

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

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **4SNLED-LD5-30SL-LC-UNV-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 (P33518)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-30SL-LC-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

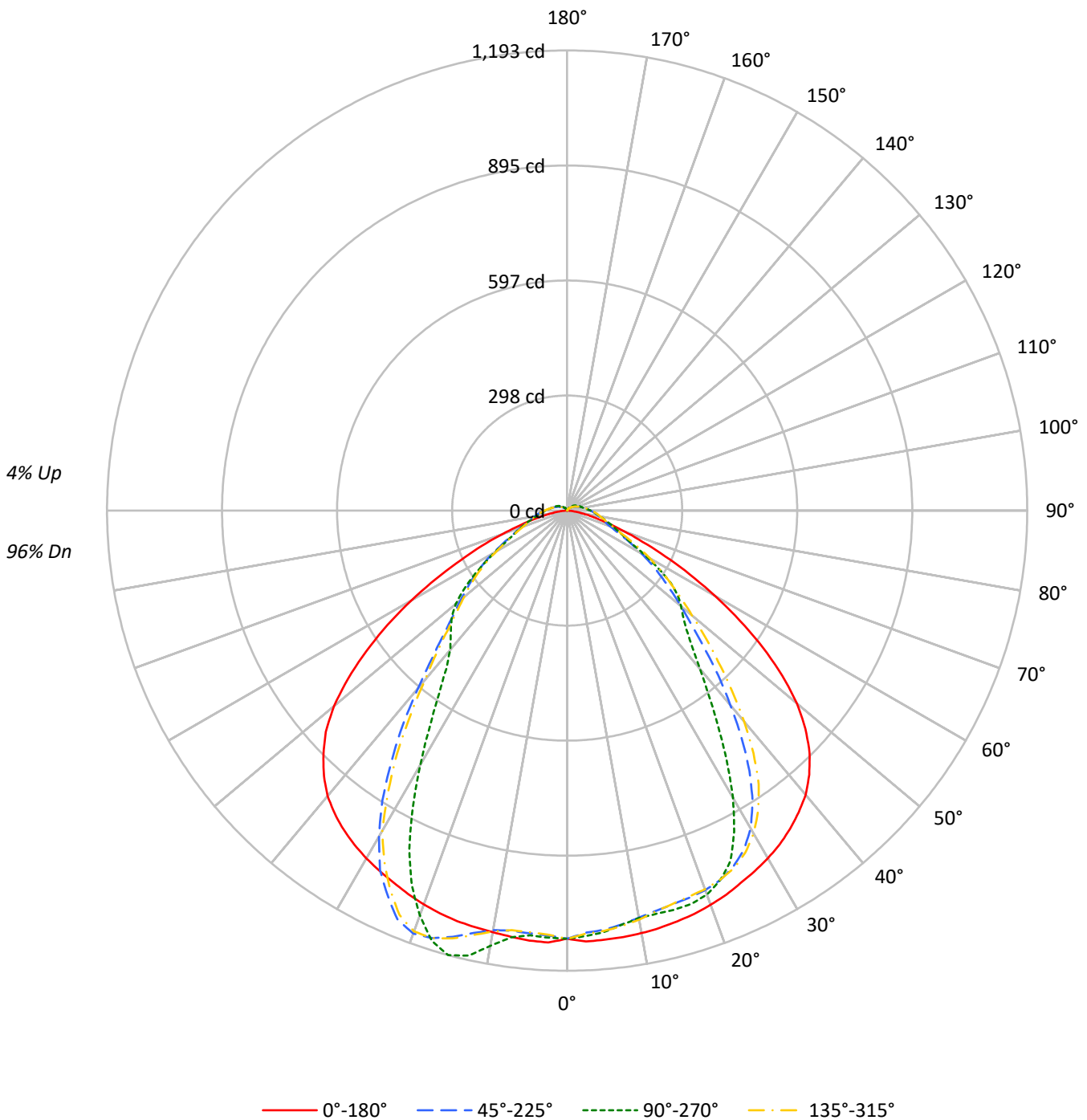
Lumens per Lamp: N/A
Luminaire Lumens: 2646.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	82				
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	71				
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	61				
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	54				
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	47				
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	42				
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	38				
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	34				
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	31				
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8969	8969	8969	8969
5°	9035	8613	9053	8681
10°	9076	8256	9058	8816
15°	9147	8145	9142	9069
20°	9248	8016	9238	8450
25°	9361	7604	9356	7348
30°	9538	6591	9542	5839
35°	9724	5329	9752	4510
40°	9889	4291	9930	3781
45°	9854	3634	9905	3540
50°	9430	3347	9562	3272
55°	8366	3007	8575	2734
60°	6786	2303	7146	2112
65°	5045	1762	5435	1671
70°	3431	1520	3867	1454
75°	2245	1372	2612	1298
80°	1451	1279	1700	1176
85°	745	1276	977	1165



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	4.0
10°-20°	313.7	11.9
20°-30°	476.9	18.0
30°-40°	511.6	19.3
40°-50°	444.0	16.8
50°-60°	329.1	12.4
60°-70°	188.5	7.1
70°-80°	104.4	3.9
80°-90°	63.6	2.4
90°-100°	41.3	1.6
100°-110°	27.7	1.0
110°-120°	18.7	0.7
120°-130°	11.5	0.4
130°-140°	6.0	0.2
140°-150°	2.7	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	896.0	33.9
0°-40°	1407.6	53.2
0°-60°	2180.7	82.4
0°-90°	2537.2	95.9
90°-120°	87.7	3.3
90°-150°	108.0	4.1
90°-180°	109.0	4.1
0°-180°	2646.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1110	1110	1110	1110	1110	
5°	1117	1097	1119	1105	1117	106
15°	1102	1072	1102	1193	1102	312
25°	1065	1002	1065	968	1065	492
35°	1007	682	1010	577	1007	631
45°	889	437	894	426	889	681
55°	620	328	636	298	620	550
65°	282	166	303	158	282	284
75°	80	106	93	100	80	92
85°	11	73	14	66	11	14
90°	0	61	1	56	0	0
95°	1	50	0	48	1	0
105°	1	37	1	36	1	1
115°	1	30	1	28	1	1
125°	1	23	1	19	1	1
135°	1	14	1	12	1	0
145°	1	9	1	7	1	0
155°	1	4	1	3	1	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9
2.5°	1118.0	1115.1	1113.9	1111.6	1113.4	1120.2	1115.7	1108.2	1108.8	1095.6	1102.5
5°	1116.8	1113.4	1111.6	1109.4	1110.5	1116.8	1112.2	1104.8	1104.2	1091.0	1097.3
7.5°	1115.1	1111.6	1108.8	1107.1	1107.6	1112.8	1107.1	1098.5	1096.7	1082.4	1088.1
10°	1112.2	1109.9	1105.9	1103.1	1102.5	1108.2	1099.0	1090.4	1086.4	1071.5	1077.3
12.5°	1108.2	1104.8	1100.8	1095.6	1095.0	1098.5	1091.0	1079.0	1075.0	1062.9	1069.2
15°	1102.5	1098.5	1093.9	1088.1	1085.3	1087.6	1078.4	1067.5	1066.9	1056.6	1065.2
17.5°	1096.2	1090.4	1085.3	1077.3	1073.2	1075.0	1067.5	1057.8	1058.9	1052.6	1062.3
20°	1087.6	1081.3	1073.2	1065.2	1059.5	1062.3	1057.2	1049.7	1051.5	1046.9	1055.5
22.5°	1077.8	1069.2	1059.5	1050.3	1045.7	1049.7	1045.7	1039.4	1040.0	1037.1	1042.3
25°	1065.2	1055.5	1044.0	1032.5	1030.2	1033.1	1030.8	1025.7	1023.4	1018.8	1021.1
27.5°	1053.7	1042.9	1028.5	1016.5	1012.5	1018.2	1013.0	1004.4	998.1	991.8	987.2
30°	1040.6	1027.4	1011.3	997.6	994.1	996.4	989.0	975.8	959.1	951.1	938.5
32.5°	1026.2	1009.0	989.0	973.5	971.2	969.5	955.7	936.8	911.0	894.9	875.4
35°	1007.3	988.4	964.3	945.4	941.9	932.2	909.8	884.6	851.4	823.8	790.6
37.5°	986.1	963.7	938.5	913.3	903.5	884.0	852.5	826.1	775.7	742.4	702.3
40°	962.0	935.1	904.1	873.7	857.7	826.1	790.0	751.0	702.3	657.6	623.8
42.5°	928.8	900.1	863.4	829.6	802.1	760.2	717.8	662.7	618.0	580.2	545.8
