

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213695

Luminaire Tested: 2SNLED-LD5-32HL-LN-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33519)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-32HL-LN-UNV-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

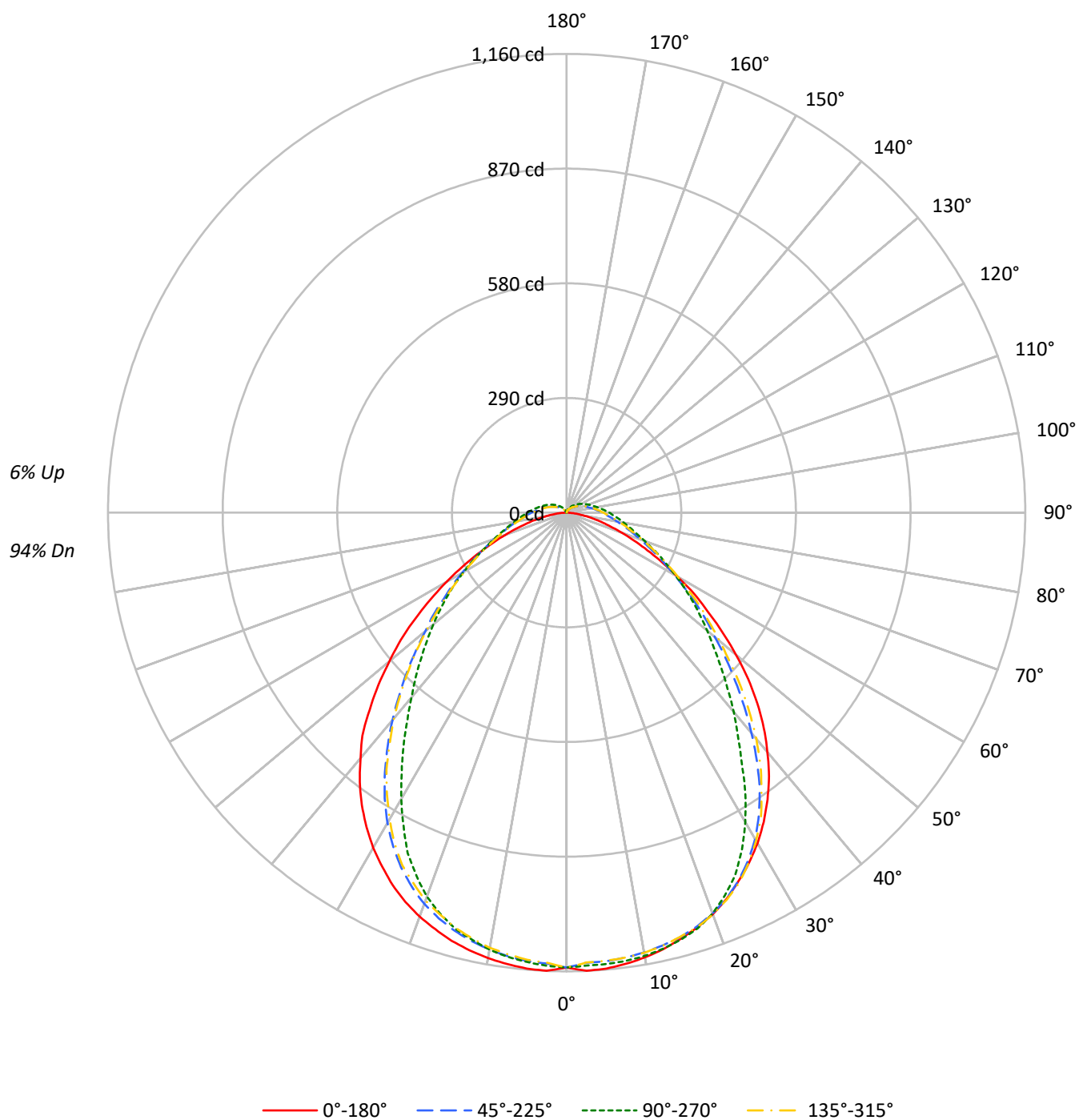
Lumens per Lamp: N/A
Luminaire Lumens: 2911.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 27
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18591	18591	18591	18591
5°	18672	17998	18672	17920
10°	18537	17520	18568	17277
15°	18367	16997	18451	16555
20°	18174	16324	18280	15634
25°	17827	15325	18024	14422
30°	17391	13858	17620	12829
35°	16744	12060	17067	11230
40°	15841	10548	16260	9785
45°	14673	9168	15149	8643
50°	13102	8057	13680	7651
55°	11261	7114	12078	6754
60°	9392	6247	10243	5886
65°	7618	5523	8387	5121
70°	5973	4901	6687	4534
75°	4582	4526	5160	4164
80°	3175	4367	3738	3989
85°	1785	4392	2390	4038

