6	477.5	509.7	545.0	588.3	626.8	665.3	702.2
47.5°	380.4	386.2	393.1	400.4	418.9	445.8	476.4	515.5	554.0	598.8	641.0
50°	353.5	355.1	356.1	359.3	370.4	388.8	413.6	446.9	483.8	531.8	576.7
52.5°	329.7	329.7	326.6	325.0	329.2	340.8	355.1	378.8	416.8	461.1	508.6
55°	304.4	299.7	298.6	293.3	294.4	299.7	306.5	325.0	356.1	394.1	440.0
57.5°	269.1	267.0	267.0	264.9	260.6	263.3	264.9	278.0	300.2	332.9	373.0
60°	228.4	227.4	230.0	230.6	226.9	228.4	227.9	235.8	251.7	278.0	311.3
62.5°	187.8	192.6	193.1	195.2	193.1	192.6	195.2	202.1	210.0	230.0	255.9
65°	157.8	160.4	160.9	163.6	162.5	162.5	164.6	169.9	174.6	188.4	208.4
67.5°	138.2	137.2	137.7	139.3	137.7	137.2	138.8	141.9	145.6	154.1	168.3
70°	122.9	121.9	121.9	121.9	119.8	118.2	118.7	119.8	121.3	126.1	135.1
72.5°	111.3	111.3	109.7	108.2	106.6	105.5	104.5	103.4	102.9	104.5	109.2
75°	100.8	101.3	100.8	99.2	97.1	95.0	92.9	90.7	88.1	87.1	87.6
77.5°	91.3	91.8	92.3	91.8	89.7	87.1	83.9	80.7	77.0	73.3	71.2
80°	82.8	83.9	84.4	83.9	82.3	80.2	76.5	72.8	67.5	62.8	57.5
82.5°	75.4	77.0	77.6	77.6	76.5	74.4	70.2	65.9	60.1	53.8	47.0
85°	69.6	70.7	71.8	71.8	71.2	69.1	64.9	60.1	54.3	47.0	39.6
87.5°	63.8	64.4	65.4	66.5	65.4	63.3	59.6	54.3	48.5	41.2	32.7
90°	58.0	58.6	59.6	60.7	60.1	58.0	54.9	50.1	43.8	35.9	27.4
92.5°	52.2	53.3	53.8	54.3	54.9	53.3	50.6	45.9	39.6	31.7	23.7
95°	48.0	48.0	49.1	49.6	50.1	48.5	46.4	41.7	35.9	28.5	20.6
97.5°	43.8	43.8	44.8	44.8	45.4	44.3	42.2	38.0	32.2	25.3	17.4
100°	39.6	40.1	40.6	41.2	41.2	40.6	38.5	34.3	29.0	22.7	15.3
102.5°	36.9	36.9	37.5	37.5	38.0	36.9	34.8	31.1	25.9	20.0	13.2
105°	34.3	34.3	34.8	34.8	34.3	33.2	31.1	28.0	23.2	17.4	11.6
107.5°	32.2	32.2	32.2	32.2	31.7	30.6	28.5	24.8	20.6	15.8	10.6
110°	30.6	30.1	30.1	29.5	29.0	27.4	25.3	22.2	18.5	13.7	9.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	29.0	28.5	28.0	27.4	26.4	24.8	22.7	20.0	16.4	12.1	7.9
115°	27.4	26.9	26.4	25.3	24.3	22.7	20.6	17.9	14.2	10.6	6.9
117.5°	25.9	25.3	24.3	23.2	22.2	20.6	18.5	15.8	12.7	9.5	6.3
120°	23.7	23.2	22.7	21.6	20.6	18.5	16.4	14.2	11.1	8.4	5.3
122.5°	22.2	21.6	20.6	20.0	18.5	16.9	14.8	12.7	10.0	7.4	4.7
125°	20.0	19.5	19.0	17.9	16.9	14.8	13.2	11.1	9.0	6.3	3.7
127.5°	18.5	17.9	16.9	15.8	14.8	13.2	11.6	10.0	7.9	5.3	3.7
130°	16.4	15.8	15.3	14.2	13.2	11.6	10.6	8.4	6.9	4.7	3.2
