

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: **8SNLED-LD5-54SL-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: 8SNLED-LD5-54SL-LW-UNV-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

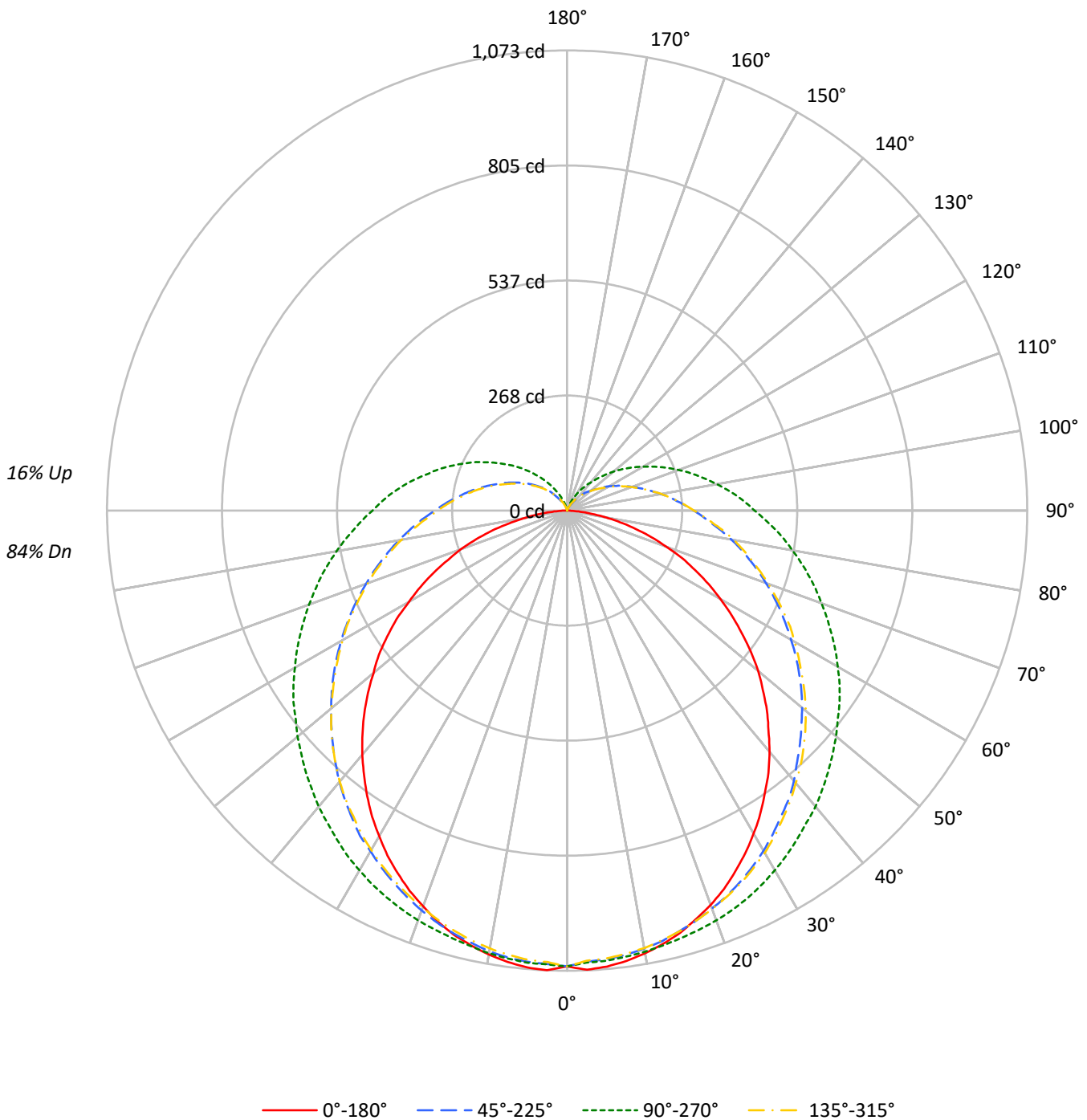
Lumens per Lamp: N/A
Luminaire Lumens: 4617.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 42
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



TEST NUMBER: P#
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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	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°	4294	4294	4294	4294
5°	4323	4138	4332	4156
10°	4288	4021	4302	4033
15°	4245	3920	4263	3924
20°	4184	3846	4199	3846
25°	4108	3781	4133	3777
30°	4022	3714	4053	3714
35°	3921	3652	3965	3656
40°	3822	3615	3869	3615
45°	3708	3577	3765	3581
50°	3590	3554	3638	3564
55°	3422	3557	3530	3573
60°	3246	3568	3352	3590
65°	3049	3604	3183	3640
70°	2768	3670	2984	3723
75°	2447	3790	2679	3863
80°	1941	3968	2204	4060
85°	1235	4253	1542	4371



TEST NUMBER: P#

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	2.2
10°-20°	289.3	6.3
20°-30°	443.6	9.6
30°-40°	547.3	11.9
40°-50°	593.7	12.9
50°-60°	585.2	12.7
60°-70°	529.1	11.5
70°-80°	440.8	9.5
80°-90°	341.4	7.4
90°-100°	258.9	5.6
100°-110°	191.6	4.2
110°-120°	133.3	2.9
120°-130°	85.0	1.8
130°-140°	47.7	1.0
140°-150°	21.8	0.5
150°-160°	6.8	0.1
160°-170°	0.8	0.0
170°-180°	0.0	0.0
0°-30°	833.6	18.1
0°-40°	1380.8	29.9
0°-60°	2559.8	55.4
0°-90°	3871.0	83.8
90°-120°	583.8	12.6
90°-150°	738.3	16.0
90°-180°	746.0	16.2
0°-180°	4617.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1063	1063	1063	1063	1063	
5°	1067	1054	1069	1058	1067	101
15°	1019	1031	1024	1032	1019	287
25°	928	997	934	995	928	428
35°	804	935	813	936	804	503
45°	659	861	669	862	659	508
55°	497	776	512	779	497	444
65°	330	680	344	687	330	327
75°	166	583	182	594	166	176
85°	31	485	39	499	31	38
90°	1	437	2	454	1	2
95°	1	397	1	416	1	1
105°	1	315	1	334	1	1
115°	1	240	1	261	1	1
125°	1	173	1	192	1	1
135°	1	112	1	132	1	1
145°	1	65	1	80	1	1
155°	1	27	1	37	1	1
165°	1	4	1	7	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7
2.5°	1071.7	1071.7	1070.5	1068.3	1069.4	1072.8	1070.5	1064.9	1061.6	1052.6	1054.9
5°	1067.2	1067.2	1066.1	1063.8	1064.9	1069.4	1067.2	1062.7	1058.2	1050.4	1053.7
7.5°	1059.3	1059.3	1058.2	1056.0	1058.2	1062.7	1060.5	1056.0	1052.6	1044.8	1048.1
10°	1048.1	1049.2	1048.1	1044.8	1049.2	1053.7	1052.6	1047.0	1043.6	1036.9	1040.3
12.5°	1034.7	1035.8	1034.7	1033.6	1035.8	1042.5	1040.3	1035.8	1033.6	1027.9	1031.3
15°	1019.0	1020.1	1017.9	1017.9	1020.1	1026.8	1026.8	1022.3	1020.1	1014.5	1021.2
17.5°	998.8	999.9	998.8	998.8	1001.0	1007.8	1008.9	1006.6	1004.4	1002.2	1008.9
20°	978.6	977.5	977.5	976.4	980.9	991.0	989.8	989.8	987.6	987.6	995.4
22.5°	955.1	955.1	954.0	954.0	959.6	968.5	968.5	970.8	968.5	973.0	979.7
25°	928.2	929.3	928.2	930.4	934.9	945.0	946.1	949.5	950.6	955.1	962.9
27.5°	900.2	901.3	900.2	902.4	910.2	918.1	923.7	928.2	929.3	936.0	946.1
30°	869.9	869.9	871.0	873.3	882.2	894.5	899.0	904.6	904.6	915.8	925.9
32.5°	838.5	838.5	838.5	843.0	853.1	867.6	873.3	880.0	882.2	893.4	904.6
35°	803.7	804.9	804.9	808.2	821.7	836.3	844.1	852.0	856.4	869.9	881.1
37.5°	771.2	773.5	770.1	774.6	793.7	806.0	815.0	822.8	830.7	848.6	857.6
40°	734.2	736.5	735.4	744.3	760.0	775.7	785.8	793.7	804.9	822.8	832.9
42.5°	695.0	697.3	699.5	709.6	726.4	742.1	754.4	764.5	778.0	793.7	810.5
45°	659.1	659.1	662.5	674.8	692.8	709.6	724.2	735.4	751.1	767.9	784.7
47.5°	618.8	619.9	624.4	639.0	658.0	678.2	691.7	706.2	723.0	741.0	760.0
50°	581.8	581.8	588.5	604.2	622.1	644.6	659.1	676.0	693.9	715.2	734.2
52.5°	539.2	541.4	551.5	566.1	589.6	609.8	626.6	644.6	665.9	688.3	709.6
55°	496.6	501.1	508.9	529.1	553.8	572.8	593.0	615.4	635.6	660.3	684.9
57.5°	455.1	458.5	470.8	491.0	516.8	540.3	561.6	582.9	607.6	632.2	658.0
60°	412.5	417.0	431.6	451.8	479.8	504.4	529.1	551.5	577.3	603.1	630.0
62.5°	372.2	375.5	392.3	415.9	443.9	470.8	495.5	522.4	550.4	575.1	602.0
65°	329.6	335.2	354.2	375.5	408.0	434.9	463.0	492.1	521.3	548.2	573.9
67.5°	290.3	293.7	313.9	338.5	371.0	401.3	430.5	461.8	492.1	520.1	545.9
70°	244.4	255.6	275.8	301.5	336.3	367.7	399.1	431.6	464.1	493.2	517.9
