

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-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (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-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

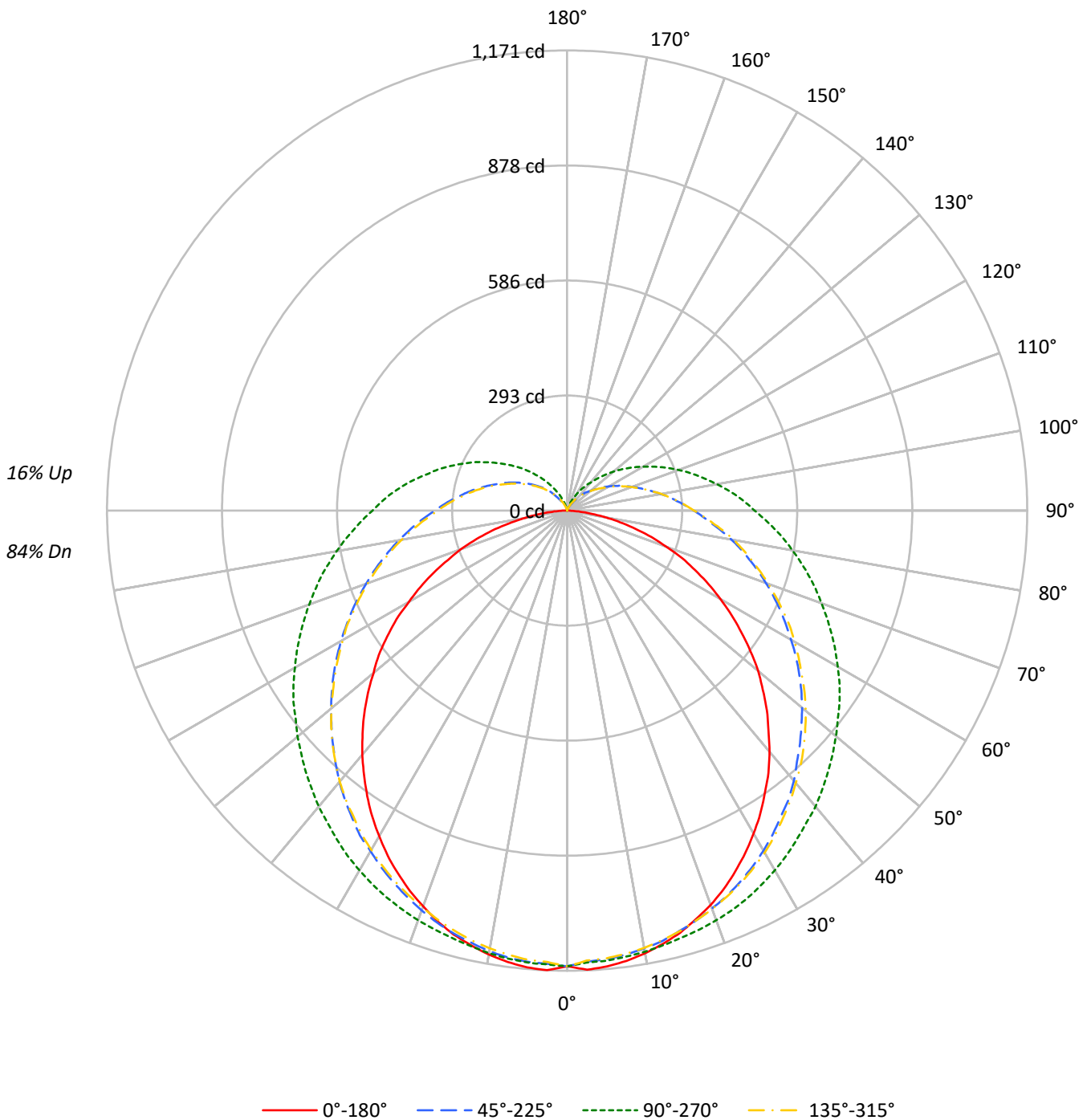
Lumens per Lamp: N/A
Luminaire Lumens: 5038.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

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#
CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L950-CD1-U

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64
2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54	51
3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45	42
4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38	35
5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33	30
6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28	26
7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25	23
8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22	20
9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20	18
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4685	4685	4685	4685
5°	4717	4515	4726	4534
10°	4680	4387	4695	4401
15°	4632	4277	4652	4282
20°	4566	4197	4581	4197
25°	4483	4126	4510	4121
30°	4389	4053	4423	4053
35°	4279	3985	4327	3990
40°	4171	3945	4222	3945
45°	4046	3903	4109	3908
50°	3917	3878	3970	3889
55°	3734	3882	3852	3899
60°	3541	3894	3657	3918
65°	3327	3933	3474	3972
70°	3021	4005	3257	4062
75°	2670	4136	2924	4215
80°	2118	4330	2405	4430
85°	1345	4641	1684	4770



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	2.2
10°-20°	315.7	6.3
20°-30°	484.0	9.6
30°-40°	597.2	11.9
40°-50°	647.9	12.9
50°-60°	638.6	12.7
60°-70°	577.3	11.5
70°-80°	481.0	9.5
80°-90°	372.5	7.4
90°-100°	282.5	5.6
100°-110°	209.1	4.1
110°-120°	145.4	2.9
120°-130°	92.8	1.8
130°-140°	52.1	1.0
140°-150°	23.8	0.5
150°-160°	7.4	0.1
160°-170°	0.9	0.0
170°-180°	0.0	0.0
0°-30°	909.6	18.1
0°-40°	1506.8	29.9
0°-60°	2793.2	55.4
0°-90°	4224.0	83.8
90°-120°	637.0	12.6
90°-150°	805.7	16.0
90°-180°	814.0	16.2
0°-180°	5038.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1160	1160	1160	1160	1160	
5°	1164	1150	1167	1155	1164	110
15°	1112	1125	1117	1127	1112	313
25°	1013	1087	1019	1086	1013	467
35°	877	1020	887	1021	877	549
45°	719	939	730	941	719	554
55°	542	846	559	850	542	485
65°	360	742	376	750	360	356
75°	181	636	198	648	181	192
85°	34	530	43	544	34	41
90°	1	477	2	495	1	2
95°	1	433	1	454	1	1
105°	1	344	1	364	1	1
115°	1	262	1	285	1	1
125°	1	188	1	209	1	1
135°	1	122	1	144	1	1
145°	1	71	1	87	1	1
155°	1	29	1	40	1	1
165°	1	5	1	7	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6
2.5°	1169.4	1169.4	1168.2	1165.7	1166.9	1170.6	1168.2	1162.0	1158.4	1148.6	1151.0
5°	1164.5	1164.5	1163.3	1160.8	1162.0	1166.9	1164.5	1159.6	1154.7	1146.1	1149.8
7.5°	1155.9	1155.9	1154.7	1152.3	1154.7	1159.6	1157.2	1152.3	1148.6	1140.0	1143.7
10°	1143.7	1144.9	1143.7	1140.0	1144.9	1149.8	1148.6	1142.5	1138.8	1131.5	1135.1
12.5°	1129.0	1130.2	1129.0	1127.8	1130.2	1137.6	1135.1	1130.2	1127.8	1121.7	1125.3
15°	1111.9	1113.1	1110.7	1110.7	1113.1	1120.5	1120.5	1115.6	1113.1	1107.0	1114.3
17.5°	1089.9	1091.1	1089.9	1089.9	1092.3	1099.7	1100.9	1098.4	1096.0	1093.5	1100.9
20°	1067.9	1066.6	1066.6	1065.4	1070.3	1081.3	1080.1	1080.1	1077.6	1077.6	1086.2
22.5°	1042.2	1042.2	1040.9	1040.9	1047.1	1056.9	1056.9	1059.3	1056.9	1061.7	1069.1
25°	1012.8	1014.0	1012.8	1015.3	1020.2	1031.2	1032.4	1036.1	1037.3	1042.2	1050.7
27.5°	982.2	983.5	982.2	984.7	993.2	1001.8	1007.9	1012.8	1014.0	1021.4	1032.4
30°	949.2	949.2	950.4	952.9	962.7	976.1	981.0	987.1	987.1	999.4	1010.4
32.5°	915.0	915.0	915.0	919.9	930.9	946.8	952.9	960.2	962.7	974.9	987.1
35°	877.0	878.3	878.3	881.9	896.6	912.5	921.1	929.6	934.5	949.2	961.4
37.5°	841.6	844.0	840.3	845.2	866.0	879.5	889.3	897.8	906.4	926.0	935.8
40°	801.2	803.6	802.4	812.2	829.3	846.5	857.5	866.0	878.3	897.8	908.8
42.5°	758.4	760.8	763.3	774.3	792.6	809.8	823.2	834.2	848.9	866.0	884.4
45°	719.2	719.2	722.9	736.4	755.9	774.3	790.2	802.4	819.5	837.9	856.2
47.5°	675.2	676.4	681.3	697.2	718.0	740.0	754.7	770.6	789.0	808.5	829.3
50°	634.8	634.8	642.2	659.3	678.9	703.3	719.2	737.6	757.2	780.4	801.2
52.5°	588.4	590.8	601.8	617.7	643.4	665.4	683.8	703.3	726.6	751.0	774.3
