

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-L940-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-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

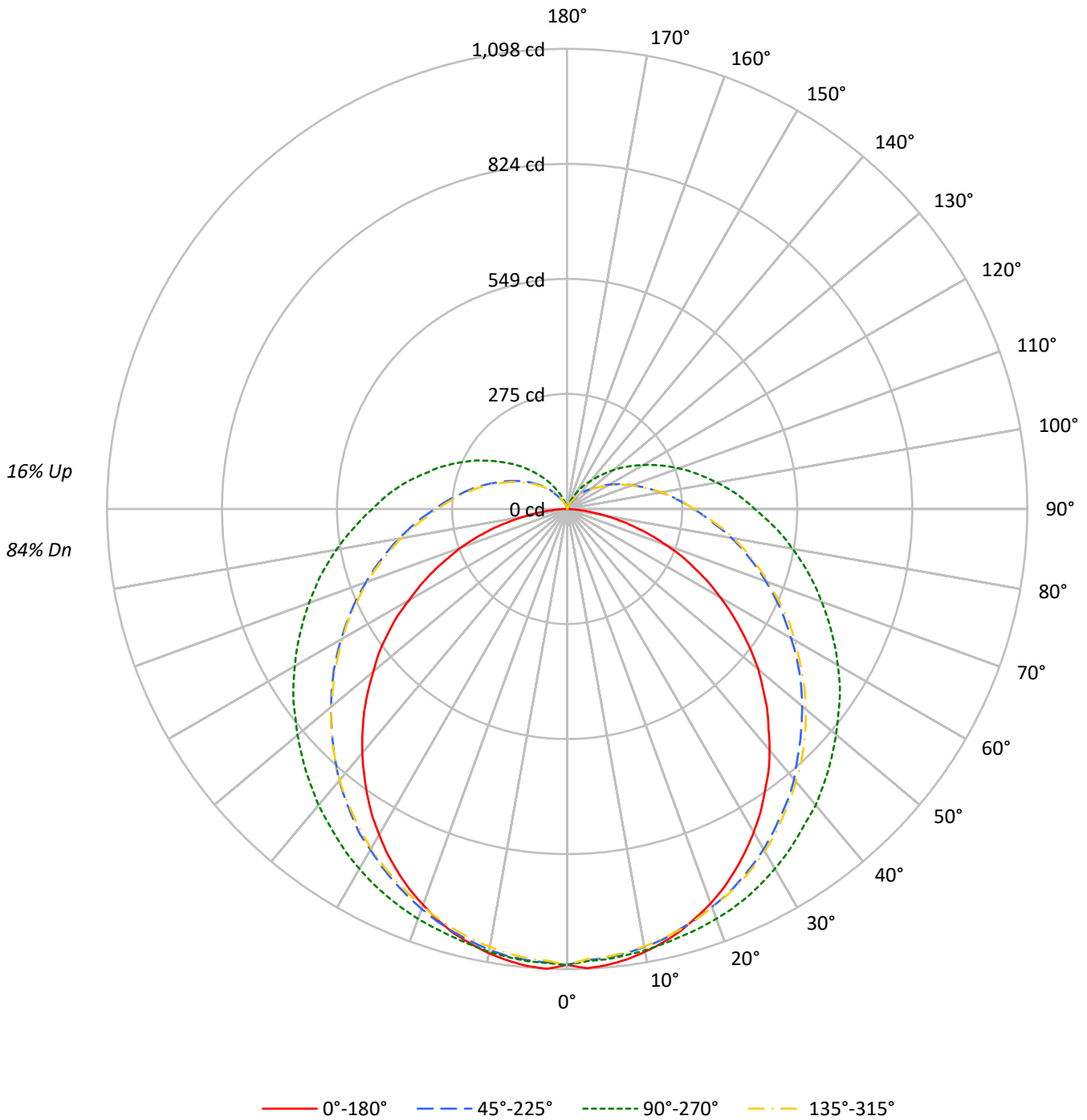
Lumens per Lamp: N/A  
Luminaire Lumens: 4726.0 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Semi-Direct

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°	4395	4395	4395	4395
5°	4425	4236	4434	4254
10°	4390	4115	4404	4129
15°	4345	4012	4364	4017
20°	4283	3937	4298	3937
25°	4205	3870	4230	3866
30°	4117	3802	4149	3802
35°	4014	3738	4059	3742
40°	3913	3701	3961	3701
45°	3796	3661	3854	3666
50°	3675	3638	3725	3648
55°	3503	3641	3613	3657
60°	3323	3652	3430	3675
65°	3121	3689	3259	3726
70°	2833	3757	3055	3810
75°	2505	3880	2742	3955
80°	1986	4062	2257	4156
85°	1263	4353	1581	4474



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.0	2.2
10°-20°	296.2	6.3
20°-30°	454.1	9.6
30°-40°	560.2	11.9
40°-50°	607.7	12.9
50°-60°	599.0	12.7
60°-70°	541.6	11.5
70°-80°	451.2	9.5
80°-90°	349.5	7.4
90°-100°	265.0	5.6
100°-110°	196.1	4.1
110°-120°	136.4	2.9
120°-130°	87.0	1.8
130°-140°	48.8	1.0
140°-150°	22.3	0.5
150°-160°	6.9	0.1
160°-170°	0.9	0.0
170°-180°	0.0	0.0
0°-30°	853.3	18.1
0°-40°	1413.4	29.9
0°-60°	2620.2	55.4
0°-90°	3962.4	83.8
90°-120°	597.6	12.6
90°-150°	755.8	16.0
90°-180°	764.0	16.2
0°-180°	4726.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1088	1088	1088	1088	1088	
5°	1092	1079	1095	1083	1092	104
15°	1043	1056	1048	1057	1043	294
25°	950	1020	956	1019	950	438
35°	823	957	832	958	823	515
45°	675	881	685	882	675	520
55°	508	794	524	798	508	455
65°	337	696	352	703	337	334
75°	170	597	186	608	170	180
85°	32	497	40	511	32	39
90°	1	448	2	465	1	2
95°	1	406	1	426	1	1
105°	1	322	1	342	1	1
115°	1	246	1	267	1	1
125°	1	177	1	196	1	1
135°	1	115	1	135	1	1
145°	1	67	1	82	1	1
155°	1	28	1	38	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-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8
2.5°	1097.0	1097.0	1095.8	1093.5	1094.7	1098.1	1095.8	1090.1	1086.6	1077.5	1079.8
5°	1092.4	1092.4	1091.2	1088.9	1090.1	1094.7	1092.4	1087.8	1083.2	1075.2	1078.6
7.5°	1084.3	1084.3	1083.2	1080.9	1083.2	1087.8	1085.5	1080.9	1077.5	1069.4	1072.9
10°	1072.9	1074.0	1072.9	1069.4	1074.0	1078.6	1077.5	1071.7	1068.3	1061.4	1064.8
12.5°	1059.1	1060.2	1059.1	1058.0	1060.2	1067.1	1064.8	1060.2	1058.0	1052.2	1055.7
15°	1043.0	1044.2	1041.9	1041.9	1044.2	1051.1	1051.1	1046.5	1044.2	1038.4	1045.3
17.5°	1022.4	1023.5	1022.4	1022.4	1024.7	1031.6	1032.7	1030.4	1028.1	1025.8	1032.7
20°	1001.7	1000.6	1000.6	999.4	1004.0	1014.3	1013.2	1013.2	1010.9	1010.9	1018.9
22.5°	977.6	977.6	976.5	976.5	982.2	991.4	991.4	993.7	991.4	996.0	1002.9
25°	950.1	951.2	950.1	952.4	957.0	967.3	968.5	971.9	973.0	977.6	985.7
27.5°	921.4	922.6	921.4	923.7	931.7	939.8	945.5	950.1	951.2	958.1	968.5
30°	890.4	890.4	891.6	893.9	903.0	915.7	920.3	926.0	926.0	937.5	947.8
32.5°	858.3	858.3	858.3	862.9	873.2	888.1	893.9	900.8	903.0	914.5	926.0
35°	822.7	823.9	823.9	827.3	841.1	856.0	864.0	872.1	876.7	890.4	901.9
37.5°	789.4	791.7	788.3	792.9	812.4	825.0	834.2	842.2	850.3	868.6	877.8
40°	751.6	753.9	752.7	761.9	778.0	794.0	804.4	812.4	823.9	842.2	852.6
42.5°	711.4	713.7	716.0	726.3	743.6	759.6	772.2	782.6	796.3	812.4	829.6
45°	674.7	674.7	678.1	690.8	709.1	726.3	741.3	752.7	768.8	786.0	803.2
47.5°	633.4	634.5	639.1	654.0	673.6	694.2	708.0	722.9	740.1	758.5	778.0
50°	595.5	595.5	602.4	618.5	636.8	659.8	674.7	691.9	710.3	732.1	751.6
52.5°	551.9	554.2	564.5	579.5	603.6	624.2	641.4	659.8	681.6	704.5	726.3
55°	508.3	512.9	520.9	541.6	566.8	586.3	607.0	630.0	650.6	675.9	701.1
57.5°	465.9	469.3	481.9	502.6	529.0	553.1	574.9	596.7	621.9	647.2	673.6
60°	422.3	426.9	441.8	462.4	491.1	516.4	541.6	564.5	590.9	617.3	644.9
62.5°	381.0	384.4	401.6	425.7	454.4	481.9	507.2	534.7	563.4	588.6	616.2
65°	337.4	343.1	362.6	384.4	417.7	445.2	473.9	503.7	533.6	561.1	587.5
67.5°	297.2	300.6	321.3	346.5	379.8	410.8	440.6	472.8	503.7	532.4	558.8
70°	250.1	261.6	282.3	308.7	344.2	376.4	408.5	441.8	475.0	504.9	530.1
72.5°	211.1	220.3	243.3	271.9	306.4	344.2	377.5	413.1	446.4	477.3	503.7
