

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: P1213742

Luminaire Tested: 4SNLED-LD5-30SL-LN-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213742
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: 4SNLED-LD5-30SL-LN-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

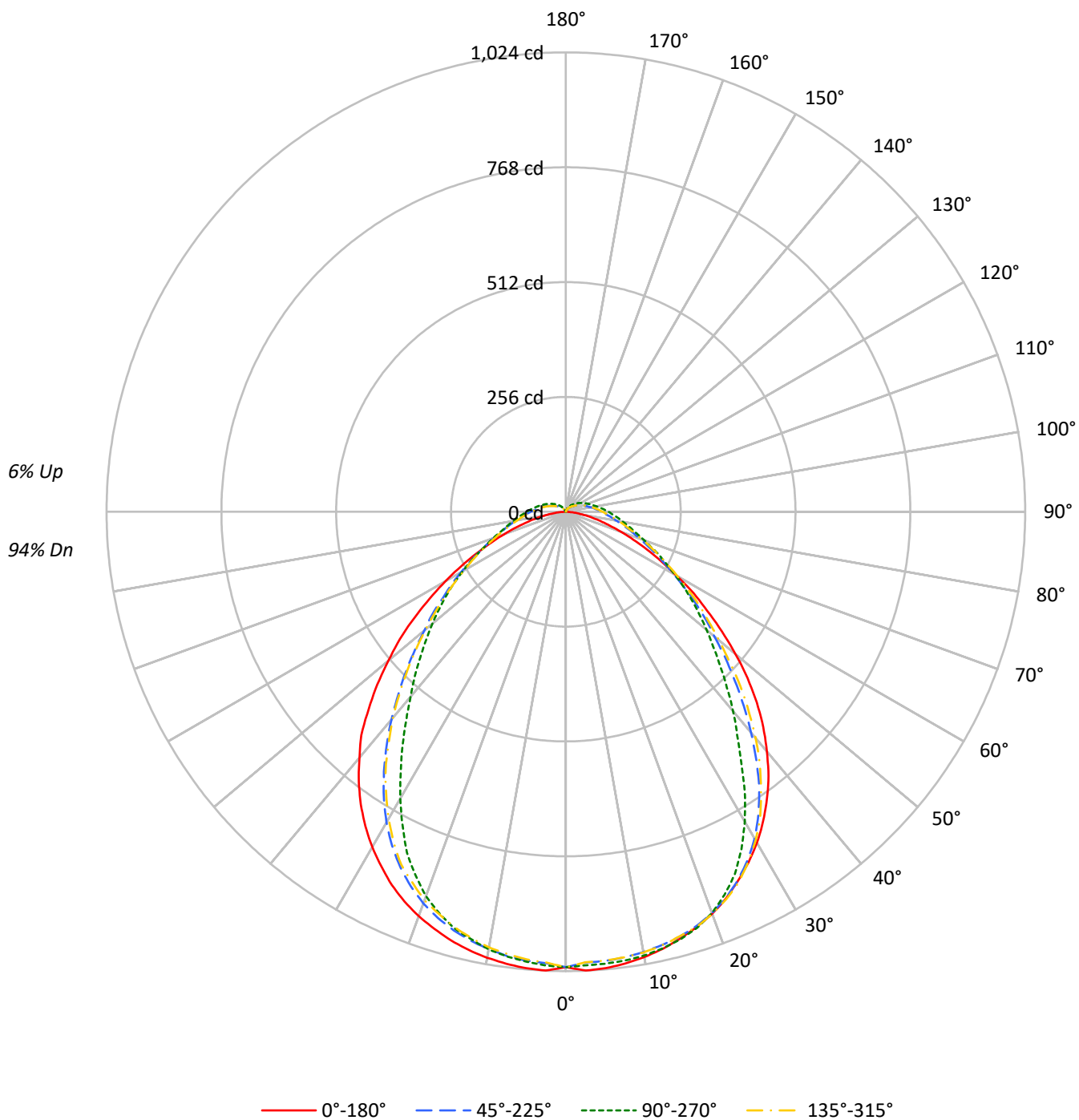
Lumens per Lamp: N/A
Luminaire Lumens: 2569.0 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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: 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			0
RW	70	50	30	10	70	50	30	10	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	94		
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81	79		
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69	67		
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60	57		
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52	50		
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46	44		
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41	39		
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35		
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33	31		
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30	28		
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8203	8203	8203	8203
5°	8262	7942	8262	7907
10°	8225	7731	8238	7624
15°	8172	7500	8209	7305
20°	8109	7203	8157	6899
25°	7979	6763	8068	6364
30°	7810	6115	7912	5661
35°	7546	5321	7692	4955
40°	7169	4654	7358	4318
45°	6670	4046	6887	3814
50°	5990	3555	6253	3375
55°	5182	3140	5558	2981
60°	4357	2756	4751	2597
65°	3572	2437	3932	2260
70°	2844	2162	3183	2001
75°	2231	1997	2514	1838
80°	1613	1926	1897	1761
85°	991	1938	1332	1781