72.5°	206.3	215.2	237.6	265.7	299.3	336.3	368.8	403.6	436.1	466.3	492.1
75°	165.9	174.9	200.7	232.0	266.8	306.0	339.7	375.5	409.2	439.4	466.3
77.5°	126.7	137.9	165.9	198.4	236.5	276.9	311.6	347.5	382.3	414.8	441.7
80°	90.8	103.1	133.4	170.4	207.4	247.7	285.9	321.7	356.5	389.0	417.0
82.5°	58.3	71.7	104.3	141.2	180.5	220.8	260.1	295.9	330.7	363.2	392.3
85°	31.4	46.0	79.6	116.6	155.8	196.2	235.4	273.5	307.2	337.4	368.8
87.5°	9.0	26.9	59.4	96.4	136.8	173.8	211.9	250.0	283.6	316.1	344.1
90°	1.1	15.7	44.8	79.6	118.8	154.7	192.8	228.7	262.3	294.8	322.8
92.5°	1.1	10.1	34.8	66.1	102.0	139.0	177.1	211.9	243.3	275.8	303.8
95°	1.1	7.8	28.0	56.0	89.7	124.4	160.3	193.9	226.4	256.7	284.7
97.5°	1.1	5.6	22.4	48.2	78.5	111.0	145.7	179.4	210.7	239.9	265.7
100°	1.1	4.5	17.9	41.5	68.4	99.8	131.2	163.7	193.9	222.0	248.9
102.5°	1.1	3.4	15.7	34.8	60.5	88.6	118.8	149.1	178.2	205.1	232.0
105°	1.1	3.4	13.5	30.3	53.8	79.6	107.6	136.8	163.7	189.4	214.1
107.5°	1.1	2.2	11.2	25.8	47.1	71.7	97.5	125.6	150.2	174.9	198.4
110°	1.1	2.2	9.0	23.5	41.5	63.9	88.6	114.3	137.9	161.4	183.8



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CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.1	2.2	7.8	20.2	35.9	57.2	79.6	103.1	125.6	149.1	169.3
115°	1.1	2.2	6.7	17.9	33.6	49.3	71.7	93.0	115.5	136.8	155.8
117.5°	1.1	2.2	5.6	14.6	29.1	44.8	62.8	84.1	104.3	124.4	142.4
120°	1.1	2.2	4.5	13.5	25.8	40.4	56.0	75.1	94.2	113.2	132.3
122.5°	1.1	1.1	4.5	11.2	22.4	35.9	51.6	66.1	84.1	102.0	118.8
125°	1.1	1.1	4.5	10.1	19.1	32.5	46.0	59.4	75.1	90.8	105.4
127.5°	1.1	1.1	3.4	7.8	16.8	28.0	40.4	54.9	66.1	80.7	95.3
130°	1.1	1.1	3.4	6.7	14.6	23.5	35.9	48.2	61.7	71.7	84.1
132.5°	1.1	1.1	3.4	5.6	11.2	19.1	30.3	41.5	53.8	65.0	75.1
135°	1.1	1.1	2.2	4.5	9.0	15.7	24.7	34.8	47.1	58.3	68.4
137.5°	1.1	1.1	2.2	4.5	6.7	13.5	19.1	28.0	39.2	49.3	59.4
140°	1.1	1.1	2.2	3.4	5.6	10.1	15.7	22.4	31.4	40.4	51.6
142.5°	1.1	1.1	1.1	3.4	4.5	7.8	12.3	17.9	24.7	32.5	41.5
145°	1.1	1.1	1.1	3.4	4.5	5.6	10.1	14.6	19.1	24.7	32.5
147.5°	1.1	1.1	1.1	2.2	3.4	4.5	7.8	11.2	14.6	19.1	23.5
150°	1.1	1.1	1.1	2.2	3.4	4.5	5.6	7.8	11.2	15.7	19.1
152.5°	1.1	1.1	1.1	2.2	2.2	3.4	4.5	5.6	7.8	11.2	13.5
155°	1.1	1.1	1.1	1.1	2.2	3.4	4.5	4.5	5.6	7.8	10.1
157.5°	1.1	1.1	1.1	1.1	2.2	2.2	3.4	3.4	4.5	4.5	6.7
160°	1.1	1.1	1.1	1.1	1.1	2.2	2.2	3.4	3.4	3.4	3.4
162.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	3.4	3.4
165°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
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°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7
2.5°	1054.9	1056.0	1059.3	1059.3	1057.1	1057.1	1056.0	1054.9	1056.0	1058.2	1058.2
5°	1052.6	1053.7	1057.1	1058.2	1056.0	1054.9	1054.9	1053.7	1054.9	1057.1	1057.1
7.5°	1048.1	1049.2	1052.6	1053.7	1051.5	1051.5	1050.4	1049.2	1051.5	1052.6	1052.6
10°	1041.4	1042.5	1047.0	1048.1	1047.0	1045.9	1045.9	1044.8	1045.9	1048.1	1048.1
12.5°	1032.4	1034.7	1040.3	1040.3	1040.3	1039.2	1039.2	1038.0	1039.2	1041.4	1040.3
15°	1022.3	1026.8	1031.3	1033.6	1033.6	1033.6	1032.4	1031.3	1033.6	1034.7	1033.6
17.5°	1011.1	1016.7	1023.5	1025.7	1025.7	1026.8	1025.7	1024.6	1026.8	1026.8	1025.7
20°	999.9	1005.5	1012.3	1014.5	1016.7	1017.9	1017.9	1016.7	1017.9	1019.0	1017.9
22.5°	985.3	992.1	999.9	1003.3	1005.5	1007.8	1007.8	1007.8	1008.9	1010.0	1007.8
25°	969.7	977.5	986.5	989.8	994.3	995.4	996.6	996.6	997.7	998.8	995.4
27.5°	952.8	961.8	970.8	976.4	979.7	982.0	982.0	983.1	984.2	985.3	982.0
30°	932.7	946.1	954.0	958.4	962.9	966.3	967.4	968.5	969.7	970.8	967.4
32.5°	914.7	925.9	936.0	941.6	947.2	951.7	952.8	952.8	955.1	955.1	951.7
35°	893.4	906.9	917.0	922.6	929.3	932.7	934.9	934.9	937.1	937.1	933.8
37.5°	872.1	885.6	896.8	903.5	911.4	915.8	917.0	917.0	919.2	919.2	914.7
40°	849.7	864.3	876.6	884.5	891.2	896.8	897.9	901.3	901.3	900.2	895.7
42.5°	827.3	840.7	854.2	863.2	872.1	877.7	880.0	881.1	881.1	880.0	876.6
45°	802.6	818.3	830.7	841.9	850.8	856.4	859.8	860.9	860.9	858.7	855.3
47.5°	779.1	794.8	807.1	819.4	828.4	835.1	838.5	839.6	838.5	837.4	834.0
50°	754.4	772.4	784.7	797.0	806.0	811.6	817.2	818.3	817.2	816.1	809.4
52.5°	728.6	747.7	761.2	773.5	783.6	790.3	794.8	795.9	795.9	793.7	789.2
