

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: P1213476

Luminaire Tested: 4SNLED-LD5-56SL-LW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-56SL-LW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

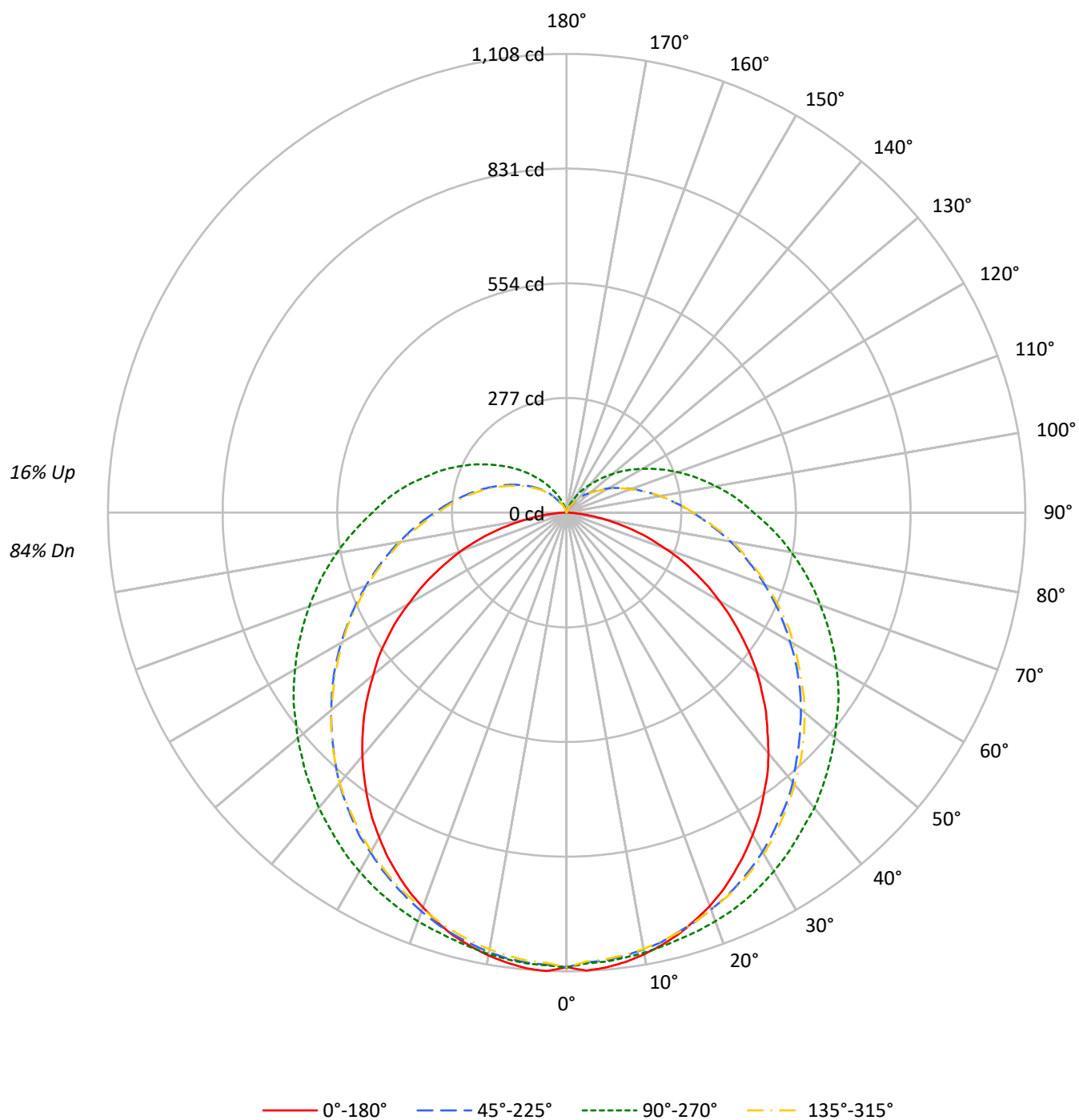
Lumens per Lamp: N/A
Luminaire Lumens: 4770.0 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 52
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

TEST NUMBER: P1213476

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L935-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213476