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 15149 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	3.7
10°-20°	312.7	10.7
20°-30°	463.4	15.9
30°-40°	514.9	17.7
40°-50°	466.7	16.0
50°-60°	361.7	12.4
60°-70°	245.6	8.4
70°-80°	156.2	5.4
80°-90°	99.9	3.4
90°-100°	67.3	2.3
100°-110°	46.1	1.6
110°-120°	30.8	1.1
120°-130°	19.1	0.7
130°-140°	10.6	0.4
140°-150°	5.0	0.2
150°-160°	1.8	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	885.2	30.4
0°-40°	1400.0	48.1
0°-60°	2228.4	76.6
0°-90°	2730.1	93.8
90°-120°	144.3	5.0
90°-150°	178.9	6.1
90°-180°	181.0	6.2
0°-180°	2911.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1150	1150	1150	1150	1150	
5°	1157	1146	1157	1141	1157	110
15°	1116	1118	1121	1089	1116	315
25°	1029	1010	1040	950	1029	474
35°	886	772	903	719	886	553
45°	682	552	704	520	682	524
55°	435	388	467	368	435	392
65°	226	261	249	242	226	226
75°	90	174	102	160	90	97
85°	16	125	22	115	16	20
90°	0	108	1	99	0	1
95°	1	92	0	86	1	0
105°	1	68	0	64	1	1
115°	1	51	0	48	1	1
125°	1	38	1	34	1	1
135°	1	27	1	22	1	0
145°	1	17	1	12	1	0
155°	1	10	1	4	1	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3
2.5°	1159.7	1158.5	1157.2	1155.3	1157.2	1162.3	1159.1	1152.2	1150.9	1139.5	1144.6
5°	1157.2	1155.3	1154.1	1152.2	1154.7	1161.0	1157.9	1151.5	1149.6	1138.9	1144.6
7.5°	1150.9	1149.6	1147.7	1147.7	1150.3	1156.6	1154.1	1147.1	1145.8	1135.1	1141.4
10°	1142.0	1141.4	1140.1	1140.1	1142.7	1150.3	1147.1	1140.8	1139.5	1129.4	1136.3
12.5°	1130.6	1131.3	1129.4	1129.4	1133.2	1140.8	1138.2	1131.3	1130.0	1121.2	1128.1
15°	1116.1	1116.7	1115.5	1116.1	1119.9	1128.7	1125.6	1119.3	1118.0	1111.0	1116.7
17.5°	1099.6	1100.3	1100.3	1099.6	1104.1	1112.9	1110.4	1104.7	1102.8	1097.1	1104.1
20°	1080.7	1080.7	1080.7	1080.7	1085.7	1094.6	1091.4	1087.0	1083.2	1078.8	1084.5
22.5°	1057.3	1056.6	1057.3	1059.1	1064.2	1071.2	1069.3	1064.2	1058.5	1056.0	1060.4
25°	1028.8	1030.7	1031.3	1033.2	1039.5	1045.2	1043.3	1038.3	1029.4	1027.5	1028.8
27.5°	999.0	1000.3	1002.2	1001.6	1010.4	1016.1	1012.3	1007.9	995.2	993.3	992.1
30°	965.5	967.4	968.7	968.0	975.0	981.3	977.5	971.8	954.8	953.5	943.4
32.5°	927.5	929.4	930.7	930.7	940.8	943.4	936.4	928.2	909.8	905.4	896.5
35°	885.8	887.7	888.3	888.3	898.4	897.8	889.0	877.6	857.3	851.6	836.4
37.5°	840.9	842.1	842.8	846.6	851.0	847.2	835.8	821.3	806.1	790.2	773.8
40°	790.2	792.1	793.4	795.9	800.4	795.9	779.5	761.8	745.3	727.6	711.2
42.5°	738.4	744.1	742.8	742.2	744.7	732.7	720.0	699.8	683.3	665.0	648.5
45°	682.1	681.4	684.6	685.9	685.2	675.1	657.4	639.0	622.6	603.6	589.7
47.5°	622.6	621.9	624.5	625.7	621.9	611.2	597.3	576.4	562.5	546.0	535.3
50°	559.9	559.9	563.7	559.9	558.0	547.3	535.9	515.0	504.3	489.7	483.4
52.5°	497.3	503.0	499.2	497.9	496.0	485.3	476.4	459.3	450.5	444.2	436.6
55°	435.3	441.6	439.1	437.2	436.6	427.7	419.5	406.8	401.1	396.7	392.3
57.5°	382.8	382.2	380.9	379.0	379.6	372.7	364.4	357.5	354.9	353.0	354.3
60°	322.0	327.1	325.2	325.8	326.5	325.2	318.3	313.8	314.5	315.1	317.0
62.5°	272.1	276.5	279.7	277.1	278.4	280.3	276.5	275.2	277.8	280.3	282.8
65°	225.9	230.3	233.5	232.8	236.6	240.4	239.8	241.1	246.8	249.9	253.1
67.5°	184.1	188.5	193.0	193.6	199.3	205.0	207.5	212.0	218.3	222.7	226.5
70°	148.1	151.8	156.9	160.1	167.7	175.3	179.7	188.5	192.3	198.7	201.2
72.5°	115.8	118.9	125.9	133.5	139.8	149.3	158.2	165.8	171.5	178.4	181.6
75°	90.5	91.7	99.3	108.2	117.1	127.8	137.3	145.5	153.1	160.1	165.1
77.5°	66.4	68.3	75.3	87.3	97.4	108.8	119.6	128.4	136.7	143.6	150.6
80°	46.2	50.0	57.6	69.6	81.0	93.6	103.8	113.9	122.7	129.7	136.7
82.5°	29.7	32.9	43.7	55.7	67.7	80.4	91.1	101.2	110.7	118.3	124.6
85°	16.5	20.9	31.6	44.3	56.3	69.0	80.4	90.5	100.0	106.9	113.3
87.5°	6.3	12.7	22.8	34.8	46.8	58.8	70.9	80.4	89.8	97.4	103.1
90°	0.0	7.6	17.1	29.1	41.1	53.1	64.5	74.7	83.5	90.5	96.8
92.5°	0.6	5.1	13.3	23.4	34.8	46.2	56.9	67.1	75.9	82.9	88.6
95°	0.6	3.8	10.8	20.2	30.4	41.1	51.2	60.7	69.0	75.9	81.6
97.5°	0.6	2.5	8.9	17.7	26.6	37.3	46.8	55.7	63.3	70.2	74.7
100°	0.6	2.5	7.6	15.2	24.0	33.5	42.4	51.2	58.2	63.9	69.0
102.5°	0.6	1.9	6.3	13.3	21.5	29.7	38.6	46.8	53.1	58.8	63.9
105°	0.6	1.9	5.7	11.4	19.0	27.2	34.8	42.4	49.4	54.4	58.8
107.5°	0.6	1.3	5.1	9.5	16.5	24.7	32.3	38.6	44.9	50.0	54.4
110°	0.6	1.3	4.4	8.9	14.6	22.1	29.1	35.4	41.1	46.2	50.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.6	1.3	3.8	8.2	13.3	19.6	26.6	32.3	38.0	42.4	46.2
115°	0.6	1.3	3.8	7.6	12.0	17.1	23.4	29.7	34.2	39.2	42.4
117.5°	0.6	1.3	3.2	6.3	11.4	15.8	21.5	26.6	31.6	36.1	39.2
120°	0.6	1.3	3.2	5.7	10.1	14.6	19.0	24.0	29.1	32.3	35.4
122.5°	0.6	1.3	2.5	5.7	8.9	13.3	17.1	21.5	25.9	29.7	32.9
125°	0.6	1.3	2.5	5.1	8.2	12.0	15.8	19.0	23.4	26.6	29.7
127.5°	0.6	1.3	2.5	4.4	7.6	10.8	14.6	17.7	20.9	24.0	26.6
130°	0.6	1.3	1.9	3.8	7.0	9.5	12.7	16.5	19.0	21.5	24.0
132.5°	0.6	1.3	1.9	3.8	5.7	8.2	11.4	14.6	17.1	19.6	21.5
135°	0.6	1.3	1.9	3.2	5.1	7.6	9.5	12.7	15.2	17.7	19.6
137.5°	0.6	1.3	1.9	3.2	4.4	6.3	8.2	10.8	13.3	15.2	17.7
140°	0.6	1.3	1.9	2.5	3.8	5.7	7.6	8.9	11.4	13.3	15.2
142.5°	0.6	1.3	1.9	2.5	3.8	5.1	6.3	7.6	9.5	11.4	13.3
145°	0.6	1.3	1.9	2.5	3.2	4.4	5.7	7.0	7.6	9.5	10.8
147.5°	0.6	1.3	1.9	2.5	2.5	3.8	5.1	5.7	7.0	7.6	8.9
150°	0.6	1.3	1.9	1.9	2.5	3.2	4.4	5.1	5.7	7.0	7.6
152.5°	0.6	1.3	1.9	1.9	2.5	3.2	3.8	4.4	5.1	5.7	6.3
155°	0.6	1.3	1.9	1.9	1.9	2.5	3.2	3.8	4.4	5.1	5.7
157.5°	1.3	1.3	1.3	1.9	1.9	2.5	2.5	3.2	3.8	3.8	4.4
160°	1.3	1.3	1.3	1.9	1.9	1.9	2.5	2.5	3.2	3.2	3.8
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°	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3
2.5°	1143.3	1145.2	1150.9	1150.9	1149.6	1148.4	1148.4	1146.5	1147.7	1150.3	1149.0
5°	1143.3	1145.2	1150.9	1150.9	1149.6	1148.4	1147.7	1145.8	1147.7	1150.3	1149.0
7.5°	1139.5	1142.0	1147.7	1147.7	1146.5	1145.8	1144.6	1143.3	1145.2	1147.7	1146.5
10°	1134.4	1137.0	1142.7	1142.7	1141.4	1141.4	1139.5	1138.2	1140.8	1142.7	1142.0
12.5°	1126.8	1130.0	1135.1	1134.4	1133.2	1133.8	1131.9	1129.4	1131.9	1133.8	1134.4
15°	1116.1	1119.9	1124.9	1123.7	1121.8	1123.1	1119.9	1118.0	1119.9	1123.7	1123.1
17.5°	1102.2	1104.7	1108.5	1108.5	1106.6	1105.3	1104.1	1102.2	1103.4	1106.0	1106.6
20°	1082.6	1085.7	1087.6	1085.7	1085.1	1083.2	1080.7	1078.8	1081.3	1085.1	1085.7
22.5°	1056.6	1057.3	1061.7	1057.3	1054.1	1053.5	1050.9	1047.1	1050.9	1054.1	1054.7
25°	1024.3	1027.5	1025.6	1018.0	1018.0	1013.0	1011.7	1009.8	1010.4	1016.1	1018.7
27.5°	983.2	984.5	979.4	973.1	967.4	964.2	959.8	960.4	960.4	968.0	970.6
30°	938.3	931.3	926.9	916.8	912.4	904.8	903.5	903.5	902.2	906.0	917.4
32.5°	884.5	875.0	868.1	858.6	851.0	843.4	839.6	841.5	840.9	850.4	854.2
35°	825.7	820.0	805.4	793.4	789.0	777.6	777.6	771.9	775.7	786.5	790.9
37.5°	763.7	754.8	742.8	729.5	726.3	717.5	714.3	711.2	719.4	721.3	725.7
40°	700.4	692.2	680.8	668.1	668.1	657.4	657.4	657.4	658.0	661.8	670.0
42.5°	640.3	631.4	621.3	612.5	611.2	603.0	603.0	602.3	603.6	606.8	614.4
45°	582.1	575.1	564.4	559.9	560.6	551.7	553.6	551.7	554.2	557.4	559.9
47.5°	528.3	523.9	519.5	513.1	511.2	510.6	507.4	504.9	509.3	509.3	513.1
50°	478.3	475.8	473.3	469.5	470.1	467.6	463.8	463.8	466.9	467.6	470.1
52.5°	434.7	431.5	428.3	429.0	429.6	428.3	426.4	424.5	426.4	427.7	430.9
55°	391.0	388.5	391.6	390.4	391.6	390.4	389.1	387.8	391.0	389.1	392.3
57.5°	351.8	354.3	355.6	353.0	354.9	353.7	354.3	352.4	354.9	356.2	355.6
60°	315.7	319.5	317.6	318.3	320.8	319.5	317.0	318.9	321.4	322.0	321.4
62.5°	282.8	287.2	289.1	287.9	288.5	287.2	289.1	286.6	289.8	291.0	289.1
65°	253.1	258.1	259.4	259.4	259.4	258.1	260.0	260.7	261.9	261.9	260.7
67.5°	227.8	232.2	233.5	234.7	233.5	232.2	232.2	232.8	235.4	236.6	235.4
70°	205.0	209.4	210.1	210.1	210.7	212.0	209.4	210.7	212.6	213.2	212.6
72.5°	185.4	189.8	191.1	190.4	191.1	191.7	191.7	190.4	192.3	193.6	193.6
75°	169.6	172.1	173.4	173.4	174.0	174.6	174.6	174.0	175.3	175.9	176.5
77.5°	155.0	156.9	158.8	158.8	159.4	158.8	160.1	160.1	160.7	161.3	162.0
80°	140.5	143.0	144.3	144.9	146.2	146.8	146.8	146.8	147.4	148.1	148.1
82.5°	129.1	131.0	132.9	134.8	134.8	135.4	135.4	135.4	136.0	136.0	136.7
85°	117.7	120.2	122.1	123.4	124.0	124.6	124.6	125.3	125.3	125.3	125.9
87.5°	107.6	110.7	112.0	113.3	113.9	115.2	115.2	115.2	115.8	115.8	115.8
90°	100.6	103.8	105.0	106.3	106.9	107.6	107.6	108.2	108.2	108.8	108.8
92.5°	92.4	95.5	98.1	98.1	98.7	100.0	99.3	99.3	100.0	100.6	100.6
95°	86.0	88.6	90.5	91.1	91.7	91.7	91.7	92.4	91.7	92.4	92.4
97.5°	78.5	81.0	82.9	84.1	84.8	84.8	84.8	85.4	84.8	85.4	85.4
100°	72.1	74.7	76.6	77.2	78.5	78.5	78.5	78.5	78.5	78.5	79.1
102.5°	67.1	69.6	70.9	71.5	72.1	72.8	72.8	72.8	72.8	73.4	73.4
105°	62.0	64.5	65.8	66.4	67.1	67.7	67.7	67.7	68.3	68.3	67.7
107.5°	57.6	59.5	60.7	62.0	62.6	62.6	63.3	63.3	63.3	63.3	63.3
110°	53.1	55.0	56.9	58.2	58.2	58.8	58.8	59.5	59.5	58.8	59.5