55°	702.9	719.7	736.5	749.9	761.2	767.9	773.5	775.7	773.5	771.2	765.6
57.5°	679.3	695.0	711.8	726.4	737.6	746.6	751.1	753.3	751.1	747.7	742.1
60°	651.3	668.1	687.2	700.6	712.9	721.9	724.2	728.6	726.4	723.0	717.4
62.5°	624.4	644.6	661.4	678.2	688.3	698.4	702.9	705.1	702.9	699.5	693.9
65°	596.4	618.8	635.6	652.4	663.6	673.7	679.3	680.4	678.2	674.8	669.2
67.5°	570.6	591.9	609.8	627.8	637.8	647.9	653.5	655.8	653.5	649.1	643.4
70°	544.8	566.1	587.4	600.9	613.2	624.4	627.8	631.1	628.9	624.4	617.7
72.5°	519.0	541.4	562.7	576.2	589.6	599.7	604.2	607.6	605.3	600.9	593.0
75°	492.1	515.7	537.0	551.5	565.0	575.1	579.6	582.9	580.7	576.2	567.2
77.5°	467.5	491.0	511.2	526.9	540.3	549.3	557.1	558.3	556.0	551.5	542.6
80°	441.7	465.2	486.5	502.2	515.7	524.6	530.2	533.6	531.3	526.9	517.9
82.5°	419.3	440.5	461.8	477.5	491.0	502.2	506.7	510.1	508.9	502.2	495.5
85°	394.6	419.3	436.1	452.9	466.3	477.5	480.9	485.4	484.3	478.7	469.7
87.5°	369.9	394.6	414.8	431.6	443.9	452.9	458.5	460.7	459.6	454.0	443.9
90°	349.7	372.2	392.3	410.3	420.4	430.5	436.1	437.2	437.2	430.5	422.6
92.5°	330.7	352.0	372.2	389.0	401.3	410.3	414.8	417.0	415.9	410.3	401.3
95°	309.4	332.9	352.0	368.8	381.1	390.1	394.6	396.8	395.7	390.1	381.1
97.5°	291.5	312.8	331.8	347.5	359.8	368.8	373.3	375.5	375.5	369.9	361.0
100°	273.5	294.8	312.8	328.4	339.7	348.6	353.1	354.2	353.1	348.6	339.7
102.5°	255.6	275.8	293.7	308.3	320.6	328.4	332.9	334.1	334.1	328.4	319.5
105°	237.6	257.8	274.6	290.3	300.4	308.3	311.6	315.0	313.9	309.4	300.4
107.5°	220.8	241.0	256.7	271.3	281.4	289.2	292.6	295.9	294.8	290.3	281.4
110°	205.1	224.2	238.8	253.3	262.3	270.2	275.8	276.9	274.6	270.2	262.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	190.6	207.4	222.0	235.4	245.5	251.1	255.6	257.8	255.6	251.1	245.5
115°	174.9	191.7	206.3	218.6	227.6	234.3	237.6	239.9	237.6	233.2	227.6
117.5°	160.3	176.0	190.6	202.9	210.7	216.4	219.7	222.0	219.7	216.4	210.7
120°	148.0	161.4	174.9	186.1	195.1	199.5	202.9	205.1	204.0	199.5	193.9
122.5°	133.4	148.0	160.3	171.5	179.4	183.8	186.1	188.3	187.2	183.8	178.2
125°	121.1	133.4	145.7	155.8	163.7	168.1	170.4	172.6	171.5	168.1	161.4
127.5°	107.6	121.1	131.2	141.2	146.8	153.6	154.7	156.9	155.8	152.5	146.8
130°	97.5	107.6	117.7	126.7	133.4	137.9	140.1	141.2	139.0	136.8	131.2
132.5°	85.2	96.4	105.4	113.2	117.7	122.2	124.4	125.6	125.6	122.2	117.7
135°	76.2	84.1	91.9	99.8	104.3	108.7	111.0	112.1	111.0	108.7	104.3
137.5°	68.4	75.1	80.7	87.4	93.0	95.3	97.5	97.5	96.4	95.3	91.9
140°	59.4	67.3	72.9	77.3	81.8	83.0	85.2	85.2	84.1	83.0	80.7
142.5°	50.4	57.2	62.8	68.4	71.7	74.0	75.1	76.2	75.1	74.0	70.6
145°	40.4	48.2	53.8	57.2	61.7	62.8	63.9	65.0	63.9	62.8	59.4
147.5°	31.4	38.1	43.7	48.2	51.6	52.7	53.8	54.9	53.8	51.6	50.4
150°	22.4	28.0	34.8	39.2	41.5	43.7	43.7	43.7	44.8	42.6	40.4
152.5°	17.9	20.2	24.7	29.1	32.5	33.6	34.8	34.8	33.6	33.6	31.4
155°	12.3	14.6	17.9	21.3	24.7	25.8	26.9	26.9	25.8	25.8	24.7
157.5°	7.8	10.1	12.3	14.6	17.9	19.1	20.2	20.2	20.2	19.1	17.9
160°	4.5	5.6	6.7	9.0	11.2	12.3	13.5	13.5	13.5	13.5	12.3
162.5°	3.4	3.4	3.4	4.5	5.6	6.7	7.8	7.8	7.8	7.8	6.7
165°	2.2	2.2	2.2	2.2	2.2	3.4	4.5	4.5	4.5	4.5	4.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7
2.5°	1057.1	1057.1	1058.2	1056.0	1049.2	1050.4	1050.4	1054.9	1057.1	1058.2	1063.8
5°	1054.9	1054.9	1057.1	1053.7	1048.1	1048.1	1048.1	1052.6	1053.7	1056.0	1060.5
7.5°	1051.5	1051.5	1052.6	1049.2	1042.5	1042.5	1041.4	1045.9	1048.1	1049.2	1053.7
10°	1045.9	1045.9	1047.0	1043.6	1035.8	1035.8	1034.7	1038.0	1039.2	1041.4	1044.8
12.5°	1038.0	1038.0	1038.0	1034.7	1026.8	1025.7	1024.6	1027.9	1027.9	1029.1	1032.4
15°	1031.3	1029.1	1029.1	1025.7	1017.9	1015.6	1013.4	1014.5	1016.7	1015.6	1017.9
17.5°	1023.5	1021.2	1019.0	1015.6	1005.5	1002.2	999.9	1001.0	999.9	998.8	1001.0
20°	1014.5	1011.1	1010.0	1004.4	994.3	988.7	984.2	982.0	983.1	979.7	980.9
22.5°	1004.4	999.9	997.7	991.0	980.9	974.1	968.5	964.1	962.9	958.4	959.6
25°	992.1	986.5	983.1	977.5	966.3	958.4	951.7	945.0	941.6	936.0	934.9
27.5°	977.5	971.9	967.4	961.8	950.6	940.5	932.7	923.7	919.2	912.5	909.1
30°	962.9	956.2	949.5	945.0	932.7	921.5	909.1	901.3	894.5	886.7	881.1
32.5°	945.0	938.3	931.5	924.8	913.6	900.2	890.1	877.7	869.9	860.9	854.2