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8872	8872	8872	8872
5°	8919	8550	8938	8587
10°	8837	8307	8865	8334
15°	8734	8099	8773	8108
20°	8597	7947	8626	7947
25°	8427	7813	8478	7804
30°	8237	7674	8301	7674
35°	8017	7545	8105	7554
40°	7798	7469	7893	7469
45°	7547	7390	7662	7400
50°	7286	7343	7384	7364
55°	6920	7350	7139	7382
60°	6535	7373	6748	7418
65°	6102	7447	6371	7520
70°	5494	7584	5923	7692
75°	4793	7831	5246	7982
80°	3708	8200	4210	8389
85°	2213	8789	2767	9033

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 10097 cd/sqm

TEST NUMBER: P1213476

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	2.2
10°-20°	298.9	6.3
20°-30°	458.3	9.6
30°-40°	565.4	11.9
40°-50°	613.4	12.9
50°-60°	604.6	12.7
60°-70°	546.6	11.5
70°-80°	455.4	9.5
80°-90°	352.7	7.4
90°-100°	267.5	5.6
100°-110°	198.0	4.2
110°-120°	137.7	2.9
120°-130°	87.9	1.8
130°-140°	49.3	1.0
140°-150°	22.5	0.5
150°-160°	7.0	0.1
160°-170°	0.9	0.0
170°-180°	0.0	0.0
0°-30°	861.2	18.1
0°-40°	1426.6	29.9
0°-60°	2644.6	55.4
0°-90°	3999.3	83.8
90°-120°	603.2	12.6
90°-150°	762.8	16.0
90°-180°	771.0	16.2
0°-180°	4770.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1098	1098	1098	1098	1098	
5°	1102	1089	1105	1093	1102	105
15°	1053	1066	1057	1067	1053	297
25°	959	1030	965	1028	959	442
35°	830	966	840	967	830	520
45°	681	889	691	891	681	525
55°	513	801	529	805	513	459
65°	340	703	356	710	340	337
75°	171	602	188	614	171	181
85°	32	502	40	515	32	39
90°	1	452	2	469	1	2
95°	1	410	1	430	1	1
105°	1	325	1	345	1	1
115°	1	248	1	270	1	1
125°	1	178	1	198	1	1
135°	1	116	1	137	1	1
145°	1	67	1	82	1	1
155°	1	28	1	38	1	1
165°	1	5	1	7	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