55°	541.9	546.8	555.3	577.4	604.3	625.1	647.1	671.5	693.6	720.5	747.4
57.5°	496.6	500.3	513.7	535.8	563.9	589.6	612.8	636.1	663.0	689.9	718.0
60°	450.1	455.0	470.9	493.0	523.5	550.4	577.4	601.8	630.0	658.1	687.4
62.5°	406.1	409.8	428.1	453.8	484.4	513.7	540.7	570.0	600.6	627.5	656.9
65°	359.6	365.7	386.5	409.8	445.2	474.6	505.2	537.0	568.8	598.1	626.3
67.5°	316.8	320.5	342.5	369.4	404.9	437.9	469.7	504.0	537.0	567.6	595.7
70°	266.7	278.9	300.9	329.0	367.0	401.2	435.5	470.9	506.4	538.2	565.1
72.5°	225.1	234.9	259.3	289.9	326.6	367.0	402.4	440.4	475.8	508.9	537.0
75°	181.0	190.8	219.0	253.2	291.1	333.9	370.6	409.8	446.5	479.5	508.9
77.5°	138.2	150.5	181.0	216.5	258.1	302.1	340.1	379.2	417.1	452.6	481.9
80°	99.1	112.5	145.6	185.9	226.3	270.3	311.9	351.1	389.0	424.5	455.0
82.5°	63.6	78.3	113.8	154.1	196.9	241.0	283.8	322.9	360.8	396.3	428.1
85°	34.2	50.2	86.8	127.2	170.0	214.1	256.9	298.5	335.2	368.2	402.4
87.5°	9.8	29.4	64.8	105.2	149.2	189.6	231.2	272.8	309.5	344.9	375.5
90°	1.2	17.1	48.9	86.8	129.7	168.8	210.4	249.5	286.2	321.7	352.3
92.5°	1.2	11.0	37.9	72.2	111.3	151.7	193.3	231.2	265.4	300.9	331.5
95°	1.2	8.6	30.6	61.2	97.9	135.8	174.9	211.6	247.1	280.1	310.7
97.5°	1.2	6.1	24.5	52.6	85.6	121.1	159.0	195.7	230.0	261.8	289.9
100°	1.2	4.9	19.6	45.3	74.6	108.9	143.1	178.6	211.6	242.2	271.6
102.5°	1.2	3.7	17.1	37.9	66.1	96.6	129.7	162.7	194.5	223.8	253.2
105°	1.2	3.7	14.7	33.0	58.7	86.8	117.4	149.2	178.6	206.7	233.6
107.5°	1.2	2.4	12.2	28.1	51.4	78.3	106.4	137.0	163.9	190.8	216.5
110°	1.2	2.4	9.8	25.7	45.3	69.7	96.6	124.8	150.5	176.1	200.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.2	2.4	8.6	22.0	39.1	62.4	86.8	112.5	137.0	162.7	184.7
115°	1.2	2.4	7.3	19.6	36.7	53.8	78.3	101.5	126.0	149.2	170.0
117.5°	1.2	2.4	6.1	15.9	31.8	48.9	68.5	91.7	113.8	135.8	155.3
120°	1.2	2.4	4.9	14.7	28.1	44.0	61.2	82.0	102.7	123.5	144.3
122.5°	1.2	1.2	4.9	12.2	24.5	39.1	56.3	72.2	91.7	111.3	129.7
125°	1.2	1.2	4.9	11.0	20.8	35.5	50.2	64.8	82.0	99.1	115.0
127.5°	1.2	1.2	3.7	8.6	18.3	30.6	44.0	59.9	72.2	88.1	104.0
130°	1.2	1.2	3.7	7.3	15.9	25.7	39.1	52.6	67.3	78.3	91.7
132.5°	1.2	1.2	3.7	6.1	12.2	20.8	33.0	45.3	58.7	70.9	82.0
135°	1.2	1.2	2.4	4.9	9.8	17.1	26.9	37.9	51.4	63.6	74.6
137.5°	1.2	1.2	2.4	4.9	7.3	14.7	20.8	30.6	42.8	53.8	64.8
140°	1.2	1.2	2.4	3.7	6.1	11.0	17.1	24.5	34.2	44.0	56.3
142.5°	1.2	1.2	1.2	3.7	4.9	8.6	13.5	19.6	26.9	35.5	45.3
145°	1.2	1.2	1.2	3.7	4.9	6.1	11.0	15.9	20.8	26.9	35.5
147.5°	1.2	1.2	1.2	2.4	3.7	4.9	8.6	12.2	15.9	20.8	25.7
150°	1.2	1.2	1.2	2.4	3.7	4.9	6.1	8.6	12.2	17.1	20.8
152.5°	1.2	1.2	1.2	2.4	2.4	3.7	4.9	6.1	8.6	12.2	14.7
155°	1.2	1.2	1.2	1.2	2.4	3.7	4.9	4.9	6.1	8.6	11.0
157.5°	1.2	1.2	1.2	1.2	2.4	2.4	3.7	3.7	4.9	4.9	7.3
160°	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.7	3.7	3.7	3.7
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	3.7	3.7
165°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6
2.5°	1151.0	1152.3	1155.9	1155.9	1153.5	1153.5	1152.3	1151.0	1152.3	1154.7	1154.7
5°	1148.6	1149.8	1153.5	1154.7	1152.3	1151.0	1151.0	1149.8	1151.0	1153.5	1153.5
7.5°	1143.7	1144.9	1148.6	1149.8	1147.4	1147.4	1146.1	1144.9	1147.4	1148.6	1148.6
10°	1136.4	1137.6	1142.5	1143.7	1142.5	1141.3	1141.3	1140.0	1141.3	1143.7	1143.7
12.5°	1126.6	1129.0	1135.1	1135.1	1135.1	1133.9	1133.9	1132.7	1133.9	1136.4	1135.1
15°	1115.6	1120.5	1125.3	1127.8	1127.8	1127.8	1126.6	1125.3	1127.8	1129.0	1127.8
17.5°	1103.3	1109.4	1116.8	1119.2	1119.2	1120.5	1119.2	1118.0	1120.5	1120.5	1119.2
20°	1091.1	1097.2	1104.6	1107.0	1109.4	1110.7	1110.7	1109.4	1110.7	1111.9	1110.7
22.5°	1075.2	1082.5	1091.1	1094.8	1097.2	1099.7	1099.7	1099.7	1100.9	1102.1	1099.7
25°	1058.1	1066.6	1076.4	1080.1	1085.0	1086.2	1087.4	1087.4	1088.7	1089.9	1086.2
27.5°	1039.7	1049.5	1059.3	1065.4	1069.1	1071.5	1071.5	1072.8	1074.0	1075.2	1071.5
30°	1017.7	1032.4	1040.9	1045.8	1050.7	1054.4	1055.6	1056.9	1058.1	1059.3	1055.6
32.5°	998.1	1010.4	1021.4	1027.5	1033.6	1038.5	1039.7	1039.7	1042.2	1042.2	1038.5
35°	974.9	989.6	1000.6	1006.7	1014.0	1017.7	1020.2	1020.2	1022.6	1022.6	1018.9
37.5°	951.7	966.3	978.6	985.9	994.5	999.4	1000.6	1000.6	1003.0	1003.0	998.1
40°	927.2	943.1	956.5	965.1	972.4	978.6	979.8	983.5	983.5	982.2	977.3