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 6887 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	3.7
10°-20°	276.0	10.7
20°-30°	409.0	15.9
30°-40°	454.4	17.7
40°-50°	411.9	16.0
50°-60°	319.2	12.4
60°-70°	216.7	8.4
70°-80°	137.9	5.4
80°-90°	88.2	3.4
90°-100°	59.4	2.3
100°-110°	40.7	1.6
110°-120°	27.2	1.1
120°-130°	16.9	0.7
130°-140°	9.3	0.4
140°-150°	4.4	0.2
150°-160°	1.6	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	781.2	30.4
0°-40°	1235.6	48.1
0°-60°	1966.6	76.6
0°-90°	2409.4	93.8
90°-120°	127.3	5.0
90°-150°	157.9	6.1
90°-180°	160.0	6.2
0°-180°	2569.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1015	1015	1015	1015	1015	
5°	1021	1011	1021	1007	1021	97
15°	985	987	989	961	985	278
25°	908	891	918	839	908	418
35°	782	681	797	634	782	488
45°	602	487	622	459	602	462
55°	384	342	412	325	384	346
65°	199	230	219	213	199	200
75°	80	154	90	141	80	86
85°	14	111	20	102	14	17
90°	0	96	1	87	0	1
95°	1	82	0	76	1	0
105°	1	60	0	56	1	1
115°	1	45	0	42	1	1
125°	1	34	1	30	1	1
135°	1	24	1	19	1	0
145°	1	15	1	11	1	0
155°	1	8	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°	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1
2.5°	1023.5	1022.4	1021.3	1019.6	1021.3	1025.7	1022.9	1016.8	1015.7	1005.6	1010.1
5°	1021.3	1019.6	1018.5	1016.8	1019.0	1024.6	1021.8	1016.2	1014.6	1005.1	1010.1
7.5°	1015.7	1014.6	1012.9	1012.9	1015.1	1020.7	1018.5	1012.3	1011.2	1001.7	1007.3
10°	1007.9	1007.3	1006.2	1006.2	1008.4	1015.1	1012.3	1006.7	1005.6	996.7	1002.8
12.5°	997.8	998.4	996.7	996.7	1000.0	1006.7	1004.5	998.4	997.3	989.4	995.6
15°	985.0	985.5	984.4	985.0	988.3	996.1	993.3	987.8	986.6	980.5	985.5
17.5°	970.4	971.0	971.0	970.4	974.4	982.2	979.9	974.9	973.2	968.2	974.4
20°	953.7	953.7	953.7	953.7	958.2	966.0	963.2	959.3	955.9	952.0	957.0
22.5°	933.0	932.5	933.0	934.7	939.2	945.3	943.6	939.2	934.2	931.9	935.8
25°	907.9	909.6	910.1	911.8	917.4	922.4	920.8	916.3	908.5	906.8	907.9
27.5°	881.7	882.8	884.5	883.9	891.7	896.7	893.4	889.5	878.3	876.6	875.5
30°	852.1	853.7	854.9	854.3	860.5	866.0	862.7	857.7	842.6	841.5	832.5
32.5°	818.6	820.2	821.4	821.4	830.3	832.5	826.4	819.1	802.9	799.0	791.2
35°	781.7	783.4	784.0	784.0	792.9	792.3	784.5	774.5	756.6	751.6	738.2
37.5°	742.1	743.2	743.8	747.1	751.0	747.7	737.6	724.8	711.4	697.4	682.9
40°	697.4	699.1	700.2	702.4	706.3	702.4	687.9	672.3	657.8	642.1	627.6
42.5°	651.6	656.6	655.5	655.0	657.2	646.6	635.4	617.6	603.0	586.8	572.3
45°	601.9	601.4	604.2	605.3	604.7	595.8	580.1	564.0	549.4	532.7	520.4
47.5°	549.4	548.9	551.1	552.2	548.9	539.4	527.1	508.7	496.4	481.9	472.4
50°	494.2	494.2	497.5	494.2	492.5	483.0	472.9	454.5	445.0	432.2	426.6
52.5°	438.9	443.9	440.6	439.4	437.8	428.3	420.5	405.4	397.6	392.0	385.3
55°	384.2	389.7	387.5	385.8	385.3	377.5	370.2	359.0	354.0	350.1	346.2
57.5°	337.8	337.3	336.1	334.5	335.0	328.9	321.6	315.5	313.2	311.6	312.7
60°	284.2	288.7	287.0	287.6	288.1	287.0	280.9	277.0	277.5	278.1	279.7
62.5°	240.1	244.0	246.8	244.6	245.7	247.4	244.0	242.9	245.1	247.4	249.6
65°	199.3	203.2	206.0	205.5	208.8	212.2	211.6	212.7	217.8	220.6	223.3
67.5°	162.5	166.4	170.3	170.9	175.9	180.9	183.1	187.1	192.6	196.5	199.9
70°	130.7	134.0	138.5	141.3	148.0	154.7	158.6	166.4	169.7	175.3	177.6
72.5°	102.2	105.0	111.1	117.8	123.4	131.8	139.6	146.3	151.3	157.5	160.3
75°	79.8	81.0	87.7	95.5	103.3	112.8	121.2	128.4	135.1	141.3	145.7
77.5°	58.6	60.3	66.4	77.1	86.0	96.0	105.5	113.3	120.6	126.8	132.9
80°	40.8	44.1	50.8	61.4	71.5	82.6	91.6	100.5	108.3	114.5	120.6
82.5°	26.2	29.0	38.5	49.1	59.7	70.9	80.4	89.3	97.7	104.4	110.0
85°	14.5	18.4	27.9	39.1	49.7	60.9	70.9	79.8	88.2	94.4	99.9
87.5°	5.6	11.2	20.1	30.7	41.3	51.9	62.5	70.9	79.3	86.0	91.0
90°	0.0	6.7	15.1	25.7	36.3	46.9	57.0	65.9	73.7	79.8	85.4
92.5°	0.6	4.5	11.7	20.7	30.7	40.8	50.3	59.2	67.0	73.1	78.2
95°	0.6	3.4	9.5	17.9	26.8	36.3	45.2	53.6	60.9	67.0	72.0
97.5°	0.6	2.2	7.8	15.6	23.5	32.9	41.3	49.1	55.8	62.0	65.9
100°	0.6	2.2	6.7	13.4	21.2	29.6	37.4	45.2	51.4	56.4	60.9
102.5°	0.6	1.7	5.6	11.7	19.0	26.2	34.1	41.3	46.9	51.9	56.4
105°	0.6	1.7	5.0	10.1	16.8	24.0	30.7	37.4	43.6	48.0	51.9
107.5°	0.6	1.1	4.5	8.4	14.5	21.8	28.5	34.1	39.6	44.1	48.0
110°	0.6	1.1	3.9	7.8	12.8	19.5	25.7	31.3	36.3	40.8	44.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.6	1.1	3.4	7.3	11.7	17.3	23.5	28.5	33.5	37.4	40.8
115°	0.6	1.1	3.4	6.7	10.6	15.1	20.7	26.2	30.2	34.6	37.4
117.5°	0.6	1.1	2.8	5.6	10.1	14.0	19.0	23.5	27.9	31.8	34.6
120°	0.6	1.1	2.8	5.0	8.9	12.8	16.8	21.2	25.7	28.5	31.3
122.5°	0.6	1.1	2.2	5.0	7.8	11.7	15.1	19.0	22.9	26.2	29.0
125°	0.6	1.1	2.2	4.5	7.3	10.6	14.0	16.8	20.7	23.5	26.2
127.5°	0.6	1.1	2.2	3.9	6.7	9.5	12.8	15.6	18.4	21.2	23.5
130°	0.6	1.1	1.7	3.4	6.1	8.4	11.2	14.5	16.8	19.0	21.2
132.5°	0.6	1.1	1.7	3.4	5.0	7.3	10.1	12.8	15.1	17.3	19.0
135°	0.6	1.1	1.7	2.8	4.5	6.7	8.4	11.2	13.4	15.6	17.3
137.5°	0.6	1.1	1.7	2.8	3.9	5.6	7.3	9.5	11.7	13.4	15.6
140°	0.6	1.1	1.7	2.2	3.4	5.0	6.7	7.8	10.1	11.7	13.4
142.5°	0.6	1.1	1.7	2.2	3.4	4.5	5.6	6.7	8.4	10.1	11.7
145°	0.6	1.1	1.7	2.2	2.8	3.9	5.0	6.1	6.7	8.4	9.5
147.5°	0.6	1.1	1.7	2.2	2.2	3.4	4.5	5.0	6.1	6.7	7.8
150°	0.6	1.1	1.7	1.7	2.2	2.8	3.9	4.5	5.0	6.1	6.7
152.5°	0.6	1.1	1.7	1.7	2.2	2.8	3.4	3.9	4.5	5.0	5.6
155°	0.6	1.1	1.7	1.7	1.7	2.2	2.8	3.4	3.9	4.5	5.0
157.5°	1.1	1.1	1.1	1.7	1.7	2.2	2.2	2.8	3.4	3.4	3.9
160°	1.1	1.1	1.1	1.7	1.7	1.7	2.2	2.2	2.8	2.8	3.4
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°	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1
2.5°	1009.0	1010.7	1015.7	1015.7	1014.6	1013.4	1013.4	1011.8	1012.9	1015.1	1014.0
5°	1009.0	1010.7	1015.7	1015.7	1014.6	1013.4	1012.9	1011.2	1012.9	1015.1	1014.0
7.5°	1005.6	1007.9	1012.9	1012.9	1011.8	1011.2	1010.1	1009.0	1010.7	1012.9	1011.8
10°	1001.2	1003.4	1008.4	1008.4	1007.3	1007.3	1005.6	1004.5	1006.7	1008.4	1007.9
12.5°	994.5	997.3	1001.7	1001.2	1000.0	1000.6	998.9	996.7	998.9	1000.6	1001.2
15°	985.0	988.3	992.8	991.7	990.0	991.1	988.3	986.6	988.3	991.7	991.1
17.5°	972.7	974.9	978.3	978.3	976.6	975.5	974.4	972.7	973.8	976.0	976.6
20°	955.4	958.2	959.8	958.2	957.6	955.9	953.7	952.0	954.3	957.6	958.2
22.5°	932.5	933.0	936.9	933.0	930.2	929.7	927.5	924.1	927.5	930.2	930.8
25°	904.0	906.8	905.1	898.4	898.4	894.0	892.8	891.2	891.7	896.7	899.0
27.5°	867.7	868.8	864.4	858.8	853.7	851.0	847.0	847.6	847.6	854.3	856.5
30°	828.1	821.9	818.0	809.1	805.2	798.5	797.4	797.4	796.2	799.6	809.6
32.5°	780.6	772.2	766.1	757.7	751.0	744.3	741.0	742.6	742.1	750.5	753.8
35°	728.7	723.6	710.8	700.2	696.3	686.2	686.2	681.2	684.6	694.1	698.0
37.5°	674.0	666.1	655.5	643.8	641.0	633.2	630.4	627.6	634.9	636.5	640.5
40°	618.1	610.9	600.8	589.6	589.6	580.1	580.1	580.1	580.7	584.1	591.3
42.5°	565.1	557.3	548.3	540.5	539.4	532.1	532.1	531.6	532.7	535.5	542.2
45°	513.7	507.6	498.1	494.2	494.7	486.9	488.6	486.9	489.1	491.9	494.2
47.5°	466.2	462.3	458.4	452.8	451.2	450.6	447.8	445.6	449.5	449.5	452.8
50°	422.1	419.9	417.7	414.3	414.9	412.6	409.3	409.3	412.1	412.6	414.9
52.5°	383.6	380.8	378.0	378.6	379.1	378.0	376.3	374.7	376.3	377.5	380.3
55°	345.1	342.8	345.6	344.5	345.6	344.5	343.4	342.3	345.1	343.4	346.2
57.5°	310.5	312.7	313.8	311.6	313.2	312.1	312.7	311.0	313.2	314.4	313.8
60°	278.6	282.0	280.3	280.9	283.1	282.0	279.7	281.4	283.7	284.2	283.7
62.5°	249.6	253.5	255.2	254.1	254.6	253.5	255.2	252.9	255.7	256.9	255.2
65°	223.3	227.8	228.9	228.9	228.9	227.8	229.5	230.0	231.2	231.2	230.0
67.5°	201.0	204.9	206.0	207.2	206.0	204.9	204.9	205.5	207.7	208.8	207.7
70°	180.9	184.8	185.4	185.4	185.9	187.1	184.8	185.9	187.6	188.2	187.6
72.5°	163.6	167.5	168.6	168.1	168.6	169.2	169.2	168.1	169.7	170.9	170.9
75°	149.6	151.9	153.0	153.0	153.6	154.1	154.1	153.6	154.7	155.2	155.8
77.5°	136.8	138.5	140.2	140.2	140.7	140.2	141.3	141.3	141.8	142.4	142.9
80°	124.0	126.2	127.3	127.9	129.0	129.5	129.5	129.5	130.1	130.7	130.7
82.5°	113.9	115.6	117.3	118.9	118.9	119.5	119.5	119.5	120.0	120.0	120.6
85°	103.9	106.1	107.8	108.9	109.4	110.0	110.0	110.6	110.6	110.6	111.1
87.5°	94.9	97.7	98.8	99.9	100.5	101.6	101.6	101.6	102.2	102.2	102.2
90°	88.8	91.6	92.7	93.8	94.4	94.9	94.9	95.5	95.5	96.0	96.0
92.5°	81.5	84.3	86.5	86.5	87.1	88.2	87.7	87.7	88.2	88.8	88.8
95°	75.9	78.2	79.8	80.4	81.0	81.0	81.0	81.5	81.0	81.5	81.5
97.5°	69.2	71.5	73.1	74.3	74.8	74.8	74.8	75.4	74.8	75.4	75.4
100°	63.7	65.9	67.6	68.1	69.2	69.2	69.2	69.2	69.2	69.2	69.8
102.5°	59.2	61.4	62.5	63.1	63.7	64.2	64.2	64.2	64.2	64.8	64.8
105°	54.7	57.0	58.1	58.6	59.2	59.7	59.7	59.7	60.3	60.3	59.7
107.5°	50.8	52.5	53.6	54.7	55.3	55.3	55.8	55.8	55.8	55.8	55.8
110°	46.9	48.6	50.3	51.4	51.4	51.9	51.9	52.5	52.5	51.9	52.5