TEST NUMBER: P1213476

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9
2.5°	1107.2	1107.2	1106.0	1103.7	1104.9	1108.3	1106.0	1100.2	1096.8	1087.5	1089.8
5°	1102.5	1102.5	1101.4	1099.1	1100.2	1104.9	1102.5	1097.9	1093.3	1085.2	1088.6
7.5°	1094.4	1094.4	1093.3	1091.0	1093.3	1097.9	1095.6	1091.0	1087.5	1079.4	1082.9
10°	1082.9	1084.0	1082.9	1079.4	1084.0	1088.6	1087.5	1081.7	1078.2	1071.3	1074.8
12.5°	1069.0	1070.1	1069.0	1067.8	1070.1	1077.1	1074.8	1070.1	1067.8	1062.0	1065.5
15°	1052.7	1053.9	1051.6	1051.6	1053.9	1060.9	1060.9	1056.2	1053.9	1048.1	1055.1
17.5°	1031.9	1033.1	1031.9	1031.9	1034.2	1041.2	1042.3	1040.0	1037.7	1035.4	1042.3
20°	1011.1	1009.9	1009.9	1008.7	1013.4	1023.8	1022.6	1022.6	1020.3	1020.3	1028.4
22.5°	986.7	986.7	985.6	985.6	991.4	1000.6	1000.6	1002.9	1000.6	1005.3	1012.2
25°	958.9	960.1	958.9	961.3	965.9	976.3	977.5	980.9	982.1	986.7	994.8
27.5°	930.0	931.1	930.0	932.3	940.4	948.5	954.3	958.9	960.1	967.0	977.5
30°	898.7	898.7	899.9	902.2	911.5	924.2	928.8	934.6	934.6	946.2	956.6
32.5°	866.3	866.3	866.3	870.9	881.3	896.4	902.2	909.1	911.5	923.0	934.6
35°	830.4	831.5	831.5	835.0	848.9	864.0	872.1	880.2	884.8	898.7	910.3
37.5°	796.8	799.1	795.6	800.3	820.0	832.7	842.0	850.1	858.2	876.7	886.0
40°	758.6	760.9	759.7	769.0	785.2	801.4	811.9	820.0	831.5	850.1	860.5
42.5°	718.0	720.4	722.7	733.1	750.5	766.7	779.4	789.8	803.7	820.0	837.3
45°	681.0	681.0	684.5	697.2	715.7	733.1	748.2	759.7	776.0	793.3	810.7
47.5°	639.3	640.4	645.1	660.1	679.8	700.7	714.6	729.6	747.0	765.5	785.2
50°	601.1	601.1	608.0	624.2	642.8	665.9	681.0	698.4	716.9	738.9	758.6
52.5°	557.1	559.4	569.8	584.9	609.2	630.0	647.4	665.9	687.9	711.1	733.1
55°	513.1	517.7	525.8	546.6	572.1	591.8	612.7	635.8	656.7	682.1	707.6
57.5°	470.2	473.7	486.4	507.3	533.9	558.2	580.2	602.2	627.7	653.2	679.8
60°	426.2	430.8	445.9	466.7	495.7	521.2	546.6	569.8	596.4	623.1	650.9
62.5°	384.5	388.0	405.3	429.7	458.6	486.4	511.9	539.7	568.6	594.1	621.9
65°	340.5	346.3	366.0	388.0	421.6	449.4	478.3	508.4	538.5	566.3	593.0
67.5°	300.0	303.4	324.3	349.8	383.3	414.6	444.7	477.2	508.4	537.4	564.0
70°	252.5	264.1	284.9	311.5	347.4	379.9	412.3	445.9	479.5	509.6	535.1
72.5°	213.1	222.4	245.5	274.5	309.2	347.4	381.0	416.9	450.5	481.8	508.4
75°	171.4	180.7	207.3	239.7	275.6	316.2	350.9	388.0	422.7	454.0	481.8
77.5°	130.9	142.5	171.4	205.0	244.4	286.1	322.0	359.0	394.9	428.5	456.3
80°	93.8	106.5	137.8	176.0	214.3	255.9	295.3	332.4	368.3	401.9	430.8
82.5°	60.2	74.1	107.7	145.9	186.5	228.2	268.7	305.7	341.7	375.2	405.3
85°	32.4	47.5	82.2	120.4	161.0	202.7	243.2	282.6	317.3	348.6	381.0
87.5°	9.3	27.8	61.4	99.6	141.3	179.5	218.9	258.3	293.0	326.6	355.5
90°	1.2	16.2	46.3	82.2	122.8	159.8	199.2	236.3	271.0	304.6	333.5
92.5°	1.2	10.4	35.9	68.3	105.4	143.6	183.0	218.9	251.3	284.9	313.9
95°	1.2	8.1	29.0	57.9	92.7	128.6	165.6	200.4	233.9	265.2	294.2
97.5°	1.2	5.8	23.2	49.8	81.1	114.7	150.6	185.3	217.7	247.8	274.5
100°	1.2	4.6	18.5	42.9	70.6	103.1	135.5	169.1	200.4	229.3	257.1
102.5°	1.2	3.5	16.2	35.9	62.5	91.5	122.8	154.0	184.1	211.9	239.7
105°	1.2	3.5	13.9	31.3	55.6	82.2	111.2	141.3	169.1	195.7	221.2
107.5°	1.2	2.3	11.6	26.6	48.6	74.1	100.8	129.7	155.2	180.7	205.0
110°	1.2	2.3	9.3	24.3	42.9	66.0	91.5	118.1	142.5	166.8	189.9