42.5°	902.7	917.4	932.1	941.9	951.7	957.8	960.2	961.4	961.4	960.2	956.5
45°	875.8	892.9	906.4	918.6	928.4	934.5	938.2	939.4	939.4	937.0	933.3
47.5°	850.1	867.3	880.7	894.2	903.9	911.3	915.0	916.2	915.0	913.7	910.1
50°	823.2	842.8	856.2	869.7	879.5	885.6	891.7	892.9	891.7	890.5	883.2
52.5°	795.1	815.9	830.6	844.0	855.0	862.4	867.3	868.5	868.5	866.0	861.1
55°	767.0	785.3	803.6	818.3	830.6	837.9	844.0	846.5	844.0	841.6	835.5
57.5°	741.3	758.4	776.7	792.6	804.9	814.7	819.5	822.0	819.5	815.9	809.8
60°	710.7	729.0	749.8	764.5	778.0	787.7	790.2	795.1	792.6	789.0	782.9
62.5°	681.3	703.3	721.7	740.0	751.0	762.1	767.0	769.4	767.0	763.3	757.2
65°	650.7	675.2	693.6	711.9	724.1	735.1	741.3	742.5	740.0	736.4	730.3
67.5°	622.6	645.9	665.4	685.0	696.0	707.0	713.1	715.6	713.1	708.2	702.1
70°	594.5	617.7	641.0	655.6	669.1	681.3	685.0	688.7	686.2	681.3	674.0
72.5°	566.3	590.8	614.0	628.7	643.4	654.4	659.3	663.0	660.5	655.6	647.1
75°	537.0	562.7	585.9	601.8	616.5	627.5	632.4	636.1	633.6	628.7	618.9
77.5°	510.1	535.8	557.8	574.9	589.6	599.4	607.9	609.2	606.7	601.8	592.0
80°	481.9	507.6	530.9	548.0	562.7	572.5	578.6	582.2	579.8	574.9	565.1
82.5°	457.5	480.7	504.0	521.1	535.8	548.0	552.9	556.6	555.3	548.0	540.7
85°	430.6	457.5	475.8	494.2	508.9	521.1	524.8	529.6	528.4	522.3	512.5
87.5°	403.7	430.6	452.6	470.9	484.4	494.2	500.3	502.7	501.5	495.4	484.4
90°	381.6	406.1	428.1	447.7	458.7	469.7	475.8	477.1	477.1	469.7	461.1
92.5°	360.8	384.1	406.1	424.5	437.9	447.7	452.6	455.0	453.8	447.7	437.9
95°	337.6	363.3	384.1	402.4	415.9	425.7	430.6	433.0	431.8	425.7	415.9
97.5°	318.0	341.3	362.1	379.2	392.6	402.4	407.3	409.8	409.8	403.7	393.9
100°	298.5	321.7	341.3	358.4	370.6	380.4	385.3	386.5	385.3	380.4	370.6
102.5°	278.9	300.9	320.5	336.4	349.8	358.4	363.3	364.5	364.5	358.4	348.6
105°	259.3	281.3	299.7	316.8	327.8	336.4	340.1	343.7	342.5	337.6	327.8
107.5°	241.0	263.0	280.1	296.0	307.0	315.6	319.3	322.9	321.7	316.8	307.0
110°	223.8	244.6	260.5	276.4	286.2	294.8	300.9	302.1	299.7	294.8	286.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	207.9	226.3	242.2	256.9	267.9	274.0	278.9	281.3	278.9	274.0	267.9
115°	190.8	209.2	225.1	238.5	248.3	255.7	259.3	261.8	259.3	254.4	248.3
117.5°	174.9	192.0	207.9	221.4	230.0	236.1	239.7	242.2	239.7	236.1	230.0
120°	161.5	176.1	190.8	203.1	212.8	217.7	221.4	223.8	222.6	217.7	211.6
122.5°	145.6	161.5	174.9	187.2	195.7	200.6	203.1	205.5	204.3	200.6	194.5
125°	132.1	145.6	159.0	170.0	178.6	183.5	185.9	188.4	187.2	183.5	176.1
127.5°	117.4	132.1	143.1	154.1	160.2	167.6	168.8	171.2	170.0	166.4	160.2
130°	106.4	117.4	128.4	138.2	145.6	150.5	152.9	154.1	151.7	149.2	143.1
132.5°	93.0	105.2	115.0	123.5	128.4	133.3	135.8	137.0	137.0	133.3	128.4
135°	83.2	91.7	100.3	108.9	113.8	118.7	121.1	122.3	121.1	118.7	113.8
137.5°	74.6	82.0	88.1	95.4	101.5	104.0	106.4	106.4	105.2	104.0	100.3
140°	64.8	73.4	79.5	84.4	89.3	90.5	93.0	93.0	91.7	90.5	88.1
142.5°	55.0	62.4	68.5	74.6	78.3	80.7	82.0	83.2	82.0	80.7	77.1
145°	44.0	52.6	58.7	62.4	67.3	68.5	69.7	70.9	69.7	68.5	64.8
147.5°	34.2	41.6	47.7	52.6	56.3	57.5	58.7	59.9	58.7	56.3	55.0
150°	24.5	30.6	37.9	42.8	45.3	47.7	47.7	47.7	48.9	46.5	44.0
152.5°	19.6	22.0	26.9	31.8	35.5	36.7	37.9	37.9	36.7	36.7	34.2
155°	13.5	15.9	19.6	23.2	26.9	28.1	29.4	29.4	28.1	28.1	26.9
157.5°	8.6	11.0	13.5	15.9	19.6	20.8	22.0	22.0	22.0	20.8	19.6
160°	4.9	6.1	7.3	9.8	12.2	13.5	14.7	14.7	14.7	14.7	13.5
162.5°	3.7	3.7	3.7	4.9	6.1	7.3	8.6	8.6	8.6	8.6	7.3
165°	2.4	2.4	2.4	2.4	2.4	3.7	4.9	4.9	4.9	4.9	4.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6
2.5°	1153.5	1153.5	1154.7	1152.3	1144.9	1146.1	1146.1	1151.0	1153.5	1154.7	1160.8
5°	1151.0	1151.0	1153.5	1149.8	1143.7	1143.7	1143.7	1148.6	1149.8	1152.3	1157.2
7.5°	1147.4	1147.4	1148.6	1144.9	1137.6	1137.6	1136.4	1141.3	1143.7	1144.9	1149.8
10°	1141.3	1141.3	1142.5	1138.8	1130.2	1130.2	1129.0	1132.7	1133.9	1136.4	1140.0
12.5°	1132.7	1132.7	1132.7	1129.0	1120.5	1119.2	1118.0	1121.7	1121.7	1122.9	1126.6
15°	1125.3	1122.9	1122.9	1119.2	1110.7	1108.2	1105.8	1107.0	1109.4	1108.2	1110.7
17.5°	1116.8	1114.3	1111.9	1108.2	1097.2	1093.5	1091.1	1092.3	1091.1	1089.9	1092.3
20°	1107.0	1103.3	1102.1	1096.0	1085.0	1078.9	1074.0	1071.5	1072.8	1069.1	1070.3
22.5°	1096.0	1091.1	1088.7	1081.3	1070.3	1063.0	1056.9	1052.0	1050.7	1045.8	1047.1