TEST NUMBER: P1213742

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	43.0	45.2	46.3	47.5	48.0	48.6	48.6	48.6	48.6	48.6	48.6
115°	39.6	41.9	43.0	44.1	44.7	45.2	45.2	45.2	45.2	45.2	45.2
117.5°	36.9	39.1	40.2	40.8	41.3	41.9	42.4	42.4	42.4	42.4	41.9
120°	34.1	35.7	36.9	38.0	38.5	39.1	39.1	39.1	39.1	39.1	39.1
122.5°	31.3	32.9	34.1	35.2	35.7	36.3	36.3	36.3	36.3	36.3	36.3
125°	28.5	30.2	31.3	32.4	32.9	33.5	33.5	33.5	33.5	33.5	33.5
127.5°	25.7	27.4	29.0	29.6	30.2	30.7	30.7	30.7	31.3	30.7	30.7
130°	22.9	24.6	26.2	26.8	27.4	27.9	28.5	28.5	28.5	28.5	27.9
132.5°	20.7	22.3	23.5	24.0	25.1	25.1	25.7	25.7	25.7	25.7	25.1
135°	19.0	20.1	21.2	21.8	22.9	22.9	22.9	23.5	23.5	22.9	22.3
137.5°	16.8	17.9	19.0	19.5	20.1	20.7	20.7	21.2	20.7	20.7	20.7
140°	15.6	16.2	17.3	17.9	18.4	18.4	18.4	19.0	19.0	18.4	18.4
142.5°	13.4	14.5	15.6	16.2	16.8	16.8	16.8	16.8	16.8	16.8	16.8
145°	11.2	12.8	13.4	14.5	14.5	15.1	15.1	15.1	15.1	15.1	14.5
147.5°	9.5	10.6	12.3	12.8	12.8	13.4	13.4	13.4	13.4	13.4	12.8
150°	7.3	8.4	10.1	11.2	11.2	11.7	11.7	11.7	11.7	11.2	11.2
152.5°	6.1	7.3	7.8	8.9	9.5	9.5	9.5	10.1	9.5	9.5	9.5
155°	5.6	6.1	6.7	7.3	7.8	8.4	8.4	8.4	8.4	7.8	7.8
157.5°	4.5	5.0	5.6	6.1	6.7	7.3	7.3	7.3	7.3	7.3	6.7
160°	3.4	3.9	4.5	4.5	5.0	5.6	6.1	5.6	5.6	5.6	5.6
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: P1213742