45°	889.2	854.8	812.4	771.7	736.7	686.8	636.9	581.9	544.6	500.5	477.0
47.5°	838.2	800.9	755.6	710.3	664.5	609.4	557.3	504.5	467.2	435.7	418.5
50°	778.0	743.6	693.7	639.8	589.4	532.0	479.9	440.3	404.2	384.7	371.5
52.5°	703.5	671.3	620.3	561.8	513.1	456.9	409.3	377.2	351.4	337.1	332.5
55°	620.3	592.2	541.8	487.3	437.4	385.8	349.7	321.6	305.0	296.4	297.0
57.5°	531.5	509.7	462.1	413.4	366.3	327.4	294.7	272.3	259.7	259.1	260.9
60°	442.6	426.5	385.3	343.4	302.1	270.6	246.5	231.0	223.0	223.6	223.0
62.5°	357.7	342.8	313.0	278.6	246.0	224.7	203.0	196.6	189.8	189.2	189.2
65°	281.5	270.0	246.0	221.3	196.6	182.9	172.0	164.5	159.4	158.2	158.8
67.5°	211.6	207.0	190.3	173.7	158.2	149.6	140.5	138.7	134.7	134.7	135.9
70°	157.7	154.2	145.0	135.3	129.0	123.3	118.7	118.7	118.1	117.5	120.4
72.5°	114.1	114.7	111.8	104.3	103.8	102.6	101.5	103.2	103.8	105.5	108.9
75°	80.3	82.0	82.0	80.8	83.1	86.0	87.7	90.6	94.0	96.3	100.3
77.5°	56.8	56.8	59.6	63.1	67.7	72.8	77.4	81.4	86.0	88.9	92.3
80°	36.7	38.4	43.0	49.3	55.6	62.5	68.8	74.0	78.5	83.1	85.4
82.5°	21.8	24.7	30.4	38.4	46.4	55.0	61.3	67.7	72.8	77.4	79.1
85°	10.9	14.9	21.8	30.4	39.0	48.2	56.2	61.9	67.7	71.7	74.0
87.5°	3.4	8.0	15.5	23.5	32.7	41.9	50.5	56.8	61.9	65.4	67.7
90°	0.0	4.0	10.9	19.5	28.1	37.3	45.3	52.2	57.3	60.2	61.9
92.5°	0.0	2.3	8.6	16.1	24.1	33.3	41.3	47.6	52.2	55.0	56.2
95°	0.6	1.7	6.3	13.2	21.2	29.8	37.3	43.0	47.6	50.5	51.0
97.5°	0.6	1.1	5.2	10.9	18.3	26.4	33.8	39.6	43.0	45.9	46.4
100°	0.6	1.1	4.0	9.7	16.1	23.5	30.4	35.5	39.6	41.9	42.4
102.5°	0.6	0.6	3.4	8.0	14.3	20.6	26.9	32.1	35.5	37.8	39.0
105°	0.6	0.6	2.9	6.9	12.6	18.3	24.1	29.2	32.1	34.4	35.5
107.5°	0.6	0.6	2.3	5.7	10.9	16.1	21.8	25.8	29.2	31.5	32.7
110°	0.6	0.6	1.7	5.2	9.2	14.3	18.9	22.9	26.4	28.7	29.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.6	0.6	1.7	4.6	8.0	12.6	16.6	20.6	23.5	25.8	27.5
115°	0.6	0.6	1.7	4.0	7.5	10.9	14.9	18.3	21.2	23.5	25.2
117.5°	0.6	0.6	1.7	3.4	6.3	9.7	13.2	16.6	18.9	21.2	22.9
120°	0.6	0.6	1.1	2.9	5.7	8.6	11.5	14.3	17.2	19.5	21.2
122.5°	0.6	0.6	1.1	2.9	4.6	7.5	10.3	12.6	15.5	17.2	18.9
125°	0.6	0.6	1.1	2.3	4.0	6.9	9.2	11.5	13.2	15.5	17.2
127.5°	0.6	0.6	1.1	2.3	3.4	5.7	8.0	10.3	12.0	13.8	14.9
130°	0.6	0.6	1.1	1.7	2.9	4.6	6.9	8.6	10.9	12.0	13.2
132.5°	0.6	0.6	0.6	1.7	2.3	3.4	5.2	7.5	9.2	10.9	11.5
135°	0.6	0.6	0.6	1.1	2.3	2.9	4.0	5.7	7.5	9.2	10.3
137.5°	0.6	0.6	0.6	1.1	1.7	2.9	3.4	4.6	6.3	7.5	9.2
140°	0.6	0.6	0.6	1.1	1.7	2.3	2.9	4.0	5.2	6.3	7.5
142.5°	0.6	0.6	0.6	1.1	1.1	1.7	2.3	3.4	4.0	5.2	6.3
145°	0.6	0.6	0.6	1.1	1.1	1.7	2.3	2.9	3.4	4.0	5.2
147.5°	0.6	0.6	0.6	1.1	1.1	1.1	1.7	2.3	2.9	3.4	4.0
150°	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	2.3	2.9	3.4
152.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	2.3	2.9
155°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	2.3	2.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9
2.5°	1100.2	1101.3	1108.2	1107.6	1106.5	1105.3	1105.3	1104.2	1105.3	1108.2	1107.1
5°	1094.5	1096.2	1101.3	1100.8	1099.6	1099.0	1098.5	1096.7	1097.9	1101.9	1100.8
7.5°	1084.1	1085.9	1090.4	1088.1	1086.4	1087.6	1084.7	1083.0	1085.3	1089.3	1088.7
10°	1073.2	1074.4	1080.1	1079.0	1076.1	1076.7	1073.8	1072.7	1075.5	1077.8	1078.4
12.5°	1065.8	1069.8	1075.0	1074.4	1073.8	1074.4	1071.5	1070.4	1072.1	1074.4	1073.8
15°	1064.1	1069.2	1075.0	1075.0	1075.5	1076.1	1073.2	1071.5	1073.2	1075.0	1074.4
17.5°	1062.3	1068.7	1073.8	1073.2	1073.8	1075.0	1070.4	1069.2	1071.5	1073.8	1072.7
20°	1056.6	1062.3	1065.8	1064.6	1064.6	1065.2	1059.5	1059.5	1062.9	1064.6	1065.2
22.5°	1040.6	1047.4	1047.4	1044.6	1044.6	1042.3	1040.6	1037.1	1041.1	1044.0	1046.3
25°	1016.5	1019.3	1015.9	1009.6	1006.2	1003.3	995.3	1002.1	1002.1	1010.7	1013.6
27.5°	982.7	976.3	966.6	953.4	950.5	941.4	936.2	937.9	940.8	952.8	962.0
30°	927.0	908.1	891.5	885.8	873.2	864.0	854.8	859.4	864.6	871.4	890.4