25°	1082.5	1076.4	1072.8	1066.6	1054.4	1045.8	1038.5	1031.2	1027.5	1021.4	1020.2
27.5°	1066.6	1060.5	1055.6	1049.5	1037.3	1026.3	1017.7	1007.9	1003.0	995.7	992.0
30°	1050.7	1043.4	1036.1	1031.2	1017.7	1005.5	992.0	983.5	976.1	967.6	961.4
32.5°	1031.2	1023.8	1016.5	1009.1	996.9	982.2	971.2	957.8	949.2	939.4	932.1
35°	1011.6	1001.8	994.5	984.7	973.7	956.5	943.1	929.6	918.6	907.6	899.1
37.5°	989.6	982.2	971.2	962.7	949.2	932.1	917.4	900.3	890.5	875.8	864.8
40°	968.8	960.2	949.2	938.2	924.7	905.2	889.3	869.7	858.7	841.6	830.6
42.5°	948.0	935.8	924.7	912.5	897.8	879.5	859.9	840.3	825.7	809.8	793.9
45°	924.7	911.3	897.8	884.4	869.7	851.4	830.6	809.8	791.4	776.7	757.2
47.5°	900.3	886.8	870.9	856.2	840.3	822.0	800.0	778.0	758.4	741.3	720.5
50°	875.8	862.4	845.2	829.3	811.0	792.6	769.4	743.7	722.9	700.9	682.5
52.5°	850.1	836.7	820.8	800.0	780.4	762.1	737.6	710.7	687.4	669.1	645.9
55°	824.4	811.0	792.6	771.8	752.3	729.0	705.8	678.9	653.2	631.2	607.9
57.5°	797.5	785.3	764.5	747.4	722.9	698.5	674.0	648.3	620.2	594.5	567.6
60°	770.6	757.2	737.6	716.8	692.3	667.9	642.2	614.0	584.7	556.6	532.1
62.5°	746.2	729.0	710.7	688.7	663.0	639.7	610.4	579.8	550.4	521.1	491.7
65°	718.0	699.7	682.5	660.5	633.6	606.7	577.4	546.8	515.0	483.2	453.8
67.5°	689.9	671.5	653.2	631.2	603.0	574.9	544.3	513.7	478.3	447.7	413.4
70°	661.8	647.1	623.8	600.6	574.9	544.3	513.7	480.7	444.0	411.0	375.5
72.5°	633.6	618.9	595.7	571.2	546.8	515.0	481.9	448.9	414.7	376.7	338.8
75°	606.7	588.4	567.6	544.3	518.6	485.6	452.6	418.3	378.0	342.5	303.4
77.5°	581.0	563.9	543.1	517.4	489.3	457.5	423.2	387.8	347.4	309.5	266.7
80°	552.9	535.8	515.0	489.3	461.1	430.6	393.9	357.2	318.0	276.4	232.4
82.5°	526.0	510.1	486.8	463.6	433.0	402.4	365.7	329.0	287.5	247.1	204.3
85°	497.8	481.9	459.9	435.5	406.1	373.1	338.8	302.1	260.5	219.0	176.1
87.5°	473.4	455.0	433.0	408.6	379.2	347.4	314.4	275.2	234.9	194.5	150.5
90°	447.7	430.6	408.6	384.1	354.7	322.9	288.7	252.0	212.8	171.2	129.7
92.5°	425.7	407.3	386.5	362.1	332.7	302.1	267.9	231.2	193.3	152.9	112.5
95°	403.7	385.3	365.7	341.3	311.9	281.3	247.1	211.6	174.9	135.8	97.9
97.5°	379.2	363.3	343.7	320.5	291.1	261.8	228.7	194.5	159.0	121.1	85.6
100°	359.6	341.3	322.9	298.5	271.6	243.4	210.4	177.4	143.1	107.6	74.6
102.5°	337.6	320.5	302.1	278.9	252.0	223.8	193.3	161.5	129.7	96.6	64.8
105°	316.8	300.9	281.3	259.3	233.6	206.7	177.4	148.0	117.4	85.6	57.5
107.5°	296.0	280.1	261.8	241.0	216.5	189.6	162.7	133.3	105.2	77.1	51.4
110°	275.2	260.5	243.4	222.6	199.4	174.9	149.2	122.3	94.2	68.5	45.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	256.9	242.2	225.1	205.5	183.5	160.2	135.8	110.1	84.4	61.2	39.1
115°	238.5	225.1	207.9	190.8	168.8	146.8	123.5	99.1	75.8	55.0	34.2
117.5°	220.2	206.7	190.8	173.7	154.1	133.3	111.3	88.1	68.5	48.9	30.6
120°	201.8	189.6	174.9	159.0	141.9	121.1	99.1	79.5	61.2	42.8	26.9
122.5°	184.7	173.7	160.2	145.6	127.2	107.6	89.3	72.2	55.0	37.9	22.0
125°	168.8	157.8	145.6	130.9	113.8	96.6	80.7	64.8	47.7	33.0	18.3
127.5°	152.9	141.9	129.7	116.2	102.7	86.8	72.2	57.5	42.8	29.4	15.9
130°	137.0	127.2	116.2	105.2	91.7	77.1	64.8	50.2	36.7	23.2	13.5
132.5°	121.1	113.8	104.0	93.0	80.7	69.7	56.3	44.0	31.8	20.8	12.2
135°	107.6	100.3	91.7	82.0	72.2	61.2	48.9	37.9	26.9	17.1	9.8
137.5°	95.4	89.3	80.7	72.2	63.6	52.6	42.8	31.8	22.0	14.7	7.3
140°	84.4	78.3	70.9	62.4	55.0	45.3	35.5	25.7	19.6	12.2	6.1
142.5°	73.4	67.3	61.2	53.8	46.5	37.9	29.4	22.0	15.9	9.8	6.1
145°	62.4	57.5	51.4	45.3	37.9	30.6	24.5	18.3	12.2	7.3	4.9
147.5°	51.4	47.7	41.6	36.7	30.6	24.5	19.6	14.7	9.8	6.1	3.7
150°	41.6	37.9	33.0	28.1	24.5	19.6	15.9	11.0	7.3	6.1	3.7
152.5°	31.8	29.4	25.7	23.2	19.6	14.7	11.0	8.6	6.1	4.9	2.4
155°	25.7	23.2	20.8	17.1	14.7	11.0	8.6	6.1	4.9	3.7	2.4
157.5°	18.3	17.1	14.7	12.2	9.8	7.3	6.1	6.1	3.7	2.4	1.2
160°	12.2	11.0	9.8	7.3	6.1	6.1	4.9	3.7	2.4	2.4	1.2
162.5°	7.3	6.1	6.1	6.1	4.9	4.9	3.7	2.4	2.4	1.2	1.2
165°	4.9	4.9	4.9	3.7	3.7	3.7	2.4	1.2	1.2	1.2	1.2
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6
2.5°	1160.8	1157.2	1162.0	1170.6	1171.8	1170.6	1168.2	1171.8	1176.7	1175.5	1166.9
5°	1158.4	1153.5	1158.4	1166.9	1166.9	1165.7	1164.5	1168.2	1173.1	1171.8	1164.5
7.5°	1151.0	1146.1	1151.0	1158.4	1159.6	1157.2	1157.2	1160.8	1165.7	1164.5	1158.4