75°	169.8	179.0	205.4	237.5	273.1	313.3	347.7	384.4	418.8	449.8	477.3
77.5°	129.7	141.1	169.8	203.1	242.1	283.4	319.0	355.7	391.3	424.6	452.1
80°	92.9	105.6	136.5	174.4	212.3	253.6	292.6	329.3	364.9	398.2	426.9
82.5°	59.7	73.4	106.7	144.6	184.7	226.0	266.2	302.9	338.5	371.8	401.6
85°	32.1	47.0	81.5	119.3	159.5	200.8	241.0	280.0	314.4	345.4	377.5
87.5°	9.2	27.5	60.8	98.7	140.0	177.9	216.9	255.9	290.3	323.6	352.3
90°	1.1	16.1	45.9	81.5	121.6	158.3	197.4	234.1	268.5	301.8	330.5
92.5°	1.1	10.3	35.6	67.7	104.4	142.3	181.3	216.9	249.0	282.3	311.0
95°	1.1	8.0	28.7	57.4	91.8	127.4	164.1	198.5	231.8	262.8	291.5
97.5°	1.1	5.7	22.9	49.3	80.3	113.6	149.2	183.6	215.7	245.6	271.9
100°	1.1	4.6	18.4	42.5	70.0	102.1	134.3	167.5	198.5	227.2	254.7
102.5°	1.1	3.4	16.1	35.6	62.0	90.6	121.6	152.6	182.4	210.0	237.5
105°	1.1	3.4	13.8	31.0	55.1	81.5	110.2	140.0	167.5	193.9	219.2
107.5°	1.1	2.3	11.5	26.4	48.2	73.4	99.8	128.5	153.8	179.0	203.1
110°	1.1	2.3	9.2	24.1	42.5	65.4	90.6	117.0	141.1	165.2	188.2



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CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.1	2.3	8.0	20.7	36.7	58.5	81.5	105.6	128.5	152.6	173.3
115°	1.1	2.3	6.9	18.4	34.4	50.5	73.4	95.2	118.2	140.0	159.5
117.5°	1.1	2.3	5.7	14.9	29.8	45.9	64.3	86.1	106.7	127.4	145.7
120°	1.1	2.3	4.6	13.8	26.4	41.3	57.4	76.9	96.4	115.9	135.4
122.5°	1.1	1.1	4.6	11.5	22.9	36.7	52.8	67.7	86.1	104.4	121.6
125°	1.1	1.1	4.6	10.3	19.5	33.3	47.0	60.8	76.9	92.9	107.9
127.5°	1.1	1.1	3.4	8.0	17.2	28.7	41.3	56.2	67.7	82.6	97.5
130°	1.1	1.1	3.4	6.9	14.9	24.1	36.7	49.3	63.1	73.4	86.1
132.5°	1.1	1.1	3.4	5.7	11.5	19.5	31.0	42.5	55.1	66.6	76.9
135°	1.1	1.1	2.3	4.6	9.2	16.1	25.2	35.6	48.2	59.7	70.0
137.5°	1.1	1.1	2.3	4.6	6.9	13.8	19.5	28.7	40.2	50.5	60.8
140°	1.1	1.1	2.3	3.4	5.7	10.3	16.1	22.9	32.1	41.3	52.8
142.5°	1.1	1.1	1.1	3.4	4.6	8.0	12.6	18.4	25.2	33.3	42.5
145°	1.1	1.1	1.1	3.4	4.6	5.7	10.3	14.9	19.5	25.2	33.3
147.5°	1.1	1.1	1.1	2.3	3.4	4.6	8.0	11.5	14.9	19.5	24.1
150°	1.1	1.1	1.1	2.3	3.4	4.6	5.7	8.0	11.5	16.1	19.5
152.5°	1.1	1.1	1.1	2.3	2.3	3.4	4.6	5.7	8.0	11.5	13.8
155°	1.1	1.1	1.1	1.1	2.3	3.4	4.6	4.6	5.7	8.0	10.3
157.5°	1.1	1.1	1.1	1.1	2.3	2.3	3.4	3.4	4.6	4.6	6.9
160°	1.1	1.1	1.1	1.1	1.1	2.3	2.3	3.4	3.4	3.4	3.4
162.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	2.3	3.4	3.4
165°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	2.3
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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8
2.5°	1079.8	1080.9	1084.3	1084.3	1082.0	1082.0	1080.9	1079.8	1080.9	1083.2	1083.2
5°	1077.5	1078.6	1082.0	1083.2	1080.9	1079.8	1079.8	1078.6	1079.8	1082.0	1082.0
7.5°	1072.9	1074.0	1077.5	1078.6	1076.3	1076.3	1075.2	1074.0	1076.3	1077.5	1077.5
10°	1066.0	1067.1	1071.7	1072.9	1071.7	1070.6	1070.6	1069.4	1070.6	1072.9	1072.9
12.5°	1056.8	1059.1	1064.8	1064.8	1064.8	1063.7	1063.7	1062.5	1063.7	1066.0	1064.8
15°	1046.5	1051.1	1055.7	1058.0	1058.0	1058.0	1056.8	1055.7	1058.0	1059.1	1058.0
17.5°	1035.0	1040.7	1047.6	1049.9	1049.9	1051.1	1049.9	1048.8	1051.1	1051.1	1049.9
20°	1023.5	1029.3	1036.2	1038.4	1040.7	1041.9	1041.9	1040.7	1041.9	1043.0	1041.9
22.5°	1008.6	1015.5	1023.5	1027.0	1029.3	1031.6	1031.6	1031.6	1032.7	1033.9	1031.6
25°	992.5	1000.6	1009.8	1013.2	1017.8	1018.9	1020.1	1020.1	1021.2	1022.4	1018.9
27.5°	975.3	984.5	993.7	999.4	1002.9	1005.2	1005.2	1006.3	1007.5	1008.6	1005.2
30°	954.7	968.5	976.5	981.1	985.7	989.1	990.3	991.4	992.5	993.7	990.3
32.5°	936.3	947.8	958.1	963.9	969.6	974.2	975.3	975.3	977.6	977.6	974.2
35°	914.5	928.3	938.6	944.4	951.2	954.7	957.0	957.0	959.3	959.3	955.8
37.5°	892.7	906.5	918.0	924.8	932.9	937.5	938.6	938.6	940.9	940.9	936.3
40°	869.8	884.7	897.3	905.3	912.2	918.0	919.1	922.6	922.6	921.4	916.8
42.5°	846.8	860.6	874.4	883.5	892.7	898.5	900.8	901.9	901.9	900.8	897.3
45°	821.6	837.6	850.3	861.7	870.9	876.7	880.1	881.2	881.2	878.9	875.5
47.5°	797.5	813.5	826.2	838.8	848.0	854.9	858.3	859.4	858.3	857.1	853.7
50°	772.2	790.6	803.2	815.8	825.0	830.8	836.5	837.6	836.5	835.3	828.5
52.5°	745.8	765.4	779.1	791.7	802.1	809.0	813.5	814.7	814.7	812.4	807.8
55°	719.5	736.7	753.9	767.6	779.1	786.0	791.7	794.0	791.7	789.4	783.7