132.5°	14.2	14.2	13.7	12.7	11.6	10.6	9.0	7.4	5.8	4.2	2.6
135°	13.2	12.7	12.1	11.1	10.6	9.0	7.9	6.3	4.7	3.7	2.1
137.5°	11.6	11.1	10.6	10.0	9.0	7.9	6.9	5.3	4.2	3.2	2.1
140°	10.0	9.5	9.5	8.4	7.9	6.9	5.8	4.7	3.7	2.6	1.6
142.5°	9.0	8.4	7.9	7.4	6.9	5.8	4.7	3.7	3.2	2.1	1.6
145°	7.9	7.4	6.9	6.3	5.8	4.7	4.2	3.2	2.6	2.1	1.6
147.5°	6.3	6.3	5.8	5.3	4.7	4.2	3.7	3.2	2.1	1.6	1.1
150°	5.3	5.3	4.7	4.2	4.2	3.7	3.2	2.6	2.1	1.6	1.1
152.5°	4.7	4.2	4.2	3.7	3.7	3.2	2.6	2.1	1.6	1.6	1.1
155°	3.7	3.7	3.7	3.2	3.2	2.6	2.1	2.1	1.6	1.1	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-LD5-30SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4
2.5°	1023.0	1016.7	1021.9	1031.4	1030.4	1029.3	1028.3	1030.4	1037.2	1033.6	1027.8
5°	1021.4	1015.1	1020.9	1029.9	1029.3	1027.8	1026.7	1028.8	1035.7	1032.0	1025.6
7.5°	1018.3	1012.5	1016.7	1025.6	1025.6	1024.6	1023.5	1025.6	1032.0	1028.8	1022.5
10°	1013.0	1008.8	1013.0	1021.4	1021.9	1019.8	1018.8	1021.4	1027.8	1026.2	1020.9
12.5°	1008.8	1004.5	1009.3	1017.7	1018.3	1016.1	1014.6	1017.7	1026.2	1027.2	1025.6
15°	1003.0	999.3	1005.1	1014.0	1014.0	1012.5	1012.5	1016.7	1028.3	1033.0	1035.7
17.5°	994.5	991.9	998.7	1007.7	1008.2	1007.2	1007.7	1016.1	1031.4	1043.1	1050.4
20°	984.0	982.9	990.3	999.8	1001.4	1001.9	1004.5	1017.2	1038.3	1054.1	1061.5
22.5°	971.3	971.8	980.3	990.3	992.4	994.0	999.3	1017.2	1043.6	1060.5	1063.6
25°	957.1	958.6	967.6	979.7	982.4	985.5	994.5	1017.7	1045.2	1056.2	1051.0
27.5°	941.8	944.9	956.5	969.2	972.4	977.6	989.2	1014.6	1037.8	1038.3	1018.8
30°	925.9	929.6	943.3	958.1	963.4	968.7	982.9	1007.2	1019.8	1003.0	968.7
32.5°	908.0	913.3	927.0	944.9	951.3	958.1	972.4	992.9	988.2	951.8	902.7
35°	885.3	892.7	908.5	929.6	935.4	944.4	954.4	959.2	938.1	886.4	831.0
37.5°	857.3	868.4	886.9	911.2	917.5	923.3	925.9	912.7	870.5	814.6	757.1
40°	825.2	842.0	862.1	889.0	895.3	895.3	885.8	857.9	804.6	731.2	667.4
42.5°	786.1	806.7	832.0	858.9	865.3	857.9	835.2	786.1	725.4	643.7	576.1
45°	738.6	766.1	794.6	822.5	825.7	809.3	768.7	706.4	631.5	555.6	491.2
47.5°	682.2	718.1	749.2	780.8	776.6	749.2	694.8	624.1	545.0	473.3	421.5
50°	618.9	661.1	695.9	726.0	717.0	679.0	615.2	541.3	462.7	401.5	358.8
52.5°	551.3	599.9	634.7	659.0	646.8	601.5	531.3	460.6	396.2	340.3	311.8
55°	481.2	530.2	566.1	585.1	569.3	520.2	451.1	386.7	326.1	289.6	272.8