32.5°	853.7	835.3	808.4	798.6	785.4	774.0	763.1	770.0	779.1	783.7	804.4
35°	769.4	747.6	722.9	706.3	692.6	686.3	672.5	682.2	692.0	695.4	713.2
37.5°	679.9	657.6	635.8	621.5	608.3	604.3	595.1	602.0	609.4	614.6	629.5
40°	595.1	574.5	557.8	548.1	538.9	535.5	532.0	534.9	540.6	544.6	556.1
42.5°	522.3	505.7	494.2	488.5	482.2	477.6	478.1	479.3	482.2	490.8	495.9
45°	458.6	448.9	441.4	440.3	436.3	435.7	435.1	437.4	439.2	444.3	448.3
47.5°	407.6	403.6	401.9	404.2	405.9	403.6	404.8	407.6	411.1	411.1	410.5
50°	367.5	368.6	370.9	376.1	379.5	380.7	381.8	385.3	385.8	387.0	385.3
52.5°	334.8	336.0	342.3	350.3	354.3	356.0	358.3	361.8	361.8	362.9	360.6
55°	301.6	303.3	309.6	317.6	321.1	323.3	325.6	327.9	329.7	331.9	330.2
57.5°	264.9	270.0	274.0	276.3	278.6	280.3	282.1	282.6	286.1	286.7	289.5
60°	225.9	227.0	231.0	230.5	228.8	233.3	231.0	235.1	239.1	244.2	244.8
62.5°	188.6	189.2	192.1	190.9	193.2	192.6	194.4	194.4	197.2	199.5	202.4
65°	159.4	160.0	162.2	162.2	161.7	163.4	165.1	166.3	166.3	168.0	170.3
67.5°	137.6	139.3	141.6	142.8	143.9	143.9	145.6	146.2	147.3	147.9	149.1
70°	122.7	125.0	127.3	128.4	129.0	130.1	130.7	130.7	131.9	132.4	133.6
72.5°	111.8	114.1	115.8	115.8	117.0	117.5	117.5	118.1	118.7	119.8	121.0
75°	102.6	104.3	105.5	104.9	104.9	104.9	105.5	105.5	106.6	107.8	108.9
77.5°	94.0	95.7	95.7	94.6	94.6	94.6	94.6	95.2	95.7	96.9	98.0
80°	87.7	87.7	87.1	87.1	86.0	85.4	85.4	86.0	86.0	87.1	88.9
82.5°	80.8	80.8	80.3	79.7	79.1	78.5	78.5	79.1	79.7	80.3	81.4
85°	74.5	74.5	73.4	73.4	72.8	72.8	72.8	72.8	73.4	74.0	75.1
87.5°	68.2	67.7	67.1	66.5	66.5	66.5	66.5	66.5	67.1	68.2	68.8
90°	61.9	61.3	60.8	60.8	60.2	60.2	60.8	60.8	61.3	61.9	62.5
92.5°	56.2	55.6	55.0	55.0	54.5	54.5	55.0	54.5	55.6	55.6	56.2
95°	51.0	50.5	49.9	49.9	49.9	49.9	49.9	49.9	50.5	50.5	51.0
97.5°	46.4	45.9	45.3	45.3	45.9	45.3	45.9	45.9	45.9	46.4	47.0
100°	42.4	41.9	41.9	42.4	41.9	41.9	42.4	42.4	42.4	42.4	43.0
102.5°	39.0	39.0	39.0	39.0	39.0	39.0	39.6	39.6	39.6	39.6	40.1
105°	35.5	36.1	36.1	36.1	36.7	36.7	36.7	37.3	37.3	37.3	37.3
107.5°	33.3	33.8	33.8	34.4	34.4	35.0	35.0	35.0	35.0	35.5	35.5
110°	31.0	31.5	32.1	32.7	32.7	33.3	33.3	33.3	33.3	33.3	33.3



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	28.7	29.2	29.8	31.0	31.5	31.5	31.5	31.5	32.1	32.1	31.5
115°	26.4	27.5	28.1	29.2	29.8	29.8	30.4	30.4	30.4	30.4	29.8
117.5°	24.1	25.8	26.4	27.5	28.1	28.1	28.7	28.7	28.7	28.7	28.1
120°	22.4	23.5	24.7	25.2	25.8	26.4	26.4	26.9	26.9	26.9	26.4
122.5°	20.6	21.8	22.9	23.5	24.1	24.7	24.7	24.7	24.7	24.7	24.7
125°	18.3	19.5	20.6	21.2	21.8	22.4	22.4	22.9	22.9	22.9	22.4
127.5°	16.6	17.8	18.3	19.5	20.1	20.1	20.6	20.6	20.6	20.6	20.1
130°	14.3	15.5	16.6	17.2	17.8	17.8	18.3	18.3	18.3	18.3	18.3
132.5°	12.6	13.8	14.3	15.5	15.5	16.1	16.1	16.6	16.6	16.6	16.1
135°	11.5	12.0	12.6	13.8	13.8	14.3	14.3	14.3	14.3	14.3	14.3
137.5°	10.3	10.9	11.5	12.0	12.0	12.6	12.6	12.6	12.6	13.2	12.6
140°	8.6	9.7	10.3	10.3	10.9	10.9	10.9	11.5	11.5	11.5	10.9
142.5°	7.5	8.0	8.6	9.2	9.7	9.7	9.7	9.7	10.3	9.7	9.7
145°	5.7	6.9	7.5	8.0	8.6	8.6	8.6	8.6	8.6	8.6	8.6
147.5°	4.6	5.2	6.3	6.9	6.9	7.5	7.5	7.5	7.5	7.5	7.5
150°	4.0	4.0	5.2	5.7	6.3	6.3	6.3	6.3	6.3	6.3	6.3
152.5°	2.9	3.4	4.0	4.6	5.2	5.2	5.2	5.2	5.2	5.2	5.2
155°	2.9	2.9	3.4	3.4	4.0	4.0	4.0	4.0	4.6	4.0	4.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9
2.5°	1105.3	1104.8	1107.1	1104.8	1093.3	1097.9	1096.2	1102.5	1103.1	1104.8	1110.5
5°	1099.6	1099.6	1102.5	1100.2	1089.3	1093.9	1093.3	1099.6	1100.8	1101.9	1108.2
7.5°	1088.1	1088.7	1092.7	1091.0	1079.5	1086.4	1085.9	1093.3	1095.6	1097.9	1103.6
10°	1077.3	1076.7	1081.3	1079.5	1068.7	1076.7	1076.1	1083.6	1087.0	1091.0	1097.9
12.5°	1071.5	1069.8	1071.5	1069.8	1057.8	1064.1	1064.6	1073.2	1077.3	1082.4	1090.4
15°	1071.5	1068.7	1068.7	1065.2	1051.5	1055.5	1056.0	1061.8	1066.9	1072.1	1081.8