10°	1141.3	1136.4	1138.8	1147.4	1149.8	1147.4	1147.4	1151.0	1157.2	1155.9	1148.6
12.5°	1126.6	1122.9	1125.3	1132.7	1135.1	1133.9	1132.7	1137.6	1143.7	1143.7	1136.4
15°	1110.7	1105.8	1108.2	1116.8	1118.0	1115.6	1116.8	1120.5	1127.8	1127.8	1121.7
17.5°	1092.3	1086.2	1089.9	1096.0	1097.2	1097.2	1097.2	1102.1	1110.7	1109.4	1104.6
20°	1071.5	1063.0	1065.4	1071.5	1074.0	1074.0	1074.0	1082.5	1088.7	1088.7	1083.8
22.5°	1047.1	1040.9	1040.9	1047.1	1050.7	1049.5	1049.5	1056.9	1065.4	1064.2	1064.2
25°	1018.9	1014.0	1011.6	1018.9	1020.2	1021.4	1023.8	1031.2	1040.9	1040.9	1042.2
27.5°	989.6	984.7	983.5	989.6	990.8	992.0	994.5	1003.0	1012.8	1014.0	1016.5
30°	961.4	954.1	951.7	956.5	959.0	960.2	960.2	973.7	982.2	985.9	990.8
32.5°	928.4	921.1	915.0	923.5	924.7	927.2	928.4	941.9	951.7	957.8	965.1
35°	895.4	883.2	880.7	886.8	889.3	890.5	892.9	907.6	921.1	926.0	935.8
37.5°	858.7	850.1	842.8	848.9	851.4	852.6	859.9	873.4	886.8	894.2	903.9
40°	824.4	813.4	807.3	811.0	813.4	814.7	823.2	837.9	853.8	862.4	874.6
42.5°	786.5	771.8	767.0	770.6	771.8	775.5	782.9	802.4	818.3	830.6	840.3
45°	748.6	737.6	726.6	730.3	731.5	733.9	744.9	765.7	782.9	797.5	808.5
47.5°	709.5	696.0	685.0	687.4	692.3	693.6	705.8	730.3	746.2	762.1	776.7
50°	670.3	652.0	643.4	643.4	645.9	652.0	667.9	692.3	709.5	727.8	743.7
52.5°	630.0	612.8	603.0	604.3	606.7	614.0	628.7	653.2	672.8	692.3	711.9
55°	589.6	571.2	561.5	559.0	561.5	571.2	588.4	614.0	633.6	656.9	677.7
57.5°	549.2	527.2	518.6	515.0	517.4	529.6	546.8	573.7	598.1	620.2	644.6
60°	505.2	488.1	473.4	464.8	470.9	486.8	505.2	533.3	559.0	583.5	610.4
62.5°	467.3	445.2	429.3	420.8	426.9	440.4	466.0	493.0	521.1	549.2	576.1
65°	424.5	402.4	384.1	375.5	381.6	397.5	423.2	452.6	483.2	511.3	543.1
67.5°	382.9	359.6	337.6	329.0	336.4	353.5	381.6	414.7	447.7	477.1	511.3
70°	342.5	316.8	293.6	287.5	292.3	315.6	342.5	375.5	409.8	444.0	479.5
72.5°	305.8	274.0	249.5	242.2	248.3	274.0	304.6	338.8	375.5	412.2	450.1
75°	263.0	233.6	206.7	198.2	205.5	228.7	266.7	303.4	342.5	381.6	417.1
77.5°	228.7	194.5	166.4	152.9	165.1	194.5	231.2	270.3	310.7	351.1	391.4
80°	193.3	157.8	127.2	112.5	126.0	157.8	194.5	237.3	282.6	322.9	359.6
82.5°	161.5	123.5	91.7	75.8	90.5	126.0	166.4	209.2	253.2	293.6	336.4
85°	132.1	93.0	59.9	42.8	63.6	95.4	138.2	182.3	227.5	269.1	310.7
87.5°	107.6	69.7	36.7	18.3	39.1	74.6	115.0	159.0	204.3	245.9	285.0
90°	88.1	50.2	19.6	2.4	23.2	56.3	95.4	138.2	181.0	223.8	263.0
92.5°	72.2	37.9	11.0	1.2	14.7	45.3	82.0	122.3	163.9	205.5	243.4
95°	59.9	29.4	7.3	1.2	11.0	35.5	69.7	108.9	148.0	188.4	226.3
97.5°	51.4	24.5	6.1	1.2	8.6	30.6	59.9	96.6	134.6	172.5	209.2
100°	44.0	19.6	4.9	1.2	7.3	25.7	52.6	85.6	121.1	157.8	193.3
102.5°	37.9	15.9	3.7	1.2	6.1	22.0	46.5	77.1	108.9	144.3	178.6
105°	33.0	13.5	3.7	1.2	4.9	19.6	41.6	68.5	100.3	132.1	165.1
107.5°	28.1	11.0	2.4	1.2	3.7	15.9	36.7	62.4	90.5	121.1	151.7
110°	24.5	9.8	2.4	1.2	3.7	14.7	31.8	56.3	82.0	110.1	139.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	20.8	7.3	2.4	1.2	2.4	12.2	28.1	50.2	74.6	100.3	128.4
115°	18.3	6.1	1.2	1.2	2.4	11.0	25.7	45.3	67.3	91.7	117.4
117.5°	14.7	4.9	1.2	1.2	1.2	8.6	22.0	40.4	61.2	84.4	107.6
120°	12.2	4.9	1.2	1.2	1.2	7.3	19.6	35.5	55.0	75.8	97.9
122.5°	11.0	3.7	1.2	1.2	1.2	6.1	17.1	31.8	48.9	68.5	89.3
125°	9.8	3.7	1.2	1.2	1.2	4.9	14.7	28.1	44.0	61.2	80.7
127.5°	7.3	3.7	1.2	1.2	1.2	3.7	13.5	24.5	39.1	55.0	72.2
130°	6.1	2.4	1.2	1.2	1.2	3.7	11.0	22.0	34.2	48.9	64.8
132.5°	4.9	2.4	1.2	1.2	1.2	2.4	8.6	17.1	29.4	42.8	57.5
135°	4.9	2.4	1.2	1.2	1.2	2.4	6.1	14.7	24.5	36.7	48.9
137.5°	4.9	1.2	1.2	1.2	1.2	2.4	4.9	11.0	19.6	29.4	40.4
140°	3.7	1.2	1.2	1.2	1.2	1.2	3.7	8.6	15.9	24.5	34.2
142.5°	3.7	1.2	1.2	1.2	1.2	1.2	3.7	6.1	12.2	19.6	26.9
145°	2.4	1.2	1.2	1.2	1.2	1.2	2.4	4.9	9.8	14.7	22.0
147.5°	2.4	1.2	1.2	1.2	1.2	1.2	2.4	3.7	7.3	12.2	17.1
150°	2.4	1.2	1.2	1.2	1.2	1.2	2.4	3.7	4.9	8.6	13.5
152.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.7	6.1	8.6
155°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.7	4.9	6.1
157.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.7	4.9
160°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.7
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4
165°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6