57.5°	413.1	459.0	492.8	508.1	488.0	439.0	375.1	320.8	277.0	246.4	237.9
60°	347.7	385.1	417.3	428.9	407.3	361.9	307.1	263.8	231.6	210.5	206.3
62.5°	287.0	317.6	342.9	351.9	330.8	295.5	248.0	215.8	193.1	182.5	177.3
65°	236.9	254.8	280.7	279.1	266.4	233.7	198.9	176.2	161.4	154.6	151.4
67.5°	186.2	202.6	219.0	221.1	205.2	182.5	159.9	143.5	135.6	131.9	130.3
70°	144.0	156.2	166.2	163.6	155.1	140.9	126.6	117.7	114.5	112.9	112.9
72.5°	111.8	118.2	122.9	119.8	114.5	107.1	100.2	96.5	97.1	98.1	99.2
75°	86.5	88.1	89.2	86.0	84.9	80.2	79.7	80.2	83.4	86.5	88.1
77.5°	66.5	64.4	62.8	59.6	60.1	59.6	62.3	66.5	71.2	76.0	80.2
80°	51.2	46.4	42.7	39.6	41.2	43.8	49.1	55.4	61.7	67.0	72.3
82.5°	39.6	32.7	27.4	24.3	27.4	31.7	38.5	46.4	53.8	59.6	65.4
85°	30.6	22.7	16.4	13.2	16.4	22.7	30.1	39.0	47.0	53.3	59.1
87.5°	23.7	16.4	9.0	5.3	9.0	15.8	24.3	32.7	40.6	48.0	53.8
90°	19.0	11.1	4.2	1.1	4.7	11.1	19.0	27.4	35.3	43.3	49.1
92.5°	15.3	7.9	2.1	0.0	2.6	8.4	15.8	23.7	31.7	39.0	44.8
95°	12.7	6.3	1.6	0.0	2.1	6.3	12.7	20.6	28.0	35.3	40.1
97.5°	10.6	4.7	1.1	0.0	1.1	5.3	10.6	17.4	24.8	31.7	36.4
100°	9.0	4.2	1.1	0.0	1.1	4.2	9.0	15.3	21.6	28.0	32.7
102.5°	7.4	3.2	0.5	0.5	0.5	3.2	7.9	13.2	19.0	24.8	29.5
105°	6.9	2.6	0.5	0.5	0.5	2.6	6.9	11.6	16.9	22.2	26.4
107.5°	5.8	2.1	0.5	0.5	0.5	2.1	5.8	10.0	15.3	20.0	23.7
110°	4.7	2.1	0.5	0.5	0.5	2.1	4.7	9.0	13.2	17.4	21.1



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	4.2	1.6	0.5	0.5	0.5	1.6	4.2	7.9	11.6	15.8	19.0
115°	3.7	1.6	0.5	0.5	0.5	1.6	3.7	6.9	10.0	13.7	16.9
117.5°	3.2	1.6	0.5	0.5	0.5	1.1	3.2	5.8	9.0	12.1	15.3
120°	2.6	1.1	0.5	0.5	0.5	1.1	2.6	5.3	7.9	10.6	13.2
122.5°	2.6	1.1	0.5	0.5	0.5	1.1	2.1	4.2	6.9	9.0	11.6
125°	2.1	1.1	0.5	0.5	0.5	0.5	2.1	3.7	5.8	7.9	10.0
127.5°	2.1	1.1	0.5	0.5	0.5	0.5	1.6	3.2	4.7	6.9	9.0
130°	1.6	1.1	0.5	0.5	0.5	0.5	1.1	2.6	4.2	5.8	7.4
132.5°	1.6	1.1	0.5	0.5	0.5	0.5	1.1	2.1	3.2	4.7	6.3
135°	1.6	0.5	0.5	0.5	0.5	0.5	0.5	1.6	2.6	3.7	4.7
137.5°	1.1	0.5	0.5	0.5	0.5	0.5	0.5	1.1	2.1	2.6	4.2
140°	1.1	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.6	2.1	3.2
142.5°	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.6	2.6
145°	1.1	0.5	0.5	1.1	1.1	0.5	0.5	1.1	1.1	1.6	2.1
147.5°	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.6
150°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6