TEST NUMBER: P1213476

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.2	2.3	8.1	20.8	37.1	59.1	82.2	106.5	129.7	154.0	174.9
115°	1.2	2.3	6.9	18.5	34.7	51.0	74.1	96.1	119.3	141.3	161.0
117.5°	1.2	2.3	5.8	15.1	30.1	46.3	64.9	86.9	107.7	128.6	147.1
120°	1.2	2.3	4.6	13.9	26.6	41.7	57.9	77.6	97.3	117.0	136.7
122.5°	1.2	1.2	4.6	11.6	23.2	37.1	53.3	68.3	86.9	105.4	122.8
125°	1.2	1.2	4.6	10.4	19.7	33.6	47.5	61.4	77.6	93.8	108.9
127.5°	1.2	1.2	3.5	8.1	17.4	29.0	41.7	56.7	68.3	83.4	98.4
130°	1.2	1.2	3.5	6.9	15.1	24.3	37.1	49.8	63.7	74.1	86.9
132.5°	1.2	1.2	3.5	5.8	11.6	19.7	31.3	42.9	55.6	67.2	77.6
135°	1.2	1.2	2.3	4.6	9.3	16.2	25.5	35.9	48.6	60.2	70.6
137.5°	1.2	1.2	2.3	4.6	6.9	13.9	19.7	29.0	40.5	51.0	61.4
140°	1.2	1.2	2.3	3.5	5.8	10.4	16.2	23.2	32.4	41.7	53.3
142.5°	1.2	1.2	1.2	3.5	4.6	8.1	12.7	18.5	25.5	33.6	42.9
145°	1.2	1.2	1.2	3.5	4.6	5.8	10.4	15.1	19.7	25.5	33.6
147.5°	1.2	1.2	1.2	2.3	3.5	4.6	8.1	11.6	15.1	19.7	24.3
150°	1.2	1.2	1.2	2.3	3.5	4.6	5.8	8.1	11.6	16.2	19.7
152.5°	1.2	1.2	1.2	2.3	2.3	3.5	4.6	5.8	8.1	11.6	13.9
155°	1.2	1.2	1.2	1.2	2.3	3.5	4.6	4.6	5.8	8.1	10.4
157.5°	1.2	1.2	1.2	1.2	2.3	2.3	3.5	3.5	4.6	4.6	6.9
160°	1.2	1.2	1.2	1.2	1.2	2.3	2.3	3.5	3.5	3.5	3.5
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3	2.3	3.5	3.5
165°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3	2.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213476