17.5°	1070.4	1067.5	1066.9	1064.1	1049.2	1049.2	1048.6	1052.6	1055.5	1060.6	1070.9
20°	1064.1	1062.9	1062.3	1060.6	1046.9	1044.6	1043.4	1043.4	1045.1	1046.9	1057.2
22.5°	1047.4	1048.6	1049.7	1050.9	1040.0	1036.0	1036.5	1035.4	1033.7	1033.7	1042.3
25°	1016.5	1022.2	1026.8	1032.0	1025.7	1022.8	1026.2	1024.5	1021.6	1019.3	1026.8
27.5°	967.2	979.2	989.0	1001.6	1002.1	999.9	1009.0	1007.9	1007.3	1003.9	1009.6
30°	899.0	917.9	931.1	949.4	964.9	967.2	982.7	984.9	987.2	985.5	991.3
32.5°	816.4	842.2	864.6	893.2	908.1	921.3	943.1	952.3	961.4	964.3	970.6
35°	726.4	755.6	782.0	813.5	837.0	865.7	892.1	905.8	926.5	934.5	943.7
37.5°	641.0	668.5	694.3	725.8	763.7	793.5	826.1	857.1	885.2	896.7	910.4
40°	565.3	587.6	612.3	639.8	674.2	713.2	748.7	791.7	825.0	847.9	868.0
42.5°	508.0	518.8	540.1	564.7	592.2	631.8	667.9	716.1	756.2	788.9	822.1
45°	456.9	462.1	477.6	490.8	518.8	553.8	592.2	639.2	681.1	722.9	763.1
47.5°	413.4	419.7	427.1	435.1	455.2	484.4	517.7	560.1	602.0	650.7	696.6
50°	384.1	385.8	387.0	390.4	402.5	422.5	449.5	485.6	525.7	577.9	626.6
52.5°	358.3	358.3	354.9	353.2	357.7	370.4	385.8	411.6	452.9	501.1	552.7
55°	330.8	325.6	324.5	318.8	319.9	325.6	333.1	353.2	387.0	428.3	478.1
57.5°	292.4	290.1	290.1	287.8	283.2	286.1	287.8	302.1	326.2	361.8	405.3
60°	248.2	247.1	250.0	250.5	246.5	248.2	247.7	256.3	273.5	302.1	338.3
62.5°	204.1	209.3	209.8	212.1	209.8	209.3	212.1	219.6	228.2	250.0	278.1
65°	171.4	174.3	174.9	177.7	176.6	176.6	178.9	184.6	189.8	204.7	226.5
67.5°	150.2	149.1	149.6	151.4	149.6	149.1	150.8	154.2	158.2	167.4	182.9
70°	133.6	132.4	132.4	132.4	130.1	128.4	129.0	130.1	131.9	137.0	146.8
72.5°	121.0	121.0	119.2	117.5	115.8	114.7	113.5	112.4	111.8	113.5	118.7
75°	109.5	110.1	109.5	107.8	105.5	103.2	100.9	98.6	95.7	94.6	95.2
77.5°	99.2	99.8	100.3	99.8	97.5	94.6	91.2	87.7	83.7	79.7	77.4
80°	90.0	91.2	91.7	91.2	89.4	87.1	83.1	79.1	73.4	68.2	62.5
82.5°	82.0	83.7	84.3	84.3	83.1	80.8	76.3	71.7	65.4	58.5	51.0
85°	75.7	76.8	78.0	78.0	77.4	75.1	70.5	65.4	59.1	51.0	43.0
87.5°	69.4	69.9	71.1	72.2	71.1	68.8	64.8	59.1	52.7	44.7	35.5
90°	63.1	63.6	64.8	65.9	65.4	63.1	59.6	54.5	47.6	39.0	29.8
92.5°	56.8	57.9	58.5	59.1	59.6	57.9	55.0	49.9	43.0	34.4	25.8
95°	52.2	52.2	53.3	53.9	54.5	52.7	50.5	45.3	39.0	31.0	22.4
97.5°	47.6	47.6	48.7	48.7	49.3	48.2	45.9	41.3	35.0	27.5	18.9
100°	43.0	43.6	44.1	44.7	44.7	44.1	41.9	37.3	31.5	24.7	16.6
102.5°	40.1	40.1	40.7	40.7	41.3	40.1	37.8	33.8	28.1	21.8	14.3
105°	37.3	37.3	37.8	37.8	37.3	36.1	33.8	30.4	25.2	18.9	12.6
107.5°	35.0	35.0	35.0	35.0	34.4	33.3	31.0	26.9	22.4	17.2	11.5
110°	33.3	32.7	32.7	32.1	31.5	29.8	27.5	24.1	20.1	14.9	9.7



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	31.5	31.0	30.4	29.8	28.7	26.9	24.7	21.8	17.8	13.2	8.6
115°	29.8	29.2	28.7	27.5	26.4	24.7	22.4	19.5	15.5	11.5	7.5
117.5°	28.1	27.5	26.4	25.2	24.1	22.4	20.1	17.2	13.8	10.3	6.9
120°	25.8	25.2	24.7	23.5	22.4	20.1	17.8	15.5	12.0	9.2	5.7
122.5°	24.1	23.5	22.4	21.8	20.1	18.3	16.1	13.8	10.9	8.0	5.2
125°	21.8	21.2	20.6	19.5	18.3	16.1	14.3	12.0	9.7	6.9	4.0
127.5°	20.1	19.5	18.3	17.2	16.1	14.3	12.6	10.9	8.6	5.7	4.0
130°	17.8	17.2	16.6	15.5	14.3	12.6	11.5	9.2	7.5	5.2	3.4
132.5°	15.5	15.5	14.9	13.8	12.6	11.5	9.7	8.0	6.3	4.6	2.9
135°	14.3	13.8	13.2	12.0	11.5	9.7	8.6	6.9	5.2	4.0	2.3
137.5°	12.6	12.0	11.5	10.9	9.7	8.6	7.5	5.7	4.6	3.4	2.3
140°	10.9	10.3	10.3	9.2	8.6	7.5	6.3	5.2	4.0	2.9	1.7
142.5°	9.7	9.2	8.6	8.0	7.5	6.3	5.2	4.0	3.4	2.3	1.7
145°	8.6	8.0	7.5	6.9	6.3	5.2	4.6	3.4	2.9	2.3	1.7
147.5°	6.9	6.9	6.3	5.7	5.2	4.6	4.0	3.4	2.3	1.7	1.1
150°	5.7	5.7	5.2	4.6	4.6	4.0	3.4	2.9	2.3	1.7	1.1
152.5°	5.2	4.6	4.6	4.0	4.0	3.4	2.9	2.3	1.7	1.7	1.1
155°	4.0	4.0	4.0	3.4	3.4	2.9	2.3	2.3	1.7	1.1	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9
2.5°	1111.6	1104.8	1110.5	1120.8	1119.7	1118.5	1117.4	1119.7	1127.1	1123.1	1116.8
5°	1109.9	1103.1	1109.4	1119.1	1118.5	1116.8	1115.7	1118.0	1125.4	1121.4	1114.5