57.5°	695.4	711.4	728.6	743.6	755.0	764.2	768.8	771.1	768.8	765.4	759.6
60°	666.7	683.9	703.4	717.2	729.8	739.0	741.3	745.8	743.6	740.1	734.4
62.5°	639.1	659.8	677.0	694.2	704.5	714.9	719.5	721.7	719.5	716.0	710.3
65°	610.4	633.4	650.6	667.8	679.3	689.6	695.4	696.5	694.2	690.8	685.0
67.5°	584.1	605.9	624.2	642.6	652.9	663.2	669.0	671.3	669.0	664.4	658.6
70°	557.7	579.5	601.3	615.0	627.7	639.1	642.6	646.0	643.7	639.1	632.2
72.5°	531.3	554.2	576.0	589.8	603.6	613.9	618.5	621.9	619.6	615.0	607.0
75°	503.7	527.8	549.6	564.5	578.3	588.6	593.2	596.7	594.4	589.8	580.6
77.5°	478.5	502.6	523.2	539.3	553.1	562.3	570.3	571.4	569.1	564.5	555.4
80°	452.1	476.2	498.0	514.1	527.8	537.0	542.7	546.2	543.9	539.3	530.1
82.5°	429.1	450.9	472.8	488.8	502.6	514.1	518.6	522.1	520.9	514.1	507.2
85°	403.9	429.1	446.4	463.6	477.3	488.8	492.3	496.8	495.7	490.0	480.8
87.5°	378.7	403.9	424.6	441.8	454.4	463.6	469.3	471.6	470.5	464.7	454.4
90°	358.0	381.0	401.6	420.0	430.3	440.6	446.4	447.5	447.5	440.6	432.6
92.5°	338.5	360.3	381.0	398.2	410.8	420.0	424.6	426.9	425.7	420.0	410.8
95°	316.7	340.8	360.3	377.5	390.1	399.3	403.9	406.2	405.1	399.3	390.1
97.5°	298.3	320.1	339.6	355.7	368.3	377.5	382.1	384.4	384.4	378.7	369.5
100°	280.0	301.8	320.1	336.2	347.7	356.9	361.4	362.6	361.4	356.9	347.7
102.5°	261.6	282.3	300.6	315.5	328.2	336.2	340.8	341.9	341.9	336.2	327.0
105°	243.3	263.9	281.1	297.2	307.5	315.5	319.0	322.4	321.3	316.7	307.5
107.5°	226.0	246.7	262.8	277.7	288.0	296.0	299.5	302.9	301.8	297.2	288.0
110°	210.0	229.5	244.4	259.3	268.5	276.5	282.3	283.4	281.1	276.5	268.5





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	195.1	212.3	227.2	241.0	251.3	257.0	261.6	263.9	261.6	257.0	251.3
115°	179.0	196.2	211.1	223.8	232.9	239.8	243.3	245.6	243.3	238.7	232.9
117.5°	164.1	180.2	195.1	207.7	215.7	221.5	224.9	227.2	224.9	221.5	215.7
120°	151.5	165.2	179.0	190.5	199.7	204.2	207.7	210.0	208.8	204.2	198.5
122.5°	136.5	151.5	164.1	175.6	183.6	188.2	190.5	192.8	191.6	188.2	182.4
125°	123.9	136.5	149.2	159.5	167.5	172.1	174.4	176.7	175.6	172.1	165.2
127.5°	110.2	123.9	134.3	144.6	150.3	157.2	158.3	160.6	159.5	156.1	150.3
130°	99.8	110.2	120.5	129.7	136.5	141.1	143.4	144.6	142.3	140.0	134.3
132.5°	87.2	98.7	107.9	115.9	120.5	125.1	127.4	128.5	128.5	125.1	120.5
135°	78.0	86.1	94.1	102.1	106.7	111.3	113.6	114.7	113.6	111.3	106.7
137.5°	70.0	76.9	82.6	89.5	95.2	97.5	99.8	99.8	98.7	97.5	94.1
140°	60.8	68.8	74.6	79.2	83.8	84.9	87.2	87.2	86.1	84.9	82.6
142.5°	51.6	58.5	64.3	70.0	73.4	75.7	76.9	78.0	76.9	75.7	72.3
145°	41.3	49.3	55.1	58.5	63.1	64.3	65.4	66.6	65.4	64.3	60.8
147.5°	32.1	39.0	44.8	49.3	52.8	53.9	55.1	56.2	55.1	52.8	51.6
150°	22.9	28.7	35.6	40.2	42.5	44.8	44.8	44.8	45.9	43.6	41.3
152.5°	18.4	20.7	25.2	29.8	33.3	34.4	35.6	35.6	34.4	34.4	32.1
155°	12.6	14.9	18.4	21.8	25.2	26.4	27.5	27.5	26.4	26.4	25.2
157.5°	8.0	10.3	12.6	14.9	18.4	19.5	20.7	20.7	20.7	19.5	18.4
160°	4.6	5.7	6.9	9.2	11.5	12.6	13.8	13.8	13.8	13.8	12.6
162.5°	3.4	3.4	3.4	4.6	5.7	6.9	8.0	8.0	8.0	8.0	6.9
165°	2.3	2.3	2.3	2.3	2.3	3.4	4.6	4.6	4.6	4.6	4.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8
2.5°	1082.0	1082.0	1083.2	1080.9	1074.0	1075.2	1075.2	1079.8	1082.0	1083.2	1088.9
5°	1079.8	1079.8	1082.0	1078.6	1072.9	1072.9	1072.9	1077.5	1078.6	1080.9	1085.5
7.5°	1076.3	1076.3	1077.5	1074.0	1067.1	1067.1	1066.0	1070.6	1072.9	1074.0	1078.6
10°	1070.6	1070.6	1071.7	1068.3	1060.2	1060.2	1059.1	1062.5	1063.7	1066.0	1069.4
12.5°	1062.5	1062.5	1062.5	1059.1	1051.1	1049.9	1048.8	1052.2	1052.2	1053.4	1056.8
15°	1055.7	1053.4	1053.4	1049.9	1041.9	1039.6	1037.3	1038.4	1040.7	1039.6	1041.9
17.5°	1047.6	1045.3	1043.0	1039.6	1029.3	1025.8	1023.5	1024.7	1023.5	1022.4	1024.7
20°	1038.4	1035.0	1033.9	1028.1	1017.8	1012.1	1007.5	1005.2	1006.3	1002.9	1004.0
22.5°	1028.1	1023.5	1021.2	1014.3	1004.0	997.1	991.4	986.8	985.7	981.1	982.2
25°	1015.5	1009.8	1006.3	1000.6	989.1	981.1	974.2	967.3	963.9	958.1	957.0
27.5°	1000.6	994.8	990.3	984.5	973.0	962.7	954.7	945.5	940.9	934.0	930.6
30°	985.7	978.8	971.9	967.3	954.7	943.2	930.6	922.6	915.7	907.6	901.9