152.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
155°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-LD5-30SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4
2.5°	1026.7	1014.6	1020.9	1018.8	1020.9	1026.2	1025.6	1024.1	1025.1	1022.5	1019.8
5°	1024.6	1012.5	1018.8	1016.1	1018.8	1024.1	1023.0	1021.4	1023.0	1019.8	1017.2
7.5°	1021.9	1010.9	1018.3	1017.7	1022.5	1029.3	1029.9	1029.9	1033.6	1028.8	1026.7
10°	1021.9	1016.1	1026.2	1029.9	1042.0	1051.0	1052.0	1054.1	1060.5	1059.4	1054.1
12.5°	1033.0	1032.0	1046.7	1055.7	1066.8	1079.5	1086.3	1088.4	1092.6	1089.5	1087.4
15°	1047.3	1052.5	1068.9	1078.9	1091.1	1100.6	1102.1	1103.2	1106.4	1101.6	1097.9
17.5°	1066.3	1069.4	1082.6	1086.8	1094.8	1096.3	1094.2	1089.0	1089.0	1078.4	1075.2
20°	1075.2	1073.7	1078.9	1072.1	1068.9	1059.4	1050.4	1040.4	1039.9	1028.8	1027.8
22.5°	1067.3	1056.8	1045.7	1028.8	1021.4	1007.7	995.6	989.8	986.1	971.8	968.1
25°	1039.4	1013.5	997.2	977.1	959.2	943.3	931.7	919.6	908.0	896.4	891.1
27.5°	990.8	966.6	940.2	912.2	887.4	863.1	843.6	831.5	820.4	805.1	797.2
30°	931.2	897.4	868.4	841.5	800.9	771.3	755.0	730.7	722.3	715.4	700.6
32.5°	861.0	820.4	780.8	744.4	702.8	675.3	653.7	635.7	630.5	612.5	608.3
35°	783.5	730.2	685.3	649.5	619.4	586.2	568.2	556.1	545.5	533.4	531.3
37.5°	692.2	644.2	593.5	561.9	538.1	509.7	495.9	487.5	482.7	473.8	472.2
40°	600.4	552.4	517.6	485.9	471.1	455.8	445.8	442.1	440.0	436.8	433.7
42.5°	517.0	474.8	450.0	428.9	422.6	415.2	412.6	414.7	412.6	411.5	411.0
45°	446.3	414.2	396.8	390.4	388.8	386.7	388.8	392.5	393.1	392.0	392.0
47.5°	382.0	366.7	359.3	360.3	363.0	364.6	368.3	373.0	374.1	371.4	372.5
50°	339.8	330.8	329.2	333.4	339.2	341.4	345.6	349.3	348.7	347.7	346.6
52.5°	300.2	297.6	301.8	306.0	312.3	313.4	315.0	316.6	316.0	313.9	312.9
55°	267.0	269.1	272.8	274.3	279.1	278.6	279.1	279.1	277.0	275.9	274.3
57.5°	236.9	237.4	239.5	240.1	242.7	241.6	241.1	240.1	236.9	236.4	234.8
60°	206.3	205.2	210.0	206.3	208.4	206.3	205.8	203.1	200.0	199.4	198.4
62.5°	177.3	175.2	178.3	176.7	177.8	175.7	174.6	171.5	168.8	168.3	167.8
65°	151.4	150.4	153.5	153.0	154.1	151.4	150.4	148.3	146.1	145.6	145.1
67.5°	129.8	132.4	134.0	134.0	135.1	134.5	131.9	131.4	130.8	128.7	128.7
70°	114.0	115.5	118.7	119.2	118.7	119.8	117.7	117.1	116.6	115.5	115.0