2.5°	1163.3	1154.7	1157.2	1155.9	1158.4	1162.0	1162.0	1160.8	1160.8	1158.4	1155.9
5°	1160.8	1152.3	1155.9	1154.7	1157.2	1160.8	1160.8	1159.6	1159.6	1155.9	1154.7
7.5°	1153.5	1147.4	1149.8	1149.8	1152.3	1155.9	1155.9	1154.7	1154.7	1151.0	1149.8
10°	1146.1	1138.8	1142.5	1142.5	1144.9	1149.8	1149.8	1148.6	1148.6	1144.9	1143.7
12.5°	1133.9	1126.6	1132.7	1133.9	1136.4	1141.3	1140.0	1140.0	1140.0	1136.4	1135.1
15°	1119.2	1114.3	1120.5	1121.7	1125.3	1131.5	1131.5	1131.5	1131.5	1127.8	1126.6
17.5°	1103.3	1099.7	1105.8	1108.2	1113.1	1119.2	1119.2	1120.5	1121.7	1119.2	1118.0
20°	1085.0	1082.5	1088.7	1093.5	1100.9	1107.0	1109.4	1110.7	1113.1	1110.7	1109.4
22.5°	1064.2	1064.2	1072.8	1077.6	1086.2	1092.3	1096.0	1099.7	1102.1	1099.7	1098.4
25°	1040.9	1044.6	1053.2	1061.7	1071.5	1077.6	1081.3	1086.2	1088.7	1087.4	1086.2
27.5°	1018.9	1023.8	1034.8	1043.4	1052.0	1061.7	1065.4	1071.5	1074.0	1074.0	1072.8
30°	993.2	1000.6	1012.8	1022.6	1033.6	1043.4	1048.3	1054.4	1058.1	1055.6	1056.9
32.5°	968.8	981.0	990.8	1001.8	1014.0	1023.8	1029.9	1037.3	1040.9	1039.7	1040.9
35°	941.9	954.1	967.6	978.6	993.2	1003.0	1011.6	1017.7	1022.6	1021.4	1021.4
37.5°	912.5	928.4	941.9	956.5	970.0	981.0	989.6	996.9	1001.8	1001.8	1001.8
40°	884.4	901.5	915.0	932.1	949.2	959.0	968.8	976.1	981.0	982.2	983.5
42.5°	853.8	872.1	888.0	906.4	923.5	935.8	946.8	955.3	960.2	962.7	961.4
45°	825.7	842.8	861.1	881.9	897.8	910.1	923.5	933.3	938.2	939.4	940.6
47.5°	793.9	813.4	834.2	855.0	870.9	886.8	899.1	908.8	913.7	917.4	917.4
50°	763.3	784.1	807.3	829.3	846.5	862.4	874.6	885.6	891.7	894.2	895.4
52.5°	735.1	754.7	779.2	801.2	818.3	834.2	850.1	862.4	868.5	870.9	870.9
55°	700.9	725.4	752.3	773.1	791.4	809.8	825.7	837.9	844.0	847.7	850.1
57.5°	669.1	694.8	722.9	744.9	767.0	784.1	798.8	814.7	819.5	824.4	825.7
60°	638.5	664.2	691.1	715.6	737.6	755.9	773.1	786.5	795.1	797.5	800.0
62.5°	606.7	633.6	661.8	686.2	709.5	731.5	747.4	759.6	769.4	773.1	775.5
65°	576.1	604.3	632.4	658.1	682.5	704.6	720.5	732.7	742.5	748.6	749.8
67.5°	543.1	573.7	603.0	630.0	654.4	677.7	693.6	705.8	715.6	722.9	724.1
70°	512.5	544.3	573.7	603.0	627.5	650.7	667.9	680.1	691.1	696.0	698.5
72.5°	483.2	516.2	546.8	576.1	600.6	623.8	642.2	654.4	665.4	671.5	672.8
75°	455.0	488.1	521.1	549.2	574.9	598.1	616.5	630.0	639.7	645.9	648.3
77.5°	426.9	461.1	494.2	522.3	549.2	572.5	588.4	604.3	614.0	621.4	621.4
80°	398.8	434.2	468.5	496.6	523.5	544.3	562.7	578.6	588.4	595.7	595.7
82.5°	374.3	408.6	441.6	469.7	496.6	519.9	538.2	552.9	563.9	568.8	570.0
85°	346.2	384.1	414.7	445.2	470.9	493.0	511.3	527.2	537.0	541.9	544.3
87.5°	322.9	359.6	392.6	419.6	445.2	467.3	488.1	501.5	511.3	517.4	519.9
90°	300.9	336.4	369.4	396.3	423.2	444.0	463.6	477.1	488.1	493.0	495.4
92.5°	281.3	316.8	348.6	375.5	401.2	424.5	442.8	456.3	466.0	470.9	474.6
95°	263.0	297.2	327.8	357.2	381.6	402.4	422.0	435.5	446.5	450.1	453.8
97.5°	244.6	277.7	308.2	336.4	362.1	381.6	400.0	413.4	422.0	428.1	431.8
100°	228.7	260.5	289.9	316.8	341.3	359.6	379.2	391.4	400.0	404.9	409.8
102.5°	211.6	243.4	271.6	297.2	322.9	340.1	358.4	370.6	378.0	386.5	386.5
105°	196.9	226.3	254.4	278.9	300.9	321.7	337.6	349.8	358.4	364.5	364.5
107.5°	181.0	210.4	237.3	263.0	283.8	303.4	318.0	329.0	338.8	342.5	346.2
110°	168.8	194.5	221.4	245.9	265.4	283.8	298.5	310.7	319.3	322.9	325.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	154.1	181.0	205.5	228.7	248.3	265.4	280.1	289.9	298.5	303.4	304.6
115°	141.9	167.6	189.6	211.6	232.4	247.1	260.5	270.3	278.9	282.6	285.0
117.5°	130.9	154.1	176.1	194.5	214.1	230.0	243.4	252.0	259.3	264.2	266.7
120°	119.9	141.9	161.5	179.8	198.2	212.8	225.1	233.6	242.2	245.9	245.9
122.5°	108.9	129.7	148.0	165.1	182.3	195.7	209.2	216.5	223.8	227.5	227.5
125°	99.1	118.7	135.8	151.7	167.6	179.8	190.8	199.4	206.7	209.2	209.2
127.5°	89.3	107.6	123.5	138.2	151.7	163.9	174.9	183.5	189.6	192.0	192.0
130°	80.7	96.6	111.3	126.0	139.4	149.2	160.2	167.6	171.2	174.9	176.1
132.5°	72.2	86.8	100.3	112.5	126.0	135.8	144.3	151.7	155.3	159.0	160.2
135°	63.6	77.1	89.3	101.5	112.5	122.3	129.7	135.8	140.7	143.1	144.3
137.5°	53.8	68.5	79.5	89.3	101.5	108.9	117.4	121.1	126.0	128.4	128.4
140°	45.3	56.3	68.5	78.3	88.1	95.4	102.7	108.9	112.5	113.8	113.8
142.5°	36.7	46.5	56.3	68.5	77.1	83.2	90.5	95.4	97.9	99.1	100.3