35°	927.1	918.1	911.4	902.4	892.3	876.6	864.3	852.0	841.9	831.8	823.9
37.5°	906.9	900.2	890.1	882.2	869.9	854.2	840.7	825.0	816.1	802.6	792.5
40°	887.8	880.0	869.9	859.8	847.5	829.5	815.0	797.0	786.9	771.2	761.2
42.5°	868.8	857.6	847.5	836.3	822.8	806.0	788.1	770.1	756.7	742.1	727.5
45°	847.5	835.1	822.8	810.5	797.0	780.2	761.2	742.1	725.3	711.8	693.9
47.5°	825.0	812.7	798.1	784.7	770.1	753.3	733.1	712.9	695.0	679.3	660.3
50°	802.6	790.3	774.6	760.0	743.2	726.4	705.1	681.6	662.5	642.3	625.5
52.5°	779.1	766.8	752.2	733.1	715.2	698.4	676.0	651.3	630.0	613.2	591.9
55°	755.5	743.2	726.4	707.3	689.4	668.1	646.8	622.1	598.6	578.4	557.1
57.5°	730.9	719.7	700.6	684.9	662.5	640.1	617.7	594.1	568.3	544.8	520.1
60°	706.2	693.9	676.0	656.9	634.5	612.1	588.5	562.7	535.8	510.1	487.6
62.5°	683.8	668.1	651.3	631.1	607.6	586.3	559.4	531.3	504.4	477.5	450.6
65°	658.0	641.2	625.5	605.3	580.7	556.0	529.1	501.1	471.9	442.8	415.9
67.5°	632.2	615.4	598.6	578.4	552.6	526.9	498.8	470.8	438.3	410.3	378.9
70°	606.5	593.0	571.7	550.4	526.9	498.8	470.8	440.5	406.9	376.7	344.1
72.5°	580.7	567.2	545.9	523.5	501.1	471.9	441.7	411.4	380.0	345.3	310.5
75°	556.0	539.2	520.1	498.8	475.3	445.0	414.8	383.4	346.4	313.9	278.0
77.5°	532.5	516.8	497.7	474.2	448.4	419.3	387.9	355.4	318.4	283.6	244.4
80°	506.7	491.0	471.9	448.4	422.6	394.6	361.0	327.3	291.5	253.3	213.0
82.5°	482.0	467.5	446.2	424.9	396.8	368.8	335.2	301.5	263.4	226.4	187.2
85°	456.2	441.7	421.5	399.1	372.2	341.9	310.5	276.9	238.8	200.7	161.4
87.5°	433.8	417.0	396.8	374.4	347.5	318.4	288.1	252.2	215.2	178.2	137.9
90°	410.3	394.6	374.4	352.0	325.1	295.9	264.6	230.9	195.1	156.9	118.8
92.5°	390.1	373.3	354.2	331.8	304.9	276.9	245.5	211.9	177.1	140.1	103.1
95°	369.9	353.1	335.2	312.8	285.9	257.8	226.4	193.9	160.3	124.4	89.7
97.5°	347.5	332.9	315.0	293.7	266.8	239.9	209.6	178.2	145.7	111.0	78.5
100°	329.6	312.8	295.9	273.5	248.9	223.1	192.8	162.5	131.2	98.6	68.4
102.5°	309.4	293.7	276.9	255.6	230.9	205.1	177.1	148.0	118.8	88.6	59.4
105°	290.3	275.8	257.8	237.6	214.1	189.4	162.5	135.6	107.6	78.5	52.7
107.5°	271.3	256.7	239.9	220.8	198.4	173.8	149.1	122.2	96.4	70.6	47.1
110°	252.2	238.8	223.1	204.0	182.7	160.3	136.8	112.1	86.3	62.8	41.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	235.4	222.0	206.3	188.3	168.1	146.8	124.4	100.9	77.3	56.0	35.9
115°	218.6	206.3	190.6	174.9	154.7	134.5	113.2	90.8	69.5	50.4	31.4
117.5°	201.8	189.4	174.9	159.2	141.2	122.2	102.0	80.7	62.8	44.8	28.0
120°	185.0	173.8	160.3	145.7	130.0	111.0	90.8	72.9	56.0	39.2	24.7
122.5°	169.3	159.2	146.8	133.4	116.6	98.6	81.8	66.1	50.4	34.8	20.2
125°	154.7	144.6	133.4	119.9	104.3	88.6	74.0	59.4	43.7	30.3	16.8
127.5°	140.1	130.0	118.8	106.5	94.2	79.6	66.1	52.7	39.2	26.9	14.6
130°	125.6	116.6	106.5	96.4	84.1	70.6	59.4	46.0	33.6	21.3	12.3
132.5°	111.0	104.3	95.3	85.2	74.0	63.9	51.6	40.4	29.1	19.1	11.2
135°	98.6	91.9	84.1	75.1	66.1	56.0	44.8	34.8	24.7	15.7	9.0
137.5°	87.4	81.8	74.0	66.1	58.3	48.2	39.2	29.1	20.2	13.5	6.7
140°	77.3	71.7	65.0	57.2	50.4	41.5	32.5	23.5	17.9	11.2	5.6
142.5°	67.3	61.7	56.0	49.3	42.6	34.8	26.9	20.2	14.6	9.0	5.6
145°	57.2	52.7	47.1	41.5	34.8	28.0	22.4	16.8	11.2	6.7	4.5
147.5°	47.1	43.7	38.1	33.6	28.0	22.4	17.9	13.5	9.0	5.6	3.4
150°	38.1	34.8	30.3	25.8	22.4	17.9	14.6	10.1	6.7	5.6	3.4
152.5°	29.1	26.9	23.5	21.3	17.9	13.5	10.1	7.8	5.6	4.5	2.2
155°	23.5	21.3	19.1	15.7	13.5	10.1	7.8	5.6	4.5	3.4	2.2
157.5°	16.8	15.7	13.5	11.2	9.0	6.7	5.6	5.6	3.4	2.2	1.1
160°	11.2	10.1	9.0	6.7	5.6	5.6	4.5	3.4	2.2	2.2	1.1
162.5°	6.7	5.6	5.6	5.6	4.5	4.5	3.4	2.2	2.2	1.1	1.1
165°	4.5	4.5	4.5	3.4	3.4	3.4	2.2	1.1	1.1	1.1	1.1
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: 8SNLED-LD5-54SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7
2.5°	1063.8	1060.5	1064.9	1072.8	1073.9	1072.8	1070.5	1073.9	1078.4	1077.3	1069.4
5°	1061.6	1057.1	1061.6	1069.4	1069.4	1068.3	1067.2	1070.5	1075.0	1073.9	1067.2
7.5°	1054.9	1050.4	1054.9	1061.6	1062.7	1060.5	1060.5	1063.8	1068.3	1067.2	1061.6
10°	1045.9	1041.4	1043.6	1051.5	1053.7	1051.5	1051.5	1054.9	1060.5	1059.3	1052.6
12.5°	1032.4	1029.1	1031.3	1038.0	1040.3	1039.2	1038.0	1042.5	1048.1	1048.1	1041.4
15°	1017.9	1013.4	1015.6	1023.5	1024.6	1022.3	1023.5	1026.8	1033.6	1033.6	1027.9