72.5°	101.3	103.4	106.6	107.1	106.6	106.6	105.5	105.0	105.0	103.4	103.4
75°	91.3	93.9	96.5	96.5	96.5	95.5	94.4	94.4	93.4	92.9	91.8
77.5°	82.8	86.0	88.1	87.6	87.1	86.0	86.0	84.4	82.8	82.8	81.8
80°	76.5	78.6	80.2	79.7	79.1	77.6	77.0	75.4	74.4	72.8	72.8
82.5°	69.6	72.3	73.3	72.8	71.8	70.2	69.6	68.6	67.5	67.0	65.9
85°	63.8	66.5	67.0	65.9	64.9	63.8	63.3	62.8	62.3	61.2	61.2
87.5°	58.0	60.7	60.7	60.1	59.1	58.6	58.0	57.5	57.0	56.5	55.9
90°	53.3	55.4	55.4	54.9	54.3	53.8	53.3	52.8	52.2	51.7	51.7
92.5°	48.5	50.6	50.6	50.1	49.6	49.1	49.1	48.5	48.0	47.5	47.0
95°	44.3	46.4	46.4	46.4	45.9	45.4	45.4	44.8	44.3	44.3	43.8
97.5°	40.1	42.2	42.2	42.2	41.7	41.2	41.2	40.6	40.6	40.6	40.1
100°	36.4	38.0	38.5	38.5	38.0	38.0	38.0	37.5	37.5	37.5	36.9
102.5°	32.7	34.3	35.3	35.3	35.3	34.8	34.8	34.8	34.8	34.8	34.3
105°	29.5	31.1	32.2	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
107.5°	26.9	28.5	29.5	30.1	30.6	30.6	31.1	31.1	31.1	31.1	31.1
110°	24.3	25.9	27.4	28.0	28.5	29.0	29.0	29.5	29.0	29.0	29.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	21.6	23.7	24.8	25.9	26.4	26.9	27.4	27.4	27.4	27.4	27.4
115°	19.5	21.6	22.7	23.7	24.8	25.3	25.3	25.9	25.9	25.9	25.3
117.5°	17.4	19.5	20.6	21.6	22.2	23.2	23.7	23.7	23.7	23.7	23.2
120°	15.8	17.4	18.5	19.5	20.6	21.1	21.6	21.6	21.6	21.6	21.6
122.5°	13.7	15.3	16.9	17.9	18.5	19.0	19.5	19.5	19.5	19.5	19.5
125°	12.1	13.7	14.8	15.8	16.4	17.4	17.4	17.4	17.4	17.4	17.4
127.5°	10.6	12.1	13.2	14.2	14.8	15.3	15.8	15.8	15.8	15.8	15.8
130°	9.0	10.6	11.6	12.7	13.2	13.7	13.7	14.2	14.2	14.2	14.2
132.5°	7.9	9.0	10.0	11.1	11.6	12.1	12.1	12.7	12.7	12.7	12.7
135°	6.3	7.9	8.4	9.5	10.0	10.6	10.6	11.1	11.1	11.1	11.1
137.5°	5.3	6.3	7.4	8.4	9.0	9.0	9.5	9.5	10.0	10.0	10.0
140°	4.2	4.7	6.3	6.9	7.4	7.9	8.4	8.4	8.4	8.4	8.4
142.5°	3.2	4.2	4.7	5.8	6.3	6.9	7.4	7.4	7.4	7.4	7.4
145°	2.6	3.2	3.7	4.7	5.3	5.8	6.3	6.3	6.3	6.3	6.3
147.5°	2.1	2.6	3.2	3.7	4.2	4.7	5.3	5.3	5.3	5.3	5.3
150°	1.6	2.1	2.6	2.6	3.2	3.7	4.2	4.7	4.7	4.7	4.7
152.5°	1.6	1.6	2.1	2.1	2.6	3.2	3.7	3.7	3.7	3.7	3.7
155°	1.1	1.6	1.6	1.6	2.1	2.1	2.6	3.2	3.2	3.2	3.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-LD5-30SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4
2.5°	1021.4	1023.5	1022.5	1020.9	1020.4	1023.0	1020.4	1008.2	1013.0	1013.5	1017.2
5°	1019.8	1021.4	1020.4	1019.3	1017.7	1020.9	1017.7	1005.1	1009.8	1010.3	1014.0
