

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-LN-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 (P33519)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-30SL-LN-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

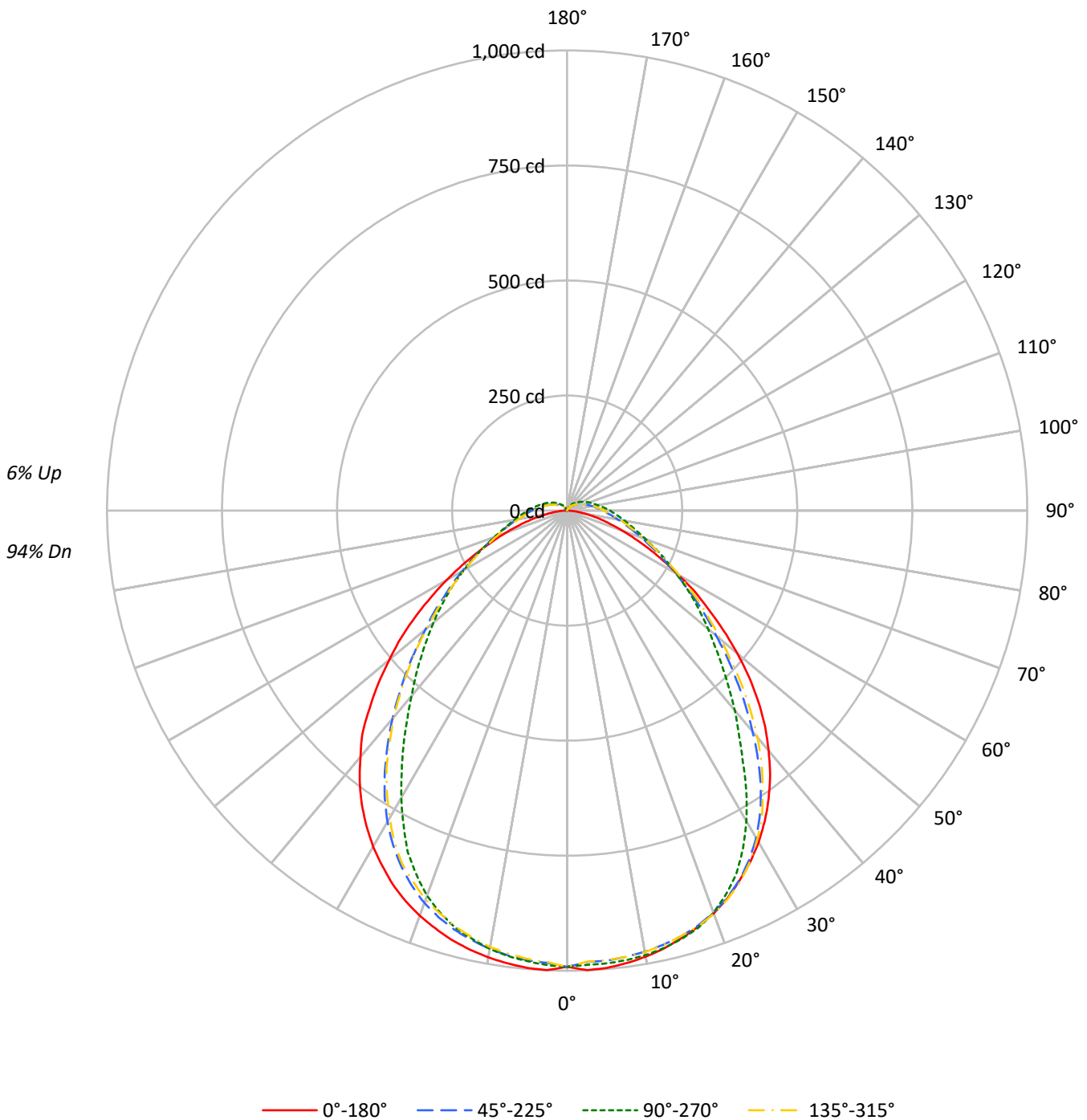
Lumens per Lamp: N/A
Luminaire Lumens: 2509.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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	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°	8012	8012	8012	8012
5°	8069	7757	8069	7722
10°	8033	7550	8046	7445
15°	7981	7325	8017	7134
20°	7920	7035	7966	6737
25°	7793	6604	7879	6215
30°	7628	5972	7728	5529
35°	7371	5197	7513	4839
40°	7001	4545	7186	4217
45°	6515	3951	6727	3725
50°	5849	3472	6107	3297
55°	5060	3066	5428	2911
60°	4256	2691	4641	2537
65°	3489	2380	3840	2207
70°	2776	2112	3109	1954
75°	2181	1951	2455	1795
80°	1573	1881	1854	1719
85°	970	1893	1305	1740



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	3.7
10°-20°	269.5	10.7
20°-30°	399.4	15.9
30°-40°	443.8	17.7
40°-50°	402.3	16.0
50°-60°	311.7	12.4
60°-70°	211.7	8.4
70°-80°	134.7	5.4
80°-90°	86.1	3.4
90°-100°	58.0	2.3
100°-110°	39.8	1.6
110°-120°	26.5	1.1
120°-130°	16.5	0.7
130°-140°	9.1	0.4
140°-150°	4.3	0.2
150°-160°	1.6	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	762.9	30.4
0°-40°	1206.7	48.1
0°-60°	1920.7	76.6
0°-90°	2353.1	93.8
90°-120°	124.3	5.0
90°-150°	154.2	6.1
90°-180°	156.0	6.2
0°-180°	2509.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	991	991	991	991	991	
5°	997	988	997	983	997	95
15°	962	964	966	938	962	272
25°	887	870	896	819	887	408
35°	764	665	778	620	764	476
45°	588	476	607	448	588	451
55°	375	334	402	317	375	338
65°	195	225	214	208	195	195
75°	78	150	88	138	78	84
85°	14	108	19	99	14	17
90°	0	93	1	85	0	1
95°	0	80	0	74	0	0
105°	0	58	0	55	0	1
115°	0	44	0	41	0	0
125°	0	33	0	29	0	0
135°	0	23	0	18	0	0
145°	0	15	0	10	0	0
155°	0	8	0	4	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#

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4
2.5°	999.6	998.5	997.4	995.8	997.4	1001.8	999.0	993.0	992.0	982.1	986.5
5°	997.4	995.8	994.7	993.0	995.2	1000.7	998.0	992.5	990.9	981.6	986.5
7.5°	992.0	990.9	989.2	989.2	991.4	996.9	994.7	988.7	987.6	978.3	983.8
10°	984.3	983.8	982.7	982.7	984.9	991.4	988.7	983.2	982.1	973.4	979.4
12.5°	974.5	975.1	973.4	973.4	976.7	983.2	981.0	975.1	974.0	966.3	972.3
15°	962.0	962.5	961.4	962.0	965.2	972.9	970.1	964.7	963.6	957.6	962.5
17.5°	947.8	948.3	948.3	947.8	951.6	959.2	957.1	952.1	950.5	945.6	951.6
20°	931.4	931.4	931.4	931.4	935.8	943.4	940.7	936.9	933.6	929.8	934.7
22.5°	911.2	910.7	911.2	912.9	917.2	923.2	921.6	917.2	912.3	910.2	914.0
25°	886.7	888.3	888.9	890.5	896.0	900.9	899.2	894.9	887.3	885.6	886.7
27.5°	861.1	862.2	863.8	863.3	870.9	875.8	872.5	868.7	857.8	856.2	855.1
30°	832.2	833.8	834.9	834.4	840.4	845.8	842.5	837.6	822.9	821.8	813.1
32.5°	799.5	801.1	802.2	802.2	810.9	813.1	807.1	800.0	784.2	780.4	772.7
35°	763.5	765.1	765.6	765.6	774.4	773.8	766.2	756.4	738.9	734.0	720.9
37.5°	724.7	725.8	726.4	729.7	733.5	730.2	720.4	707.8	694.8	681.1	666.9
40°	681.1	682.8	683.8	686.0	689.8	686.0	671.8	656.6	642.4	627.1	613.0
42.5°	636.4	641.3	640.2	639.7	641.9	631.5	620.6	603.1	589.0	573.1	559.0
45°	587.9	587.3	590.0	591.1	590.6	581.9	566.6	550.8	536.6	520.2	508.2
47.5°	536.6	536.1	538.2	539.3	536.1	526.8	514.8	496.8	484.8	470.6	461.3
50°	482.6	482.6	485.9	482.6	481.0	471.7	461.9	443.9	434.6	422.1	416.6
52.5°	428.6	433.5	430.3	429.2	427.5	418.3	410.6	395.9	388.3	382.8	376.3
55°	375.2	380.6	378.5	376.8	376.3	368.6	361.6	350.6	345.7	341.9	338.1
57.5°	329.9	329.4	328.3	326.7	327.2	321.2	314.1	308.1	305.9	304.3	305.4
60°	277.6	281.9	280.3	280.8	281.4	280.3	274.3	270.5	271.0	271.6	273.2
62.5°	234.5	238.3	241.0	238.9	239.9	241.6	238.3	237.2	239.4	241.6	243.8