17.5°	1001.0	995.4	998.8	1004.4	1005.5	1005.5	1005.5	1010.0	1017.9	1016.7	1012.3
20°	982.0	974.1	976.4	982.0	984.2	984.2	984.2	992.1	997.7	997.7	993.2
22.5°	959.6	954.0	954.0	959.6	962.9	961.8	961.8	968.5	976.4	975.3	975.3
25°	933.8	929.3	927.1	933.8	934.9	936.0	938.3	945.0	954.0	954.0	955.1
27.5°	906.9	902.4	901.3	906.9	908.0	909.1	911.4	919.2	928.2	929.3	931.5
30°	881.1	874.4	872.1	876.6	878.9	880.0	880.0	892.3	900.2	903.5	908.0
32.5°	850.8	844.1	838.5	846.3	847.5	849.7	850.8	863.2	872.1	877.7	884.5
35°	820.6	809.4	807.1	812.7	815.0	816.1	818.3	831.8	844.1	848.6	857.6
37.5°	786.9	779.1	772.4	778.0	780.2	781.3	788.1	800.4	812.7	819.4	828.4
40°	755.5	745.5	739.9	743.2	745.5	746.6	754.4	767.9	782.5	790.3	801.5
42.5°	720.8	707.3	702.9	706.2	707.3	710.7	717.4	735.4	749.9	761.2	770.1
45°	686.0	676.0	665.9	669.2	670.4	672.6	682.7	701.7	717.4	730.9	741.0
47.5°	650.2	637.8	627.8	630.0	634.5	635.6	646.8	669.2	683.8	698.4	711.8
50°	614.3	597.5	589.6	589.6	591.9	597.5	612.1	634.5	650.2	667.0	681.6
52.5°	577.3	561.6	552.6	553.8	556.0	562.7	576.2	598.6	616.5	634.5	652.4
55°	540.3	523.5	514.5	512.3	514.5	523.5	539.2	562.7	580.7	602.0	621.0
57.5°	503.3	483.1	475.3	471.9	474.2	485.4	501.1	525.7	548.2	568.3	590.8
60°	463.0	447.3	433.8	426.0	431.6	446.2	463.0	488.8	512.3	534.7	559.4
62.5°	428.2	408.0	393.5	385.6	391.2	403.6	427.1	451.8	477.5	503.3	528.0
65°	389.0	368.8	352.0	344.1	349.7	364.3	387.9	414.8	442.8	468.6	497.7
67.5°	350.9	329.6	309.4	301.5	308.3	324.0	349.7	380.0	410.3	437.2	468.6
70°	313.9	290.3	269.0	263.4	267.9	289.2	313.9	344.1	375.5	406.9	439.4
72.5°	280.2	251.1	228.7	222.0	227.6	251.1	279.1	310.5	344.1	377.8	412.5
75°	241.0	214.1	189.4	181.6	188.3	209.6	244.4	278.0	313.9	349.7	382.3
77.5°	209.6	178.2	152.5	140.1	151.3	178.2	211.9	247.7	284.7	321.7	358.7
80°	177.1	144.6	116.6	103.1	115.5	144.6	178.2	217.5	258.9	295.9	329.6
82.5°	148.0	113.2	84.1	69.5	83.0	115.5	152.5	191.7	232.0	269.0	308.3
85°	121.1	85.2	54.9	39.2	58.3	87.4	126.7	167.0	208.5	246.6	284.7
87.5°	98.6	63.9	33.6	16.8	35.9	68.4	105.4	145.7	187.2	225.3	261.2
90°	80.7	46.0	17.9	2.2	21.3	51.6	87.4	126.7	165.9	205.1	241.0
92.5°	66.1	34.8	10.1	1.1	13.5	41.5	75.1	112.1	150.2	188.3	223.1
95°	54.9	26.9	6.7	1.1	10.1	32.5	63.9	99.8	135.6	172.6	207.4
97.5°	47.1	22.4	5.6	1.1	7.8	28.0	54.9	88.6	123.3	158.1	191.7
100°	40.4	17.9	4.5	1.1	6.7	23.5	48.2	78.5	111.0	144.6	177.1
102.5°	34.8	14.6	3.4	1.1	5.6	20.2	42.6	70.6	99.8	132.3	163.7
105°	30.3	12.3	3.4	1.1	4.5	17.9	38.1	62.8	91.9	121.1	151.3
107.5°	25.8	10.1	2.2	1.1	3.4	14.6	33.6	57.2	83.0	111.0	139.0
110°	22.4	9.0	2.2	1.1	3.4	13.5	29.1	51.6	75.1	100.9	127.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	19.1	6.7	2.2	1.1	2.2	11.2	25.8	46.0	68.4	91.9	117.7
115°	16.8	5.6	1.1	1.1	2.2	10.1	23.5	41.5	61.7	84.1	107.6
117.5°	13.5	4.5	1.1	1.1	1.1	7.8	20.2	37.0	56.0	77.3	98.6
120°	11.2	4.5	1.1	1.1	1.1	6.7	17.9	32.5	50.4	69.5	89.7
122.5°	10.1	3.4	1.1	1.1	1.1	5.6	15.7	29.1	44.8	62.8	81.8
125°	9.0	3.4	1.1	1.1	1.1	4.5	13.5	25.8	40.4	56.0	74.0
127.5°	6.7	3.4	1.1	1.1	1.1	3.4	12.3	22.4	35.9	50.4	66.1
130°	5.6	2.2	1.1	1.1	1.1	3.4	10.1	20.2	31.4	44.8	59.4
132.5°	4.5	2.2	1.1	1.1	1.1	2.2	7.8	15.7	26.9	39.2	52.7
135°	4.5	2.2	1.1	1.1	1.1	2.2	5.6	13.5	22.4	33.6	44.8
137.5°	4.5	1.1	1.1	1.1	1.1	2.2	4.5	10.1	17.9	26.9	37.0
140°	3.4	1.1	1.1	1.1	1.1	1.1	3.4	7.8	14.6	22.4	31.4
142.5°	3.4	1.1	1.1	1.1	1.1	1.1	3.4	5.6	11.2	17.9	24.7
145°	2.2	1.1	1.1	1.1	1.1	1.1	2.2	4.5	9.0	13.5	20.2
147.5°	2.2	1.1	1.1	1.1	1.1	1.1	2.2	3.4	6.7	11.2	15.7
150°	2.2	1.1	1.1	1.1	1.1	1.1	2.2	3.4	4.5	7.8	12.3
152.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	3.4	5.6	7.8
155°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	3.4	4.5	5.6
157.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	3.4	4.5
160°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	3.4
162.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2
165°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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: 8SNLED-LD5-54SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7
2.5°	1066.1	1058.2	1060.5	1059.3	1061.6	1064.9	1064.9	1063.8	1063.8	1061.6	1059.3