TEST NUMBER: P1213695

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	48.7	51.2	52.5	53.8	54.4	55.0	55.0	55.0	55.0	55.0	55.0
115°	44.9	47.5	48.7	50.0	50.6	51.2	51.2	51.2	51.2	51.2	51.2
117.5°	41.8	44.3	45.6	46.2	46.8	47.5	48.1	48.1	48.1	48.1	47.5
120°	38.6	40.5	41.8	43.0	43.7	44.3	44.3	44.3	44.3	44.3	44.3
122.5°	35.4	37.3	38.6	39.9	40.5	41.1	41.1	41.1	41.1	41.1	41.1
125°	32.3	34.2	35.4	36.7	37.3	38.0	38.0	38.0	38.0	38.0	38.0
127.5°	29.1	31.0	32.9	33.5	34.2	34.8	34.8	34.8	35.4	34.8	34.8
130°	25.9	27.8	29.7	30.4	31.0	31.6	32.3	32.3	32.3	32.3	31.6
132.5°	23.4	25.3	26.6	27.2	28.5	28.5	29.1	29.1	29.1	29.1	28.5
135°	21.5	22.8	24.0	24.7	25.9	25.9	25.9	26.6	26.6	25.9	25.3
137.5°	19.0	20.2	21.5	22.1	22.8	23.4	23.4	24.0	23.4	23.4	23.4
140°	17.7	18.3	19.6	20.2	20.9	20.9	20.9	21.5	21.5	20.9	20.9
142.5°	15.2	16.5	17.7	18.3	19.0	19.0	19.0	19.0	19.0	19.0	19.0
145°	12.7	14.6	15.2	16.5	16.5	17.1	17.1	17.1	17.1	17.1	16.5
147.5°	10.8	12.0	13.9	14.6	14.6	15.2	15.2	15.2	15.2	15.2	14.6
150°	8.2	9.5	11.4	12.7	12.7	13.3	13.3	13.3	13.3	12.7	12.7
152.5°	7.0	8.2	8.9	10.1	10.8	10.8	10.8	11.4	10.8	10.8	10.8
155°	6.3	7.0	7.6	8.2	8.9	9.5	9.5	9.5	9.5	8.9	8.9
157.5°	5.1	5.7	6.3	7.0	7.6	8.2	8.2	8.2	8.2	8.2	7.6
160°	3.8	4.4	5.1	5.1	5.7	6.3	7.0	6.3	6.3	6.3	6.3
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213695