7.5°	1106.5	1100.2	1104.8	1114.5	1114.5	1113.4	1112.2	1114.5	1121.4	1118.0	1111.1
10°	1100.8	1096.2	1100.8	1109.9	1110.5	1108.2	1107.1	1109.9	1116.8	1115.1	1109.4
12.5°	1096.2	1091.6	1096.7	1105.9	1106.5	1104.2	1102.5	1105.9	1115.1	1116.2	1114.5
15°	1089.9	1085.9	1092.2	1101.9	1101.9	1100.2	1100.2	1104.8	1117.4	1122.5	1125.4
17.5°	1080.7	1077.8	1085.3	1095.0	1095.6	1094.5	1095.0	1104.2	1120.8	1133.4	1141.5
20°	1069.2	1068.1	1076.1	1086.4	1088.1	1088.7	1091.6	1105.3	1128.3	1145.5	1153.5
22.5°	1055.5	1056.0	1065.2	1076.1	1078.4	1080.1	1085.9	1105.3	1134.0	1152.4	1155.8
25°	1040.0	1041.7	1051.5	1064.6	1067.5	1070.9	1080.7	1105.9	1135.7	1147.8	1142.0
27.5°	1023.4	1026.8	1039.4	1053.2	1056.6	1062.3	1075.0	1102.5	1127.7	1128.3	1107.1
30°	1006.2	1010.2	1025.1	1041.1	1046.9	1052.6	1068.1	1094.5	1108.2	1089.9	1052.6
32.5°	986.7	992.4	1007.3	1026.8	1033.7	1041.1	1056.6	1079.0	1073.8	1034.3	980.9
35°	962.0	970.0	987.2	1010.2	1016.5	1026.2	1037.1	1042.3	1019.3	963.2	903.0
37.5°	931.6	943.7	963.7	990.1	997.0	1003.3	1006.2	991.8	946.0	885.2	822.7
40°	896.7	915.0	936.8	966.0	972.9	972.9	962.6	932.2	874.3	794.6	725.2
42.5°	854.2	876.6	904.1	933.4	940.2	932.2	907.6	854.2	788.3	699.4	626.1
45°	802.6	832.4	863.4	893.8	897.2	879.5	835.3	767.7	686.3	603.7	533.8
47.5°	741.3	780.3	814.1	848.5	843.9	814.1	755.1	678.2	592.2	514.3	458.1
50°	672.5	718.4	756.2	788.9	779.1	737.9	668.5	588.2	502.8	436.3	389.9
52.5°	599.1	651.9	689.7	716.1	702.9	653.6	577.3	500.5	430.6	369.8	338.8
55°	522.9	576.2	615.2	635.8	618.6	565.3	490.2	420.2	354.3	314.7	296.4
57.5°	448.9	498.8	535.5	552.1	530.3	477.0	407.6	348.6	301.0	267.7	258.6
60°	377.8	418.5	453.5	466.1	442.6	393.3	333.7	286.7	251.7	228.8	224.2
62.5°	311.9	345.1	372.7	382.4	359.5	321.1	269.5	234.5	209.8	198.4	192.6
65°	257.4	276.9	305.0	303.3	289.5	254.0	216.1	191.5	175.4	168.0	164.5
67.5°	202.4	220.2	237.9	240.2	223.0	198.4	173.7	155.9	147.3	143.3	141.6
70°	156.5	169.7	180.6	177.7	168.6	153.1	137.6	127.8	124.4	122.7	122.7
72.5°	121.5	128.4	133.6	130.1	124.4	116.4	108.9	104.9	105.5	106.6	107.8
75°	94.0	95.7	96.9	93.4	92.3	87.1	86.6	87.1	90.6	94.0	95.7
77.5°	72.2	69.9	68.2	64.8	65.4	64.8	67.7	72.2	77.4	82.6	87.1
80°	55.6	50.5	46.4	43.0	44.7	47.6	53.3	60.2	67.1	72.8	78.5
82.5°	43.0	35.5	29.8	26.4	29.8	34.4	41.9	50.5	58.5	64.8	71.1
85°	33.3	24.7	17.8	14.3	17.8	24.7	32.7	42.4	51.0	57.9	64.2
87.5°	25.8	17.8	9.7	5.7	9.7	17.2	26.4	35.5	44.1	52.2	58.5
90°	20.6	12.0	4.6	1.1	5.2	12.0	20.6	29.8	38.4	47.0	53.3
92.5°	16.6	8.6	2.3	0.0	2.9	9.2	17.2	25.8	34.4	42.4	48.7
95°	13.8	6.9	1.7	0.0	2.3	6.9	13.8	22.4	30.4	38.4	43.6
97.5°	11.5	5.2	1.1	0.0	1.1	5.7	11.5	18.9	26.9	34.4	39.6
100°	9.7	4.6	1.1	0.0	1.1	4.6	9.7	16.6	23.5	30.4	35.5
102.5°	8.0	3.4	0.6	0.6	0.6	3.4	8.6	14.3	20.6	26.9	32.1
105°	7.5	2.9	0.6	0.6	0.6	2.9	7.5	12.6	18.3	24.1	28.7
107.5°	6.3	2.3	0.6	0.6	0.6	2.3	6.3	10.9	16.6	21.8	25.8
110°	5.2	2.3	0.6	0.6	0.6	2.3	5.2	9.7	14.3	18.9	22.9



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	4.6	1.7	0.6	0.6	0.6	1.7	4.6	8.6	12.6	17.2	20.6
115°	4.0	1.7	0.6	0.6	0.6	1.7	4.0	7.5	10.9	14.9	18.3
117.5°	3.4	1.7	0.6	0.6	0.6	1.1	3.4	6.3	9.7	13.2	16.6
120°	2.9	1.1	0.6	0.6	0.6	1.1	2.9	5.7	8.6	11.5	14.3
122.5°	2.9	1.1	0.6	0.6	0.6	1.1	2.3	4.6	7.5	9.7	12.6
125°	2.3	1.1	0.6	0.6	0.6	0.6	2.3	4.0	6.3	8.6	10.9
127.5°	2.3	1.1	0.6	0.6	0.6	0.6	1.7	3.4	5.2	7.5	9.7
130°	1.7	1.1	0.6	0.6	0.6	0.6	1.1	2.9	4.6	6.3	8.0
132.5°	1.7	1.1	0.6	0.6	0.6	0.6	1.1	2.3	3.4	5.2	6.9
135°	1.7	0.6	0.6	0.6	0.6	0.6	0.6	1.7	2.9	4.0	5.2
137.5°	1.1	0.6	0.6	0.6	0.6	0.6	0.6	1.1	2.3	2.9	4.6
140°	1.1	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.7	2.3	3.4
142.5°	1.1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.7	2.9
145°	1.1	0.6	0.6	1.1	1.1	0.6	0.6	1.1	1.1	1.7	2.3
147.5°	1.1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.7