5°	1063.8	1056.0	1059.3	1058.2	1060.5	1063.8	1063.8	1062.7	1062.7	1059.3	1058.2
7.5°	1057.1	1051.5	1053.7	1053.7	1056.0	1059.3	1059.3	1058.2	1058.2	1054.9	1053.7
10°	1050.4	1043.6	1047.0	1047.0	1049.2	1053.7	1053.7	1052.6	1052.6	1049.2	1048.1
12.5°	1039.2	1032.4	1038.0	1039.2	1041.4	1045.9	1044.8	1044.8	1044.8	1041.4	1040.3
15°	1025.7	1021.2	1026.8	1027.9	1031.3	1036.9	1036.9	1036.9	1036.9	1033.6	1032.4
17.5°	1011.1	1007.8	1013.4	1015.6	1020.1	1025.7	1025.7	1026.8	1027.9	1025.7	1024.6
20°	994.3	992.1	997.7	1002.2	1008.9	1014.5	1016.7	1017.9	1020.1	1017.9	1016.7
22.5°	975.3	975.3	983.1	987.6	995.4	1001.0	1004.4	1007.8	1010.0	1007.8	1006.6
25°	954.0	957.3	965.2	973.0	982.0	987.6	991.0	995.4	997.7	996.6	995.4
27.5°	933.8	938.3	948.4	956.2	964.1	973.0	976.4	982.0	984.2	984.2	983.1
30°	910.2	917.0	928.2	937.1	947.2	956.2	960.7	966.3	969.7	967.4	968.5
32.5°	887.8	899.0	908.0	918.1	929.3	938.3	943.9	950.6	954.0	952.8	954.0
35°	863.2	874.4	886.7	896.8	910.2	919.2	927.1	932.7	937.1	936.0	936.0
37.5°	836.3	850.8	863.2	876.6	888.9	899.0	906.9	913.6	918.1	918.1	918.1
40°	810.5	826.2	838.5	854.2	869.9	878.9	887.8	894.5	899.0	900.2	901.3
42.5°	782.5	799.3	813.8	830.7	846.3	857.6	867.6	875.5	880.0	882.2	881.1
45°	756.7	772.4	789.2	808.2	822.8	834.0	846.3	855.3	859.8	860.9	862.0
47.5°	727.5	745.5	764.5	783.6	798.1	812.7	823.9	832.9	837.4	840.7	840.7
50°	699.5	718.6	739.9	760.0	775.7	790.3	801.5	811.6	817.2	819.4	820.6
52.5°	673.7	691.7	714.1	734.2	749.9	764.5	779.1	790.3	795.9	798.1	798.1
55°	642.3	664.7	689.4	708.5	725.3	742.1	756.7	767.9	773.5	776.8	779.1
57.5°	613.2	636.7	662.5	682.7	702.9	718.6	732.0	746.6	751.1	755.5	756.7
60°	585.2	608.7	633.4	655.8	676.0	692.8	708.5	720.8	728.6	730.9	733.1
62.5°	556.0	580.7	606.5	628.9	650.2	670.4	684.9	696.1	705.1	708.5	710.7
65°	528.0	553.8	579.6	603.1	625.5	645.7	660.3	671.5	680.4	686.0	687.2
67.5°	497.7	525.7	552.6	577.3	599.7	621.0	635.6	646.8	655.8	662.5	663.6
70°	469.7	498.8	525.7	552.6	575.1	596.4	612.1	623.3	633.4	637.8	640.1
72.5°	442.8	473.1	501.1	528.0	550.4	571.7	588.5	599.7	609.8	615.4	616.5
75°	417.0	447.3	477.5	503.3	526.9	548.2	565.0	577.3	586.3	591.9	594.1
77.5°	391.2	422.6	452.9	478.7	503.3	524.6	539.2	553.8	562.7	569.5	569.5
80°	365.4	398.0	429.3	455.1	479.8	498.8	515.7	530.2	539.2	545.9	545.9
82.5°	343.0	374.4	404.7	430.5	455.1	476.4	493.2	506.7	516.8	521.3	522.4
85°	317.2	352.0	380.0	408.0	431.6	451.8	468.6	483.1	492.1	496.6	498.8
87.5°	295.9	329.6	359.8	384.5	408.0	428.2	447.3	459.6	468.6	474.2	476.4
90°	275.8	308.3	338.5	363.2	387.9	406.9	424.9	437.2	447.3	451.8	454.0
92.5°	257.8	290.3	319.5	344.1	367.7	389.0	405.8	418.1	427.1	431.6	434.9
95°	241.0	272.4	300.4	327.3	349.7	368.8	386.7	399.1	409.2	412.5	415.9
97.5°	224.2	254.5	282.5	308.3	331.8	349.7	366.6	378.9	386.7	392.3	395.7
100°	209.6	238.8	265.7	290.3	312.8	329.6	347.5	358.7	366.6	371.0	375.5
102.5°	193.9	223.1	248.9	272.4	295.9	311.6	328.4	339.7	346.4	354.2	354.2
105°	180.5	207.4	233.2	255.6	275.8	294.8	309.4	320.6	328.4	334.1	334.1
107.5°	165.9	192.8	217.5	241.0	260.1	278.0	291.5	301.5	310.5	313.9	317.2
110°	154.7	178.2	202.9	225.3	243.3	260.1	273.5	284.7	292.6	295.9	298.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	141.2	165.9	188.3	209.6	227.6	243.3	256.7	265.7	273.5	278.0	279.1
115°	130.0	153.6	173.8	193.9	213.0	226.4	238.8	247.7	255.6	258.9	261.2
117.5°	119.9	141.2	161.4	178.2	196.2	210.7	223.1	230.9	237.6	242.1	244.4
120°	109.9	130.0	148.0	164.8	181.6	195.1	206.3	214.1	222.0	225.3	225.3
122.5°	99.8	118.8	135.6	151.3	167.0	179.4	191.7	198.4	205.1	208.5	208.5
125°	90.8	108.7	124.4	139.0	153.6	164.8	174.9	182.7	189.4	191.7	191.7
127.5°	81.8	98.6	113.2	126.7	139.0	150.2	160.3	168.1	173.8	176.0	176.0
130°	74.0	88.6	102.0	115.5	127.8	136.8	146.8	153.6	156.9	160.3	161.4
132.5°	66.1	79.6	91.9	103.1	115.5	124.4	132.3	139.0	142.4	145.7	146.8
135°	58.3	70.6	81.8	93.0	103.1	112.1	118.8	124.4	128.9	131.2	132.3
137.5°	49.3	62.8	72.9	81.8	93.0	99.8	107.6	111.0	115.5	117.7	117.7
140°	41.5	51.6	62.8	71.7	80.7	87.4	94.2	99.8	103.1	104.3	104.3
142.5°	33.6	42.6	51.6	62.8	70.6	76.2	83.0	87.4	89.7	90.8	91.9
145°	26.9	33.6	41.5	51.6	60.5	67.3	70.6	75.1	77.3	78.5	79.6
147.5°	20.2	26.9	33.6	40.4	49.3	56.0	59.4	63.9	66.1	67.3	67.3