145°	29.4	36.7	45.3	56.3	66.1	73.4	77.1	82.0	84.4	85.6	86.8
147.5°	22.0	29.4	36.7	44.0	53.8	61.2	64.8	69.7	72.2	73.4	73.4
150°	17.1	22.0	26.9	34.2	41.6	50.2	55.0	58.7	59.9	61.2	61.2
152.5°	12.2	17.1	20.8	25.7	30.6	37.9	45.3	47.7	48.9	50.2	50.2
155°	8.6	12.2	14.7	18.3	22.0	28.1	34.2	37.9	39.1	40.4	40.4
157.5°	6.1	8.6	9.8	13.5	15.9	18.3	23.2	29.4	30.6	30.6	30.6
160°	3.7	4.9	6.1	8.6	9.8	12.2	14.7	18.3	22.0	22.0	22.0
162.5°	2.4	3.7	3.7	4.9	4.9	7.3	8.6	9.8	13.5	14.7	14.7
165°	1.2	2.4	2.4	2.4	2.4	2.4	3.7	3.7	6.1	7.3	7.3
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6
2.5°	1157.2	1159.6	1158.4	1158.4	1158.4	1160.8	1158.4	1147.4	1149.8	1152.3	1154.7
5°	1155.9	1157.2	1157.2	1155.9	1155.9	1158.4	1155.9	1144.9	1147.4	1149.8	1151.0
7.5°	1151.0	1152.3	1152.3	1152.3	1151.0	1153.5	1149.8	1140.0	1140.0	1142.5	1143.7
10°	1144.9	1147.4	1146.1	1144.9	1144.9	1144.9	1142.5	1131.5	1131.5	1132.7	1133.9
12.5°	1137.6	1137.6	1137.6	1136.4	1135.1	1135.1	1132.7	1121.7	1120.5	1122.9	1121.7
15°	1127.8	1130.2	1127.8	1126.6	1124.1	1124.1	1120.5	1109.4	1107.0	1108.2	1107.0
17.5°	1119.2	1120.5	1118.0	1115.6	1113.1	1111.9	1108.2	1096.0	1092.3	1093.5	1091.1
20°	1110.7	1110.7	1108.2	1105.8	1102.1	1098.4	1093.5	1081.3	1075.2	1075.2	1070.3
22.5°	1099.7	1099.7	1097.2	1093.5	1089.9	1085.0	1080.1	1067.9	1058.1	1055.6	1052.0
25°	1087.4	1086.2	1085.0	1081.3	1074.0	1069.1	1064.2	1050.7	1039.7	1034.8	1028.7
27.5°	1072.8	1072.8	1069.1	1065.4	1058.1	1052.0	1045.8	1033.6	1018.9	1012.8	1004.3
30°	1056.9	1056.9	1053.2	1048.3	1040.9	1033.6	1026.3	1011.6	996.9	988.4	978.6
32.5°	1040.9	1039.7	1036.1	1031.2	1023.8	1012.8	1006.7	992.0	974.9	965.1	951.7
35°	1021.4	1020.2	1016.5	1010.4	1000.6	992.0	982.2	968.8	949.2	937.0	922.3
37.5°	1001.8	1000.6	998.1	989.6	979.8	970.0	957.8	944.3	926.0	910.1	895.4
40°	982.2	981.0	976.1	970.0	957.8	945.5	933.3	919.9	900.3	881.9	866.0
42.5°	961.4	960.2	954.1	946.8	933.3	921.1	906.4	891.7	872.1	850.1	834.2
45°	940.6	938.2	932.1	923.5	908.8	895.4	880.7	863.6	844.0	823.2	802.4
47.5°	918.6	915.0	908.8	896.6	884.4	869.7	852.6	834.2	814.7	791.4	769.4
50°	894.2	891.7	884.4	873.4	858.7	844.0	824.4	806.1	782.9	760.8	733.9
52.5°	870.9	866.0	859.9	847.7	833.0	817.1	796.3	774.3	751.0	730.3	702.1
55°	846.5	844.0	835.5	825.7	807.3	789.0	769.4	746.2	720.5	696.0	669.1
57.5°	823.2	818.3	811.0	797.5	781.6	763.3	742.5	718.0	689.9	664.2	634.8
60°	800.0	792.6	784.1	771.8	754.7	735.1	713.1	687.4	659.3	631.2	600.6
62.5°	774.3	768.2	758.4	746.2	729.0	708.2	685.0	658.1	631.2	601.8	568.8
65°	748.6	742.5	732.7	720.5	703.3	680.1	655.6	628.7	598.1	570.0	534.5
67.5°	722.9	716.8	705.8	692.3	675.2	653.2	627.5	599.4	568.8	538.2	501.5
70°	697.2	689.9	680.1	665.4	648.3	625.1	599.4	570.0	539.4	506.4	469.7
72.5°	671.5	665.4	653.2	639.7	621.4	598.1	572.5	543.1	511.3	477.1	440.4
75°	645.9	638.5	630.0	614.0	594.5	572.5	545.6	516.2	481.9	448.9	411.0
77.5°	620.2	614.0	603.0	587.1	568.8	545.6	518.6	489.3	455.0	420.8	380.4
80°	594.5	587.1	578.6	563.9	543.1	519.9	491.7	462.4	428.1	392.6	352.3
82.5°	568.8	561.5	551.7	537.0	517.4	494.2	467.3	435.5	401.2	364.5	326.6
85°	543.1	537.0	526.0	511.3	490.5	467.3	440.4	412.2	375.5	338.8	300.9
87.5°	517.4	511.3	500.3	485.6	466.0	442.8	415.9	386.5	351.1	316.8	275.2
90°	493.0	488.1	477.1	462.4	442.8	419.6	395.1	363.3	329.0	294.8	255.7
92.5°	470.9	466.0	456.3	441.6	424.5	398.8	374.3	343.7	309.5	274.0	236.1
95°	451.4	445.2	435.5	422.0	401.2	379.2	354.7	324.1	291.1	255.7	219.0
97.5°	429.3	423.2	413.4	398.8	381.6	358.4	333.9	304.6	271.6	238.5	201.8
100°	407.3	401.2	390.2	378.0	360.8	337.6	314.4	285.0	254.4	222.6	187.2
102.5°	385.3	379.2	369.4	357.2	340.1	319.3	296.0	267.9	237.3	205.5	172.5
105°	364.5	358.4	348.6	336.4	320.5	299.7	275.2	250.8	221.4	190.8	159.0
107.5°	343.7	337.6	329.0	316.8	300.9	281.3	258.1	232.4	205.5	176.1	145.6
110°	322.9	318.0	308.2	297.2	281.3	261.8	241.0	216.5	189.6	162.7	133.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	303.4	298.5	288.7	276.4	263.0	244.6	223.8	200.6	174.9	149.2	121.1
115°	283.8	277.7	269.1	258.1	244.6	227.5	207.9	187.2	161.5	137.0	111.3
117.5°	264.2	259.3	250.8	239.7	227.5	210.4	192.0	172.5	148.0	124.8	101.5
120°	244.6	241.0	232.4	222.6	210.4	194.5	177.4	157.8	135.8	113.8	91.7