7.5°	1030.4	1030.9	1030.9	1028.3	1024.1	1025.6	1021.4	1007.2	1009.8	1009.8	1012.5
10°	1056.8	1057.8	1059.4	1052.5	1047.3	1043.1	1037.2	1019.8	1019.3	1015.1	1015.1
12.5°	1091.1	1088.4	1085.8	1082.6	1078.4	1073.1	1064.7	1044.1	1037.2	1030.4	1023.5
15°	1101.1	1100.0	1099.5	1097.9	1095.3	1093.7	1087.4	1066.8	1056.8	1048.3	1036.2
17.5°	1074.7	1076.8	1083.7	1084.2	1087.4	1093.7	1092.6	1078.4	1069.4	1065.7	1051.0
20°	1027.2	1027.8	1036.2	1039.9	1053.6	1064.2	1072.1	1070.5	1068.4	1072.6	1061.5
22.5°	970.2	973.9	982.9	988.7	1001.9	1014.0	1026.7	1033.6	1044.6	1062.0	1059.9
25°	892.7	897.4	910.1	919.6	938.1	956.5	973.4	985.5	998.7	1032.0	1043.1
27.5°	799.8	807.2	823.6	833.1	858.9	877.9	902.2	925.9	944.4	982.4	1005.1
30°	702.2	708.6	726.0	739.2	761.3	787.2	817.8	851.5	882.1	920.7	949.1
32.5°	611.0	617.8	632.1	643.7	668.5	690.1	723.9	765.5	794.0	847.3	885.3
35°	531.3	537.6	547.6	557.7	578.2	600.4	629.4	670.0	706.4	761.8	809.9
37.5°	475.4	476.4	482.2	488.0	503.3	520.2	542.9	578.8	612.5	672.2	724.9
40°	435.3	435.3	438.4	440.0	446.9	456.9	471.1	499.1	527.1	572.4	636.8
42.5°	410.5	409.4	409.4	409.9	409.4	414.2	422.6	435.8	460.6	498.0	548.2
45°	392.0	389.9	388.3	384.6	382.5	382.5	383.0	387.8	402.0	426.3	466.9
47.5°	371.4	370.9	368.3	364.0	360.3	357.7	353.5	351.9	356.1	369.8	397.3
50°	347.7	345.0	342.4	339.2	335.0	332.4	324.5	325.0	321.3	327.6	341.9
52.5°	312.9	310.8	309.7	307.1	305.5	304.4	298.1	291.8	290.2	291.2	296.5
55°	274.3	275.4	271.2	273.3	272.8	268.0	265.4	260.6	259.0	258.5	261.2
57.5°	234.3	235.3	232.7	234.8	234.8	232.1	230.6	230.6	226.9	223.7	227.4
60°	197.8	195.7	197.3	200.0	200.0	198.4	197.3	197.3	194.7	193.6	196.3
62.5°	168.3	166.2	167.8	170.4	170.9	169.9	168.8	168.8	165.7	165.7	167.8
65°	145.6	146.1	145.6	147.7	147.7	148.3	147.2	146.1	142.5	144.0	143.5
67.5°	129.3	128.7	128.7	130.8	130.3	131.4	130.3	128.7	126.1	124.0	123.5
70°	115.5	115.0	115.0	116.1	116.6	116.6	116.1	115.0	111.3	109.2	107.6
72.5°	103.4	102.9	103.4	103.9	104.5	105.0	104.5	103.4	100.2	97.6	95.0
75°	92.3	91.8	93.4	93.4	93.9	93.9	94.4	93.9	91.3	88.1	84.9
77.5°	81.2	81.8	83.4	83.9	84.9	85.5	86.0	86.0	83.4	80.7	76.5
80°	72.3	73.3	74.4	74.9	76.0	77.6	78.1	78.6	76.5	73.9	69.1
82.5°	65.9	66.5	67.5	68.1	69.6	70.2	70.7	71.8	70.7	68.1	62.8