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1
2.5°	1012.9	1012.3	1014.0	1011.2	1002.8	1005.1	1004.0	1009.0	1010.1	1011.2	1016.2
5°	1012.9	1012.3	1013.4	1011.2	1002.3	1004.0	1002.8	1007.9	1009.0	1009.5	1014.6
7.5°	1010.7	1010.1	1011.8	1009.0	999.5	1001.7	1000.0	1005.1	1005.6	1006.2	1010.7
10°	1006.2	1005.6	1006.7	1004.5	995.0	997.3	995.0	1000.0	1000.0	1001.2	1004.5
12.5°	999.5	998.4	1000.6	997.8	987.2	990.0	988.9	992.2	992.8	993.3	996.7
15°	990.0	988.9	990.6	988.9	979.4	979.9	978.3	983.3	983.9	982.7	986.1
17.5°	976.0	974.9	978.3	977.2	967.7	969.9	969.3	970.4	972.1	969.3	973.8
20°	958.7	959.8	961.0	961.5	954.3	954.3	953.7	955.9	957.6	955.4	958.7
22.5°	933.0	935.8	939.2	940.3	935.3	934.7	938.1	936.9	938.6	937.5	939.7
25°	900.7	906.2	909.6	912.9	910.1	911.3	916.3	917.4	917.4	916.8	919.1
27.5°	860.5	867.7	873.9	881.1	878.3	880.6	888.9	890.0	892.3	890.0	894.5
30°	812.4	819.1	830.9	841.5	842.6	845.9	857.7	858.8	864.9	862.7	864.4
32.5°	764.4	767.8	781.2	791.8	798.5	806.8	819.7	821.9	830.3	832.0	832.0
35°	704.1	713.6	725.9	741.0	749.3	758.3	775.6	778.9	791.2	795.1	799.6
37.5°	653.3	662.2	670.0	685.7	700.8	710.8	724.8	733.1	746.0	753.2	758.8
40°	599.1	606.4	614.8	630.4	643.2	658.3	672.3	682.3	698.5	706.9	714.2
42.5°	547.8	553.3	562.3	573.4	586.8	603.6	617.0	628.7	646.0	657.8	666.1
45°	502.0	505.3	513.1	521.5	533.2	550.6	563.4	578.5	592.4	604.7	614.8
47.5°	459.0	463.4	467.4	472.9	483.5	494.2	509.2	523.8	537.7	551.1	561.2
50°	419.3	419.3	425.5	429.4	436.6	446.1	457.9	467.9	485.2	494.7	507.6
52.5°	380.8	383.0	386.4	388.6	394.2	400.4	409.8	418.2	432.7	441.7	454.0
55°	346.7	349.0	350.7	351.8	355.1	362.4	365.7	372.4	382.5	389.7	400.4
57.5°	314.4	315.5	317.2	317.7	318.3	322.7	325.5	327.2	337.3	344.5	353.4
60°	284.8	284.8	286.4	285.9	285.3	287.6	287.0	288.7	294.8	299.3	303.2
62.5°	256.9	256.9	257.4	256.3	255.7	255.7	253.5	255.2	256.9	257.4	260.2
65°	231.2	234.0	231.7	232.3	228.9	227.8	226.7	223.3	222.8	220.6	221.7
67.5°	208.3	210.5	208.3	208.3	205.5	203.2	200.5	194.9	193.2	188.7	187.6
70°	189.8	188.2	189.3	187.6	184.3	181.5	177.6	173.1	167.5	161.9	158.0
72.5°	172.0	172.0	170.9	169.2	167.5	161.9	157.5	152.4	145.7	138.5	132.9
75°	154.7	155.2	155.2	153.6	150.8	145.7	140.7	133.5	126.2	117.8	110.6
77.5°	142.4	142.4	142.4	139.6	136.8	132.3	126.2	118.4	110.6	100.5	92.1
80°	130.7	130.1	130.1	126.8	124.0	118.9	112.8	105.0	96.6	86.0	76.5
82.5°	121.2	120.6	119.5	116.7	112.8	107.8	101.6	93.2	84.3	74.8	63.1
85°	111.1	110.6	109.4	106.6	102.7	98.3	91.6	83.2	74.3	63.7	52.5
87.5°	102.2	101.6	99.9	98.3	93.8	88.8	82.1	74.3	64.8	54.7	43.6
90°	96.0	94.9	93.8	91.6	87.7	82.1	75.4	67.0	57.5	47.5	36.3
92.5°	88.8	88.2	86.5	84.3	81.0	75.4	68.7	60.9	51.4	41.9	31.3
95°	81.5	81.0	79.8	77.6	74.3	69.2	63.1	55.3	46.3	36.9	27.4
97.5°	74.8	74.8	73.1	71.5	67.6	63.7	57.5	50.3	41.9	33.5	24.6
100°	69.2	69.2	67.6	65.3	62.5	58.6	52.5	45.8	38.0	30.2	21.2
102.5°	64.2	63.7	62.5	60.3	57.5	53.6	48.0	41.9	34.6	26.8	19.0
105°	59.7	59.2	58.1	55.8	53.6	49.1	44.7	38.5	31.3	24.0	16.8
107.5°	55.3	54.7	54.2	51.9	49.1	45.2	40.8	34.6	28.5	21.8	15.1
110°	51.4	50.8	49.7	47.5	44.7	41.3	36.9	31.8	25.7	19.5	13.4

TEST NUMBER: P1213742

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	48.0	47.5	46.3	44.1	41.9	38.0	34.1	28.5	23.5	17.9	11.7
115°	44.7	44.1	43.0	40.8	38.0	34.6	30.7	26.2	20.7	15.6	10.6
117.5°	41.3	40.8	39.6	38.0	35.2	31.8	27.9	23.5	18.4	14.5	9.5
120°	38.5	37.4	36.3	34.6	31.8	29.0	25.1	21.2	16.8	12.8	8.4
122.5°	35.7	34.6	33.5	31.8	29.0	26.2	22.3	19.0	15.6	11.7	7.8
125°	32.4	31.8	30.7	29.0	26.2	23.5	20.7	17.3	14.0	10.6	6.7
127.5°	29.6	29.0	27.9	25.7	23.5	21.2	18.4	15.6	12.3	8.9	6.1
130°	27.4	26.2	25.1	23.5	21.8	19.5	16.8	14.0	11.2	7.8	5.6
132.5°	24.6	23.5	22.3	21.2	19.5	17.3	15.1	12.3	10.1	7.3	5.0
135°	22.3	21.2	20.1	19.0	17.3	15.6	13.4	11.2	8.9	6.7	4.5
137.5°	19.5	19.0	18.4	17.3	15.6	14.0	12.3	9.5	7.8	6.1	3.9
140°	17.9	17.3	16.8	15.1	14.0	12.3	10.6	8.4	6.7	5.0	3.4
142.5°	16.2	15.6	14.5	13.4	12.3	11.2	8.9	7.8	6.1	4.5	3.4
145°	14.0	13.4	12.8	11.7	10.6	8.9	7.8	6.7	5.6	3.9	2.8
147.5°	12.8	12.3	11.2	10.1	8.9	7.8	7.3	6.1	4.5	3.4	2.2
150°	10.6	10.1	9.5	8.4	7.8	7.3	6.1	5.0	3.9	2.8	2.2
152.5°	8.9	8.4	7.8	7.8	6.7	6.1	5.0	4.5	3.4	2.8	1.7
155°	7.8	7.8	7.3	6.7	5.6	5.0	4.5	3.4	2.8	2.2	1.7
157.5°	6.7	6.1	5.6	5.6	5.0	4.5	3.4	2.8	2.2	2.2	1.7
160°	5.6	5.0	5.0	4.5	3.9	3.4	2.8	2.8	2.2	1.7	1.7
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: P1213742