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3
2.5°	1147.7	1147.1	1149.0	1145.8	1136.3	1138.9	1137.6	1143.3	1144.6	1145.8	1151.5
5°	1147.7	1147.1	1148.4	1145.8	1135.7	1137.6	1136.3	1142.0	1143.3	1143.9	1149.6
7.5°	1145.2	1144.6	1146.5	1143.3	1132.5	1135.1	1133.2	1138.9	1139.5	1140.1	1145.2
10°	1140.1	1139.5	1140.8	1138.2	1127.5	1130.0	1127.5	1133.2	1133.2	1134.4	1138.2
12.5°	1132.5	1131.3	1133.8	1130.6	1118.6	1121.8	1120.5	1124.3	1124.9	1125.6	1129.4
15°	1121.8	1120.5	1122.4	1120.5	1109.8	1110.4	1108.5	1114.2	1114.8	1113.6	1117.4
17.5°	1106.0	1104.7	1108.5	1107.2	1096.5	1099.0	1098.4	1099.6	1101.5	1098.4	1103.4
20°	1086.4	1087.6	1088.9	1089.5	1081.3	1081.3	1080.7	1083.2	1085.1	1082.6	1086.4
22.5°	1057.3	1060.4	1064.2	1065.5	1059.8	1059.1	1062.9	1061.7	1063.6	1062.3	1064.8
25°	1020.6	1026.9	1030.7	1034.5	1031.3	1032.6	1038.3	1039.5	1039.5	1038.9	1041.4
27.5°	975.0	983.2	990.2	998.4	995.2	997.8	1007.3	1008.5	1011.1	1008.5	1013.6
30°	920.6	928.2	941.5	953.5	954.8	958.5	971.8	973.1	980.1	977.5	979.4
32.5°	866.2	870.0	885.2	897.2	904.8	914.3	928.8	931.3	940.8	942.7	942.7
35°	797.8	808.6	822.5	839.6	849.1	859.2	878.8	882.6	896.5	901.0	906.0
37.5°	740.3	750.4	759.2	777.0	794.0	805.4	821.3	830.7	845.3	853.5	859.8
40°	678.9	687.1	696.6	714.3	728.9	746.0	761.8	773.2	791.5	801.0	809.2
42.5°	620.7	627.0	637.1	649.8	665.0	684.0	699.1	712.4	732.0	745.3	754.8
45°	568.8	572.6	581.5	590.9	604.2	623.8	638.4	655.5	671.3	685.2	696.6
47.5°	520.1	525.1	529.6	535.9	547.9	559.9	577.0	593.5	609.3	624.5	635.9
50°	475.2	475.2	482.1	486.6	494.8	505.5	518.8	530.2	549.8	560.6	575.1
52.5°	431.5	434.0	437.8	440.4	446.7	453.6	464.4	473.9	490.3	500.5	514.4
55°	392.9	395.4	397.3	398.6	402.4	410.6	414.4	422.0	433.4	441.6	453.6
57.5°	356.2	357.5	359.4	360.0	360.6	365.7	368.9	370.8	382.2	390.4	400.5
60°	322.7	322.7	324.6	323.9	323.3	325.8	325.2	327.1	334.1	339.1	343.6
62.5°	291.0	291.0	291.7	290.4	289.8	289.8	287.2	289.1	291.0	291.7	294.8
65°	261.9	265.1	262.6	263.2	259.4	258.1	256.9	253.1	252.4	249.9	251.2
67.5°	236.0	238.5	236.0	236.0	232.8	230.3	227.1	220.8	218.9	213.9	212.6
70°	215.1	213.2	214.5	212.6	208.8	205.6	201.2	196.1	189.8	183.5	179.1
72.5°	194.9	194.9	193.6	191.7	189.8	183.5	178.4	172.7	165.1	156.9	150.6
75°	175.3	175.9	175.9	174.0	170.8	165.1	159.4	151.2	143.0	133.5	125.3
77.5°	161.3	161.3	161.3	158.2	155.0	150.0	143.0	134.1	125.3	113.9	104.4
80°	148.1	147.4	147.4	143.6	140.5	134.8	127.8	118.9	109.5	97.4	86.7
82.5°	137.3	136.7	135.4	132.2	127.8	122.1	115.2	105.7	95.5	84.8	71.5
85°	125.9	125.3	124.0	120.8	116.4	111.4	103.8	94.3	84.1	72.1	59.5
87.5°	115.8	115.2	113.3	111.4	106.3	100.6	93.0	84.1	73.4	62.0	49.4
90°	108.8	107.6	106.3	103.8	99.3	93.0	85.4	75.9	65.2	53.8	41.1
92.5°	100.6	100.0	98.1	95.5	91.7	85.4	77.8	69.0	58.2	47.5	35.4
95°	92.4	91.7	90.5	87.9	84.1	78.5	71.5	62.6	52.5	41.8	31.0
97.5°	84.8	84.8	82.9	81.0	76.6	72.1	65.2	56.9	47.5	38.0	27.8
100°	78.5	78.5	76.6	74.0	70.9	66.4	59.5	51.9	43.0	34.2	24.0
102.5°	72.8	72.1	70.9	68.3	65.2	60.7	54.4	47.5	39.2	30.4	21.5
105°	67.7	67.1	65.8	63.3	60.7	55.7	50.6	43.7	35.4	27.2	19.0
107.5°	62.6	62.0	61.4	58.8	55.7	51.2	46.2	39.2	32.3	24.7	17.1
110°	58.2	57.6	56.3	53.8	50.6	46.8	41.8	36.1	29.1	22.1	15.2

TEST NUMBER: P1213695

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	54.4	53.8	52.5	50.0	47.5	43.0	38.6	32.3	26.6	20.2	13.3
115°	50.6	50.0	48.7	46.2	43.0	39.2	34.8	29.7	23.4	17.7	12.0
117.5°	46.8	46.2	44.9	43.0	39.9	36.1	31.6	26.6	20.9	16.5	10.8
120°	43.7	42.4	41.1	39.2	36.1	32.9	28.5	24.0	19.0	14.6	9.5
122.5°	40.5	39.2	38.0	36.1	32.9	29.7	25.3	21.5	17.7	13.3	8.9
125°	36.7	36.1	34.8	32.9	29.7	26.6	23.4	19.6	15.8	12.0	7.6
127.5°	33.5	32.9	31.6	29.1	26.6	24.0	20.9	17.7	13.9	10.1	7.0
130°	31.0	29.7	28.5	26.6	24.7	22.1	19.0	15.8	12.7	8.9	6.3
132.5°	27.8	26.6	25.3	24.0	22.1	19.6	17.1	13.9	11.4	8.2	5.7
135°	25.3	24.0	22.8	21.5	19.6	17.7	15.2	12.7	10.1	7.6	5.1
137.5°	22.1	21.5	20.9	19.6	17.7	15.8	13.9	10.8	8.9	7.0	4.4
140°	20.2	19.6	19.0	17.1	15.8	13.9	12.0	9.5	7.6	5.7	3.8
142.5°	18.3	17.7	16.5	15.2	13.9	12.7	10.1	8.9	7.0	5.1	3.8
145°	15.8	15.2	14.6	13.3	12.0	10.1	8.9	7.6	6.3	4.4	3.2
147.5°	14.6	13.9	12.7	11.4	10.1	8.9	8.2	7.0	5.1	3.8	2.5
150°	12.0	11.4	10.8	9.5	8.9	8.2	7.0	5.7	4.4	3.2	2.5
152.5°	10.1	9.5	8.9	8.9	7.6	7.0	5.7	5.1	3.8	3.2	1.9
155°	8.9	8.9	8.2	7.6	6.3	5.7	5.1	3.8	3.2	2.5	1.9
157.5°	7.6	7.0	6.3	6.3	5.7	5.1	3.8	3.2	2.5	2.5	1.9
160°	6.3	5.7	5.7	5.1	4.4	3.8	3.2	3.2	2.5	1.9	1.9
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: P1213695