85°	60.7	61.2	62.3	62.3	63.3	64.4	64.9	65.4	64.9	62.3	57.0
87.5°	55.9	56.5	57.0	57.5	58.0	58.6	59.1	59.6	59.1	56.5	51.7
90°	51.7	51.7	52.2	52.2	52.8	53.3	54.3	54.3	53.8	51.7	47.0
92.5°	47.0	47.5	47.5	48.0	48.5	49.1	49.6	49.6	49.1	47.0	42.7
95°	43.8	43.8	44.3	44.3	44.8	44.8	45.4	45.4	44.8	42.7	38.5
97.5°	40.1	40.1	40.1	40.1	40.6	40.6	41.2	41.2	40.6	38.5	34.8
100°	36.9	36.9	36.9	36.9	36.9	37.5	37.5	37.5	36.9	34.8	31.1
102.5°	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	33.2	31.7	28.0
105°	32.7	32.7	32.7	32.2	32.2	32.2	31.7	31.7	30.1	28.5	25.3
107.5°	30.6	30.6	30.6	30.1	30.1	29.5	29.0	29.0	27.4	25.9	22.7
110°	29.0	29.0	29.0	28.5	28.0	27.4	26.9	26.4	24.8	22.7	20.0





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	27.4	27.4	26.9	26.9	26.4	25.9	24.8	24.3	22.7	20.6	17.9
115°	25.3	25.3	25.3	24.8	24.3	23.7	23.2	22.2	20.6	18.5	15.8
117.5°	23.2	23.2	23.2	22.7	22.2	21.6	21.1	20.0	18.5	16.4	14.2
120°	21.1	21.1	21.1	20.6	20.0	19.5	19.0	17.9	16.4	14.8	12.1
122.5°	19.5	19.5	19.0	18.5	17.9	17.4	16.9	15.8	14.8	12.7	10.6
125°	17.4	17.4	16.9	16.9	16.4	15.8	15.3	14.2	12.7	11.1	9.5
127.5°	15.8	15.3	15.3	15.3	14.8	14.2	13.2	12.7	11.1	9.5	7.9
130°	13.7	13.7	13.7	13.2	13.2	12.7	11.6	10.6	9.5	8.4	6.9
132.5°	12.1	12.1	12.1	12.1	11.6	11.1	10.0	9.5	8.4	6.9	5.8
135°	11.1	11.1	10.6	10.6	10.0	9.5	9.0	7.9	6.9	5.8	4.7
137.5°	9.5	9.5	9.5	9.0	9.0	8.4	7.4	6.9	6.3	5.3	4.2
140°	8.4	8.4	7.9	7.9	7.4	7.4	6.9	5.8	5.3	4.2	3.7
142.5°	7.4	7.4	6.9	6.9	6.3	6.3	5.8	5.3	4.2	3.7	2.6
145°	6.3	6.3	5.8	5.8	5.8	5.3	4.7	4.2	3.7	3.2	2.6
147.5°	5.3	5.3	5.3	4.7	4.7	4.2	4.2	3.7	3.2	2.6	2.1
150°	4.7	4.7	4.2	4.2	4.2	3.7	3.2	3.2	2.6	2.1	1.6
152.5°	3.7	3.7	3.7	3.7	3.2	3.2	2.6	2.6	2.1	1.6	1.6
155°	3.2	3.2	3.2	2.6	2.6	2.6	2.1	2.1	1.6	1.6	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-LD5-30SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4	1021.4
2.5°	1015.6	1015.1	1019.8	1019.3	1013.0	1022.5	1028.8
5°	1013.0	1012.5	1016.7	1017.7	1010.9	1020.9	1027.8
7.5°	1010.9	1010.3	1015.1	1016.7	1009.8	1018.8	1026.2
10°	1011.4	1008.8	1013.0	1014.0	1007.7	1017.2	1023.5
12.5°	1015.1	1008.8	1010.3	1010.3	1004.5	1013.0	1019.8
15°	1024.1	1010.9	1008.8	1007.2	999.8	1007.7	1014.6
17.5°	1034.1	1016.1	1008.8	1003.5	994.5	1001.4	1008.8
20°	1044.1	1021.9	1009.8	1001.4	989.2	995.6	1000.8
22.5°	1048.9	1027.2	1010.9	998.2	982.9	986.1	991.9