32.5°	967.3	960.4	953.5	946.6	935.2	921.4	911.1	898.5	890.4	881.2	874.4
35°	948.9	939.8	932.9	923.7	913.4	897.3	884.7	872.1	861.7	851.4	843.4
37.5°	928.3	921.4	911.1	903.0	890.4	874.4	860.6	844.5	835.3	821.6	811.3
40°	908.8	900.8	890.4	880.1	867.5	849.1	834.2	815.8	805.5	789.4	779.1
42.5°	889.3	877.8	867.5	856.0	842.2	825.0	806.7	788.3	774.5	759.6	744.7
45°	867.5	854.9	842.2	829.6	815.8	798.6	779.1	759.6	742.4	728.6	710.3
47.5°	844.5	831.9	817.0	803.2	788.3	771.1	750.4	729.8	711.4	695.4	675.9
50°	821.6	809.0	792.9	778.0	760.8	743.6	721.7	697.7	678.1	657.5	640.3
52.5°	797.5	784.9	769.9	750.4	732.1	714.9	691.9	666.7	644.9	627.7	605.9
55°	773.4	760.8	743.6	724.0	705.7	683.9	662.1	636.8	612.7	592.1	570.3
57.5°	748.1	736.7	717.2	701.1	678.1	655.2	632.2	608.2	581.8	557.7	532.4
60°	722.9	710.3	691.9	672.4	649.5	626.5	602.4	576.0	548.5	522.1	499.1
62.5°	699.9	683.9	666.7	646.0	621.9	600.1	572.6	543.9	516.4	488.8	461.3
65°	673.6	656.3	640.3	619.6	594.4	569.1	541.6	512.9	483.1	453.2	425.7
67.5°	647.2	630.0	612.7	592.1	565.7	539.3	510.6	481.9	448.7	420.0	387.8
70°	620.8	607.0	585.2	563.4	539.3	510.6	481.9	450.9	416.5	385.5	352.3
72.5°	594.4	580.6	558.8	535.9	512.9	483.1	452.1	421.1	389.0	353.4	317.8
75°	569.1	551.9	532.4	510.6	486.5	455.5	424.6	392.4	354.6	321.3	284.6
77.5°	545.0	529.0	509.5	485.4	459.0	429.1	397.0	363.7	325.9	290.3	250.1
80°	518.6	502.6	483.1	459.0	432.6	403.9	369.5	335.1	298.3	259.3	218.0
82.5°	493.4	478.5	456.7	434.9	406.2	377.5	343.1	308.7	269.7	231.8	191.6
85°	467.0	452.1	431.4	408.5	381.0	350.0	317.8	283.4	244.4	205.4	165.2
87.5°	444.1	426.9	406.2	383.2	355.7	325.9	294.9	258.2	220.3	182.4	141.1
90°	420.0	403.9	383.2	360.3	332.8	302.9	270.8	236.4	199.7	160.6	121.6
92.5°	399.3	382.1	362.6	339.6	312.1	283.4	251.3	216.9	181.3	143.4	105.6
95°	378.7	361.4	343.1	320.1	292.6	263.9	231.8	198.5	164.1	127.4	91.8
97.5°	355.7	340.8	322.4	300.6	273.1	245.6	214.6	182.4	149.2	113.6	80.3
100°	337.4	320.1	302.9	280.0	254.7	228.3	197.4	166.4	134.3	101.0	70.0
102.5°	316.7	300.6	283.4	261.6	236.4	210.0	181.3	151.5	121.6	90.6	60.8
105°	297.2	282.3	263.9	243.3	219.2	193.9	166.4	138.8	110.2	80.3	53.9
107.5°	277.7	262.8	245.6	226.0	203.1	177.9	152.6	125.1	98.7	72.3	48.2
110°	258.2	244.4	228.3	208.8	187.0	164.1	140.0	114.7	88.4	64.3	42.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	241.0	227.2	211.1	192.8	172.1	150.3	127.4	103.3	79.2	57.4	36.7
115°	223.8	211.1	195.1	179.0	158.3	137.7	115.9	92.9	71.1	51.6	32.1
117.5°	206.5	193.9	179.0	162.9	144.6	125.1	104.4	82.6	64.3	45.9	28.7
120°	189.3	177.9	164.1	149.2	133.1	113.6	92.9	74.6	57.4	40.2	25.2
122.5°	173.3	162.9	150.3	136.5	119.3	101.0	83.8	67.7	51.6	35.6	20.7
125°	158.3	148.0	136.5	122.8	106.7	90.6	75.7	60.8	44.8	31.0	17.2
127.5°	143.4	133.1	121.6	109.0	96.4	81.5	67.7	53.9	40.2	27.5	14.9
130°	128.5	119.3	109.0	98.7	86.1	72.3	60.8	47.0	34.4	21.8	12.6
132.5°	113.6	106.7	97.5	87.2	75.7	65.4	52.8	41.3	29.8	19.5	11.5
135°	101.0	94.1	86.1	76.9	67.7	57.4	45.9	35.6	25.2	16.1	9.2
137.5°	89.5	83.8	75.7	67.7	59.7	49.3	40.2	29.8	20.7	13.8	6.9
140°	79.2	73.4	66.6	58.5	51.6	42.5	33.3	24.1	18.4	11.5	5.7
142.5°	68.8	63.1	57.4	50.5	43.6	35.6	27.5	20.7	14.9	9.2	5.7
145°	58.5	53.9	48.2	42.5	35.6	28.7	22.9	17.2	11.5	6.9	4.6
147.5°	48.2	44.8	39.0	34.4	28.7	22.9	18.4	13.8	9.2	5.7	3.4
150°	39.0	35.6	31.0	26.4	22.9	18.4	14.9	10.3	6.9	5.7	3.4
152.5°	29.8	27.5	24.1	21.8	18.4	13.8	10.3	8.0	5.7	4.6	2.3
155°	24.1	21.8	19.5	16.1	13.8	10.3	8.0	5.7	4.6	3.4	2.3
157.5°	17.2	16.1	13.8	11.5	9.2	6.9	5.7	5.7	3.4	2.3	1.1
160°	11.5	10.3	9.2	6.9	5.7	5.7	4.6	3.4	2.3	2.3	1.1
162.5°	6.9	5.7	5.7	5.7	4.6	4.6	3.4	2.3	2.3	1.1	1.1
165°	4.6	4.6	4.6	3.4	3.4	3.4	2.3	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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8
2.5°	1088.9	1085.5	1090.1	1098.1	1099.3	1098.1	1095.8	1099.3	1103.9	1102.7	1094.7
5°	1086.6	1082.0	1086.6	1094.7	1094.7	1093.5	1092.4	1095.8	1100.4	1099.3	1092.4
7.5°	1079.8	1075.2	1079.8	1086.6	1087.8	1085.5	1085.5	1088.9	1093.5	1092.4	1086.6
10°	1070.6	1066.0	1068.3	1076.3	1078.6	1076.3	1076.3	1079.8	1085.5	1084.3	1077.5
12.5°	1056.8	1053.4	1055.7	1062.5	1064.8	1063.7	1062.5	1067.1	1072.9	1072.9	1066.0