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3
2.5°	1152.2	1145.2	1151.5	1159.7	1159.7	1158.5	1157.2	1159.7	1166.1	1163.5	1156.0
5°	1150.3	1143.3	1149.0	1157.2	1157.2	1155.3	1154.1	1156.0	1162.9	1159.7	1152.8
7.5°	1146.5	1140.1	1143.9	1151.5	1151.5	1149.6	1148.4	1150.9	1156.6	1153.4	1145.8
10°	1139.5	1132.5	1137.0	1143.9	1143.3	1142.0	1140.1	1143.3	1148.4	1143.9	1135.1
12.5°	1130.6	1123.7	1127.5	1133.8	1133.2	1130.6	1129.4	1131.3	1135.7	1133.2	1123.7
15°	1118.6	1111.7	1114.8	1121.2	1119.3	1117.4	1114.8	1115.5	1121.2	1116.7	1106.6
17.5°	1104.1	1096.5	1099.0	1104.7	1102.8	1100.9	1097.7	1098.4	1104.7	1098.4	1087.6
20°	1086.4	1078.1	1080.0	1087.0	1083.8	1080.7	1077.5	1077.5	1083.8	1076.9	1064.8
22.5°	1067.4	1059.1	1060.4	1065.5	1062.9	1057.3	1054.1	1056.0	1059.1	1050.3	1037.6
25°	1044.0	1033.2	1035.1	1040.2	1038.3	1030.7	1027.5	1028.8	1027.5	1020.6	1007.3
27.5°	1016.8	1005.4	1006.6	1009.8	1007.3	1000.3	996.5	997.1	994.6	985.8	970.6
30°	982.6	976.9	976.3	978.2	974.4	967.4	963.0	961.7	961.1	948.4	930.1
32.5°	947.8	942.7	939.6	942.1	937.7	930.7	923.1	923.1	916.8	904.8	889.0
35°	912.4	904.1	901.0	902.9	897.8	889.0	882.6	879.5	870.0	854.8	837.7
37.5°	866.8	861.1	857.3	859.2	853.5	847.2	835.2	832.0	821.9	801.0	779.5
40°	817.5	813.0	809.2	811.1	804.8	795.3	784.6	779.5	768.1	744.7	727.6
42.5°	764.3	762.4	758.0	764.9	752.3	742.8	732.0	723.8	712.4	687.1	667.5
45°	708.0	712.4	702.3	704.2	696.0	687.8	676.4	664.3	653.0	628.9	606.8
47.5°	648.5	651.7	644.7	646.0	637.1	629.5	619.4	604.2	591.6	570.7	551.1
50°	587.2	585.9	585.9	584.6	577.7	568.2	558.0	544.1	531.5	512.5	496.0
52.5°	522.0	524.5	525.8	528.9	520.1	514.4	498.6	486.6	477.1	457.4	443.5
55°	459.3	468.2	465.7	466.9	456.8	452.4	439.7	430.2	416.3	404.9	396.1
57.5°	402.4	404.3	405.6	407.5	403.0	394.2	384.1	376.5	365.7	356.2	349.9
60°	347.4	347.4	348.0	351.2	346.7	339.1	331.5	325.8	318.3	312.6	308.8
62.5°	295.5	299.9	300.5	298.0	292.3	288.5	283.5	280.3	275.2	273.3	272.1
65°	247.4	247.4	247.4	248.7	245.5	243.0	239.8	239.2	241.1	238.5	239.8
67.5°	206.9	205.0	203.7	204.4	203.1	201.8	201.2	203.1	206.9	206.9	210.1
70°	172.1	168.3	165.8	165.8	165.8	166.4	168.3	172.1	178.4	181.0	185.4
72.5°	143.6	135.4	131.6	131.6	132.2	134.8	140.5	147.4	153.1	158.2	163.9
75°	116.4	108.2	102.5	101.9	103.1	106.9	115.2	121.5	131.0	137.9	144.9
77.5°	94.3	84.1	77.2	76.6	78.5	84.1	94.3	102.5	113.3	120.8	128.4
80°	75.3	63.9	58.2	54.4	57.6	64.5	75.9	86.0	96.2	106.3	115.8
82.5°	60.1	49.4	40.5	36.7	40.5	50.0	60.7	72.8	82.9	93.6	103.1
85°	47.5	36.1	25.9	22.1	26.6	36.7	48.7	60.7	72.1	82.9	92.4
87.5°	37.3	25.9	15.8	10.8	16.5	27.2	38.6	50.6	62.6	73.4	82.9
90°	29.1	18.3	8.9	1.3	9.5	19.6	31.0	42.4	54.4	65.2	74.7
92.5°	24.7	13.9	5.1	0.0	5.7	14.6	25.3	36.7	47.5	58.2	67.7
95°	20.9	11.4	3.8	0.0	3.8	11.4	20.9	31.0	41.8	52.5	62.0
97.5°	17.7	8.9	2.5	0.0	2.5	8.9	17.1	27.2	36.7	46.8	55.7
100°	15.2	7.6	1.9	0.0	1.9	7.0	14.6	23.4	32.9	42.4	50.6
102.5°	13.3	6.3	1.3	0.0	1.3	5.7	12.0	20.2	28.5	37.3	45.6
105°	11.4	5.1	1.3	0.0	0.6	4.4	10.1	17.7	25.3	33.5	41.1
107.5°	10.1	4.4	1.3	0.0	0.6	3.8	8.9	15.2	22.8	29.7	36.7
110°	8.9	3.8	1.3	0.0	0.6	2.5	7.6	13.3	19.6	26.6	33.5

TEST NUMBER: P1213695

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	7.6	3.2	0.6	0.0	0.0	1.9	6.3	11.4	17.1	24.0	29.7
115°	7.0	3.2	0.6	0.0	0.0	1.3	5.1	10.1	15.2	21.5	26.6
117.5°	6.3	2.5	0.6	0.0	0.6	1.3	4.4	8.9	13.3	18.3	24.0
120°	5.7	2.5	0.6	0.0	0.6	0.6	3.2	7.6	11.4	16.5	20.9
122.5°	5.1	2.5	0.6	0.0	0.6	0.6	2.5	6.3	10.1	14.6	18.3
125°	4.4	1.9	1.3	0.6	0.6	0.6	1.9	5.1	8.9	12.0	16.5
127.5°	4.4	1.9	1.3	0.6	0.6	0.6	1.3	4.4	7.0	10.8	14.6
130°	3.8	1.9	1.3	0.6	0.6	0.6	0.6	3.2	6.3	8.9	12.0
132.5°	3.2	1.9	1.3	0.6	0.6	0.6	0.6	1.9	4.4	7.6	10.1
135°	3.2	1.9	1.3	0.6	0.6	0.6	0.6	1.3	3.2	5.7	8.2
137.5°	2.5	1.3	1.3	0.6	0.6	0.6	0.6	0.6	2.5	4.4	6.3
140°	2.5	1.3	1.3	0.6	0.6	0.6	0.6	0.6	1.9	3.2	5.1
142.5°	1.9	1.3	1.3	0.6	0.6	0.6	0.6	0.6	1.3	2.5	3.8
145°	1.9	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6	1.3	2.5
147.5°	1.9	1.9	1.3	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.9
150°	1.9	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3
152.5°	1.9	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3
155°	1.9	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3
157.5°	1.9	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3
160°	1.9	1.3	1.3	0.6	1.3	0.6	1.3	1.3	1.3	1.3	1.3
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213695