65°	194.7	198.5	201.2	200.7	204.0	207.2	206.7	207.8	212.7	215.4	218.1
67.5°	158.7	162.5	166.3	166.9	171.8	176.7	178.9	182.7	188.1	192.0	195.2
70°	127.6	130.9	135.2	138.0	144.5	151.1	154.9	162.5	165.8	171.2	173.4
72.5°	99.8	102.5	108.5	115.1	120.5	128.7	136.3	142.9	147.8	153.8	156.5
75°	78.0	79.1	85.6	93.3	100.9	110.2	118.3	125.4	132.0	138.0	142.3
77.5°	57.3	58.9	64.9	75.3	84.0	93.8	103.1	110.7	117.8	123.8	129.8
80°	39.8	43.1	49.6	60.0	69.8	80.7	89.4	98.2	105.8	111.8	117.8
82.5°	25.6	28.4	37.6	48.0	58.4	69.3	78.5	87.3	95.4	102.0	107.4
85°	14.2	18.0	27.3	38.2	48.5	59.4	69.3	78.0	86.2	92.2	97.6
87.5°	5.5	10.9	19.6	30.0	40.4	50.7	61.1	69.3	77.4	84.0	88.9
90°	0.0	6.5	14.7	25.1	35.4	45.8	55.6	64.3	72.0	78.0	83.4
92.5°	0.5	4.4	11.5	20.2	30.0	39.8	49.1	57.8	65.4	71.4	76.3
95°	0.5	3.3	9.3	17.5	26.2	35.4	44.2	52.4	59.4	65.4	70.3
97.5°	0.5	2.2	7.6	15.3	22.9	32.2	40.4	48.0	54.5	60.5	64.3
100°	0.5	2.2	6.5	13.1	20.7	28.9	36.5	44.2	50.2	55.1	59.4
102.5°	0.5	1.6	5.5	11.5	18.5	25.6	33.3	40.4	45.8	50.7	55.1
105°	0.5	1.6	4.9	9.8	16.4	23.4	30.0	36.5	42.5	46.9	50.7
107.5°	0.5	1.1	4.4	8.2	14.2	21.3	27.8	33.3	38.7	43.1	46.9
110°	0.5	1.1	3.8	7.6	12.5	19.1	25.1	30.5	35.4	39.8	43.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.5	1.1	3.3	7.1	11.5	16.9	22.9	27.8	32.7	36.5	39.8
115°	0.5	1.1	3.3	6.5	10.4	14.7	20.2	25.6	29.4	33.8	36.5
117.5°	0.5	1.1	2.7	5.5	9.8	13.6	18.5	22.9	27.3	31.1	33.8
120°	0.5	1.1	2.7	4.9	8.7	12.5	16.4	20.7	25.1	27.8	30.5
122.5°	0.5	1.1	2.2	4.9	7.6	11.5	14.7	18.5	22.4	25.6	28.4
125°	0.5	1.1	2.2	4.4	7.1	10.4	13.6	16.4	20.2	22.9	25.6
127.5°	0.5	1.1	2.2	3.8	6.5	9.3	12.5	15.3	18.0	20.7	22.9
130°	0.5	1.1	1.6	3.3	6.0	8.2	10.9	14.2	16.4	18.5	20.7
132.5°	0.5	1.1	1.6	3.3	4.9	7.1	9.8	12.5	14.7	16.9	18.5
135°	0.5	1.1	1.6	2.7	4.4	6.5	8.2	10.9	13.1	15.3	16.9
137.5°	0.5	1.1	1.6	2.7	3.8	5.5	7.1	9.3	11.5	13.1	15.3
140°	0.5	1.1	1.6	2.2	3.3	4.9	6.5	7.6	9.8	11.5	13.1
142.5°	0.5	1.1	1.6	2.2	3.3	4.4	5.5	6.5	8.2	9.8	11.5
145°	0.5	1.1	1.6	2.2	2.7	3.8	4.9	6.0	6.5	8.2	9.3
147.5°	0.5	1.1	1.6	2.2	2.2	3.3	4.4	4.9	6.0	6.5	7.6
150°	0.5	1.1	1.6	1.6	2.2	2.7	3.8	4.4	4.9	6.0	6.5
152.5°	0.5	1.1	1.6	1.6	2.2	2.7	3.3	3.8	4.4	4.9	5.5
155°	0.5	1.1	1.6	1.6	1.6	2.2	2.7	3.3	3.8	4.4	4.9
157.5°	1.1	1.1	1.1	1.6	1.6	2.2	2.2	2.7	3.3	3.3	3.8
160°	1.1	1.1	1.1	1.6	1.6	1.6	2.2	2.2	2.7	2.7	3.3
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°	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4
2.5°	985.4	987.0	992.0	992.0	990.9	989.8	989.8	988.1	989.2	991.4	990.3
5°	985.4	987.0	992.0	992.0	990.9	989.8	989.2	987.6	989.2	991.4	990.3
7.5°	982.1	984.3	989.2	989.2	988.1	987.6	986.5	985.4	987.0	989.2	988.1
10°	977.8	980.0	984.9	984.9	983.8	983.8	982.1	981.0	983.2	984.9	984.3
12.5°	971.2	974.0	978.3	977.8	976.7	977.2	975.6	973.4	975.6	977.2	977.8
15°	962.0	965.2	969.6	968.5	966.9	968.0	965.2	963.6	965.2	968.5	968.0
17.5°	950.0	952.1	955.4	955.4	953.8	952.7	951.6	950.0	951.1	953.2	953.8
20°	933.1	935.8	937.4	935.8	935.2	933.6	931.4	929.8	932.0	935.2	935.8
22.5°	910.7	911.2	915.1	911.2	908.5	908.0	905.8	902.5	905.8	908.5	909.1
25°	882.9	885.6	884.0	877.4	877.4	873.1	872.0	870.3	870.9	875.8	878.0
27.5°	847.4	848.5	844.2	838.7	833.8	831.1	827.3	827.8	827.8	834.4	836.5
30°	808.7	802.7	798.9	790.2	786.4	779.8	778.7	778.7	777.6	780.9	790.7
32.5°	762.4	754.2	748.2	740.0	733.5	726.9	723.7	725.3	724.7	732.9	736.2
35°	711.7	706.7	694.2	683.8	680.0	670.2	670.2	665.3	668.6	677.8	681.7
37.5°	658.2	650.6	640.2	628.8	626.0	618.4	615.7	613.0	620.0	621.7	625.5
40°	603.7	596.6	586.8	575.9	575.9	566.6	566.6	566.6	567.1	570.4	577.5
42.5°	551.9	544.2	535.5	527.9	526.8	519.7	519.7	519.2	520.2	523.0	529.5
45°	501.7	495.7	486.4	482.6	483.2	475.5	477.2	475.5	477.7	480.4	482.6
47.5°	455.4	451.5	447.7	442.3	440.6	440.1	437.4	435.2	439.0	439.0	442.3
50°	412.3	410.1	407.9	404.6	405.2	403.0	399.7	399.7	402.5	403.0	405.2