150°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7
152.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
155°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9
2.5°	1115.7	1102.5	1109.4	1107.1	1109.4	1115.1	1114.5	1112.8	1113.9	1111.1	1108.2
5°	1113.4	1100.2	1107.1	1104.2	1107.1	1112.8	1111.6	1109.9	1111.6	1108.2	1105.3
7.5°	1110.5	1098.5	1106.5	1105.9	1111.1	1118.5	1119.1	1119.1	1123.1	1118.0	1115.7
10°	1110.5	1104.2	1115.1	1119.1	1132.3	1142.0	1143.2	1145.5	1152.4	1151.2	1145.5
12.5°	1122.5	1121.4	1137.4	1147.2	1159.2	1173.0	1180.4	1182.7	1187.3	1183.9	1181.6
15°	1138.0	1143.8	1161.5	1172.4	1185.6	1195.9	1197.6	1198.8	1202.2	1197.1	1193.1
17.5°	1158.7	1162.1	1176.4	1181.0	1189.6	1191.3	1189.0	1183.3	1183.3	1171.8	1168.4
20°	1168.4	1166.7	1172.4	1165.0	1161.5	1151.2	1141.5	1130.6	1130.0	1118.0	1116.8
22.5°	1159.8	1148.3	1136.3	1118.0	1109.9	1095.0	1081.8	1075.5	1071.5	1056.0	1052.0
25°	1129.4	1101.3	1083.6	1061.8	1042.3	1025.1	1012.5	999.3	986.7	974.1	968.3
27.5°	1076.7	1050.3	1021.6	991.3	964.3	937.9	916.7	903.5	891.5	874.9	866.3
30°	1011.9	975.2	943.7	914.4	870.3	838.2	820.4	794.0	784.9	777.4	761.4
32.5°	935.6	891.5	848.5	808.9	763.7	733.8	710.3	690.8	685.1	665.6	661.0
35°	851.4	793.5	744.7	705.7	673.1	636.9	617.5	604.3	592.8	579.6	577.3
37.5°	752.2	700.0	645.0	610.6	584.8	553.8	538.9	529.7	524.6	514.8	513.1
40°	652.4	600.3	562.4	528.0	512.0	495.3	484.4	480.4	478.1	474.7	471.3
42.5°	561.8	516.0	489.0	466.1	459.2	451.2	448.3	450.6	448.3	447.2	446.6
45°	485.0	450.0	431.1	424.3	422.5	420.2	422.5	426.5	427.1	426.0	426.0
47.5°	415.1	398.5	390.4	391.6	394.4	396.2	400.2	405.3	406.5	403.6	404.8
50°	369.2	359.5	357.7	362.3	368.6	370.9	375.5	379.5	379.0	377.8	376.7
52.5°	326.2	323.3	327.9	332.5	339.4	340.5	342.3	344.0	343.4	341.1	340.0
55°	290.1	292.4	296.4	298.1	303.3	302.7	303.3	303.3	301.0	299.8	298.1
57.5°	257.4	258.0	260.3	260.9	263.7	262.6	262.0	260.9	257.4	256.8	255.1
60°	224.2	223.0	228.2	224.2	226.5	224.2	223.6	220.7	217.3	216.7	215.6
62.5°	192.6	190.3	193.8	192.1	193.2	190.9	189.8	186.3	183.5	182.9	182.3
65°	164.5	163.4	166.8	166.3	167.4	164.5	163.4	161.1	158.8	158.2	157.7
67.5°	141.0	143.9	145.6	145.6	146.8	146.2	143.3	142.8	142.2	139.9	139.9
70°	123.8	125.6	129.0	129.6	129.0	130.1	127.8	127.3	126.7	125.6	125.0
72.5°	110.1	112.4	115.8	116.4	115.8	115.8	114.7	114.1	114.1	112.4	112.4
75°	99.2	102.0	104.9	104.9	104.9	103.8	102.6	102.6	101.5	100.9	99.8
77.5°	90.0	93.4	95.7	95.2	94.6	93.4	93.4	91.7	90.0	90.0	88.9
80°	83.1	85.4	87.1	86.6	86.0	84.3	83.7	82.0	80.8	79.1	79.1
82.5°	75.7	78.5	79.7	79.1	78.0	76.3	75.7	74.5	73.4	72.8	71.7
85°	69.4	72.2	72.8	71.7	70.5	69.4	68.8	68.2	67.7	66.5	66.5
87.5°	63.1	65.9	65.9	65.4	64.2	63.6	63.1	62.5	61.9	61.3	60.8
90°	57.9	60.2	60.2	59.6	59.1	58.5	57.9	57.3	56.8	56.2	56.2
92.5°	52.7	55.0	55.0	54.5	53.9	53.3	53.3	52.7	52.2	51.6	51.0
95°	48.2	50.5	50.5	50.5	49.9	49.3	49.3	48.7	48.2	48.2	47.6
97.5°	43.6	45.9	45.9	45.9	45.3	44.7	44.7	44.1	44.1	44.1	43.6
100°	39.6	41.3	41.9	41.9	41.3	41.3	41.3	40.7	40.7	40.7	40.1
102.5°	35.5	37.3	38.4	38.4	38.4	37.8	37.8	37.8	37.8	37.8	37.3
105°	32.1	33.8	35.0	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
107.5°	29.2	31.0	32.1	32.7	33.3	33.3	33.8	33.8	33.8	33.8	33.8
110°	26.4	28.1	29.8	30.4	31.0	31.5	31.5	32.1	31.5	31.5	31.5



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	23.5	25.8	26.9	28.1	28.7	29.2	29.8	29.8	29.8	29.8	29.8
115°	21.2	23.5	24.7	25.8	26.9	27.5	27.5	28.1	28.1	28.1	27.5
117.5°	18.9	21.2	22.4	23.5	24.1	25.2	25.8	25.8	25.8	25.8	25.2
120°	17.2	18.9	20.1	21.2	22.4	22.9	23.5	23.5	23.5	23.5	23.5
122.5°	14.9	16.6	18.3	19.5	20.1	20.6	21.2	21.2	21.2	21.2	21.2
125°	13.2	14.9	16.1	17.2	17.8	18.9	18.9	18.9	18.9	18.9	18.9
127.5°	11.5	13.2	14.3	15.5	16.1	16.6	17.2	17.2	17.2	17.2	17.2