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3
2.5°	1153.4	1141.4	1147.7	1145.8	1148.4	1153.4	1152.8	1151.5	1151.5	1149.6	1147.1
5°	1149.6	1138.2	1143.9	1140.8	1143.9	1148.4	1147.7	1145.8	1147.1	1143.9	1140.8
7.5°	1142.0	1131.9	1137.0	1134.4	1137.0	1141.4	1139.5	1138.9	1140.1	1135.1	1133.2
10°	1133.2	1121.8	1127.5	1124.3	1127.5	1130.6	1129.4	1126.8	1129.4	1124.3	1122.4
12.5°	1119.3	1109.8	1113.6	1112.3	1114.2	1117.4	1114.8	1112.9	1114.2	1109.8	1106.0
15°	1104.1	1094.6	1097.7	1095.8	1097.1	1100.9	1096.5	1095.8	1094.6	1090.2	1088.9
17.5°	1084.5	1075.6	1078.8	1075.6	1077.5	1076.2	1075.6	1072.4	1072.4	1067.4	1063.6
20°	1060.4	1052.8	1050.9	1048.4	1050.9	1048.4	1044.6	1042.1	1041.4	1036.4	1033.2
22.5°	1032.6	1023.7	1025.0	1018.0	1018.7	1014.9	1008.5	1006.0	1003.5	997.8	993.3
25°	999.0	990.2	983.9	979.4	973.7	973.1	964.9	958.5	957.9	951.0	950.3
27.5°	961.1	951.0	945.9	935.1	928.2	922.5	915.5	909.2	906.0	898.4	893.4
30°	917.4	906.0	893.4	885.8	875.0	870.6	858.6	851.0	848.5	840.2	836.4
32.5°	868.1	856.0	845.9	831.4	819.4	813.0	801.0	793.4	790.2	781.4	776.3
35°	814.3	801.0	789.0	775.1	765.6	754.8	740.3	732.7	725.7	722.5	718.8
37.5°	758.0	743.4	729.5	715.6	707.4	694.7	682.1	677.0	668.8	665.6	661.8
40°	699.8	685.2	671.9	658.6	649.2	637.8	626.4	624.5	615.6	612.5	609.9
42.5°	642.2	627.0	611.8	602.3	595.4	584.0	576.4	574.5	566.9	565.0	565.0
45°	590.3	571.3	558.7	550.5	544.8	535.3	528.9	527.7	521.3	520.1	520.1
47.5°	534.6	516.9	507.4	502.4	497.3	490.3	486.6	486.6	480.2	479.0	478.3
50°	482.8	466.3	459.3	454.3	453.6	448.6	445.4	444.2	444.2	439.7	440.4
52.5°	433.4	425.2	419.5	416.3	412.5	409.4	406.8	406.8	404.9	401.8	403.0
55°	387.8	378.4	379.0	376.5	374.6	372.7	373.3	369.5	368.9	366.3	368.2
57.5°	342.3	342.3	341.0	339.1	336.0	337.2	337.2	337.2	334.1	332.2	334.1
60°	303.7	305.6	302.4	304.3	303.1	303.7	302.4	302.4	300.5	299.9	300.5
62.5°	269.5	272.7	271.4	274.0	272.7	273.3	274.6	272.1	270.8	269.5	270.8
65°	239.2	243.0	242.3	244.2	244.9	245.5	246.1	244.9	243.6	242.3	241.7
67.5°	212.6	216.4	218.9	219.5	220.2	222.1	221.4	220.2	218.9	217.0	216.4
70°	188.5	193.6	196.8	198.0	200.6	199.3	199.3	198.7	197.4	195.5	194.9
72.5°	168.3	174.0	177.2	178.4	181.0	181.0	180.3	179.7	178.4	176.5	175.9
75°	150.6	155.6	160.1	162.6	164.5	164.5	163.9	163.2	162.0	160.7	160.1
77.5°	136.7	141.1	144.9	148.1	149.3	150.0	149.3	148.1	148.1	147.4	146.8
80°	122.7	127.8	131.6	134.8	136.7	136.7	136.0	136.7	135.4	134.8	134.1
82.5°	110.7	116.4	120.8	124.0	125.3	125.9	125.3	125.9	124.6	124.6	124.6
85°	100.0	105.7	110.7	113.3	115.2	115.8	115.8	115.8	115.2	115.2	115.2
87.5°	91.1	96.8	101.9	104.4	106.3	106.9	106.9	107.6	106.3	106.3	106.3
90°	82.9	88.6	93.6	96.2	98.1	99.3	99.3	100.0	99.3	98.7	98.7
92.5°	75.3	81.6	86.7	89.2	91.1	93.0	93.0	93.6	92.4	92.4	92.4
95°	69.0	75.3	79.7	82.9	84.8	86.0	86.7	86.7	86.0	86.0	86.0
97.5°	63.3	69.0	73.4	76.6	78.5	79.1	79.7	80.4	79.7	79.7	79.7
100°	57.6	63.3	67.7	70.2	72.8	73.4	74.0	74.7	74.7	74.0	74.0
102.5°	52.5	58.2	62.0	65.2	67.1	68.3	69.0	69.0	69.0	69.0	69.0
105°	47.5	53.1	56.9	60.1	62.0	63.3	63.9	64.5	64.5	63.9	63.9
107.5°	43.0	48.1	52.5	55.0	57.6	58.8	59.5	59.5	60.1	59.5	59.5
110°	38.6	44.3	48.1	50.6	53.1	54.4	55.0	55.7	55.7	55.7	55.7