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9
2.5°	1089.8	1091.0	1094.4	1094.4	1092.1	1092.1	1091.0	1089.8	1091.0	1093.3	1093.3
5°	1087.5	1088.6	1092.1	1093.3	1091.0	1089.8	1089.8	1088.6	1089.8	1092.1	1092.1
7.5°	1082.9	1084.0	1087.5	1088.6	1086.3	1086.3	1085.2	1084.0	1086.3	1087.5	1087.5
10°	1075.9	1077.1	1081.7	1082.9	1081.7	1080.5	1080.5	1079.4	1080.5	1082.9	1082.9
12.5°	1066.6	1069.0	1074.8	1074.8	1074.8	1073.6	1073.6	1072.4	1073.6	1075.9	1074.8
15°	1056.2	1060.9	1065.5	1067.8	1067.8	1067.8	1066.6	1065.5	1067.8	1069.0	1067.8
17.5°	1044.6	1050.4	1057.4	1059.7	1059.7	1060.9	1059.7	1058.5	1060.9	1060.9	1059.7
20°	1033.1	1038.8	1045.8	1048.1	1050.4	1051.6	1051.6	1050.4	1051.6	1052.7	1051.6
22.5°	1018.0	1025.0	1033.1	1036.5	1038.8	1041.2	1041.2	1041.2	1042.3	1043.5	1041.2
25°	1001.8	1009.9	1019.2	1022.6	1027.3	1028.4	1029.6	1029.6	1030.7	1031.9	1028.4
27.5°	984.4	993.7	1002.9	1008.7	1012.2	1014.5	1014.5	1015.7	1016.8	1018.0	1014.5
30°	963.6	977.5	985.6	990.2	994.8	998.3	999.5	1000.6	1001.8	1002.9	999.5
32.5°	945.0	956.6	967.0	972.8	978.6	983.3	984.4	984.4	986.7	986.7	983.3
35°	923.0	936.9	947.4	953.1	960.1	963.6	965.9	965.9	968.2	968.2	964.7
37.5°	901.0	914.9	926.5	933.5	941.6	946.2	947.4	947.4	949.7	949.7	945.0
40°	877.9	892.9	905.7	913.8	920.7	926.5	927.7	931.1	931.1	930.0	925.4
42.5°	854.7	868.6	882.5	891.8	901.0	906.8	909.1	910.3	910.3	909.1	905.7
45°	829.2	845.4	858.2	869.8	879.0	884.8	888.3	889.4	889.4	887.1	883.7
47.5°	804.9	821.1	833.9	846.6	855.9	862.8	866.3	867.4	866.3	865.1	861.7
50°	779.4	798.0	810.7	823.4	832.7	838.5	844.3	845.4	844.3	843.1	836.2
52.5°	752.8	772.5	786.4	799.1	809.5	816.5	821.1	822.3	822.3	820.0	815.3
55°	726.2	743.5	760.9	774.8	786.4	793.3	799.1	801.4	799.1	796.8	791.0
57.5°	701.8	718.0	735.4	750.5	762.1	771.3	776.0	778.3	776.0	772.5	766.7
60°	672.9	690.2	709.9	723.8	736.6	745.8	748.2	752.8	750.5	747.0	741.2
62.5°	645.1	665.9	683.3	700.7	711.1	721.5	726.2	728.5	726.2	722.7	716.9
65°	616.1	639.3	656.7	674.0	685.6	696.0	701.8	703.0	700.7	697.2	691.4
67.5°	589.5	611.5	630.0	648.6	659.0	669.4	675.2	677.5	675.2	670.6	664.8
70°	562.9	584.9	606.9	620.8	633.5	645.1	648.6	652.0	649.7	645.1	638.1
72.5°	536.2	559.4	581.4	595.3	609.2	619.6	624.2	627.7	625.4	620.8	612.7
75°	508.4	532.7	554.7	569.8	583.7	594.1	598.8	602.2	599.9	595.3	586.0
77.5°	482.9	507.3	528.1	544.3	558.2	567.5	575.6	576.8	574.4	569.8	560.5
80°	456.3	480.6	502.6	518.8	532.7	542.0	547.8	551.3	549.0	544.3	535.1
82.5°	433.1	455.1	477.2	493.4	507.3	518.8	523.5	527.0	525.8	518.8	511.9
85°	407.7	433.1	450.5	467.9	481.8	493.4	496.8	501.5	500.3	494.5	485.3
87.5°	382.2	407.7	428.5	445.9	458.6	467.9	473.7	476.0	474.8	469.0	458.6
90°	361.3	384.5	405.3	423.9	434.3	444.7	450.5	451.7	451.7	444.7	436.6
92.5°	341.7	363.7	384.5	401.9	414.6	423.9	428.5	430.8	429.7	423.9	414.6
95°	319.6	344.0	363.7	381.0	393.8	403.0	407.7	410.0	408.8	403.0	393.8
97.5°	301.1	323.1	342.8	359.0	371.8	381.0	385.7	388.0	388.0	382.2	372.9
100°	282.6	304.6	323.1	339.3	350.9	360.2	364.8	366.0	364.8	360.2	350.9
102.5°	264.1	284.9	303.4	318.5	331.2	339.3	344.0	345.1	345.1	339.3	330.1
105°	245.5	266.4	283.7	300.0	310.4	318.5	322.0	325.4	324.3	319.6	310.4
107.5°	228.2	249.0	265.2	280.3	290.7	298.8	302.3	305.7	304.6	300.0	290.7
110°	211.9	231.6	246.7	261.7	271.0	279.1	284.9	286.1	283.7	279.1	271.0

TEST NUMBER: P1213476

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	196.9	214.3	229.3	243.2	253.6	259.4	264.1	266.4	264.1	259.4	253.6
115°	180.7	198.0	213.1	225.8	235.1	242.1	245.5	247.8	245.5	240.9	235.1
117.5°	165.6	181.8	196.9	209.6	217.7	223.5	227.0	229.3	227.0	223.5	217.7
120°	152.9	166.8	180.7	192.3	201.5	206.1	209.6	211.9	210.8	206.1	200.4
122.5°	137.8	152.9	165.6	177.2	185.3	189.9	192.3	194.6	193.4	189.9	184.1
125°	125.1	137.8	150.6	161.0	169.1	173.7	176.0	178.4	177.2	173.7	166.8
127.5°	111.2	125.1	135.5	145.9	151.7	158.7	159.8	162.1	161.0	157.5	151.7
130°	100.8	111.2	121.6	130.9	137.8	142.5	144.8	145.9	143.6	141.3	135.5
132.5°	88.0	99.6	108.9	117.0	121.6	126.2	128.6	129.7	129.7	126.2	121.6
135°	78.8	86.9	95.0	103.1	107.7	112.3	114.7	115.8	114.7	112.3	107.7
137.5°	70.6	77.6	83.4	90.3	96.1	98.4	100.8	100.8	99.6	98.4	95.0
140°	61.4	69.5	75.3	79.9	84.5	85.7	88.0	88.0	86.9	85.7	83.4
142.5°	52.1	59.1	64.9	70.6	74.1	76.4	77.6	78.8	77.6	76.4	73.0
145°	41.7	49.8	55.6	59.1	63.7	64.9	66.0	67.2	66.0	64.9	61.4
147.5°	32.4	39.4	45.2	49.8	53.3	54.4	55.6	56.7	55.6	53.3	52.1
150°	23.2	29.0	35.9	40.5	42.9	45.2	45.2	45.2	46.3	44.0	41.7
152.5°	18.5	20.8	25.5	30.1	33.6	34.7	35.9	35.9	34.7	34.7	32.4
155°	12.7	15.1	18.5	22.0	25.5	26.6	27.8	27.8	26.6	26.6	25.5
157.5°	8.1	10.4	12.7	15.1	18.5	19.7	20.8	20.8	20.8	19.7	18.5
160°	4.6	5.8	6.9	9.3	11.6	12.7	13.9	13.9	13.9	13.9	12.7
162.5°	3.5	3.5	3.5	4.6	5.8	6.9	8.1	8.1	8.1	8.1	6.9
165°	2.3	2.3	2.3	2.3	2.3	3.5	4.6	4.6	4.6	4.6	4.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213476