130°	9.7	11.5	12.6	13.8	14.3	14.9	14.9	15.5	15.5	15.5	15.5
132.5°	8.6	9.7	10.9	12.0	12.6	13.2	13.2	13.8	13.8	13.8	13.8
135°	6.9	8.6	9.2	10.3	10.9	11.5	11.5	12.0	12.0	12.0	12.0
137.5°	5.7	6.9	8.0	9.2	9.7	9.7	10.3	10.3	10.9	10.9	10.9
140°	4.6	5.2	6.9	7.5	8.0	8.6	9.2	9.2	9.2	9.2	9.2
142.5°	3.4	4.6	5.2	6.3	6.9	7.5	8.0	8.0	8.0	8.0	8.0
145°	2.9	3.4	4.0	5.2	5.7	6.3	6.9	6.9	6.9	6.9	6.9
147.5°	2.3	2.9	3.4	4.0	4.6	5.2	5.7	5.7	5.7	5.7	5.7
150°	1.7	2.3	2.9	2.9	3.4	4.0	4.6	5.2	5.2	5.2	5.2
152.5°	1.7	1.7	2.3	2.3	2.9	3.4	4.0	4.0	4.0	4.0	4.0
155°	1.1	1.7	1.7	1.7	2.3	2.3	2.9	3.4	3.4	3.4	3.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9
2.5°	1109.9	1112.2	1111.1	1109.4	1108.8	1111.6	1108.8	1095.6	1100.8	1101.3	1105.3
5°	1108.2	1109.9	1108.8	1107.6	1105.9	1109.4	1105.9	1092.2	1097.3	1097.9	1101.9
7.5°	1119.7	1120.2	1120.2	1117.4	1112.8	1114.5	1109.9	1094.5	1097.3	1097.3	1100.2
10°	1148.3	1149.5	1151.2	1143.8	1138.0	1133.4	1127.1	1108.2	1107.6	1103.1	1103.1
12.5°	1185.6	1182.7	1179.9	1176.4	1171.8	1166.1	1156.9	1134.6	1127.1	1119.7	1112.2
15°	1196.5	1195.4	1194.8	1193.1	1190.2	1188.5	1181.6	1159.2	1148.3	1139.2	1126.0
17.5°	1167.8	1170.1	1177.6	1178.2	1181.6	1188.5	1187.3	1171.8	1162.1	1158.1	1142.0
20°	1116.2	1116.8	1126.0	1130.0	1144.9	1156.4	1165.0	1163.2	1161.0	1165.5	1153.5
22.5°	1054.3	1058.3	1068.1	1074.4	1088.7	1101.9	1115.7	1123.1	1135.2	1154.1	1151.8
25°	970.0	975.2	989.0	999.3	1019.3	1039.4	1057.8	1070.9	1085.3	1121.4	1133.4
27.5°	869.1	877.2	894.9	905.3	933.4	954.0	980.4	1006.2	1026.2	1067.5	1092.2
30°	763.1	770.0	788.9	803.2	827.3	855.4	888.6	925.3	958.6	1000.4	1031.4
32.5°	663.9	671.3	686.8	699.4	726.4	749.9	786.6	831.9	862.8	920.7	962.0
35°	577.3	584.2	595.1	606.0	628.3	652.4	684.0	728.1	767.7	827.9	880.0
37.5°	516.6	517.7	524.0	530.3	546.9	565.3	589.9	628.9	665.6	730.4	787.7
40°	473.0	473.0	476.4	478.1	485.6	496.5	512.0	542.4	572.7	622.0	692.0
42.5°	446.0	444.9	444.9	445.5	444.9	450.0	459.2	473.6	500.5	541.2	595.7
45°	426.0	423.7	422.0	417.9	415.7	415.7	416.2	421.4	436.9	463.2	507.4
47.5°	403.6	403.0	400.2	395.6	391.6	388.7	384.1	382.4	387.0	401.9	431.7
50°	377.8	374.9	372.1	368.6	364.1	361.2	352.6	353.2	349.1	356.0	371.5
52.5°	340.0	337.7	336.5	333.7	331.9	330.8	323.9	317.0	315.3	316.5	322.2
55°	298.1	299.3	294.7	297.0	296.4	291.2	288.4	283.2	281.5	280.9	283.8
57.5°	254.6	255.7	252.8	255.1	255.1	252.3	250.5	250.5	246.5	243.1	247.1
60°	215.0	212.7	214.4	217.3	217.3	215.6	214.4	214.4	211.6	210.4	213.3
62.5°	182.9	180.6	182.3	185.2	185.8	184.6	183.5	183.5	180.0	180.0	182.3
65°	158.2	158.8	158.2	160.5	160.5	161.1	160.0	158.8	154.8	156.5	155.9
67.5°	140.5	139.9	139.9	142.2	141.6	142.8	141.6	139.9	137.0	134.7	134.2
70°	125.6	125.0	125.0	126.1	126.7	126.7	126.1	125.0	121.0	118.7	117.0
72.5°	112.4	111.8	112.4	112.9	113.5	114.1	113.5	112.4	108.9	106.1	103.2
75°	100.3	99.8	101.5	101.5	102.0	102.0	102.6	102.0	99.2	95.7	92.3
77.5°	88.3	88.9	90.6	91.2	92.3	92.9	93.4	93.4	90.6	87.7	83.1
80°	78.5	79.7	80.8	81.4	82.6	84.3	84.9	85.4	83.1	80.3	75.1
82.5°	71.7	72.2	73.4	74.0	75.7	76.3	76.8	78.0	76.8	74.0	68.2
85°	65.9	66.5	67.7	67.7	68.8	69.9	70.5	71.1	70.5	67.7	61.9
87.5°	60.8	61.3	61.9	62.5	63.1	63.6	64.2	64.8	64.2	61.3	56.2
90°	56.2	56.2	56.8	56.8	57.3	57.9	59.1	59.1	58.5	56.2	51.0
92.5°	51.0	51.6	51.6	52.2	52.7	53.3	53.9	53.9	53.3	51.0	46.4
95°	47.6	47.6	48.2	48.2	48.7	48.7	49.3	49.3	48.7	46.4	41.9
97.5°	43.6	43.6	43.6	43.6	44.1	44.1	44.7	44.7	44.1	41.9	37.8
100°	40.1	40.1	40.1	40.1	40.1	40.7	40.7	40.7	40.1	37.8	33.8
102.5°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	36.1	34.4	30.4
105°	35.5	35.5	35.5	35.0	35.0	35.0	34.4	34.4	32.7	31.0	27.5
107.5°	33.3	33.3	33.3	32.7	32.7	32.1	31.5	31.5	29.8	28.1	24.7
110°	31.5	31.5	31.5	31.0	30.4	29.8	29.2	28.7	26.9	24.7	21.8



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	29.8	29.8	29.2	29.2	28.7	28.1	26.9	26.4	24.7	22.4	19.5