150°	15.7	20.2	24.7	31.4	38.1	46.0	50.4	53.8	54.9	56.0	56.0
152.5°	11.2	15.7	19.1	23.5	28.0	34.8	41.5	43.7	44.8	46.0	46.0
155°	7.8	11.2	13.5	16.8	20.2	25.8	31.4	34.8	35.9	37.0	37.0
157.5°	5.6	7.8	9.0	12.3	14.6	16.8	21.3	26.9	28.0	28.0	28.0
160°	3.4	4.5	5.6	7.8	9.0	11.2	13.5	16.8	20.2	20.2	20.2
162.5°	2.2	3.4	3.4	4.5	4.5	6.7	7.8	9.0	12.3	13.5	13.5
165°	1.1	2.2	2.2	2.2	2.2	2.2	3.4	3.4	5.6	6.7	6.7
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: 8SNLED-LD5-54SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7
2.5°	1060.5	1062.7	1061.6	1061.6	1061.6	1063.8	1061.6	1051.5	1053.7	1056.0	1058.2
5°	1059.3	1060.5	1060.5	1059.3	1059.3	1061.6	1059.3	1049.2	1051.5	1053.7	1054.9
7.5°	1054.9	1056.0	1056.0	1056.0	1054.9	1057.1	1053.7	1044.8	1044.8	1047.0	1048.1
10°	1049.2	1051.5	1050.4	1049.2	1049.2	1049.2	1047.0	1036.9	1036.9	1038.0	1039.2
12.5°	1042.5	1042.5	1042.5	1041.4	1040.3	1040.3	1038.0	1027.9	1026.8	1029.1	1027.9
15°	1033.6	1035.8	1033.6	1032.4	1030.2	1030.2	1026.8	1016.7	1014.5	1015.6	1014.5
17.5°	1025.7	1026.8	1024.6	1022.3	1020.1	1019.0	1015.6	1004.4	1001.0	1002.2	999.9
20°	1017.9	1017.9	1015.6	1013.4	1010.0	1006.6	1002.2	991.0	985.3	985.3	980.9
22.5°	1007.8	1007.8	1005.5	1002.2	998.8	994.3	989.8	978.6	969.7	967.4	964.1
25°	996.6	995.4	994.3	991.0	984.2	979.7	975.3	962.9	952.8	948.4	942.8
27.5°	983.1	983.1	979.7	976.4	969.7	964.1	958.4	947.2	933.8	928.2	920.3
30°	968.5	968.5	965.2	960.7	954.0	947.2	940.5	927.1	913.6	905.8	896.8
32.5°	954.0	952.8	949.5	945.0	938.3	928.2	922.6	909.1	893.4	884.5	872.1
35°	936.0	934.9	931.5	925.9	917.0	909.1	900.2	887.8	869.9	858.7	845.2
37.5°	918.1	917.0	914.7	906.9	897.9	888.9	877.7	865.4	848.6	834.0	820.6
40°	900.2	899.0	894.5	888.9	877.7	866.5	855.3	843.0	825.0	808.2	793.7
42.5°	881.1	880.0	874.4	867.6	855.3	844.1	830.7	817.2	799.3	779.1	764.5
45°	862.0	859.8	854.2	846.3	832.9	820.6	807.1	791.4	773.5	754.4	735.4
47.5°	841.9	838.5	832.9	821.7	810.5	797.0	781.3	764.5	746.6	725.3	705.1
50°	819.4	817.2	810.5	800.4	786.9	773.5	755.5	738.7	717.4	697.3	672.6
52.5°	798.1	793.7	788.1	776.8	763.4	748.8	729.8	709.6	688.3	669.2	643.4
55°	775.7	773.5	765.6	756.7	739.9	723.0	705.1	683.8	660.3	637.8	613.2
57.5°	754.4	749.9	743.2	730.9	716.3	699.5	680.4	658.0	632.2	608.7	581.8
60°	733.1	726.4	718.6	707.3	691.7	673.7	653.5	630.0	604.2	578.4	550.4
62.5°	709.6	704.0	695.0	683.8	668.1	649.1	627.8	603.1	578.4	551.5	521.3
65°	686.0	680.4	671.5	660.3	644.6	623.3	600.9	576.2	548.2	522.4	489.9
67.5°	662.5	656.9	646.8	634.5	618.8	598.6	575.1	549.3	521.3	493.2	459.6
70°	639.0	632.2	623.3	609.8	594.1	572.8	549.3	522.4	494.4	464.1	430.5
72.5°	615.4	609.8	598.6	586.3	569.5	548.2	524.6	497.7	468.6	437.2	403.6
75°	591.9	585.2	577.3	562.7	544.8	524.6	500.0	473.1	441.7	411.4	376.7
77.5°	568.3	562.7	552.6	538.1	521.3	500.0	475.3	448.4	417.0	385.6	348.6
80°	544.8	538.1	530.2	516.8	497.7	476.4	450.6	423.7	392.3	359.8	322.8
82.5°	521.3	514.5	505.6	492.1	474.2	452.9	428.2	399.1	367.7	334.1	299.3
85°	497.7	492.1	482.0	468.6	449.5	428.2	403.6	377.8	344.1	310.5	275.8
87.5°	474.2	468.6	458.5	445.0	427.1	405.8	381.1	354.2	321.7	290.3	252.2
90°	451.8	447.3	437.2	423.7	405.8	384.5	362.1	332.9	301.5	270.2	234.3
92.5°	431.6	427.1	418.1	404.7	389.0	365.4	343.0	315.0	283.6	251.1	216.4
95°	413.6	408.0	399.1	386.7	367.7	347.5	325.1	297.1	266.8	234.3	200.7
97.5°	393.5	387.9	378.9	365.4	349.7	328.4	306.0	279.1	248.9	218.6	185.0
100°	373.3	367.7	357.6	346.4	330.7	309.4	288.1	261.2	233.2	204.0	171.5
102.5°	353.1	347.5	338.5	327.3	311.6	292.6	271.3	245.5	217.5	188.3	158.1
105°	334.1	328.4	319.5	308.3	293.7	274.6	252.2	229.8	202.9	174.9	145.7
107.5°	315.0	309.4	301.5	290.3	275.8	257.8	236.5	213.0	188.3	161.4	133.4
110°	295.9	291.5	282.5	272.4	257.8	239.9	220.8	198.4	173.8	149.1	122.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	278.0	273.5	264.6	253.3	241.0	224.2	205.1	183.8	160.3	136.8	111.0
115°	260.1	254.5	246.6	236.5	224.2	208.5	190.6	171.5	148.0	125.6	102.0
117.5°	242.1	237.6	229.8	219.7	208.5	192.8	176.0	158.1	135.6	114.3	93.0
120°	224.2	220.8	213.0	204.0	192.8	178.2	162.5	144.6	124.4	104.3	84.1
122.5°	207.4	204.0	196.2	188.3	177.1	163.7	149.1	132.3	114.3	95.3	77.3