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1
2.5°	1016.8	1010.7	1016.2	1023.5	1023.5	1022.4	1021.3	1023.5	1029.1	1026.8	1020.1
5°	1015.1	1009.0	1014.0	1021.3	1021.3	1019.6	1018.5	1020.1	1026.3	1023.5	1017.4
7.5°	1011.8	1006.2	1009.5	1016.2	1016.2	1014.6	1013.4	1015.7	1020.7	1017.9	1011.2
10°	1005.6	999.5	1003.4	1009.5	1009.0	1007.9	1006.2	1009.0	1013.4	1009.5	1001.7
12.5°	997.8	991.7	995.0	1000.6	1000.0	997.8	996.7	998.4	1002.3	1000.0	991.7
15°	987.2	981.1	983.9	989.4	987.8	986.1	983.9	984.4	989.4	985.5	976.6
17.5°	974.4	967.7	969.9	974.9	973.2	971.6	968.8	969.3	974.9	969.3	959.8
20°	958.7	951.5	953.1	959.3	956.5	953.7	950.9	950.9	956.5	950.3	939.7
22.5°	942.0	934.7	935.8	940.3	938.1	933.0	930.2	931.9	934.7	926.9	915.7
25°	921.3	911.8	913.5	918.0	916.3	909.6	906.8	907.9	906.8	900.7	888.9
27.5°	897.3	887.3	888.4	891.2	888.9	882.8	879.4	880.0	877.8	869.9	856.5
30°	867.2	862.1	861.6	863.2	859.9	853.7	849.8	848.7	848.2	837.0	820.8
32.5°	836.4	832.0	829.2	831.4	827.5	821.4	814.7	814.7	809.1	798.5	784.5
35°	805.2	797.9	795.1	796.8	792.3	784.5	778.9	776.1	767.8	754.4	739.3
37.5°	765.0	759.9	756.6	758.3	753.2	747.7	737.1	734.3	725.3	706.9	687.9
40°	721.4	717.5	714.2	715.8	710.2	701.9	692.4	687.9	677.9	657.2	642.1
42.5°	674.5	672.8	668.9	675.1	663.9	655.5	646.0	638.8	628.7	606.4	589.1
45°	624.8	628.7	619.8	621.5	614.2	606.9	596.9	586.3	576.2	555.0	535.5
47.5°	572.3	575.1	569.0	570.1	562.3	555.6	546.6	533.2	522.1	503.7	486.3
50°	518.2	517.1	517.1	515.9	509.8	501.4	492.5	480.2	469.0	452.3	437.8
52.5°	460.7	462.9	464.0	466.8	459.0	454.0	440.0	429.4	421.0	403.7	391.4
55°	405.4	413.2	411.0	412.1	403.1	399.2	388.1	379.7	367.4	357.4	349.5
57.5°	355.1	356.8	357.9	359.6	355.7	347.9	338.9	332.2	322.7	314.4	308.8
60°	306.5	306.5	307.1	309.9	306.0	299.3	292.6	287.6	280.9	275.8	272.5
62.5°	260.8	264.7	265.2	263.0	258.0	254.6	250.2	247.4	242.9	241.2	240.1
65°	218.3	218.3	218.3	219.4	216.6	214.4	211.6	211.1	212.7	210.5	211.6
67.5°	182.6	180.9	179.8	180.4	179.2	178.1	177.6	179.2	182.6	182.6	185.4
70°	151.9	148.5	146.3	146.3	146.3	146.9	148.5	151.9	157.5	159.7	163.6
72.5°	126.8	119.5	116.1	116.1	116.7	118.9	124.0	130.1	135.1	139.6	144.6
75°	102.7	95.5	90.5	89.9	91.0	94.4	101.6	107.2	115.6	121.7	127.9
77.5°	83.2	74.3	68.1	67.6	69.2	74.3	83.2	90.5	99.9	106.6	113.3
80°	66.4	56.4	51.4	48.0	50.8	57.0	67.0	75.9	84.9	93.8	102.2
82.5°	53.0	43.6	35.7	32.4	35.7	44.1	53.6	64.2	73.1	82.6	91.0
85°	41.9	31.8	22.9	19.5	23.5	32.4	43.0	53.6	63.7	73.1	81.5
87.5°	32.9	22.9	14.0	9.5	14.5	24.0	34.1	44.7	55.3	64.8	73.1
90°	25.7	16.2	7.8	1.1	8.4	17.3	27.4	37.4	48.0	57.5	65.9
92.5°	21.8	12.3	4.5	0.0	5.0	12.8	22.3	32.4	41.9	51.4	59.7
95°	18.4	10.1	3.4	0.0	3.4	10.1	18.4	27.4	36.9	46.3	54.7
97.5°	15.6	7.8	2.2	0.0	2.2	7.8	15.1	24.0	32.4	41.3	49.1
100°	13.4	6.7	1.7	0.0	1.7	6.1	12.8	20.7	29.0	37.4	44.7
102.5°	11.7	5.6	1.1	0.0	1.1	5.0	10.6	17.9	25.1	32.9	40.2
105°	10.1	4.5	1.1	0.0	0.6	3.9	8.9	15.6	22.3	29.6	36.3
107.5°	8.9	3.9	1.1	0.0	0.6	3.4	7.8	13.4	20.1	26.2	32.4
110°	7.8	3.4	1.1	0.0	0.6	2.2	6.7	11.7	17.3	23.5	29.6