15°	1041.9	1037.3	1039.6	1047.6	1048.8	1046.5	1047.6	1051.1	1058.0	1058.0	1052.2
17.5°	1024.7	1018.9	1022.4	1028.1	1029.3	1029.3	1029.3	1033.9	1041.9	1040.7	1036.2
20°	1005.2	997.1	999.4	1005.2	1007.5	1007.5	1007.5	1015.5	1021.2	1021.2	1016.6
22.5°	982.2	976.5	976.5	982.2	985.7	984.5	984.5	991.4	999.4	998.3	998.3
25°	955.8	951.2	948.9	955.8	957.0	958.1	960.4	967.3	976.5	976.5	977.6
27.5°	928.3	923.7	922.6	928.3	929.4	930.6	932.9	940.9	950.1	951.2	953.5
30°	901.9	895.0	892.7	897.3	899.6	900.8	900.8	913.4	921.4	924.8	929.4
32.5°	870.9	864.0	858.3	866.3	867.5	869.8	870.9	883.5	892.7	898.5	905.3
35°	839.9	828.5	826.2	831.9	834.2	835.3	837.6	851.4	864.0	868.6	877.8
37.5°	805.5	797.5	790.6	796.3	798.6	799.8	806.7	819.3	831.9	838.8	848.0
40°	773.4	763.1	757.3	760.8	763.1	764.2	772.2	786.0	800.9	809.0	820.4
42.5°	737.8	724.0	719.5	722.9	724.0	727.5	734.4	752.7	767.6	779.1	788.3
45°	702.2	691.9	681.6	685.0	686.2	688.5	698.8	718.3	734.4	748.1	758.5
47.5°	665.5	652.9	642.6	644.9	649.5	650.6	662.1	685.0	699.9	714.9	728.6
50°	628.8	611.6	603.6	603.6	605.9	611.6	626.5	649.5	665.5	682.7	697.7
52.5°	590.9	574.9	565.7	566.8	569.1	576.0	589.8	612.7	631.1	649.5	667.8
55°	553.1	535.9	526.7	524.4	526.7	535.9	551.9	576.0	594.4	616.2	635.7
57.5°	515.2	494.6	486.5	483.1	485.4	496.8	512.9	538.2	561.1	581.8	604.7
60°	473.9	457.8	444.1	436.0	441.8	456.7	473.9	500.3	524.4	547.3	572.6
62.5°	438.3	417.7	402.8	394.7	400.5	413.1	437.2	462.4	488.8	515.2	540.5
65°	398.2	377.5	360.3	352.3	358.0	372.9	397.0	424.6	453.2	479.6	509.5
67.5°	359.2	337.4	316.7	308.7	315.5	331.6	358.0	389.0	420.0	447.5	479.6
70°	321.3	297.2	275.4	269.7	274.2	296.0	321.3	352.3	384.4	416.5	449.8
72.5°	286.9	257.0	234.1	227.2	232.9	257.0	285.7	317.8	352.3	386.7	422.3
75°	246.7	219.2	193.9	185.9	192.8	214.6	250.1	284.6	321.3	358.0	391.3
77.5°	214.6	182.4	156.1	143.4	154.9	182.4	216.9	253.6	291.5	329.3	367.2
80°	181.3	148.0	119.3	105.6	118.2	148.0	182.4	222.6	265.1	302.9	337.4
82.5°	151.5	115.9	86.1	71.1	84.9	118.2	156.1	196.2	237.5	275.4	315.5
85°	123.9	87.2	56.2	40.2	59.7	89.5	129.7	171.0	213.4	252.4	291.5
87.5°	101.0	65.4	34.4	17.2	36.7	70.0	107.9	149.2	191.6	230.6	267.4
90°	82.6	47.0	18.4	2.3	21.8	52.8	89.5	129.7	169.8	210.0	246.7
92.5°	67.7	35.6	10.3	1.1	13.8	42.5	76.9	114.7	153.8	192.8	228.3
95°	56.2	27.5	6.9	1.1	10.3	33.3	65.4	102.1	138.8	176.7	212.3
97.5°	48.2	22.9	5.7	1.1	8.0	28.7	56.2	90.6	126.2	161.8	196.2
100°	41.3	18.4	4.6	1.1	6.9	24.1	49.3	80.3	113.6	148.0	181.3
102.5°	35.6	14.9	3.4	1.1	5.7	20.7	43.6	72.3	102.1	135.4	167.5
105°	31.0	12.6	3.4	1.1	4.6	18.4	39.0	64.3	94.1	123.9	154.9
107.5°	26.4	10.3	2.3	1.1	3.4	14.9	34.4	58.5	84.9	113.6	142.3
110°	22.9	9.2	2.3	1.1	3.4	13.8	29.8	52.8	76.9	103.3	130.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	19.5	6.9	2.3	1.1	2.3	11.5	26.4	47.0	70.0	94.1	120.5
115°	17.2	5.7	1.1	1.1	2.3	10.3	24.1	42.5	63.1	86.1	110.2
117.5°	13.8	4.6	1.1	1.1	1.1	8.0	20.7	37.9	57.4	79.2	101.0
120°	11.5	4.6	1.1	1.1	1.1	6.9	18.4	33.3	51.6	71.1	91.8
122.5°	10.3	3.4	1.1	1.1	1.1	5.7	16.1	29.8	45.9	64.3	83.8
125°	9.2	3.4	1.1	1.1	1.1	4.6	13.8	26.4	41.3	57.4	75.7
127.5°	6.9	3.4	1.1	1.1	1.1	3.4	12.6	22.9	36.7	51.6	67.7
130°	5.7	2.3	1.1	1.1	1.1	3.4	10.3	20.7	32.1	45.9	60.8
132.5°	4.6	2.3	1.1	1.1	1.1	2.3	8.0	16.1	27.5	40.2	53.9
135°	4.6	2.3	1.1	1.1	1.1	2.3	5.7	13.8	22.9	34.4	45.9
137.5°	4.6	1.1	1.1	1.1	1.1	2.3	4.6	10.3	18.4	27.5	37.9
140°	3.4	1.1	1.1	1.1	1.1	1.1	3.4	8.0	14.9	22.9	32.1
142.5°	3.4	1.1	1.1	1.1	1.1	1.1	3.4	5.7	11.5	18.4	25.2
145°	2.3	1.1	1.1	1.1	1.1	1.1	2.3	4.6	9.2	13.8	20.7
147.5°	2.3	1.1	1.1	1.1	1.1	1.1	2.3	3.4	6.9	11.5	16.1
150°	2.3	1.1	1.1	1.1	1.1	1.1	2.3	3.4	4.6	8.0	12.6
152.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	3.4	5.7	8.0
155°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	3.4	4.6	5.7
157.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	3.4	4.6
160°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	3.4
162.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8
2.5°	1091.2	1083.2	1085.5	1084.3	1086.6	1090.1	1090.1	1088.9	1088.9	1086.6	1084.3
5°	1088.9	1080.9	1084.3	1083.2	1085.5	1088.9	1088.9	1087.8	1087.8	1084.3	1083.2