125°	191.7	187.2	180.5	172.6	162.5	150.2	135.6	119.9	103.1	86.3	69.5
127.5°	174.9	171.5	167.0	158.1	148.0	136.8	123.3	109.9	94.2	78.5	62.8
130°	161.4	156.9	151.3	144.6	135.6	124.4	112.1	98.6	85.2	70.6	54.9
132.5°	145.7	141.2	136.8	130.0	122.2	112.1	100.9	88.6	76.2	62.8	49.3
135°	131.2	127.8	123.3	116.6	108.7	100.9	89.7	78.5	67.3	54.9	43.7
137.5°	117.7	114.3	109.9	105.4	97.5	89.7	79.6	69.5	59.4	48.2	38.1
140°	104.3	102.0	97.5	93.0	86.3	78.5	69.5	60.5	51.6	41.5	32.5
142.5°	90.8	88.6	85.2	80.7	75.1	68.4	60.5	52.7	43.7	35.9	28.0
145°	78.5	77.3	74.0	69.5	65.0	58.3	51.6	44.8	37.0	30.3	22.4
147.5°	66.1	65.0	62.8	59.4	54.9	49.3	43.7	37.0	31.4	24.7	17.9
150°	54.9	53.8	52.7	48.2	46.0	40.4	35.9	30.3	25.8	19.1	14.6
152.5°	44.8	44.8	42.6	39.2	37.0	32.5	29.1	24.7	20.2	15.7	11.2
155°	35.9	34.8	33.6	31.4	29.1	25.8	22.4	19.1	15.7	11.2	7.8
157.5°	28.0	26.9	25.8	23.5	21.3	20.2	16.8	13.5	10.1	7.8	5.6
160°	20.2	19.1	17.9	16.8	15.7	13.5	11.2	9.0	6.7	4.5	3.4
162.5°	13.5	12.3	12.3	11.2	10.1	7.8	6.7	5.6	4.5	3.4	2.2
165°	6.7	6.7	5.6	5.6	4.5	3.4	3.4	3.4	2.2	2.2	1.1
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: 8SNLED-LD5-54SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7
2.5°	1057.1	1057.1	1061.6	1060.5	1057.1	1063.8	1071.7
5°	1053.7	1053.7	1057.1	1057.1	1053.7	1060.5	1067.2
7.5°	1048.1	1047.0	1050.4	1050.4	1045.9	1051.5	1059.3
10°	1038.0	1036.9	1040.3	1040.3	1035.8	1041.4	1048.1
12.5°	1026.8	1024.6	1027.9	1026.8	1022.3	1027.9	1034.7
15°	1012.3	1011.1	1013.4	1011.1	1006.6	1012.3	1019.0
17.5°	997.7	994.3	995.4	995.4	987.6	993.2	998.8
20°	978.6	974.1	975.3	974.1	968.5	971.9	978.6
22.5°	959.6	952.8	952.8	951.7	945.0	949.5	955.1
25°	936.0	928.2	928.2	927.1	919.2	922.6	928.2
27.5°	912.5	904.6	901.3	900.2	892.3	892.3	900.2
30°	887.8	876.6	874.4	871.0	863.2	863.2	869.9
32.5°	864.3	848.6	844.1	839.6	831.8	830.7	838.5
35°	832.9	820.6	812.7	808.2	799.3	797.0	803.7
37.5°	807.1	791.4	780.2	774.6	765.6	762.3	771.2
40°	779.1	762.3	747.7	744.3	730.9	726.4	734.2
42.5°	747.7	729.8	715.2	708.5	698.4	693.9	695.0
45°	716.3	697.3	681.6	672.6	662.5	654.7	659.1
47.5°	683.8	667.0	647.9	634.5	622.1	616.5	618.8
50°	651.3	631.1	613.2	598.6	584.0	577.3	581.8
52.5°	618.8	597.5	577.3	561.6	544.8	538.1	539.2
55°	587.4	565.0	541.4	524.6	508.9	498.8	496.6
57.5°	556.0	531.3	506.7	487.6	467.5	458.5	455.1
60°	522.4	496.6	470.8	448.4	427.1	417.0	412.5
62.5°	491.0	463.0	433.8	410.3	389.0	375.5	372.2
65°	460.7	428.2	399.1	372.2	348.6	334.1	329.6
67.5°	428.2	394.6	363.2	334.1	311.6	292.6	290.3
70°	398.0	362.1	327.3	297.1	272.4	253.3	244.4
72.5°	367.7	330.7	294.8	262.3	230.9	213.0	206.3
75°	338.5	300.4	262.3	228.7	193.9	172.6	165.9
77.5°	311.6	272.4	232.0	195.1	162.5	135.6	126.7
80°	285.9	245.5	202.9	164.8	130.0	100.9	90.8
82.5°	258.9	220.8	177.1	136.8	100.9	70.6	58.3
85°	235.4	197.3	153.6	113.2	77.3	44.8	31.4
87.5°	216.4	174.9	135.6	95.3	58.3	25.8	9.0
90°	197.3	156.9	117.7	78.5	43.7	14.6	1.1
92.5°	180.5	142.4	103.1	67.3	33.6	10.1	1.1
95°	164.8	127.8	90.8	56.0	26.9	6.7	1.1
97.5°	150.2	115.5	80.7	48.2	22.4	5.6	1.1
100°	137.9	104.3	71.7	42.6	19.1	4.5	1.1
102.5°	125.6	94.2	63.9	37.0	16.8	3.4	1.1
105°	115.5	85.2	57.2	33.6	14.6	3.4	1.1
107.5°	105.4	77.3	51.6	29.1	12.3	2.2	1.1
110°	95.3	70.6	46.0	25.8	11.2	2.2	1.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	87.4	63.9	41.5	23.5	9.0	2.2	1.1
115°	79.6	57.2	37.0	20.2	7.8	1.1	1.1
117.5°	71.7	51.6	32.5	17.9	6.7	1.1	1.1
120°	65.0	46.0	29.1	15.7	5.6	1.1	1.1
122.5°	58.3	41.5	25.8	13.5	4.5	1.1	1.1
125°	52.7	37.0	22.4	11.2	3.4	1.1	1.1
127.5°	47.1	32.5	20.2	10.1	3.4	1.1	1.1
130°	41.5	29.1	16.8	7.8	2.2	1.1	1.1
132.5°	37.0	24.7	14.6	6.7	2.2	1.1	1.1
135°	32.5	21.3	12.3	4.5	2.2	1.1	1.1
137.5°	28.0	17.9	10.1	3.4	1.1	1.1	1.1
140°	23.5	15.7	7.8	3.4	1.1	1.1	1.1
142.5°	20.2	12.3	5.6	2.2	1.1	1.1	1.1
145°	15.7	10.1	4.5	2.2	1.1	1.1	1.1
147.5°	12.3	7.8	3.4	2.2	1.1	1.1	1.1
150°	9.0	5.6	3.4	1.1	1.1	1.1	1.1
152.5°	6.7	4.5	2.2	1.1	1.1	1.1	1.1
155°	4.5	3.4	2.2	1.1	1.1	1.1	1.1
157.5°	3.4	2.2	1.1	1.1	1.1	1.1	1.1
160°	2.2	1.1	1.1	1.1	1.1	1.1	1.1
162.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1
165°	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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)