52.5°	374.6	371.9	369.2	369.7	370.3	369.2	367.6	365.9	367.6	368.6	371.4
55°	337.0	334.8	337.6	336.5	337.6	336.5	335.4	334.3	337.0	335.4	338.1
57.5°	303.2	305.4	306.5	304.3	305.9	304.8	305.4	303.7	305.9	307.0	306.5
60°	272.1	275.4	273.8	274.3	276.5	275.4	273.2	274.8	277.0	277.6	277.0
62.5°	243.8	247.6	249.2	248.1	248.7	247.6	249.2	247.0	249.8	250.9	249.2
65°	218.1	222.5	223.6	223.6	223.6	222.5	224.1	224.7	225.8	225.8	224.7
67.5°	196.3	200.1	201.2	202.3	201.2	200.1	200.1	200.7	202.9	204.0	202.9
70°	176.7	180.5	181.0	181.0	181.6	182.7	180.5	181.6	183.2	183.8	183.2
72.5°	159.8	163.6	164.7	164.1	164.7	165.2	165.2	164.1	165.8	166.9	166.9
75°	146.1	148.3	149.4	149.4	150.0	150.5	150.5	150.0	151.1	151.6	152.1
77.5°	133.6	135.2	136.9	136.9	137.4	136.9	138.0	138.0	138.5	139.1	139.6
80°	121.1	123.2	124.3	124.9	126.0	126.5	126.5	126.5	127.1	127.6	127.6
82.5°	111.2	112.9	114.5	116.2	116.2	116.7	116.7	116.7	117.2	117.2	117.8
85°	101.4	103.6	105.2	106.3	106.9	107.4	107.4	108.0	108.0	108.0	108.5
87.5°	92.7	95.4	96.5	97.6	98.2	99.3	99.3	99.3	99.8	99.8	99.8
90°	86.7	89.4	90.5	91.6	92.2	92.7	92.7	93.3	93.3	93.8	93.8
92.5°	79.6	82.3	84.5	84.5	85.1	86.2	85.6	85.6	86.2	86.7	86.7
95°	74.2	76.3	78.0	78.5	79.1	79.1	79.1	79.6	79.1	79.6	79.6
97.5°	67.6	69.8	71.4	72.5	73.1	73.1	73.1	73.6	73.1	73.6	73.6
100°	62.2	64.3	66.0	66.5	67.6	67.6	67.6	67.6	67.6	67.6	68.2
102.5°	57.8	60.0	61.1	61.6	62.2	62.7	62.7	62.7	62.7	63.3	63.3
105°	53.4	55.6	56.7	57.3	57.8	58.4	58.4	58.4	58.9	58.9	58.4
107.5°	49.6	51.3	52.4	53.4	54.0	54.0	54.5	54.5	54.5	54.5	54.5
110°	45.8	47.4	49.1	50.2	50.2	50.7	50.7	51.3	51.3	50.7	51.3



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	42.0	44.2	45.3	46.4	46.9	47.4	47.4	47.4	47.4	47.4	47.4
115°	38.7	40.9	42.0	43.1	43.6	44.2	44.2	44.2	44.2	44.2	44.2
117.5°	36.0	38.2	39.3	39.8	40.4	40.9	41.4	41.4	41.4	41.4	40.9
120°	33.3	34.9	36.0	37.1	37.6	38.2	38.2	38.2	38.2	38.2	38.2
122.5°	30.5	32.2	33.3	34.4	34.9	35.4	35.4	35.4	35.4	35.4	35.4
125°	27.8	29.4	30.5	31.6	32.2	32.7	32.7	32.7	32.7	32.7	32.7
127.5°	25.1	26.7	28.4	28.9	29.4	30.0	30.0	30.0	30.5	30.0	30.0
130°	22.4	24.0	25.6	26.2	26.7	27.3	27.8	27.8	27.8	27.8	27.3
132.5°	20.2	21.8	22.9	23.4	24.5	24.5	25.1	25.1	25.1	25.1	24.5
135°	18.5	19.6	20.7	21.3	22.4	22.4	22.4	22.9	22.9	22.4	21.8
137.5°	16.4	17.5	18.5	19.1	19.6	20.2	20.2	20.7	20.2	20.2	20.2
140°	15.3	15.8	16.9	17.5	18.0	18.0	18.0	18.5	18.5	18.0	18.0
142.5°	13.1	14.2	15.3	15.8	16.4	16.4	16.4	16.4	16.4	16.4	16.4
145°	10.9	12.5	13.1	14.2	14.2	14.7	14.7	14.7	14.7	14.7	14.2
147.5°	9.3	10.4	12.0	12.5	12.5	13.1	13.1	13.1	13.1	13.1	12.5
150°	7.1	8.2	9.8	10.9	10.9	11.5	11.5	11.5	11.5	10.9	10.9
152.5°	6.0	7.1	7.6	8.7	9.3	9.3	9.3	9.8	9.3	9.3	9.3
155°	5.5	6.0	6.5	7.1	7.6	8.2	8.2	8.2	8.2	7.6	7.6
157.5°	4.4	4.9	5.5	6.0	6.5	7.1	7.1	7.1	7.1	7.1	6.5
160°	3.3	3.8	4.4	4.4	4.9	5.5	6.0	5.5	5.5	5.5	5.5
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-LD5-30SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4
2.5°	989.2	988.7	990.3	987.6	979.4	981.6	980.5	985.4	986.5	987.6	992.5
5°	989.2	988.7	989.8	987.6	978.9	980.5	979.4	984.3	985.4	986.0	990.9
7.5°	987.0	986.5	988.1	985.4	976.1	978.3	976.7	981.6	982.1	982.7	987.0
10°	982.7	982.1	983.2	981.0	971.8	974.0	971.8	976.7	976.7	977.8	981.0
12.5°	976.1	975.1	977.2	974.5	964.1	966.9	965.8	969.1	969.6	970.1	973.4
15°	966.9	965.8	967.4	965.8	956.5	957.1	955.4	960.3	960.9	959.8	963.1
17.5°	953.2	952.1	955.4	954.3	945.1	947.2	946.7	947.8	949.4	946.7	951.1
20°	936.3	937.4	938.5	939.1	932.0	932.0	931.4	933.6	935.2	933.1	936.3
22.5°	911.2	914.0	917.2	918.3	913.4	912.9	916.2	915.1	916.7	915.6	917.8
25°	879.6	885.1	888.3	891.6	888.9	890.0	894.9	896.0	896.0	895.4	897.6
27.5°	840.4	847.4	853.4	860.5	857.8	860.0	868.2	869.3	871.4	869.3	873.6
30°	793.5	800.0	811.5	821.8	822.9	826.2	837.6	838.7	844.7	842.5	844.2