7.5°	1082.0	1076.3	1078.6	1078.6	1080.9	1084.3	1084.3	1083.2	1083.2	1079.8	1078.6
10°	1075.2	1068.3	1071.7	1071.7	1074.0	1078.6	1078.6	1077.5	1077.5	1074.0	1072.9
12.5°	1063.7	1056.8	1062.5	1063.7	1066.0	1070.6	1069.4	1069.4	1069.4	1066.0	1064.8
15°	1049.9	1045.3	1051.1	1052.2	1055.7	1061.4	1061.4	1061.4	1061.4	1058.0	1056.8
17.5°	1035.0	1031.6	1037.3	1039.6	1044.2	1049.9	1049.9	1051.1	1052.2	1049.9	1048.8
20°	1017.8	1015.5	1021.2	1025.8	1032.7	1038.4	1040.7	1041.9	1044.2	1041.9	1040.7
22.5°	998.3	998.3	1006.3	1010.9	1018.9	1024.7	1028.1	1031.6	1033.9	1031.6	1030.4
25°	976.5	979.9	988.0	996.0	1005.2	1010.9	1014.3	1018.9	1021.2	1020.1	1018.9
27.5°	955.8	960.4	970.7	978.8	986.8	996.0	999.4	1005.2	1007.5	1007.5	1006.3
30°	931.7	938.6	950.1	959.3	969.6	978.8	983.4	989.1	992.5	990.3	991.4
32.5°	908.8	920.3	929.4	939.8	951.2	960.4	966.2	973.0	976.5	975.3	976.5
35°	883.5	895.0	907.6	918.0	931.7	940.9	948.9	954.7	959.3	958.1	958.1
37.5°	856.0	870.9	883.5	897.3	909.9	920.3	928.3	935.2	939.8	939.8	939.8
40°	829.6	845.7	858.3	874.4	890.4	899.6	908.8	915.7	920.3	921.4	922.6
42.5°	800.9	818.1	833.1	850.3	866.3	877.8	888.1	896.2	900.8	903.0	901.9
45°	774.5	790.6	807.8	827.3	842.2	853.7	866.3	875.5	880.1	881.2	882.4
47.5°	744.7	763.1	782.6	802.1	817.0	831.9	843.4	852.6	857.1	860.6	860.6
50°	716.0	735.5	757.3	778.0	794.0	809.0	820.4	830.8	836.5	838.8	839.9
52.5°	689.6	708.0	730.9	751.6	767.6	782.6	797.5	809.0	814.7	817.0	817.0
55°	657.5	680.4	705.7	725.2	742.4	759.6	774.5	786.0	791.7	795.2	797.5
57.5°	627.7	651.8	678.1	698.8	719.5	735.5	749.3	764.2	768.8	773.4	774.5
60°	599.0	623.1	648.3	671.3	691.9	709.1	725.2	737.8	745.8	748.1	750.4
62.5°	569.1	594.4	620.8	643.7	665.5	686.2	701.1	712.6	721.7	725.2	727.5
65°	540.5	566.8	593.2	617.3	640.3	660.9	675.9	687.3	696.5	702.2	703.4
67.5°	509.5	538.2	565.7	590.9	613.9	635.7	650.6	662.1	671.3	678.1	679.3
70°	480.8	510.6	538.2	565.7	588.6	610.4	626.5	638.0	648.3	652.9	655.2
72.5°	453.2	484.2	512.9	540.5	563.4	585.2	602.4	613.9	624.2	630.0	631.1
75°	426.9	457.8	488.8	515.2	539.3	561.1	578.3	590.9	600.1	605.9	608.2
77.5°	400.5	432.6	463.6	490.0	515.2	537.0	551.9	566.8	576.0	582.9	582.9
80°	374.1	407.3	439.5	465.9	491.1	510.6	527.8	542.7	551.9	558.8	558.8
82.5°	351.1	383.2	414.2	440.6	465.9	487.7	504.9	518.6	529.0	533.6	534.7
85°	324.7	360.3	389.0	417.7	441.8	462.4	479.6	494.6	503.7	508.3	510.6
87.5°	302.9	337.4	368.3	393.6	417.7	438.3	457.8	470.5	479.6	485.4	487.7
90°	282.3	315.5	346.5	371.8	397.0	416.5	434.9	447.5	457.8	462.4	464.7
92.5°	263.9	297.2	327.0	352.3	376.4	398.2	415.4	428.0	437.2	441.8	445.2
95°	246.7	278.8	307.5	335.1	358.0	377.5	395.9	408.5	418.8	422.3	425.7
97.5°	229.5	260.5	289.2	315.5	339.6	358.0	375.2	387.8	395.9	401.6	405.1
100°	214.6	244.4	271.9	297.2	320.1	337.4	355.7	367.2	375.2	379.8	384.4
102.5°	198.5	228.3	254.7	278.8	302.9	319.0	336.2	347.7	354.6	362.6	362.6
105°	184.7	212.3	238.7	261.6	282.3	301.8	316.7	328.2	336.2	341.9	341.9
107.5°	169.8	197.4	222.6	246.7	266.2	284.6	298.3	308.7	317.8	321.3	324.7
110°	158.3	182.4	207.7	230.6	249.0	266.2	280.0	291.5	299.5	302.9	305.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	144.6	169.8	192.8	214.6	232.9	249.0	262.8	271.9	280.0	284.6	285.7
115°	133.1	157.2	177.9	198.5	218.0	231.8	244.4	253.6	261.6	265.1	267.4
117.5°	122.8	144.6	165.2	182.4	200.8	215.7	228.3	236.4	243.3	247.9	250.1
120°	112.5	133.1	151.5	168.7	185.9	199.7	211.1	219.2	227.2	230.6	230.6
122.5°	102.1	121.6	138.8	154.9	171.0	183.6	196.2	203.1	210.0	213.4	213.4
125°	92.9	111.3	127.4	142.3	157.2	168.7	179.0	187.0	193.9	196.2	196.2
127.5°	83.8	101.0	115.9	129.7	142.3	153.8	164.1	172.1	177.9	180.2	180.2
130°	75.7	90.6	104.4	118.2	130.8	140.0	150.3	157.2	160.6	164.1	165.2
132.5°	67.7	81.5	94.1	105.6	118.2	127.4	135.4	142.3	145.7	149.2	150.3
135°	59.7	72.3	83.8	95.2	105.6	114.7	121.6	127.4	132.0	134.3	135.4
137.5°	50.5	64.3	74.6	83.8	95.2	102.1	110.2	113.6	118.2	120.5	120.5
140°	42.5	52.8	64.3	73.4	82.6	89.5	96.4	102.1	105.6	106.7	106.7
142.5°	34.4	43.6	52.8	64.3	72.3	78.0	84.9	89.5	91.8	92.9	94.1
145°	27.5	34.4	42.5	52.8	62.0	68.8	72.3	76.9	79.2	80.3	81.5