115°	27.5	27.5	27.5	26.9	26.4	25.8	25.2	24.1	22.4	20.1	17.2
117.5°	25.2	25.2	25.2	24.7	24.1	23.5	22.9	21.8	20.1	17.8	15.5
120°	22.9	22.9	22.9	22.4	21.8	21.2	20.6	19.5	17.8	16.1	13.2
122.5°	21.2	21.2	20.6	20.1	19.5	18.9	18.3	17.2	16.1	13.8	11.5
125°	18.9	18.9	18.3	18.3	17.8	17.2	16.6	15.5	13.8	12.0	10.3
127.5°	17.2	16.6	16.6	16.6	16.1	15.5	14.3	13.8	12.0	10.3	8.6
130°	14.9	14.9	14.9	14.3	14.3	13.8	12.6	11.5	10.3	9.2	7.5
132.5°	13.2	13.2	13.2	13.2	12.6	12.0	10.9	10.3	9.2	7.5	6.3
135°	12.0	12.0	11.5	11.5	10.9	10.3	9.7	8.6	7.5	6.3	5.2
137.5°	10.3	10.3	10.3	9.7	9.7	9.2	8.0	7.5	6.9	5.7	4.6
140°	9.2	9.2	8.6	8.6	8.0	8.0	7.5	6.3	5.7	4.6	4.0
142.5°	8.0	8.0	7.5	7.5	6.9	6.9	6.3	5.7	4.6	4.0	2.9
145°	6.9	6.9	6.3	6.3	6.3	5.7	5.2	4.6	4.0	3.4	2.9
147.5°	5.7	5.7	5.7	5.2	5.2	4.6	4.6	4.0	3.4	2.9	2.3
150°	5.2	5.2	4.6	4.6	4.6	4.0	3.4	3.4	2.9	2.3	1.7
152.5°	4.0	4.0	4.0	4.0	3.4	3.4	2.9	2.9	2.3	1.7	1.7
155°	3.4	3.4	3.4	2.9	2.9	2.9	2.3	2.3	1.7	1.7	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9
2.5°	1103.6	1103.1	1108.2	1107.6	1100.8	1111.1	1118.0
5°	1100.8	1100.2	1104.8	1105.9	1098.5	1109.4	1116.8
7.5°	1098.5	1097.9	1103.1	1104.8	1097.3	1107.1	1115.1
10°	1099.0	1096.2	1100.8	1101.9	1095.0	1105.3	1112.2
12.5°	1103.1	1096.2	1097.9	1097.9	1091.6	1100.8	1108.2
15°	1112.8	1098.5	1096.2	1094.5	1086.4	1095.0	1102.5
17.5°	1123.7	1104.2	1096.2	1090.4	1080.7	1088.1	1096.2
20°	1134.6	1110.5	1097.3	1088.1	1075.0	1081.8	1087.6
22.5°	1139.7	1116.2	1098.5	1084.7	1068.1	1071.5	1077.8
25°	1132.9	1113.9	1096.2	1079.5	1059.5	1060.1	1065.2
27.5°	1107.6	1102.5	1091.0	1074.4	1052.6	1049.7	1053.7
30°	1064.6	1079.0	1079.5	1067.5	1044.6	1038.8	1040.6
32.5°	1004.4	1036.5	1055.5	1053.2	1033.1	1025.1	1026.2
35°	935.1	975.2	1016.5	1030.2	1015.9	1009.6	1007.3
37.5°	851.9	905.8	960.9	994.7	992.4	988.4	986.1
40°	760.2	825.0	890.4	944.2	960.9	960.9	962.0
42.5°	662.2	737.9	809.5	877.7	916.7	925.3	928.8
45°	567.6	643.8	721.8	800.3	852.5	879.5	889.2
47.5°	481.6	558.4	632.4	718.4	787.7	822.7	838.2
50°	408.2	465.5	543.5	628.9	704.6	747.6	778.0
52.5°	347.4	392.1	460.4	540.1	616.3	675.4	703.5
55°	296.4	326.8	384.7	453.5	526.3	587.6	620.3
57.5°	253.4	277.5	317.0	374.4	435.7	496.5	531.5
60°	215.6	232.2	259.1	304.4	356.6	408.8	442.6
62.5°	182.9	193.8	211.6	244.8	285.5	326.2	357.7
65°	157.7	162.2	172.0	192.6	223.6	254.6	281.5
67.5°	133.0	135.9	143.3	155.9	171.4	193.8	211.6
70°	114.7	114.7	115.2	122.7	130.7	145.0	157.7
72.5°	99.8	98.0	94.6	96.3	98.0	106.1	114.1
75°	87.7	83.7	78.0	75.7	74.5	75.7	80.3
77.5°	77.4	71.7	64.8	59.1	54.5	52.7	56.8
80°	68.8	61.9	53.9	46.4	39.0	35.0	36.7
82.5°	61.9	53.3	44.7	36.1	27.5	21.8	21.8
85°	54.5	46.4	37.3	28.1	19.5	12.0	10.9
87.5°	49.3	40.7	31.0	22.4	13.8	6.3	3.4
90°	44.1	35.5	26.4	17.8	9.7	2.9	0.0
92.5°	39.6	31.5	22.9	14.3	6.9	1.7	0.0
95°	35.5	28.1	19.5	12.0	5.7	1.1	0.6
97.5°	31.5	24.7	17.2	9.7	4.0	1.1	0.6
100°	28.7	21.8	14.9	8.0	3.4	0.6	0.6
102.5°	25.2	19.5	12.6	6.9	2.9	0.6	0.6
105°	22.4	17.2	10.9	5.7	2.3	0.6	0.6
107.5°	20.1	14.9	9.7	5.2	2.3	0.6	0.6
110°	17.8	13.2	8.6	4.6	1.7	0.6	0.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	16.1	11.5	7.5	4.0	1.1	0.6	0.6
115°	13.8	10.3	6.3	3.4	1.1	0.6	0.6
117.5°	12.0	8.6	5.7	2.9	1.1	0.6	0.6
120°	10.3	7.5	4.6	2.3	0.6	0.6	0.6
122.5°	9.2	6.3	4.0	2.3	0.6	0.6	0.6
125°	8.0	5.7	3.4	1.7	0.6	0.6	0.6
127.5°	6.9	4.6	2.9	1.1	0.6	0.6	0.6
130°	5.7	4.0	2.3	1.1	0.6	0.6	0.6
132.5°	4.6	3.4	2.3	1.1	0.6	0.6	0.6
135°	4.0	2.9	1.7	1.1	0.6	0.6	0.6
137.5°	3.4	2.3	1.1	1.1	1.1	0.6	0.6
140°	2.9	1.7	1.1	1.1	1.1	1.1	0.6
142.5°	2.3	1.7	1.1	1.1	1.1	1.1	0.6
145°	1.7	1.1	1.1	1.1	1.1	1.1	0.6
147.5°	1.7	1.1	1.1	1.1	1.1	1.1	0.6
150°	1.1	1.1	1.1	1.1	1.1	1.1	1.1
152.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1
155°	1.1	1.1	1.1	1.1	1.1	1.1	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)