TEST NUMBER: P1213742

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	6.7	2.8	0.6	0.0	0.0	1.7	5.6	10.1	15.1	21.2	26.2
115°	6.1	2.8	0.6	0.0	0.0	1.1	4.5	8.9	13.4	19.0	23.5
117.5°	5.6	2.2	0.6	0.0	0.6	1.1	3.9	7.8	11.7	16.2	21.2
120°	5.0	2.2	0.6	0.0	0.6	0.6	2.8	6.7	10.1	14.5	18.4
122.5°	4.5	2.2	0.6	0.0	0.6	0.6	2.2	5.6	8.9	12.8	16.2
125°	3.9	1.7	1.1	0.6	0.6	0.6	1.7	4.5	7.8	10.6	14.5
127.5°	3.9	1.7	1.1	0.6	0.6	0.6	1.1	3.9	6.1	9.5	12.8
130°	3.4	1.7	1.1	0.6	0.6	0.6	0.6	2.8	5.6	7.8	10.6
132.5°	2.8	1.7	1.1	0.6	0.6	0.6	0.6	1.7	3.9	6.7	8.9
135°	2.8	1.7	1.1	0.6	0.6	0.6	0.6	1.1	2.8	5.0	7.3
137.5°	2.2	1.1	1.1	0.6	0.6	0.6	0.6	0.6	2.2	3.9	5.6
140°	2.2	1.1	1.1	0.6	0.6	0.6	0.6	0.6	1.7	2.8	4.5
142.5°	1.7	1.1	1.1	0.6	0.6	0.6	0.6	0.6	1.1	2.2	3.4
145°	1.7	1.1	1.1	0.6	0.6	0.6	0.6	0.6	0.6	1.1	2.2
147.5°	1.7	1.7	1.1	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.7
150°	1.7	1.1	1.1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1
152.5°	1.7	1.1	1.1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1
155°	1.7	1.1	1.1	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1
157.5°	1.7	1.1	1.1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1
160°	1.7	1.1	1.1	0.6	1.1	0.6	1.1	1.1	1.1	1.1	1.1
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: P1213742

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1
2.5°	1017.9	1007.3	1012.9	1011.2	1013.4	1017.9	1017.4	1016.2	1016.2	1014.6	1012.3
5°	1014.6	1004.5	1009.5	1006.7	1009.5	1013.4	1012.9	1011.2	1012.3	1009.5	1006.7
7.5°	1007.9	998.9	1003.4	1001.2	1003.4	1007.3	1005.6	1005.1	1006.2	1001.7	1000.0
10°	1000.0	990.0	995.0	992.2	995.0	997.8	996.7	994.5	996.7	992.2	990.6
12.5°	987.8	979.4	982.7	981.6	983.3	986.1	983.9	982.2	983.3	979.4	976.0
15°	974.4	966.0	968.8	967.1	968.2	971.6	967.7	967.1	966.0	962.1	961.0
17.5°	957.0	949.2	952.0	949.2	950.9	949.8	949.2	946.4	946.4	942.0	938.6
20°	935.8	929.1	927.5	925.2	927.5	925.2	921.9	919.6	919.1	914.6	911.8
22.5°	911.3	903.4	904.6	898.4	899.0	895.6	890.0	887.8	885.6	880.6	876.6
25°	881.7	873.9	868.3	864.4	859.3	858.8	851.5	845.9	845.4	839.2	838.7
27.5°	848.2	839.2	834.8	825.3	819.1	814.1	808.0	802.4	799.6	792.9	788.4
30°	809.6	799.6	788.4	781.7	772.2	768.3	757.7	751.0	748.8	741.5	738.2
32.5°	766.1	755.5	746.5	733.7	723.1	717.5	706.9	700.2	697.4	689.6	685.1
35°	718.6	706.9	696.3	684.0	675.6	666.1	653.3	646.6	640.5	637.7	634.3
37.5°	668.9	656.1	643.8	631.5	624.3	613.1	601.9	597.5	590.2	587.4	584.1
40°	617.6	604.7	593.0	581.3	572.9	562.8	552.8	551.1	543.3	540.5	538.3
42.5°	566.7	553.3	539.9	531.6	525.4	515.4	508.7	507.0	500.3	498.6	498.6
45°	521.0	504.2	493.0	485.8	480.8	472.4	466.8	465.7	460.1	459.0	459.0
47.5°	471.8	456.2	447.8	443.3	438.9	432.7	429.4	429.4	423.8	422.7	422.1
50°	426.0	411.5	405.4	400.9	400.4	395.9	393.1	392.0	392.0	388.1	388.6
52.5°	382.5	375.2	370.2	367.4	364.1	361.3	359.0	359.0	357.4	354.6	355.7
55°	342.3	333.9	334.5	332.2	330.6	328.9	329.4	326.1	325.5	323.3	325.0
57.5°	302.1	302.1	301.0	299.3	296.5	297.6	297.6	297.6	294.8	293.1	294.8
60°	268.0	269.7	266.9	268.6	267.5	268.0	266.9	266.9	265.2	264.7	265.2
62.5°	237.9	240.7	239.5	241.8	240.7	241.2	242.3	240.1	239.0	237.9	239.0
65°	211.1	214.4	213.9	215.5	216.1	216.6	217.2	216.1	215.0	213.9	213.3
67.5°	187.6	191.0	193.2	193.8	194.3	196.0	195.4	194.3	193.2	191.5	191.0
70°	166.4	170.9	173.7	174.8	177.0	175.9	175.9	175.3	174.2	172.5	172.0
72.5°	148.5	153.6	156.3	157.5	159.7	159.7	159.1	158.6	157.5	155.8	155.2
75°	132.9	137.4	141.3	143.5	145.2	145.2	144.6	144.1	142.9	141.8	141.3
77.5°	120.6	124.5	127.9	130.7	131.8	132.3	131.8	130.7	130.7	130.1	129.5
80°	108.3	112.8	116.1	118.9	120.6	120.6	120.0	120.6	119.5	118.9	118.4
82.5°	97.7	102.7	106.6	109.4	110.6	111.1	110.6	111.1	110.0	110.0	110.0
85°	88.2	93.2	97.7	99.9	101.6	102.2	102.2	102.2	101.6	101.6	101.6
87.5°	80.4	85.4	89.9	92.1	93.8	94.4	94.4	94.9	93.8	93.8	93.8
90°	73.1	78.2	82.6	84.9	86.5	87.7	87.7	88.2	87.7	87.1	87.1
92.5°	66.4	72.0	76.5	78.7	80.4	82.1	82.1	82.6	81.5	81.5	81.5
95°	60.9	66.4	70.4	73.1	74.8	75.9	76.5	76.5	75.9	75.9	75.9
97.5°	55.8	60.9	64.8	67.6	69.2	69.8	70.4	70.9	70.4	70.4	70.4
100°	50.8	55.8	59.7	62.0	64.2	64.8	65.3	65.9	65.9	65.3	65.3
102.5°	46.3	51.4	54.7	57.5	59.2	60.3	60.9	60.9	60.9	60.9	60.9
105°	41.9	46.9	50.3	53.0	54.7	55.8	56.4	57.0	57.0	56.4	56.4
107.5°	38.0	42.4	46.3	48.6	50.8	51.9	52.5	52.5	53.0	52.5	52.5
110°	34.1	39.1	42.4	44.7	46.9	48.0	48.6	49.1	49.1	49.1	49.1