147.5°	20.7	27.5	34.4	41.3	50.5	57.4	60.8	65.4	67.7	68.8	68.8
150°	16.1	20.7	25.2	32.1	39.0	47.0	51.6	55.1	56.2	57.4	57.4
152.5°	11.5	16.1	19.5	24.1	28.7	35.6	42.5	44.8	45.9	47.0	47.0
155°	8.0	11.5	13.8	17.2	20.7	26.4	32.1	35.6	36.7	37.9	37.9
157.5°	5.7	8.0	9.2	12.6	14.9	17.2	21.8	27.5	28.7	28.7	28.7
160°	3.4	4.6	5.7	8.0	9.2	11.5	13.8	17.2	20.7	20.7	20.7
162.5°	2.3	3.4	3.4	4.6	4.6	6.9	8.0	9.2	12.6	13.8	13.8
165°	1.1	2.3	2.3	2.3	2.3	2.3	3.4	3.4	5.7	6.9	6.9
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8
2.5°	1085.5	1087.8	1086.6	1086.6	1086.6	1088.9	1086.6	1076.3	1078.6	1080.9	1083.2
5°	1084.3	1085.5	1085.5	1084.3	1084.3	1086.6	1084.3	1074.0	1076.3	1078.6	1079.8
7.5°	1079.8	1080.9	1080.9	1080.9	1079.8	1082.0	1078.6	1069.4	1069.4	1071.7	1072.9
10°	1074.0	1076.3	1075.2	1074.0	1074.0	1074.0	1071.7	1061.4	1061.4	1062.5	1063.7
12.5°	1067.1	1067.1	1067.1	1066.0	1064.8	1064.8	1062.5	1052.2	1051.1	1053.4	1052.2
15°	1058.0	1060.2	1058.0	1056.8	1054.5	1054.5	1051.1	1040.7	1038.4	1039.6	1038.4
17.5°	1049.9	1051.1	1048.8	1046.5	1044.2	1043.0	1039.6	1028.1	1024.7	1025.8	1023.5
20°	1041.9	1041.9	1039.6	1037.3	1033.9	1030.4	1025.8	1014.3	1008.6	1008.6	1004.0
22.5°	1031.6	1031.6	1029.3	1025.8	1022.4	1017.8	1013.2	1001.7	992.5	990.3	986.8
25°	1020.1	1018.9	1017.8	1014.3	1007.5	1002.9	998.3	985.7	975.3	970.7	965.0
27.5°	1006.3	1006.3	1002.9	999.4	992.5	986.8	981.1	969.6	955.8	950.1	942.1
30°	991.4	991.4	988.0	983.4	976.5	969.6	962.7	948.9	935.2	927.1	918.0
32.5°	976.5	975.3	971.9	967.3	960.4	950.1	944.4	930.6	914.5	905.3	892.7
35°	958.1	957.0	953.5	947.8	938.6	930.6	921.4	908.8	890.4	878.9	865.2
37.5°	939.8	938.6	936.3	928.3	919.1	909.9	898.5	885.8	868.6	853.7	839.9
40°	921.4	920.3	915.7	909.9	898.5	887.0	875.5	862.9	844.5	827.3	812.4
42.5°	901.9	900.8	895.0	888.1	875.5	864.0	850.3	836.5	818.1	797.5	782.6
45°	882.4	880.1	874.4	866.3	852.6	839.9	826.2	810.1	791.7	772.2	752.7
47.5°	861.7	858.3	852.6	841.1	829.6	815.8	799.8	782.6	764.2	742.4	721.7
50°	838.8	836.5	829.6	819.3	805.5	791.7	773.4	756.2	734.4	713.7	688.5
52.5°	817.0	812.4	806.7	795.2	781.4	766.5	747.0	726.3	704.5	685.0	658.6
55°	794.0	791.7	783.7	774.5	757.3	740.1	721.7	699.9	675.9	652.9	627.7
57.5°	772.2	767.6	760.8	748.1	733.2	716.0	696.5	673.6	647.2	623.1	595.5
60°	750.4	743.6	735.5	724.0	708.0	689.6	669.0	644.9	618.5	592.1	563.4
62.5°	726.3	720.6	711.4	699.9	683.9	664.4	642.6	617.3	592.1	564.5	533.6
65°	702.2	696.5	687.3	675.9	659.8	638.0	615.0	589.8	561.1	534.7	501.4
67.5°	678.1	672.4	662.1	649.5	633.4	612.7	588.6	562.3	533.6	504.9	470.5
70°	654.0	647.2	638.0	624.2	608.2	586.3	562.3	534.7	506.0	475.0	440.6
72.5°	630.0	624.2	612.7	600.1	582.9	561.1	537.0	509.5	479.6	447.5	413.1
75°	605.9	599.0	590.9	576.0	557.7	537.0	511.8	484.2	452.1	421.1	385.5
77.5°	581.8	576.0	565.7	550.8	533.6	511.8	486.5	459.0	426.9	394.7	356.9
80°	557.7	550.8	542.7	529.0	509.5	487.7	461.3	433.7	401.6	368.3	330.5
82.5°	533.6	526.7	517.5	503.7	485.4	463.6	438.3	408.5	376.4	341.9	306.4
85°	509.5	503.7	493.4	479.6	460.1	438.3	413.1	386.7	352.3	317.8	282.3
87.5°	485.4	479.6	469.3	455.5	437.2	415.4	390.1	362.6	329.3	297.2	258.2
90°	462.4	457.8	447.5	433.7	415.4	393.6	370.6	340.8	308.7	276.5	239.8
92.5°	441.8	437.2	428.0	414.2	398.2	374.1	351.1	322.4	290.3	257.0	221.5
95°	423.4	417.7	408.5	395.9	376.4	355.7	332.8	304.1	273.1	239.8	205.4
97.5°	402.8	397.0	387.8	374.1	358.0	336.2	313.3	285.7	254.7	223.8	189.3
100°	382.1	376.4	366.0	354.6	338.5	316.7	294.9	267.4	238.7	208.8	175.6
102.5°	361.4	355.7	346.5	335.1	319.0	299.5	277.7	251.3	222.6	192.8	161.8
105°	341.9	336.2	327.0	315.5	300.6	281.1	258.2	235.2	207.7	179.0	149.2
107.5°	322.4	316.7	308.7	297.2	282.3	263.9	242.1	218.0	192.8	165.2	136.5
110°	302.9	298.3	289.2	278.8	263.9	245.6	226.0	203.1	177.9	152.6	125.1





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	284.6	280.0	270.8	259.3	246.7	229.5	210.0	188.2	164.1	140.0	113.6
115°	266.2	260.5	252.4	242.1	229.5	213.4	195.1	175.6	151.5	128.5	104.4
117.5°	247.9	243.3	235.2	224.9	213.4	197.4	180.2	161.8	138.8	117.0	95.2
120°	229.5	226.0	218.0	208.8	197.4	182.4	166.4	148.0	127.4	106.7	86.1