32.5°	746.6	749.8	762.9	773.3	779.8	788.0	800.5	802.7	810.9	812.5	812.5
35°	687.7	696.9	708.9	723.7	731.8	740.6	757.5	760.7	772.7	776.6	780.9
37.5°	638.0	646.8	654.4	669.7	684.4	694.2	707.8	716.0	728.6	735.7	741.1
40°	585.1	592.2	600.4	615.7	628.2	642.9	656.6	666.4	682.2	690.4	697.5
42.5°	535.0	540.4	549.1	560.1	573.1	589.5	602.6	614.0	630.9	642.4	650.6
45°	490.3	493.5	501.2	509.3	520.8	537.7	550.2	565.0	578.6	590.6	600.4
47.5°	448.3	452.6	456.4	461.9	472.3	482.6	497.3	511.5	525.2	538.2	548.1
50°	409.5	409.5	415.5	419.4	426.4	435.7	447.2	457.0	473.9	483.2	495.7
52.5°	371.9	374.1	377.4	379.6	385.0	391.0	400.3	408.5	422.6	431.4	443.4
55°	338.7	340.8	342.5	343.6	346.8	353.9	357.2	363.7	373.6	380.6	391.0
57.5°	307.0	308.1	309.7	310.3	310.8	315.2	317.9	319.6	329.4	336.5	345.2
60°	278.1	278.1	279.8	279.2	278.7	280.8	280.3	281.9	287.9	292.3	296.1
62.5°	250.9	250.9	251.4	250.3	249.8	249.8	247.6	249.2	250.9	251.4	254.1
65°	225.8	228.5	226.3	226.9	223.6	222.5	221.4	218.1	217.6	215.4	216.5
67.5°	203.4	205.6	203.4	203.4	200.7	198.5	195.8	190.3	188.7	184.3	183.2
70°	185.4	183.8	184.9	183.2	180.0	177.2	173.4	169.1	163.6	158.1	154.3
72.5°	168.0	168.0	166.9	165.2	163.6	158.1	153.8	148.9	142.3	135.2	129.8
75°	151.1	151.6	151.6	150.0	147.2	142.3	137.4	130.3	123.2	115.1	108.0
77.5°	139.1	139.1	139.1	136.3	133.6	129.2	123.2	115.6	108.0	98.2	90.0
80°	127.6	127.1	127.1	123.8	121.1	116.2	110.2	102.5	94.3	84.0	74.7
82.5°	118.3	117.8	116.7	114.0	110.2	105.2	99.3	91.1	82.3	73.1	61.6
85°	108.5	108.0	106.9	104.2	100.3	96.0	89.4	81.3	72.5	62.2	51.3
87.5°	99.8	99.3	97.6	96.0	91.6	86.7	80.2	72.5	63.3	53.4	42.5
90°	93.8	92.7	91.6	89.4	85.6	80.2	73.6	65.4	56.2	46.4	35.4
92.5°	86.7	86.2	84.5	82.3	79.1	73.6	67.1	59.4	50.2	40.9	30.5
95°	79.6	79.1	78.0	75.8	72.5	67.6	61.6	54.0	45.3	36.0	26.7
97.5°	73.1	73.1	71.4	69.8	66.0	62.2	56.2	49.1	40.9	32.7	24.0
100°	67.6	67.6	66.0	63.8	61.1	57.3	51.3	44.7	37.1	29.4	20.7
102.5°	62.7	62.2	61.1	58.9	56.2	52.4	46.9	40.9	33.8	26.2	18.5
105°	58.4	57.8	56.7	54.5	52.4	48.0	43.6	37.6	30.5	23.4	16.4
107.5°	54.0	53.4	52.9	50.7	48.0	44.2	39.8	33.8	27.8	21.3	14.7
110°	50.2	49.6	48.5	46.4	43.6	40.4	36.0	31.1	25.1	19.1	13.1



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	46.9	46.4	45.3	43.1	40.9	37.1	33.3	27.8	22.9	17.5	11.5
115°	43.6	43.1	42.0	39.8	37.1	33.8	30.0	25.6	20.2	15.3	10.4
117.5°	40.4	39.8	38.7	37.1	34.4	31.1	27.3	22.9	18.0	14.2	9.3
120°	37.6	36.5	35.4	33.8	31.1	28.4	24.5	20.7	16.4	12.5	8.2
122.5°	34.9	33.8	32.7	31.1	28.4	25.6	21.8	18.5	15.3	11.5	7.6
125°	31.6	31.1	30.0	28.4	25.6	22.9	20.2	16.9	13.6	10.4	6.5
127.5°	28.9	28.4	27.3	25.1	22.9	20.7	18.0	15.3	12.0	8.7	6.0
130°	26.7	25.6	24.5	22.9	21.3	19.1	16.4	13.6	10.9	7.6	5.5
132.5°	24.0	22.9	21.8	20.7	19.1	16.9	14.7	12.0	9.8	7.1	4.9
135°	21.8	20.7	19.6	18.5	16.9	15.3	13.1	10.9	8.7	6.5	4.4
137.5°	19.1	18.5	18.0	16.9	15.3	13.6	12.0	9.3	7.6	6.0	3.8
140°	17.5	16.9	16.4	14.7	13.6	12.0	10.4	8.2	6.5	4.9	3.3
142.5°	15.8	15.3	14.2	13.1	12.0	10.9	8.7	7.6	6.0	4.4	3.3
145°	13.6	13.1	12.5	11.5	10.4	8.7	7.6	6.5	5.5	3.8	2.7
147.5°	12.5	12.0	10.9	9.8	8.7	7.6	7.1	6.0	4.4	3.3	2.2
150°	10.4	9.8	9.3	8.2	7.6	7.1	6.0	4.9	3.8	2.7	2.2
152.5°	8.7	8.2	7.6	7.6	6.5	6.0	4.9	4.4	3.3	2.7	1.6
155°	7.6	7.6	7.1	6.5	5.5	4.9	4.4	3.3	2.7	2.2	1.6
157.5°	6.5	6.0	5.5	5.5	4.9	4.4	3.3	2.7	2.2	2.2	1.6
160°	5.5	4.9	4.9	4.4	3.8	3.3	2.7	2.7	2.2	1.6	1.6
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-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4
2.5°	993.0	987.0	992.5	999.6	999.6	998.5	997.4	999.6	1005.0	1002.9	996.3
5°	991.4	985.4	990.3	997.4	997.4	995.8	994.7	996.3	1002.3	999.6	993.6
7.5°	988.1	982.7	986.0	992.5	992.5	990.9	989.8	992.0	996.9	994.1	987.6
10°	982.1	976.1	980.0	986.0	985.4	984.3	982.7	985.4	989.8	986.0	978.3
12.5°	974.5	968.5	971.8	977.2	976.7	974.5	973.4	975.1	978.9	976.7	968.5