25°	1042.5	1025.1	1008.8	993.5	975.0	975.5	980.3
27.5°	1019.3	1014.6	1004.0	988.7	968.7	966.0	969.7
30°	979.7	992.9	993.5	982.4	961.3	956.0	957.6
32.5°	924.3	953.9	971.3	969.2	950.7	943.3	944.4
35°	860.5	897.4	935.4	948.1	934.9	929.1	927.0
37.5°	784.0	833.6	884.2	915.4	913.3	909.6	907.5
40°	699.6	759.2	819.4	868.9	884.2	884.2	885.3
42.5°	609.4	679.0	745.0	807.7	843.6	851.5	854.7
45°	522.3	592.5	664.2	736.5	784.5	809.3	818.3
47.5°	443.2	513.9	581.9	661.1	724.9	757.1	771.3
50°	375.6	428.4	500.2	578.8	648.4	688.0	715.9
52.5°	319.7	360.9	423.7	497.0	567.2	621.5	647.4
55°	272.8	300.7	354.0	417.3	484.3	540.8	570.9
57.5°	233.2	255.4	291.8	344.5	401.0	456.9	489.1
60°	198.4	213.7	238.5	280.2	328.2	376.2	407.3
62.5°	168.3	178.3	194.7	225.3	262.7	300.2	329.2
65°	145.1	149.3	158.3	177.3	205.8	234.3	259.0
67.5°	122.4	125.0	131.9	143.5	157.8	178.3	194.7
70°	105.5	105.5	106.0	112.9	120.3	133.5	145.1
72.5°	91.8	90.2	87.1	88.6	90.2	97.6	105.0
75°	80.7	77.0	71.8	69.6	68.6	69.6	73.9
77.5°	71.2	65.9	59.6	54.3	50.1	48.5	52.2
80°	63.3	57.0	49.6	42.7	35.9	32.2	33.8
82.5°	57.0	49.1	41.2	33.2	25.3	20.0	20.0
85°	50.1	42.7	34.3	25.9	17.9	11.1	10.0
87.5°	45.4	37.5	28.5	20.6	12.7	5.8	3.2
90°	40.6	32.7	24.3	16.4	9.0	2.6	0.0
92.5°	36.4	29.0	21.1	13.2	6.3	1.6	0.0
95°	32.7	25.9	17.9	11.1	5.3	1.1	0.5
97.5°	29.0	22.7	15.8	9.0	3.7	1.1	0.5
100°	26.4	20.0	13.7	7.4	3.2	0.5	0.5
102.5°	23.2	17.9	11.6	6.3	2.6	0.5	0.5
105°	20.6	15.8	10.0	5.3	2.1	0.5	0.5
107.5°	18.5	13.7	9.0	4.7	2.1	0.5	0.5
110°	16.4	12.1	7.9	4.2	1.6	0.5	0.5



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	14.8	10.6	6.9	3.7	1.1	0.5	0.5
115°	12.7	9.5	5.8	3.2	1.1	0.5	0.5
117.5°	11.1	7.9	5.3	2.6	1.1	0.5	0.5
120°	9.5	6.9	4.2	2.1	0.5	0.5	0.5
122.5°	8.4	5.8	3.7	2.1	0.5	0.5	0.5
125°	7.4	5.3	3.2	1.6	0.5	0.5	0.5
127.5°	6.3	4.2	2.6	1.1	0.5	0.5	0.5
130°	5.3	3.7	2.1	1.1	0.5	0.5	0.5
132.5°	4.2	3.2	2.1	1.1	0.5	0.5	0.5
135°	3.7	2.6	1.6	1.1	0.5	0.5	0.5
137.5°	3.2	2.1	1.1	1.1	1.1	0.5	0.5
140°	2.6	1.6	1.1	1.1	1.1	1.1	0.5
142.5°	2.1	1.6	1.1	1.1	1.1	1.1	0.5
145°	1.6	1.1	1.1	1.1	1.1	1.1	0.5
147.5°	1.6	1.1	1.1	1.1	1.1	1.1	0.5
150°	1.1	1.1	1.1	1.1	1.1	1.1	1.1
152.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1
155°	1.1	1.1	1.1	1.1	1.1	1.1	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)