TEST NUMBER: P1213695

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	35.4	39.9	43.7	46.2	48.7	50.0	50.6	51.2	51.9	51.2	51.2
115°	31.6	36.1	39.9	42.4	44.3	45.6	46.8	47.5	47.5	48.1	47.5
117.5°	28.5	32.3	36.1	38.6	40.5	42.4	43.0	43.7	44.3	43.7	43.7
120°	25.3	29.1	32.3	34.8	36.7	38.6	39.2	39.9	40.5	39.9	39.9
122.5°	22.8	25.9	29.1	31.6	33.5	34.8	36.1	36.1	36.7	36.7	36.7
125°	20.2	23.4	25.9	28.5	30.4	31.6	32.3	32.9	32.9	33.5	33.5
127.5°	17.7	20.2	23.4	25.3	27.2	28.5	29.1	29.7	29.7	30.4	30.4
130°	15.2	17.7	20.2	22.1	24.0	25.3	25.9	26.6	27.2	27.2	27.2
132.5°	13.3	15.8	17.7	19.6	20.9	22.1	23.4	24.0	24.0	24.0	24.0
135°	10.8	13.3	15.2	17.1	18.3	19.6	20.2	21.5	21.5	21.5	21.5
137.5°	8.9	11.4	13.3	14.6	15.8	17.1	17.7	18.3	19.0	19.0	19.0
140°	7.0	8.9	10.8	12.7	13.9	14.6	15.8	15.8	16.5	16.5	16.5
142.5°	5.1	7.0	8.2	10.1	11.4	12.7	13.3	13.9	13.9	13.9	13.9
145°	3.8	5.1	6.3	7.6	9.5	10.1	10.8	11.4	12.0	12.0	12.0
147.5°	2.5	3.8	4.4	5.7	7.0	8.2	8.9	9.5	10.1	10.1	10.1
150°	1.9	2.5	3.8	4.4	5.1	6.3	7.6	7.6	8.2	8.2	7.6
152.5°	1.3	1.9	2.5	3.2	3.8	4.4	5.7	5.7	6.3	6.3	6.3
155°	1.3	1.3	1.3	1.9	2.5	3.2	3.8	4.4	4.4	4.4	4.4
157.5°	1.3	1.3	1.3	1.3	1.3	1.9	2.5	3.2	3.2	3.2	3.2
160°	1.3	1.3	0.6	0.6	1.3	1.3	1.3	1.3	1.9	1.9	1.9
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: P1213695

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3
2.5°	1149.0	1150.3	1150.3	1149.0	1148.4	1150.9	1147.7	1135.7	1139.5	1140.8	1144.6
5°	1143.3	1144.6	1144.6	1144.6	1143.3	1145.8	1142.7	1130.6	1135.1	1137.0	1139.5
7.5°	1135.1	1135.7	1137.0	1136.3	1135.1	1138.9	1135.7	1123.7	1126.8	1130.0	1133.2
10°	1124.3	1124.3	1124.9	1126.2	1124.9	1128.1	1124.9	1114.2	1117.4	1119.3	1123.1
12.5°	1109.8	1111.0	1111.7	1111.0	1110.4	1112.9	1111.7	1101.5	1102.8	1106.6	1110.4
15°	1090.2	1090.2	1093.3	1092.0	1092.0	1094.6	1095.8	1084.5	1086.4	1092.0	1095.8
17.5°	1066.1	1066.7	1069.3	1070.5	1069.9	1074.3	1075.0	1066.1	1065.5	1072.4	1076.2
20°	1035.1	1036.4	1039.5	1042.1	1042.1	1047.1	1049.0	1043.3	1044.0	1051.6	1052.8
22.5°	997.1	997.1	1002.8	1006.6	1009.8	1013.0	1018.7	1013.6	1013.6	1023.7	1029.4
25°	950.3	954.8	956.7	964.2	968.7	977.5	982.6	983.2	983.9	993.3	997.1
27.5°	898.4	899.7	905.4	914.3	919.3	927.5	937.0	938.9	942.1	954.8	960.4
30°	839.6	843.4	845.9	858.6	865.5	876.3	888.3	892.7	895.3	912.4	919.3
32.5°	779.5	780.8	791.5	798.5	806.7	818.1	832.0	840.2	845.3	863.0	873.1
35°	719.4	721.9	730.8	739.6	747.9	759.2	773.8	785.2	794.0	809.9	823.1
37.5°	664.3	670.7	672.6	681.4	687.8	699.1	709.3	725.7	734.6	751.0	768.1
40°	615.0	616.9	618.2	627.0	631.4	642.2	656.7	667.5	679.5	691.5	711.8
42.5°	566.3	567.5	569.4	574.5	579.6	587.2	597.9	608.7	621.3	639.0	652.3
45°	521.3	522.6	523.9	527.0	531.5	538.4	545.4	553.0	565.6	580.8	594.7
47.5°	479.6	482.1	482.1	482.8	485.9	491.6	496.7	506.2	513.1	521.3	537.2
50°	439.7	441.6	442.3	442.3	444.2	448.0	449.2	455.5	461.9	469.5	480.9
52.5°	402.4	402.4	401.8	404.3	404.3	406.8	407.5	411.3	415.7	423.9	429.0
55°	367.0	367.0	368.9	367.6	367.6	368.9	368.2	368.9	372.7	377.7	382.2
57.5°	332.8	332.2	334.1	332.8	332.2	333.4	334.7	332.2	332.8	337.9	337.9
60°	298.6	299.3	301.2	299.9	299.9	299.9	298.6	297.4	296.1	299.3	300.5
62.5°	271.4	269.5	271.4	269.5	270.8	270.2	268.9	266.4	267.0	265.7	264.5
65°	243.0	243.0	243.6	241.7	243.0	243.0	241.1	240.4	236.6	235.4	232.2
67.5°	218.3	218.3	218.9	217.7	217.7	218.3	216.4	214.5	210.7	208.8	204.4
70°	196.8	196.8	196.8	196.1	196.1	196.1	194.9	192.3	188.5	185.4	179.7
72.5°	177.2	177.8	177.2	177.2	179.1	177.2	175.3	172.7	169.6	163.2	158.2
75°	161.3	162.0	161.3	161.3	161.3	160.7	160.1	156.3	152.5	147.4	139.8
77.5°	147.4	147.4	148.1	147.4	147.4	146.8	144.9	141.7	137.3	132.9	124.0
80°	134.1	134.8	135.4	136.0	134.8	134.1	132.2	129.7	124.0	118.9	110.1
82.5°	124.6	124.0	124.6	125.3	124.0	123.4	121.5	118.3	113.9	106.9	98.1
85°	115.2	114.5	114.5	115.2	114.5	113.3	111.4	108.2	103.8	96.8	87.9
87.5°	105.7	106.3	106.9	106.3	105.7	104.4	102.5	99.3	94.3	88.6	79.1
90°	98.7	98.7	98.7	98.7	98.1	96.8	94.9	91.1	86.7	79.7	71.5
92.5°	92.4	92.4	92.4	92.4	91.7	89.8	87.9	84.8	79.7	72.8	65.2
95°	86.0	86.7	86.0	86.0	84.8	84.1	81.0	77.8	73.4	66.4	58.2
97.5°	79.1	79.7	79.1	79.1	78.5	77.2	75.3	71.5	67.1	60.7	53.1
100°	74.0	74.0	73.4	73.4	72.8	71.5	69.0	65.8	61.4	55.0	47.5
102.5°	68.3	69.0	68.3	68.3	67.1	65.8	63.9	60.7	56.3	50.0	43.0
105°	63.9	63.9	63.3	63.3	62.0	60.7	58.8	55.0	51.2	45.6	38.6
107.5°	59.5	59.5	58.8	58.8	57.6	56.3	53.8	50.6	46.8	41.1	34.8
110°	55.0	55.0	55.0	54.4	53.1	51.2	49.4	46.2	42.4	37.3	31.0