15°	964.1	958.1	960.9	966.3	964.7	963.1	960.9	961.4	966.3	962.5	953.8
17.5°	951.6	945.1	947.2	952.1	950.5	948.9	946.1	946.7	952.1	946.7	937.4
20°	936.3	929.2	930.9	936.9	934.2	931.4	928.7	928.7	934.2	928.2	917.8
22.5°	920.0	912.9	914.0	918.3	916.2	911.2	908.5	910.2	912.9	905.2	894.3
25°	899.8	890.5	892.2	896.5	894.9	888.3	885.6	886.7	885.6	879.6	868.2
27.5°	876.3	866.5	867.6	870.3	868.2	862.2	858.9	859.4	857.3	849.6	836.5
30°	846.9	842.0	841.4	843.1	839.8	833.8	830.0	828.9	828.4	817.5	801.6
32.5°	816.9	812.5	809.8	812.0	808.2	802.2	795.6	795.6	790.2	779.8	766.2
35°	786.4	779.3	776.6	778.2	773.8	766.2	760.7	758.0	749.8	736.7	722.0
37.5°	747.1	742.2	738.9	740.6	735.7	730.2	719.8	717.1	708.4	690.4	671.8
40°	704.6	700.7	697.5	699.1	693.7	685.5	676.2	671.8	662.0	641.9	627.1
42.5°	658.8	657.1	653.3	659.3	648.4	640.2	630.9	623.9	614.0	592.2	575.3
45°	610.2	614.0	605.3	607.0	599.9	592.8	583.0	572.6	562.8	542.1	523.0
47.5°	559.0	561.7	555.7	556.8	549.1	542.6	533.9	520.8	509.9	491.9	475.0
50°	506.1	505.0	505.0	503.9	497.9	489.7	481.0	469.0	458.1	441.7	427.5
52.5°	449.9	452.1	453.2	455.9	448.3	443.4	429.7	419.4	411.2	394.3	382.3
55°	395.9	403.5	401.4	402.5	393.7	389.9	379.0	370.8	358.8	349.0	341.4
57.5°	346.8	348.5	349.6	351.2	347.4	339.7	331.0	324.5	315.2	307.0	301.6
60°	299.4	299.4	299.9	302.7	298.8	292.3	285.8	280.8	274.3	269.4	266.1
62.5°	254.7	258.5	259.0	256.9	251.9	248.7	244.3	241.6	237.2	235.6	234.5
65°	213.2	213.2	213.2	214.3	211.6	209.4	206.7	206.1	207.8	205.6	206.7
67.5°	178.3	176.7	175.6	176.1	175.1	174.0	173.4	175.1	178.3	178.3	181.0
70°	148.3	145.1	142.9	142.9	142.9	143.4	145.1	148.3	153.8	156.0	159.8
72.5°	123.8	116.7	113.4	113.4	114.0	116.2	121.1	127.1	132.0	136.3	141.2
75°	100.3	93.3	88.3	87.8	88.9	92.2	99.3	104.7	112.9	118.9	124.9
77.5°	81.3	72.5	66.5	66.0	67.6	72.5	81.3	88.3	97.6	104.2	110.7
80°	64.9	55.1	50.2	46.9	49.6	55.6	65.4	74.2	82.9	91.6	99.8
82.5°	51.8	42.5	34.9	31.6	34.9	43.1	52.4	62.7	71.4	80.7	88.9
85°	40.9	31.1	22.4	19.1	22.9	31.6	42.0	52.4	62.2	71.4	79.6
87.5°	32.2	22.4	13.6	9.3	14.2	23.4	33.3	43.6	54.0	63.3	71.4
90°	25.1	15.8	7.6	1.1	8.2	16.9	26.7	36.5	46.9	56.2	64.3
92.5°	21.3	12.0	4.4	0.0	4.9	12.5	21.8	31.6	40.9	50.2	58.4
95°	18.0	9.8	3.3	0.0	3.3	9.8	18.0	26.7	36.0	45.3	53.4
97.5°	15.3	7.6	2.2	0.0	2.2	7.6	14.7	23.4	31.6	40.4	48.0
100°	13.1	6.5	1.6	0.0	1.6	6.0	12.5	20.2	28.4	36.5	43.6
102.5°	11.5	5.5	1.1	0.0	1.1	4.9	10.4	17.5	24.5	32.2	39.3
105°	9.8	4.4	1.1	0.0	0.5	3.8	8.7	15.3	21.8	28.9	35.4
107.5°	8.7	3.8	1.1	0.0	0.5	3.3	7.6	13.1	19.6	25.6	31.6
110°	7.6	3.3	1.1	0.0	0.5	2.2	6.5	11.5	16.9	22.9	28.9



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	6.5	2.7	0.5	0.0	0.0	1.6	5.5	9.8	14.7	20.7	25.6
115°	6.0	2.7	0.5	0.0	0.0	1.1	4.4	8.7	13.1	18.5	22.9
117.5°	5.5	2.2	0.5	0.0	0.5	1.1	3.8	7.6	11.5	15.8	20.7
120°	4.9	2.2	0.5	0.0	0.5	0.5	2.7	6.5	9.8	14.2	18.0
122.5°	4.4	2.2	0.5	0.0	0.5	0.5	2.2	5.5	8.7	12.5	15.8
125°	3.8	1.6	1.1	0.5	0.5	0.5	1.6	4.4	7.6	10.4	14.2
127.5°	3.8	1.6	1.1	0.5	0.5	0.5	1.1	3.8	6.0	9.3	12.5
130°	3.3	1.6	1.1	0.5	0.5	0.5	0.5	2.7	5.5	7.6	10.4
132.5°	2.7	1.6	1.1	0.5	0.5	0.5	0.5	1.6	3.8	6.5	8.7
135°	2.7	1.6	1.1	0.5	0.5	0.5	0.5	1.1	2.7	4.9	7.1
137.5°	2.2	1.1	1.1	0.5	0.5	0.5	0.5	0.5	2.2	3.8	5.5
140°	2.2	1.1	1.1	0.5	0.5	0.5	0.5	0.5	1.6	2.7	4.4
142.5°	1.6	1.1	1.1	0.5	0.5	0.5	0.5	0.5	1.1	2.2	3.3
145°	1.6	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	1.1	2.2
147.5°	1.6	1.6	1.1	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.6
150°	1.6	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1
152.5°	1.6	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1
155°	1.6	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1
157.5°	1.6	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1
160°	1.6	1.1	1.1	0.5	1.1	0.5	1.1	1.1	1.1	1.1	1.1