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9
2.5°	1092.1	1092.1	1093.3	1091.0	1084.0	1085.2	1085.2	1089.8	1092.1	1093.3	1099.1
5°	1089.8	1089.8	1092.1	1088.6	1082.9	1082.9	1082.9	1087.5	1088.6	1091.0	1095.6
7.5°	1086.3	1086.3	1087.5	1084.0	1077.1	1077.1	1075.9	1080.5	1082.9	1084.0	1088.6
10°	1080.5	1080.5	1081.7	1078.2	1070.1	1070.1	1069.0	1072.4	1073.6	1075.9	1079.4
12.5°	1072.4	1072.4	1072.4	1069.0	1060.9	1059.7	1058.5	1062.0	1062.0	1063.2	1066.6
15°	1065.5	1063.2	1063.2	1059.7	1051.6	1049.3	1047.0	1048.1	1050.4	1049.3	1051.6
17.5°	1057.4	1055.1	1052.7	1049.3	1038.8	1035.4	1033.1	1034.2	1033.1	1031.9	1034.2
20°	1048.1	1044.6	1043.5	1037.7	1027.3	1021.5	1016.8	1014.5	1015.7	1012.2	1013.4
22.5°	1037.7	1033.1	1030.7	1023.8	1013.4	1006.4	1000.6	996.0	994.8	990.2	991.4
25°	1025.0	1019.2	1015.7	1009.9	998.3	990.2	983.3	976.3	972.8	967.0	965.9
27.5°	1009.9	1004.1	999.5	993.7	982.1	971.7	963.6	954.3	949.7	942.7	939.2
30°	994.8	987.9	980.9	976.3	963.6	952.0	939.2	931.1	924.2	916.1	910.3
32.5°	976.3	969.4	962.4	955.5	943.9	930.0	919.6	906.8	898.7	889.4	882.5
35°	957.8	948.5	941.6	932.3	921.9	905.7	892.9	880.2	869.8	859.3	851.2
37.5°	936.9	930.0	919.6	911.5	898.7	882.5	868.6	852.4	843.1	829.2	818.8
40°	917.2	909.1	898.7	888.3	875.6	857.0	842.0	823.4	813.0	796.8	786.4
42.5°	897.6	886.0	875.6	864.0	850.1	832.7	814.2	795.6	781.7	766.7	751.6
45°	875.6	862.8	850.1	837.3	823.4	806.1	786.4	766.7	749.3	735.4	716.9
47.5°	852.4	839.6	824.6	810.7	795.6	778.3	757.4	736.6	718.0	701.8	682.1
50°	829.2	816.5	800.3	785.2	767.8	750.5	728.5	704.1	684.5	663.6	646.2
52.5°	804.9	792.2	777.1	757.4	738.9	721.5	698.4	672.9	650.9	633.5	611.5
55°	780.6	767.8	750.5	730.8	712.3	690.2	668.2	642.8	618.4	597.6	575.6
57.5°	755.1	743.5	723.8	707.6	684.5	661.3	638.1	613.8	587.2	562.9	537.4
60°	729.6	716.9	698.4	678.7	655.5	632.3	608.0	581.4	553.6	527.0	503.8
62.5°	706.5	690.2	672.9	652.0	627.7	605.7	577.9	549.0	521.2	493.4	465.6
65°	679.8	662.5	646.2	625.4	599.9	574.4	546.6	517.7	487.6	457.5	429.7
67.5°	653.2	635.8	618.4	597.6	571.0	544.3	515.4	486.4	452.8	423.9	391.5
70°	626.6	612.7	590.6	568.6	544.3	515.4	486.4	455.1	420.4	389.1	355.5
72.5°	599.9	586.0	564.0	540.9	517.7	487.6	456.3	425.0	392.6	356.7	320.8
75°	574.4	557.1	537.4	515.4	491.1	459.8	428.5	396.1	357.9	324.3	287.2
77.5°	550.1	533.9	514.2	489.9	463.3	433.1	400.7	367.1	328.9	293.0	252.5
80°	523.5	507.3	487.6	463.3	436.6	407.7	372.9	338.2	301.1	261.7	220.0
82.5°	498.0	482.9	460.9	438.9	410.0	381.0	346.3	311.5	272.2	233.9	193.4
85°	471.4	456.3	435.5	412.3	384.5	353.2	320.8	286.1	246.7	207.3	166.8
87.5°	448.2	430.8	410.0	386.8	359.0	328.9	297.6	260.6	222.4	184.1	142.5
90°	423.9	407.7	386.8	363.7	335.9	305.7	273.3	238.6	201.5	162.1	122.8
92.5°	403.0	385.7	366.0	342.8	315.0	286.1	253.6	218.9	183.0	144.8	106.5
95°	382.2	364.8	346.3	323.1	295.3	266.4	233.9	200.4	165.6	128.6	92.7
97.5°	359.0	344.0	325.4	303.4	275.6	247.8	216.6	184.1	150.6	114.7	81.1
100°	340.5	323.1	305.7	282.6	257.1	230.5	199.2	167.9	135.5	101.9	70.6
102.5°	319.6	303.4	286.1	264.1	238.6	211.9	183.0	152.9	122.8	91.5	61.4
105°	300.0	284.9	266.4	245.5	221.2	195.7	167.9	140.1	111.2	81.1	54.4
107.5°	280.3	265.2	247.8	228.2	205.0	179.5	154.0	126.2	99.6	73.0	48.6
110°	260.6	246.7	230.5	210.8	188.8	165.6	141.3	115.8	89.2	64.9	42.9