TEST NUMBER: P1213742

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	31.3	35.2	38.5	40.8	43.0	44.1	44.7	45.2	45.8	45.2	45.2
115°	27.9	31.8	35.2	37.4	39.1	40.2	41.3	41.9	41.9	42.4	41.9
117.5°	25.1	28.5	31.8	34.1	35.7	37.4	38.0	38.5	39.1	38.5	38.5
120°	22.3	25.7	28.5	30.7	32.4	34.1	34.6	35.2	35.7	35.2	35.2
122.5°	20.1	22.9	25.7	27.9	29.6	30.7	31.8	31.8	32.4	32.4	32.4
125°	17.9	20.7	22.9	25.1	26.8	27.9	28.5	29.0	29.0	29.6	29.6
127.5°	15.6	17.9	20.7	22.3	24.0	25.1	25.7	26.2	26.2	26.8	26.8
130°	13.4	15.6	17.9	19.5	21.2	22.3	22.9	23.5	24.0	24.0	24.0
132.5°	11.7	14.0	15.6	17.3	18.4	19.5	20.7	21.2	21.2	21.2	21.2
135°	9.5	11.7	13.4	15.1	16.2	17.3	17.9	19.0	19.0	19.0	19.0
137.5°	7.8	10.1	11.7	12.8	14.0	15.1	15.6	16.2	16.8	16.8	16.8
140°	6.1	7.8	9.5	11.2	12.3	12.8	14.0	14.0	14.5	14.5	14.5
142.5°	4.5	6.1	7.3	8.9	10.1	11.2	11.7	12.3	12.3	12.3	12.3
145°	3.4	4.5	5.6	6.7	8.4	8.9	9.5	10.1	10.6	10.6	10.6
147.5°	2.2	3.4	3.9	5.0	6.1	7.3	7.8	8.4	8.9	8.9	8.9
150°	1.7	2.2	3.4	3.9	4.5	5.6	6.7	6.7	7.3	7.3	6.7
152.5°	1.1	1.7	2.2	2.8	3.4	3.9	5.0	5.0	5.6	5.6	5.6
155°	1.1	1.1	1.1	1.7	2.2	2.8	3.4	3.9	3.9	3.9	3.9
157.5°	1.1	1.1	1.1	1.1	1.1	1.7	2.2	2.8	2.8	2.8	2.8
160°	1.1	1.1	0.6	0.6	1.1	1.1	1.1	1.1	1.7	1.7	1.7
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: P1213742

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1
2.5°	1014.0	1015.1	1015.1	1014.0	1013.4	1015.7	1012.9	1002.3	1005.6	1006.7	1010.1
5°	1009.0	1010.1	1010.1	1010.1	1009.0	1011.2	1008.4	997.8	1001.7	1003.4	1005.6
7.5°	1001.7	1002.3	1003.4	1002.8	1001.7	1005.1	1002.3	991.7	994.5	997.3	1000.0
10°	992.2	992.2	992.8	993.9	992.8	995.6	992.8	983.3	986.1	987.8	991.1
12.5°	979.4	980.5	981.1	980.5	979.9	982.2	981.1	972.1	973.2	976.6	979.9
15°	962.1	962.1	964.9	963.7	963.7	966.0	967.1	957.0	958.7	963.7	967.1
17.5°	940.9	941.4	943.6	944.8	944.2	948.1	948.7	940.9	940.3	946.4	949.8
20°	913.5	914.6	917.4	919.6	919.6	924.1	925.8	920.8	921.3	928.0	929.1
22.5°	880.0	880.0	885.0	888.4	891.2	894.0	899.0	894.5	894.5	903.4	908.5
25°	838.7	842.6	844.3	851.0	854.9	862.7	867.2	867.7	868.3	876.6	880.0
27.5°	792.9	794.0	799.0	806.8	811.3	818.6	826.9	828.6	831.4	842.6	847.6
30°	741.0	744.3	746.5	757.7	763.9	773.3	784.0	787.9	790.1	805.2	811.3
32.5°	687.9	689.0	698.5	704.7	711.9	722.0	734.3	741.5	746.0	761.6	770.6
35°	634.9	637.1	644.9	652.7	660.0	670.0	682.9	692.9	700.8	714.7	726.4
37.5°	586.3	591.9	593.5	601.4	606.9	617.0	625.9	640.5	648.3	662.8	677.9
40°	542.7	544.4	545.5	553.3	557.3	566.7	579.6	589.1	599.7	610.3	628.2
42.5°	499.7	500.9	502.5	507.0	511.5	518.2	527.7	537.2	548.3	564.0	575.7
45°	460.1	461.2	462.3	465.1	469.0	475.2	481.3	488.0	499.2	512.6	524.9
47.5°	423.2	425.5	425.5	426.0	428.8	433.9	438.3	446.7	452.8	460.1	474.1
50°	388.1	389.7	390.3	390.3	392.0	395.3	396.4	402.0	407.6	414.3	424.4
52.5°	355.1	355.1	354.6	356.8	356.8	359.0	359.6	362.9	366.9	374.1	378.6
55°	323.9	323.9	325.5	324.4	324.4	325.5	325.0	325.5	328.9	333.3	337.3
57.5°	293.7	293.1	294.8	293.7	293.1	294.3	295.4	293.1	293.7	298.2	298.2
60°	263.6	264.1	265.8	264.7	264.7	264.7	263.6	262.4	261.3	264.1	265.2
62.5°	239.5	237.9	239.5	237.9	239.0	238.4	237.3	235.1	235.6	234.5	233.4
65°	214.4	214.4	215.0	213.3	214.4	214.4	212.7	212.2	208.8	207.7	204.9
67.5°	192.6	192.6	193.2	192.1	192.1	192.6	191.0	189.3	185.9	184.3	180.4
70°	173.7	173.7	173.7	173.1	173.1	173.1	172.0	169.7	166.4	163.6	158.6
72.5°	156.3	156.9	156.3	156.3	158.0	156.3	154.7	152.4	149.6	144.1	139.6
75°	142.4	142.9	142.4	142.4	142.4	141.8	141.3	137.9	134.6	130.1	123.4
77.5°	130.1	130.1	130.7	130.1	130.1	129.5	127.9	125.1	121.2	117.3	109.4
80°	118.4	118.9	119.5	120.0	118.9	118.4	116.7	114.5	109.4	105.0	97.2
82.5°	110.0	109.4	110.0	110.6	109.4	108.9	107.2	104.4	100.5	94.4	86.5
85°	101.6	101.1	101.1	101.6	101.1	99.9	98.3	95.5	91.6	85.4	77.6
87.5°	93.2	93.8	94.4	93.8	93.2	92.1	90.5	87.7	83.2	78.2	69.8
90°	87.1	87.1	87.1	87.1	86.5	85.4	83.8	80.4	76.5	70.4	63.1
92.5°	81.5	81.5	81.5	81.5	81.0	79.3	77.6	74.8	70.4	64.2	57.5
95°	75.9	76.5	75.9	75.9	74.8	74.3	71.5	68.7	64.8	58.6	51.4
97.5°	69.8	70.4	69.8	69.8	69.2	68.1	66.4	63.1	59.2	53.6	46.9
100°	65.3	65.3	64.8	64.8	64.2	63.1	60.9	58.1	54.2	48.6	41.9
102.5°	60.3	60.9	60.3	60.3	59.2	58.1	56.4	53.6	49.7	44.1	38.0
105°	56.4	56.4	55.8	55.8	54.7	53.6	51.9	48.6	45.2	40.2	34.1
107.5°	52.5	52.5	51.9	51.9	50.8	49.7	47.5	44.7	41.3	36.3	30.7
110°	48.6	48.6	48.6	48.0	46.9	45.2	43.6	40.8	37.4	32.9	27.4