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-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4
2.5°	994.1	983.8	989.2	987.6	989.8	994.1	993.6	992.5	992.5	990.9	988.7
5°	990.9	981.0	986.0	983.2	986.0	989.8	989.2	987.6	988.7	986.0	983.2
7.5°	984.3	975.6	980.0	977.8	980.0	983.8	982.1	981.6	982.7	978.3	976.7
10°	976.7	966.9	971.8	969.1	971.8	974.5	973.4	971.2	973.4	969.1	967.4
12.5°	964.7	956.5	959.8	958.7	960.3	963.1	960.9	959.2	960.3	956.5	953.2
15°	951.6	943.4	946.1	944.5	945.6	948.9	945.1	944.5	943.4	939.6	938.5
17.5°	934.7	927.1	929.8	927.1	928.7	927.6	927.1	924.3	924.3	920.0	916.7
20°	914.0	907.4	905.8	903.6	905.8	903.6	900.3	898.2	897.6	893.3	890.5
22.5°	890.0	882.3	883.4	877.4	878.0	874.7	869.3	867.1	864.9	860.0	856.2
25°	861.1	853.4	848.0	844.2	839.3	838.7	831.6	826.2	825.6	819.6	819.1
27.5°	828.4	819.6	815.3	806.0	800.0	795.1	789.1	783.6	780.9	774.4	770.0
30°	790.7	780.9	770.0	763.5	754.2	750.4	740.0	733.5	731.3	724.2	720.9
32.5°	748.2	737.8	729.1	716.6	706.2	700.7	690.4	683.8	681.1	673.5	669.1
35°	701.8	690.4	680.0	668.0	659.8	650.6	638.0	631.5	625.5	622.8	619.5
37.5°	653.3	640.8	628.8	616.8	609.7	598.8	587.9	583.5	576.4	573.7	570.4
40°	603.1	590.6	579.1	567.7	559.5	549.7	539.9	538.2	530.6	527.9	525.7
42.5°	553.5	540.4	527.3	519.2	513.2	503.3	496.8	495.2	488.6	487.0	487.0
45°	508.8	492.4	481.5	474.4	469.5	461.3	455.9	454.8	449.4	448.3	448.3
47.5°	460.8	445.5	437.4	433.0	428.6	422.6	419.4	419.4	413.9	412.8	412.3
50°	416.1	401.9	395.9	391.5	391.0	386.6	383.9	382.8	382.8	379.0	379.6
52.5°	373.6	366.5	361.6	358.8	355.6	352.8	350.6	350.6	349.0	346.3	347.4
55°	334.3	326.1	326.7	324.5	322.8	321.2	321.7	318.5	317.9	315.7	317.4
57.5°	295.0	295.0	293.9	292.3	289.6	290.7	290.7	290.7	287.9	286.3	287.9
60°	261.8	263.4	260.7	262.3	261.2	261.8	260.7	260.7	259.0	258.5	259.0
62.5°	232.3	235.0	233.9	236.1	235.0	235.6	236.7	234.5	233.4	232.3	233.4
65°	206.1	209.4	208.9	210.5	211.0	211.6	212.1	211.0	210.0	208.9	208.3
67.5°	183.2	186.5	188.7	189.2	189.8	191.4	190.9	189.8	188.7	187.0	186.5
70°	162.5	166.9	169.6	170.7	172.9	171.8	171.8	171.2	170.1	168.5	168.0
72.5°	145.1	150.0	152.7	153.8	156.0	156.0	155.4	154.9	153.8	152.1	151.6
75°	129.8	134.2	138.0	140.1	141.8	141.8	141.2	140.7	139.6	138.5	138.0
77.5°	117.8	121.6	124.9	127.6	128.7	129.2	128.7	127.6	127.6	127.1	126.5
80°	105.8	110.2	113.4	116.2	117.8	117.8	117.2	117.8	116.7	116.2	115.6
82.5°	95.4	100.3	104.2	106.9	108.0	108.5	108.0	108.5	107.4	107.4	107.4
85°	86.2	91.1	95.4	97.6	99.3	99.8	99.8	99.8	99.3	99.3	99.3
87.5°	78.5	83.4	87.8	90.0	91.6	92.2	92.2	92.7	91.6	91.6	91.6
90°	71.4	76.3	80.7	82.9	84.5	85.6	85.6	86.2	85.6	85.1	85.1
92.5°	64.9	70.3	74.7	76.9	78.5	80.2	80.2	80.7	79.6	79.6	79.6
95°	59.4	64.9	68.7	71.4	73.1	74.2	74.7	74.7	74.2	74.2	74.2
97.5°	54.5	59.4	63.3	66.0	67.6	68.2	68.7	69.3	68.7	68.7	68.7
100°	49.6	54.5	58.4	60.5	62.7	63.3	63.8	64.3	64.3	63.8	63.8
102.5°	45.3	50.2	53.4	56.2	57.8	58.9	59.4	59.4	59.4	59.4	59.4
105°	40.9	45.8	49.1	51.8	53.4	54.5	55.1	55.6	55.6	55.1	55.1
107.5°	37.1	41.4	45.3	47.4	49.6	50.7	51.3	51.3	51.8	51.3	51.3
110°	33.3	38.2	41.4	43.6	45.8	46.9	47.4	48.0	48.0	48.0	48.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	30.5	34.4	37.6	39.8	42.0	43.1	43.6	44.2	44.7	44.2	44.2
115°	27.3	31.1	34.4	36.5	38.2	39.3	40.4	40.9	40.9	41.4	40.9
117.5°	24.5	27.8	31.1	33.3	34.9	36.5	37.1	37.6	38.2	37.6	37.6
120°	21.8	25.1	27.8	30.0	31.6	33.3	33.8	34.4	34.9	34.4	34.4
122.5°	19.6	22.4	25.1	27.3	28.9	30.0	31.1	31.1	31.6	31.6	31.6
125°	17.5	20.2	22.4	24.5	26.2	27.3	27.8	28.4	28.4	28.9	28.9
127.5°	15.3	17.5	20.2	21.8	23.4	24.5	25.1	25.6	25.6	26.2	26.2
130°	13.1	15.3	17.5	19.1	20.7	21.8	22.4	22.9	23.4	23.4	23.4
132.5°	11.5	13.6	15.3	16.9	18.0	19.1	20.2	20.7	20.7	20.7	20.7
135°	9.3	11.5	13.1	14.7	15.8	16.9	17.5	18.5	18.5	18.5	18.5
137.5°	7.6	9.8	11.5	12.5	13.6	14.7	15.3	15.8	16.4	16.4	16.4