122.5°	212.3	208.8	200.8	192.8	181.3	167.5	152.6	135.4	117.0	97.5	79.2
125°	196.2	191.6	184.7	176.7	166.4	153.8	138.8	122.8	105.6	88.4	71.1
127.5°	179.0	175.6	171.0	161.8	151.5	140.0	126.2	112.5	96.4	80.3	64.3
130°	165.2	160.6	154.9	148.0	138.8	127.4	114.7	101.0	87.2	72.3	56.2
132.5°	149.2	144.6	140.0	133.1	125.1	114.7	103.3	90.6	78.0	64.3	50.5
135°	134.3	130.8	126.2	119.3	111.3	103.3	91.8	80.3	68.8	56.2	44.8
137.5°	120.5	117.0	112.5	107.9	99.8	91.8	81.5	71.1	60.8	49.3	39.0
140°	106.7	104.4	99.8	95.2	88.4	80.3	71.1	62.0	52.8	42.5	33.3
142.5°	92.9	90.6	87.2	82.6	76.9	70.0	62.0	53.9	44.8	36.7	28.7
145°	80.3	79.2	75.7	71.1	66.6	59.7	52.8	45.9	37.9	31.0	22.9
147.5°	67.7	66.6	64.3	60.8	56.2	50.5	44.8	37.9	32.1	25.2	18.4
150°	56.2	55.1	53.9	49.3	47.0	41.3	36.7	31.0	26.4	19.5	14.9
152.5°	45.9	45.9	43.6	40.2	37.9	33.3	29.8	25.2	20.7	16.1	11.5
155°	36.7	35.6	34.4	32.1	29.8	26.4	22.9	19.5	16.1	11.5	8.0
157.5°	28.7	27.5	26.4	24.1	21.8	20.7	17.2	13.8	10.3	8.0	5.7
160°	20.7	19.5	18.4	17.2	16.1	13.8	11.5	9.2	6.9	4.6	3.4
162.5°	13.8	12.6	12.6	11.5	10.3	8.0	6.9	5.7	4.6	3.4	2.3
165°	6.9	6.9	5.7	5.7	4.6	3.4	3.4	3.4	2.3	2.3	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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8
2.5°	1082.0	1082.0	1086.6	1085.5	1082.0	1088.9	1097.0
5°	1078.6	1078.6	1082.0	1082.0	1078.6	1085.5	1092.4
7.5°	1072.9	1071.7	1075.2	1075.2	1070.6	1076.3	1084.3
10°	1062.5	1061.4	1064.8	1064.8	1060.2	1066.0	1072.9
12.5°	1051.1	1048.8	1052.2	1051.1	1046.5	1052.2	1059.1
15°	1036.2	1035.0	1037.3	1035.0	1030.4	1036.2	1043.0
17.5°	1021.2	1017.8	1018.9	1018.9	1010.9	1016.6	1022.4
20°	1001.7	997.1	998.3	997.1	991.4	994.8	1001.7
22.5°	982.2	975.3	975.3	974.2	967.3	971.9	977.6
25°	958.1	950.1	950.1	948.9	940.9	944.4	950.1
27.5°	934.0	926.0	922.6	921.4	913.4	913.4	921.4
30°	908.8	897.3	895.0	891.6	883.5	883.5	890.4
32.5°	884.7	868.6	864.0	859.4	851.4	850.3	858.3
35°	852.6	839.9	831.9	827.3	818.1	815.8	822.7
37.5°	826.2	810.1	798.6	792.9	783.7	780.3	789.4
40°	797.5	780.3	765.4	761.9	748.1	743.6	751.6
42.5°	765.4	747.0	732.1	725.2	714.9	710.3	711.4
45°	733.2	713.7	697.7	688.5	678.1	670.1	674.7
47.5°	699.9	682.7	663.2	649.5	636.8	631.1	633.4
50°	666.7	646.0	627.7	612.7	597.8	590.9	595.5
52.5°	633.4	611.6	590.9	574.9	557.7	550.8	551.9
55°	601.3	578.3	554.2	537.0	520.9	510.6	508.3
57.5°	569.1	543.9	518.6	499.1	478.5	469.3	465.9
60°	534.7	508.3	481.9	459.0	437.2	426.9	422.3
62.5°	502.6	473.9	444.1	420.0	398.2	384.4	381.0
65°	471.6	438.3	408.5	381.0	356.9	341.9	337.4
67.5°	438.3	403.9	371.8	341.9	319.0	299.5	297.2
70°	407.3	370.6	335.1	304.1	278.8	259.3	250.1
72.5°	376.4	338.5	301.8	268.5	236.4	218.0	211.1
75°	346.5	307.5	268.5	234.1	198.5	176.7	169.8
77.5°	319.0	278.8	237.5	199.7	166.4	138.8	129.7
80°	292.6	251.3	207.7	168.7	133.1	103.3	92.9
82.5°	265.1	226.0	181.3	140.0	103.3	72.3	59.7
85°	241.0	202.0	157.2	115.9	79.2	45.9	32.1
87.5°	221.5	179.0	138.8	97.5	59.7	26.4	9.2
90°	202.0	160.6	120.5	80.3	44.8	14.9	1.1
92.5°	184.7	145.7	105.6	68.8	34.4	10.3	1.1
95°	168.7	130.8	92.9	57.4	27.5	6.9	1.1
97.5°	153.8	118.2	82.6	49.3	22.9	5.7	1.1
100°	141.1	106.7	73.4	43.6	19.5	4.6	1.1
102.5°	128.5	96.4	65.4	37.9	17.2	3.4	1.1
105°	118.2	87.2	58.5	34.4	14.9	3.4	1.1
107.5°	107.9	79.2	52.8	29.8	12.6	2.3	1.1
110°	97.5	72.3	47.0	26.4	11.5	2.3	1.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	89.5	65.4	42.5	24.1	9.2	2.3	1.1
115°	81.5	58.5	37.9	20.7	8.0	1.1	1.1
117.5°	73.4	52.8	33.3	18.4	6.9	1.1	1.1
120°	66.6	47.0	29.8	16.1	5.7	1.1	1.1
122.5°	59.7	42.5	26.4	13.8	4.6	1.1	1.1
125°	53.9	37.9	22.9	11.5	3.4	1.1	1.1
127.5°	48.2	33.3	20.7	10.3	3.4	1.1	1.1
130°	42.5	29.8	17.2	8.0	2.3	1.1	1.1
132.5°	37.9	25.2	14.9	6.9	2.3	1.1	1.1
135°	33.3	21.8	12.6	4.6	2.3	1.1	1.1
137.5°	28.7	18.4	10.3	3.4	1.1	1.1	1.1
140°	24.1	16.1	8.0	3.4	1.1	1.1	1.1
142.5°	20.7	12.6	5.7	2.3	1.1	1.1	1.1
145°	16.1	10.3	4.6	2.3	1.1	1.1	1.1
147.5°	12.6	8.0	3.4	2.3	1.1	1.1	1.1
150°	9.2	5.7	3.4	1.1	1.1	1.1	1.1
152.5°	6.9	4.6	2.3	1.1	1.1	1.1	1.1
155°	4.6	3.4	2.3	1.1	1.1	1.1	1.1
157.5°	3.4	2.3	1.1	1.1	1.1	1.1	1.1
160°	2.3	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)