122.5°	226.3	222.6	214.1	205.5	193.3	178.6	162.7	144.3	124.8	104.0	84.4
125°	209.2	204.3	196.9	188.4	177.4	163.9	148.0	130.9	112.5	94.2	75.8
127.5°	190.8	187.2	182.3	172.5	161.5	149.2	134.6	119.9	102.7	85.6	68.5
130°	176.1	171.2	165.1	157.8	148.0	135.8	122.3	107.6	93.0	77.1	59.9
132.5°	159.0	154.1	149.2	141.9	133.3	122.3	110.1	96.6	83.2	68.5	53.8
135°	143.1	139.4	134.6	127.2	118.7	110.1	97.9	85.6	73.4	59.9	47.7
137.5°	128.4	124.8	119.9	115.0	106.4	97.9	86.8	75.8	64.8	52.6	41.6
140°	113.8	111.3	106.4	101.5	94.2	85.6	75.8	66.1	56.3	45.3	35.5
142.5°	99.1	96.6	93.0	88.1	82.0	74.6	66.1	57.5	47.7	39.1	30.6
145°	85.6	84.4	80.7	75.8	70.9	63.6	56.3	48.9	40.4	33.0	24.5
147.5°	72.2	70.9	68.5	64.8	59.9	53.8	47.7	40.4	34.2	26.9	19.6
150°	59.9	58.7	57.5	52.6	50.2	44.0	39.1	33.0	28.1	20.8	15.9
152.5°	48.9	48.9	46.5	42.8	40.4	35.5	31.8	26.9	22.0	17.1	12.2
155°	39.1	37.9	36.7	34.2	31.8	28.1	24.5	20.8	17.1	12.2	8.6
157.5°	30.6	29.4	28.1	25.7	23.2	22.0	18.3	14.7	11.0	8.6	6.1
160°	22.0	20.8	19.6	18.3	17.1	14.7	12.2	9.8	7.3	4.9	3.7
162.5°	14.7	13.5	13.5	12.2	11.0	8.6	7.3	6.1	4.9	3.7	2.4
165°	7.3	7.3	6.1	6.1	4.9	3.7	3.7	3.7	2.4	2.4	1.2
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6
2.5°	1153.5	1153.5	1158.4	1157.2	1153.5	1160.8	1169.4
5°	1149.8	1149.8	1153.5	1153.5	1149.8	1157.2	1164.5
7.5°	1143.7	1142.5	1146.1	1146.1	1141.3	1147.4	1155.9
10°	1132.7	1131.5	1135.1	1135.1	1130.2	1136.4	1143.7
12.5°	1120.5	1118.0	1121.7	1120.5	1115.6	1121.7	1129.0
15°	1104.6	1103.3	1105.8	1103.3	1098.4	1104.6	1111.9
17.5°	1088.7	1085.0	1086.2	1086.2	1077.6	1083.8	1089.9
20°	1067.9	1063.0	1064.2	1063.0	1056.9	1060.5	1067.9
22.5°	1047.1	1039.7	1039.7	1038.5	1031.2	1036.1	1042.2
25°	1021.4	1012.8	1012.8	1011.6	1003.0	1006.7	1012.8
27.5°	995.7	987.1	983.5	982.2	973.7	973.7	982.2
30°	968.8	956.5	954.1	950.4	941.9	941.9	949.2
32.5°	943.1	926.0	921.1	916.2	907.6	906.4	915.0
35°	908.8	895.4	886.8	881.9	872.1	869.7	877.0
37.5°	880.7	863.6	851.4	845.2	835.5	831.8	841.6
40°	850.1	831.8	815.9	812.2	797.5	792.6	801.2
42.5°	815.9	796.3	780.4	773.1	762.1	757.2	758.4
45°	781.6	760.8	743.7	733.9	722.9	714.4	719.2
47.5°	746.2	727.8	707.0	692.3	678.9	672.8	675.2
50°	710.7	688.7	669.1	653.2	637.3	630.0	634.8
52.5°	675.2	652.0	630.0	612.8	594.5	587.1	588.4
55°	641.0	616.5	590.8	572.5	555.3	544.3	541.9
57.5°	606.7	579.8	552.9	532.1	510.1	500.3	496.6
60°	570.0	541.9	513.7	489.3	466.0	455.0	450.1
62.5°	535.8	505.2	473.4	447.7	424.5	409.8	406.1
65°	502.7	467.3	435.5	406.1	380.4	364.5	359.6
67.5°	467.3	430.6	396.3	364.5	340.1	319.3	316.8
70°	434.2	395.1	357.2	324.1	297.2	276.4	266.7
72.5°	401.2	360.8	321.7	286.2	252.0	232.4	225.1
75°	369.4	327.8	286.2	249.5	211.6	188.4	181.0
77.5°	340.1	297.2	253.2	212.8	177.4	148.0	138.2
80°	311.9	267.9	221.4	179.8	141.9	110.1	99.1
82.5°	282.6	241.0	193.3	149.2	110.1	77.1	63.6
85°	256.9	215.3	167.6	123.5	84.4	48.9	34.2
87.5°	236.1	190.8	148.0	104.0	63.6	28.1	9.8
90°	215.3	171.2	128.4	85.6	47.7	15.9	1.2
92.5°	196.9	155.3	112.5	73.4	36.7	11.0	1.2
95°	179.8	139.4	99.1	61.2	29.4	7.3	1.2
97.5°	163.9	126.0	88.1	52.6	24.5	6.1	1.2
100°	150.5	113.8	78.3	46.5	20.8	4.9	1.2
102.5°	137.0	102.7	69.7	40.4	18.3	3.7	1.2
105°	126.0	93.0	62.4	36.7	15.9	3.7	1.2
107.5°	115.0	84.4	56.3	31.8	13.5	2.4	1.2
110°	104.0	77.1	50.2	28.1	12.2	2.4	1.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	95.4	69.7	45.3	25.7	9.8	2.4	1.2
115°	86.8	62.4	40.4	22.0	8.6	1.2	1.2
117.5°	78.3	56.3	35.5	19.6	7.3	1.2	1.2
120°	70.9	50.2	31.8	17.1	6.1	1.2	1.2
122.5°	63.6	45.3	28.1	14.7	4.9	1.2	1.2
125°	57.5	40.4	24.5	12.2	3.7	1.2	1.2
127.5°	51.4	35.5	22.0	11.0	3.7	1.2	1.2
130°	45.3	31.8	18.3	8.6	2.4	1.2	1.2
132.5°	40.4	26.9	15.9	7.3	2.4	1.2	1.2
135°	35.5	23.2	13.5	4.9	2.4	1.2	1.2
137.5°	30.6	19.6	11.0	3.7	1.2	1.2	1.2
140°	25.7	17.1	8.6	3.7	1.2	1.2	1.2
142.5°	22.0	13.5	6.1	2.4	1.2	1.2	1.2
145°	17.1	11.0	4.9	2.4	1.2	1.2	1.2
147.5°	13.5	8.6	3.7	2.4	1.2	1.2	1.2
150°	9.8	6.1	3.7	1.2	1.2	1.2	1.2
152.5°	7.3	4.9	2.4	1.2	1.2	1.2	1.2
155°	4.9	3.7	2.4	1.2	1.2	1.2	1.2
157.5°	3.7	2.4	1.2	1.2	1.2	1.2	1.2
160°	2.4	1.2	1.2	1.2	1.2	1.2	1.2
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2
165°	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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)