140°	6.0	7.6	9.3	10.9	12.0	12.5	13.6	13.6	14.2	14.2	14.2
142.5°	4.4	6.0	7.1	8.7	9.8	10.9	11.5	12.0	12.0	12.0	12.0
145°	3.3	4.4	5.5	6.5	8.2	8.7	9.3	9.8	10.4	10.4	10.4
147.5°	2.2	3.3	3.8	4.9	6.0	7.1	7.6	8.2	8.7	8.7	8.7
150°	1.6	2.2	3.3	3.8	4.4	5.5	6.5	6.5	7.1	7.1	6.5
152.5°	1.1	1.6	2.2	2.7	3.3	3.8	4.9	4.9	5.5	5.5	5.5
155°	1.1	1.1	1.1	1.6	2.2	2.7	3.3	3.8	3.8	3.8	3.8
157.5°	1.1	1.1	1.1	1.1	1.1	1.6	2.2	2.7	2.7	2.7	2.7
160°	1.1	1.1	0.5	0.5	1.1	1.1	1.1	1.1	1.6	1.6	1.6
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-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4
2.5°	990.3	991.4	991.4	990.3	989.8	992.0	989.2	978.9	982.1	983.2	986.5
5°	985.4	986.5	986.5	986.5	985.4	987.6	984.9	974.5	978.3	980.0	982.1
7.5°	978.3	978.9	980.0	979.4	978.3	981.6	978.9	968.5	971.2	974.0	976.7
10°	969.1	969.1	969.6	970.7	969.6	972.3	969.6	960.3	963.1	964.7	968.0
12.5°	956.5	957.6	958.1	957.6	957.1	959.2	958.1	949.4	950.5	953.8	957.1
15°	939.6	939.6	942.3	941.2	941.2	943.4	944.5	934.7	936.3	941.2	944.5
17.5°	918.9	919.4	921.6	922.7	922.2	926.0	926.5	918.9	918.3	924.3	927.6
20°	892.2	893.3	896.0	898.2	898.2	902.5	904.2	899.2	899.8	906.3	907.4
22.5°	859.4	859.4	864.3	867.6	870.3	873.1	878.0	873.6	873.6	882.3	887.3
25°	819.1	822.9	824.5	831.1	834.9	842.5	846.9	847.4	848.0	856.2	859.4
27.5°	774.4	775.5	780.4	788.0	792.4	799.5	807.6	809.3	812.0	822.9	827.8
30°	723.7	726.9	729.1	740.0	746.0	755.3	765.6	769.5	771.6	786.4	792.4
32.5°	671.8	672.9	682.2	688.2	695.3	705.1	717.1	724.2	728.6	743.8	752.6
35°	620.0	622.2	629.9	637.5	644.6	654.4	666.9	676.8	684.4	698.0	709.5
37.5°	572.6	578.1	579.7	587.3	592.8	602.6	611.3	625.5	633.1	647.3	662.0
40°	530.1	531.7	532.8	540.4	544.2	553.5	566.1	575.3	585.7	596.0	613.5
42.5°	488.1	489.2	490.8	495.2	499.5	506.1	515.3	524.6	535.5	550.8	562.2
45°	449.4	450.4	451.5	454.3	458.1	464.1	470.1	476.6	487.5	500.6	512.6
47.5°	413.4	415.5	415.5	416.1	418.8	423.7	428.1	436.3	442.3	449.4	463.0
50°	379.0	380.6	381.2	381.2	382.8	386.1	387.2	392.6	398.1	404.6	414.5
52.5°	346.8	346.8	346.3	348.5	348.5	350.6	351.2	354.5	358.3	365.4	369.7
55°	316.3	316.3	317.9	316.8	316.8	317.9	317.4	317.9	321.2	325.6	329.4
57.5°	286.8	286.3	287.9	286.8	286.3	287.4	288.5	286.3	286.8	291.2	291.2
60°	257.4	257.9	259.6	258.5	258.5	258.5	257.4	256.3	255.2	257.9	259.0
62.5°	233.9	232.3	233.9	232.3	233.4	232.9	231.8	229.6	230.1	229.0	227.9
65°	209.4	209.4	210.0	208.3	209.4	209.4	207.8	207.2	204.0	202.9	200.1
67.5°	188.1	188.1	188.7	187.6	187.6	188.1	186.5	184.9	181.6	180.0	176.1
70°	169.6	169.6	169.6	169.1	169.1	169.1	168.0	165.8	162.5	159.8	154.9
72.5°	152.7	153.2	152.7	152.7	154.3	152.7	151.1	148.9	146.1	140.7	136.3
75°	139.1	139.6	139.1	139.1	139.1	138.5	138.0	134.7	131.4	127.1	120.5
77.5°	127.1	127.1	127.6	127.1	127.1	126.5	124.9	122.2	118.3	114.5	106.9
80°	115.6	116.2	116.7	117.2	116.2	115.6	114.0	111.8	106.9	102.5	94.9
82.5°	107.4	106.9	107.4	108.0	106.9	106.3	104.7	102.0	98.2	92.2	84.5
85°	99.3	98.7	98.7	99.3	98.7	97.6	96.0	93.3	89.4	83.4	75.8
87.5°	91.1	91.6	92.2	91.6	91.1	90.0	88.3	85.6	81.3	76.3	68.2
90°	85.1	85.1	85.1	85.1	84.5	83.4	81.8	78.5	74.7	68.7	61.6
92.5°	79.6	79.6	79.6	79.6	79.1	77.4	75.8	73.1	68.7	62.7	56.2
95°	74.2	74.7	74.2	74.2	73.1	72.5	69.8	67.1	63.3	57.3	50.2
97.5°	68.2	68.7	68.2	68.2	67.6	66.5	64.9	61.6	57.8	52.4	45.8
100°	63.8	63.8	63.3	63.3	62.7	61.6	59.4	56.7	52.9	47.4	40.9
102.5°	58.9	59.4	58.9	58.9	57.8	56.7	55.1	52.4	48.5	43.1	37.1
105°	55.1	55.1	54.5	54.5	53.4	52.4	50.7	47.4	44.2	39.3	33.3
107.5°	51.3	51.3	50.7	50.7	49.6	48.5	46.4	43.6	40.4	35.4	30.0
110°	47.4	47.4	47.4	46.9	45.8	44.2	42.5	39.8	36.5	32.2	26.7



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	44.7	44.2	43.6	43.1	42.0	40.9	38.7	36.0	32.7	28.9	24.0
115°	40.9	40.9	40.4	39.8	38.7	37.1	35.4	33.3	30.0	25.6	21.3
117.5°	37.6	37.6	37.1	36.5	35.4	33.8	32.2	30.0	26.7	22.9	19.1