TEST NUMBER: P1213476

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	243.2	229.3	213.1	194.6	173.7	151.7	128.6	104.2	79.9	57.9	37.1
115°	225.8	213.1	196.9	180.7	159.8	139.0	117.0	93.8	71.8	52.1	32.4
117.5°	208.5	195.7	180.7	164.5	145.9	126.2	105.4	83.4	64.9	46.3	29.0
120°	191.1	179.5	165.6	150.6	134.3	114.7	93.8	75.3	57.9	40.5	25.5
122.5°	174.9	164.5	151.7	137.8	120.4	101.9	84.5	68.3	52.1	35.9	20.8
125°	159.8	149.4	137.8	123.9	107.7	91.5	76.4	61.4	45.2	31.3	17.4
127.5°	144.8	134.3	122.8	110.0	97.3	82.2	68.3	54.4	40.5	27.8	15.1
130°	129.7	120.4	110.0	99.6	86.9	73.0	61.4	47.5	34.7	22.0	12.7
132.5°	114.7	107.7	98.4	88.0	76.4	66.0	53.3	41.7	30.1	19.7	11.6
135°	101.9	95.0	86.9	77.6	68.3	57.9	46.3	35.9	25.5	16.2	9.3
137.5°	90.3	84.5	76.4	68.3	60.2	49.8	40.5	30.1	20.8	13.9	6.9
140°	79.9	74.1	67.2	59.1	52.1	42.9	33.6	24.3	18.5	11.6	5.8
142.5°	69.5	63.7	57.9	51.0	44.0	35.9	27.8	20.8	15.1	9.3	5.8
145°	59.1	54.4	48.6	42.9	35.9	29.0	23.2	17.4	11.6	6.9	4.6
147.5°	48.6	45.2	39.4	34.7	29.0	23.2	18.5	13.9	9.3	5.8	3.5
150°	39.4	35.9	31.3	26.6	23.2	18.5	15.1	10.4	6.9	5.8	3.5
152.5°	30.1	27.8	24.3	22.0	18.5	13.9	10.4	8.1	5.8	4.6	2.3
155°	24.3	22.0	19.7	16.2	13.9	10.4	8.1	5.8	4.6	3.5	2.3
157.5°	17.4	16.2	13.9	11.6	9.3	6.9	5.8	5.8	3.5	2.3	1.2
160°	11.6	10.4	9.3	6.9	5.8	5.8	4.6	3.5	2.3	2.3	1.2
162.5°	6.9	5.8	5.8	5.8	4.6	4.6	3.5	2.3	2.3	1.2	1.2
165°	4.6	4.6	4.6	3.5	3.5	3.5	2.3	1.2	1.2	1.2	1.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213476