TEST NUMBER: P1213695

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	51.9	51.2	50.6	50.0	48.7	47.5	44.9	41.8	38.0	33.5	27.8
115°	47.5	47.5	46.8	46.2	44.9	43.0	41.1	38.6	34.8	29.7	24.7
117.5°	43.7	43.7	43.0	42.4	41.1	39.2	37.3	34.8	31.0	26.6	22.1
120°	39.9	39.9	39.2	38.6	37.3	35.4	34.2	31.0	27.8	23.4	19.6
122.5°	36.7	36.1	36.1	34.8	34.2	32.3	30.4	27.8	24.7	20.9	17.1
125°	32.9	32.9	32.3	31.6	31.0	29.1	27.2	24.7	21.5	18.3	15.2
127.5°	29.7	29.7	29.1	28.5	27.8	25.9	24.0	22.1	19.0	15.8	12.7
130°	26.6	26.6	25.9	25.3	24.7	22.8	21.5	19.0	16.5	13.9	10.8
132.5°	24.0	24.0	23.4	22.8	21.5	20.2	19.0	16.5	14.6	12.0	9.5
135°	21.5	20.9	20.9	20.2	19.0	17.7	16.5	14.6	12.0	10.1	7.6
137.5°	19.0	18.3	17.7	17.1	16.5	15.2	13.9	12.7	10.8	8.2	6.3
140°	16.5	15.8	15.8	15.2	13.9	13.3	12.0	10.1	8.9	7.0	5.1
142.5°	13.9	13.9	13.3	12.7	12.0	11.4	10.1	8.9	7.0	5.7	3.8
145°	12.0	11.4	11.4	10.8	10.1	8.9	8.2	7.0	5.7	4.4	3.2
147.5°	9.5	9.5	9.5	8.9	8.2	7.6	7.0	5.7	4.4	3.2	1.9
150°	7.6	7.6	7.6	7.0	6.3	5.7	5.1	4.4	3.2	1.9	1.3
152.5°	6.3	6.3	5.7	5.7	5.1	4.4	3.8	3.2	1.9	1.3	1.3
155°	4.4	4.4	4.4	3.8	3.8	3.2	2.5	1.9	1.3	1.3	1.3
157.5°	3.2	3.2	3.2	2.5	2.5	1.9	1.9	1.3	1.3	1.3	1.3
160°	1.9	1.9	1.9	1.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213695

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3	1150.3
2.5°	1142.7	1142.0	1147.1	1147.1	1141.4	1150.3	1159.7
5°	1138.9	1138.2	1143.3	1143.3	1138.2	1147.1	1157.2
7.5°	1131.3	1131.9	1137.0	1138.2	1131.9	1140.1	1150.9
10°	1123.1	1122.4	1128.1	1129.4	1124.3	1131.9	1142.0
12.5°	1109.8	1109.8	1115.5	1117.4	1112.3	1121.2	1130.6
15°	1095.8	1095.8	1099.6	1102.8	1098.4	1106.6	1116.1
17.5°	1078.1	1077.5	1081.3	1085.1	1080.7	1089.5	1099.6
20°	1055.4	1055.4	1059.8	1064.2	1061.0	1069.3	1080.7
22.5°	1031.3	1028.8	1036.4	1039.5	1037.6	1045.9	1057.3
25°	1000.9	1000.3	1007.9	1012.3	1009.8	1018.7	1028.8
27.5°	968.0	967.4	975.0	980.7	979.4	987.7	999.0
30°	928.2	931.3	938.3	947.8	944.6	953.5	965.5
32.5°	886.4	889.6	897.8	907.9	908.6	915.5	927.5
35°	836.4	844.7	850.4	863.6	866.2	873.1	885.8
37.5°	783.9	793.4	805.4	815.6	820.6	826.3	840.9
40°	725.1	739.0	752.3	764.3	770.6	776.3	790.2
42.5°	671.9	682.7	695.3	707.4	718.8	723.8	738.4
45°	611.8	624.5	635.9	650.4	661.8	667.5	682.1
47.5°	553.0	565.6	580.8	590.9	603.0	608.7	622.6
50°	496.7	508.1	520.7	532.7	542.9	547.9	559.9
52.5°	441.0	453.0	465.0	472.6	483.4	487.2	497.3
55°	391.6	399.9	410.6	415.1	425.8	428.3	435.3
57.5°	344.2	349.9	353.7	361.3	368.9	374.6	382.8
60°	301.2	303.7	306.2	310.7	317.0	318.9	322.0
62.5°	262.6	261.9	267.0	268.3	268.9	275.2	272.1
65°	228.4	229.0	224.6	222.7	225.2	227.1	225.9
67.5°	199.9	196.1	192.3	187.9	184.1	186.0	184.1
70°	172.1	168.9	162.6	156.3	153.7	150.0	148.1
72.5°	150.0	142.4	136.0	127.8	123.4	118.9	115.8
75°	132.9	122.1	113.3	104.4	98.1	91.7	90.5
77.5°	115.2	105.0	94.9	85.4	75.9	69.0	66.4
80°	101.2	91.7	79.7	68.3	58.2	49.4	46.2
82.5°	88.6	78.5	66.4	54.4	43.0	33.5	29.7
85°	77.8	67.1	55.0	43.0	31.6	21.5	16.5
87.5°	69.6	57.6	45.6	34.2	22.1	12.0	6.3
90°	62.0	50.6	39.2	27.2	15.8	6.3	0.0
92.5°	55.0	44.3	32.9	22.1	12.0	3.8	0.6
95°	48.7	39.2	27.8	17.7	8.9	2.5	0.6
97.5°	43.7	34.2	24.0	14.6	7.0	1.9	0.6
100°	39.2	29.7	20.9	12.0	5.7	1.3	0.6
102.5°	34.8	26.6	17.7	10.1	4.4	0.6	0.6
105°	31.0	23.4	15.2	8.9	3.8	0.6	0.6
107.5°	27.8	20.9	13.3	7.6	2.5	0.6	0.6
110°	24.7	17.7	11.4	6.3	1.9	0.6	0.6

TEST NUMBER: P1213695

CATALOG NUMBER: 2SNLED-LD5-32HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	22.1	15.8	10.1	5.1	1.3	0.6	0.6
115°	19.6	13.9	8.9	4.4	1.3	0.6	0.6
117.5°	17.1	12.0	7.6	3.2	0.6	0.6	0.6
120°	15.2	10.8	6.3	2.5	0.6	0.6	0.6
122.5°	13.3	8.9	5.1	1.9	0.6	0.6	0.6
125°	11.4	7.6	4.4	1.3	0.6	0.6	0.6
127.5°	9.5	6.3	3.2	1.3	0.6	0.6	0.6
130°	8.2	5.1	2.5	0.6	0.6	0.6	0.6
132.5°	7.0	3.8	1.9	0.6	0.6	0.6	0.6
135°	5.7	3.2	1.3	0.6	0.6	0.6	0.6
137.5°	4.4	2.5	1.3	0.6	0.6	0.6	0.6
140°	3.2	1.9	0.6	0.6	0.6	0.6	0.6
142.5°	2.5	1.3	0.6	0.6	0.6	0.6	0.6
145°	1.9	1.3	0.6	0.6	0.6	0.6	0.6
147.5°	1.3	1.3	1.3	1.3	0.6	0.6	0.6
150°	1.3	1.3	0.6	0.6	1.3	0.6	0.6
152.5°	1.3	0.6	0.6	0.6	1.3	0.6	0.6
155°	1.3	1.3	1.3	1.3	1.3	1.3	0.6
157.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3
160°	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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)