120°	34.4	34.4	33.8	33.3	32.2	30.5	29.4	26.7	24.0	20.2	16.9
122.5°	31.6	31.1	31.1	30.0	29.4	27.8	26.2	24.0	21.3	18.0	14.7
125°	28.4	28.4	27.8	27.3	26.7	25.1	23.4	21.3	18.5	15.8	13.1
127.5°	25.6	25.6	25.1	24.5	24.0	22.4	20.7	19.1	16.4	13.6	10.9
130°	22.9	22.9	22.4	21.8	21.3	19.6	18.5	16.4	14.2	12.0	9.3
132.5°	20.7	20.7	20.2	19.6	18.5	17.5	16.4	14.2	12.5	10.4	8.2
135°	18.5	18.0	18.0	17.5	16.4	15.3	14.2	12.5	10.4	8.7	6.5
137.5°	16.4	15.8	15.3	14.7	14.2	13.1	12.0	10.9	9.3	7.1	5.5
140°	14.2	13.6	13.6	13.1	12.0	11.5	10.4	8.7	7.6	6.0	4.4
142.5°	12.0	12.0	11.5	10.9	10.4	9.8	8.7	7.6	6.0	4.9	3.3
145°	10.4	9.8	9.8	9.3	8.7	7.6	7.1	6.0	4.9	3.8	2.7
147.5°	8.2	8.2	8.2	7.6	7.1	6.5	6.0	4.9	3.8	2.7	1.6
150°	6.5	6.5	6.5	6.0	5.5	4.9	4.4	3.8	2.7	1.6	1.1
152.5°	5.5	5.5	4.9	4.9	4.4	3.8	3.3	2.7	1.6	1.1	1.1
155°	3.8	3.8	3.8	3.3	3.3	2.7	2.2	1.6	1.1	1.1	1.1
157.5°	2.7	2.7	2.7	2.2	2.2	1.6	1.6	1.1	1.1	1.1	1.1
160°	1.6	1.6	1.6	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	991.4	991.4	991.4	991.4	991.4	991.4	991.4
2.5°	984.9	984.3	988.7	988.7	983.8	991.4	999.6
5°	981.6	981.0	985.4	985.4	981.0	988.7	997.4
7.5°	975.1	975.6	980.0	981.0	975.6	982.7	992.0
10°	968.0	967.4	972.3	973.4	969.1	975.6	984.3
12.5°	956.5	956.5	961.4	963.1	958.7	966.3	974.5
15°	944.5	944.5	947.8	950.5	946.7	953.8	962.0
17.5°	929.2	928.7	932.0	935.2	931.4	939.1	947.8
20°	909.6	909.6	913.4	917.2	914.5	921.6	931.4
22.5°	888.9	886.7	893.3	896.0	894.3	901.4	911.2
25°	862.7	862.2	868.7	872.5	870.3	878.0	886.7
27.5°	834.4	833.8	840.4	845.3	844.2	851.3	861.1
30°	800.0	802.7	808.7	816.9	814.2	821.8	832.2
32.5°	764.0	766.7	773.8	782.5	783.1	789.1	799.5
35°	720.9	728.0	732.9	744.4	746.6	752.6	763.5
37.5°	675.7	683.8	694.2	702.9	707.3	712.2	724.7
40°	624.9	636.9	648.4	658.8	664.2	669.1	681.1
42.5°	579.1	588.4	599.3	609.7	619.5	623.9	636.4
45°	527.3	538.2	548.1	560.6	570.4	575.3	587.9
47.5°	476.6	487.5	500.6	509.3	519.7	524.6	536.6
50°	428.1	437.9	448.8	459.2	467.9	472.3	482.6
52.5°	380.1	390.5	400.8	407.4	416.6	419.9	428.6
55°	337.6	344.6	353.9	357.7	367.0	369.2	375.2
57.5°	296.7	301.6	304.8	311.4	317.9	322.8	329.9
60°	259.6	261.8	263.9	267.8	273.2	274.8	277.6
62.5°	226.3	225.8	230.1	231.2	231.8	237.2	234.5
65°	196.9	197.4	193.6	192.0	194.1	195.8	194.7
67.5°	172.3	169.1	165.8	162.0	158.7	160.3	158.7
70°	148.3	145.6	140.1	134.7	132.5	129.2	127.6
72.5°	129.2	122.7	117.2	110.2	106.3	102.5	99.8
75°	114.5	105.2	97.6	90.0	84.5	79.1	78.0
77.5°	99.3	90.5	81.8	73.6	65.4	59.4	57.3
80°	87.3	79.1	68.7	58.9	50.2	42.5	39.8
82.5°	76.3	67.6	57.3	46.9	37.1	28.9	25.6
85°	67.1	57.8	47.4	37.1	27.3	18.5	14.2
87.5°	60.0	49.6	39.3	29.4	19.1	10.4	5.5
90°	53.4	43.6	33.8	23.4	13.6	5.5	0.0
92.5°	47.4	38.2	28.4	19.1	10.4	3.3	0.5
95°	42.0	33.8	24.0	15.3	7.6	2.2	0.5
97.5°	37.6	29.4	20.7	12.5	6.0	1.6	0.5
100°	33.8	25.6	18.0	10.4	4.9	1.1	0.5
102.5°	30.0	22.9	15.3	8.7	3.8	0.5	0.5
105°	26.7	20.2	13.1	7.6	3.3	0.5	0.5
107.5°	24.0	18.0	11.5	6.5	2.2	0.5	0.5
110°	21.3	15.3	9.8	5.5	1.6	0.5	0.5



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	19.1	13.6	8.7	4.4	1.1	0.5	0.5
115°	16.9	12.0	7.6	3.8	1.1	0.5	0.5
117.5°	14.7	10.4	6.5	2.7	0.5	0.5	0.5
120°	13.1	9.3	5.5	2.2	0.5	0.5	0.5
122.5°	11.5	7.6	4.4	1.6	0.5	0.5	0.5
125°	9.8	6.5	3.8	1.1	0.5	0.5	0.5
127.5°	8.2	5.5	2.7	1.1	0.5	0.5	0.5
130°	7.1	4.4	2.2	0.5	0.5	0.5	0.5
132.5°	6.0	3.3	1.6	0.5	0.5	0.5	0.5
135°	4.9	2.7	1.1	0.5	0.5	0.5	0.5
137.5°	3.8	2.2	1.1	0.5	0.5	0.5	0.5
140°	2.7	1.6	0.5	0.5	0.5	0.5	0.5
142.5°	2.2	1.1	0.5	0.5	0.5	0.5	0.5
145°	1.6	1.1	0.5	0.5	0.5	0.5	0.5
147.5°	1.1	1.1	1.1	1.1	0.5	0.5	0.5
150°	1.1	1.1	0.5	0.5	1.1	0.5	0.5
152.5°	1.1	0.5	0.5	0.5	1.1	0.5	0.5
155°	1.1	1.1	1.1	1.1	1.1	1.1	0.5
157.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1
160°	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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)