TEST NUMBER: P1213742

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	45.8	45.2	44.7	44.1	43.0	41.9	39.6	36.9	33.5	29.6	24.6
115°	41.9	41.9	41.3	40.8	39.6	38.0	36.3	34.1	30.7	26.2	21.8
117.5°	38.5	38.5	38.0	37.4	36.3	34.6	32.9	30.7	27.4	23.5	19.5
120°	35.2	35.2	34.6	34.1	32.9	31.3	30.2	27.4	24.6	20.7	17.3
122.5°	32.4	31.8	31.8	30.7	30.2	28.5	26.8	24.6	21.8	18.4	15.1
125°	29.0	29.0	28.5	27.9	27.4	25.7	24.0	21.8	19.0	16.2	13.4
127.5°	26.2	26.2	25.7	25.1	24.6	22.9	21.2	19.5	16.8	14.0	11.2
130°	23.5	23.5	22.9	22.3	21.8	20.1	19.0	16.8	14.5	12.3	9.5
132.5°	21.2	21.2	20.7	20.1	19.0	17.9	16.8	14.5	12.8	10.6	8.4
135°	19.0	18.4	18.4	17.9	16.8	15.6	14.5	12.8	10.6	8.9	6.7
137.5°	16.8	16.2	15.6	15.1	14.5	13.4	12.3	11.2	9.5	7.3	5.6
140°	14.5	14.0	14.0	13.4	12.3	11.7	10.6	8.9	7.8	6.1	4.5
142.5°	12.3	12.3	11.7	11.2	10.6	10.1	8.9	7.8	6.1	5.0	3.4
145°	10.6	10.1	10.1	9.5	8.9	7.8	7.3	6.1	5.0	3.9	2.8
147.5°	8.4	8.4	8.4	7.8	7.3	6.7	6.1	5.0	3.9	2.8	1.7
150°	6.7	6.7	6.7	6.1	5.6	5.0	4.5	3.9	2.8	1.7	1.1
152.5°	5.6	5.6	5.0	5.0	4.5	3.9	3.4	2.8	1.7	1.1	1.1
155°	3.9	3.9	3.9	3.4	3.4	2.8	2.2	1.7	1.1	1.1	1.1
157.5°	2.8	2.8	2.8	2.2	2.2	1.7	1.7	1.1	1.1	1.1	1.1
160°	1.7	1.7	1.7	1.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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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CATALOG NUMBER: 4SNLED-LD5-30SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1
2.5°	1008.4	1007.9	1012.3	1012.3	1007.3	1015.1	1023.5
5°	1005.1	1004.5	1009.0	1009.0	1004.5	1012.3	1021.3
7.5°	998.4	998.9	1003.4	1004.5	998.9	1006.2	1015.7
10°	991.1	990.6	995.6	996.7	992.2	998.9	1007.9
12.5°	979.4	979.4	984.4	986.1	981.6	989.4	997.8
15°	967.1	967.1	970.4	973.2	969.3	976.6	985.0
17.5°	951.5	950.9	954.3	957.6	953.7	961.5	970.4
20°	931.4	931.4	935.3	939.2	936.4	943.6	953.7
22.5°	910.1	907.9	914.6	917.4	915.7	923.0	933.0
25°	883.3	882.8	889.5	893.4	891.2	899.0	907.9
27.5°	854.3	853.7	860.5	865.5	864.4	871.6	881.7
30°	819.1	821.9	828.1	836.4	833.6	841.5	852.1
32.5°	782.3	785.1	792.3	801.3	801.8	808.0	818.6
35°	738.2	745.4	750.5	762.2	764.4	770.6	781.7
37.5°	691.8	700.2	710.8	719.7	724.2	729.2	742.1
40°	639.9	652.2	663.9	674.5	680.1	685.1	697.4
42.5°	593.0	602.5	613.7	624.3	634.3	638.8	651.6
45°	539.9	551.1	561.2	574.0	584.1	589.1	601.9
47.5°	488.0	499.2	512.6	521.5	532.1	537.2	549.4
50°	438.3	448.4	459.5	470.1	479.1	483.5	494.2
52.5°	389.2	399.8	410.4	417.1	426.6	429.9	438.9
55°	345.6	352.9	362.4	366.3	375.8	378.0	384.2
57.5°	303.8	308.8	312.1	318.8	325.5	330.6	337.8
60°	265.8	268.0	270.3	274.2	279.7	281.4	284.2
62.5°	231.7	231.2	235.6	236.7	237.3	242.9	240.1
65°	201.6	202.1	198.2	196.5	198.8	200.5	199.3
67.5°	176.4	173.1	169.7	165.8	162.5	164.2	162.5
70°	151.9	149.1	143.5	137.9	135.7	132.3	130.7
72.5°	132.3	125.6	120.0	112.8	108.9	105.0	102.2
75°	117.3	107.8	99.9	92.1	86.5	81.0	79.8
77.5°	101.6	92.7	83.8	75.4	67.0	60.9	58.6
80°	89.3	81.0	70.4	60.3	51.4	43.6	40.8
82.5°	78.2	69.2	58.6	48.0	38.0	29.6	26.2
85°	68.7	59.2	48.6	38.0	27.9	19.0	14.5
87.5°	61.4	50.8	40.2	30.2	19.5	10.6	5.6
90°	54.7	44.7	34.6	24.0	14.0	5.6	0.0
92.5°	48.6	39.1	29.0	19.5	10.6	3.4	0.6
95°	43.0	34.6	24.6	15.6	7.8	2.2	0.6
97.5°	38.5	30.2	21.2	12.8	6.1	1.7	0.6
100°	34.6	26.2	18.4	10.6	5.0	1.1	0.6
102.5°	30.7	23.5	15.6	8.9	3.9	0.6	0.6
105°	27.4	20.7	13.4	7.8	3.4	0.6	0.6
107.5°	24.6	18.4	11.7	6.7	2.2	0.6	0.6
110°	21.8	15.6	10.1	5.6	1.7	0.6	0.6



TEST NUMBER: P1213742

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	19.5	14.0	8.9	4.5	1.1	0.6	0.6
115°	17.3	12.3	7.8	3.9	1.1	0.6	0.6
117.5°	15.1	10.6	6.7	2.8	0.6	0.6	0.6
120°	13.4	9.5	5.6	2.2	0.6	0.6	0.6
122.5°	11.7	7.8	4.5	1.7	0.6	0.6	0.6
125°	10.1	6.7	3.9	1.1	0.6	0.6	0.6
127.5°	8.4	5.6	2.8	1.1	0.6	0.6	0.6
130°	7.3	4.5	2.2	0.6	0.6	0.6	0.6
132.5°	6.1	3.4	1.7	0.6	0.6	0.6	0.6
135°	5.0	2.8	1.1	0.6	0.6	0.6	0.6
137.5°	3.9	2.2	1.1	0.6	0.6	0.6	0.6
140°	2.8	1.7	0.6	0.6	0.6	0.6	0.6
142.5°	2.2	1.1	0.6	0.6	0.6	0.6	0.6
145°	1.7	1.1	0.6	0.6	0.6	0.6	0.6
147.5°	1.1	1.1	1.1	1.1	0.6	0.6	0.6
150°	1.1	1.1	0.6	0.6	1.1	0.6	0.6
152.5°	1.1	0.6	0.6	0.6	1.1	0.6	0.6
155°	1.1	1.1	1.1	1.1	1.1	1.1	0.6
157.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1
160°	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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)