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9
2.5°	1099.1	1095.6	1100.2	1108.3	1109.5	1108.3	1106.0	1109.5	1114.1	1113.0	1104.9
5°	1096.8	1092.1	1096.8	1104.9	1104.9	1103.7	1102.5	1106.0	1110.7	1109.5	1102.5
7.5°	1089.8	1085.2	1089.8	1096.8	1097.9	1095.6	1095.6	1099.1	1103.7	1102.5	1096.8
10°	1080.5	1075.9	1078.2	1086.3	1088.6	1086.3	1086.3	1089.8	1095.6	1094.4	1087.5
12.5°	1066.6	1063.2	1065.5	1072.4	1074.8	1073.6	1072.4	1077.1	1082.9	1082.9	1075.9
15°	1051.6	1047.0	1049.3	1057.4	1058.5	1056.2	1057.4	1060.9	1067.8	1067.8	1062.0
17.5°	1034.2	1028.4	1031.9	1037.7	1038.8	1038.8	1038.8	1043.5	1051.6	1050.4	1045.8
20°	1014.5	1006.4	1008.7	1014.5	1016.8	1016.8	1016.8	1025.0	1030.7	1030.7	1026.1
22.5°	991.4	985.6	985.6	991.4	994.8	993.7	993.7	1000.6	1008.7	1007.6	1007.6
25°	964.7	960.1	957.8	964.7	965.9	967.0	969.4	976.3	985.6	985.6	986.7
27.5°	936.9	932.3	931.1	936.9	938.1	939.2	941.6	949.7	958.9	960.1	962.4
30°	910.3	903.3	901.0	905.7	908.0	909.1	909.1	921.9	930.0	933.5	938.1
32.5°	879.0	872.1	866.3	874.4	875.6	877.9	879.0	891.8	901.0	906.8	913.8
35°	847.8	836.2	833.9	839.6	842.0	843.1	845.4	859.3	872.1	876.7	886.0
37.5°	813.0	804.9	798.0	803.7	806.1	807.2	814.2	826.9	839.6	846.6	855.9
40°	780.6	770.2	764.4	767.8	770.2	771.3	779.4	793.3	808.4	816.5	828.1
42.5°	744.7	730.8	726.2	729.6	730.8	734.3	741.2	759.7	774.8	786.4	795.6
45°	708.8	698.4	687.9	691.4	692.6	694.9	705.3	725.0	741.2	755.1	765.5
47.5°	671.7	659.0	648.6	650.9	655.5	656.7	668.2	691.4	706.5	721.5	735.4
50°	634.7	617.3	609.2	609.2	611.5	617.3	632.3	655.5	671.7	689.1	704.1
52.5°	596.4	580.2	571.0	572.1	574.4	581.4	595.3	618.4	637.0	655.5	674.0
55°	558.2	540.9	531.6	529.3	531.6	540.9	557.1	581.4	599.9	621.9	641.6
57.5°	520.0	499.2	491.1	487.6	489.9	501.5	517.7	543.2	566.3	587.2	610.3
60°	478.3	462.1	448.2	440.1	445.9	460.9	478.3	504.9	529.3	552.4	577.9
62.5°	442.4	421.6	406.5	398.4	404.2	416.9	441.3	466.7	493.4	520.0	545.5
65°	401.9	381.0	363.7	355.5	361.3	376.4	400.7	428.5	457.5	484.1	514.2
67.5°	362.5	340.5	319.6	311.5	318.5	334.7	361.3	392.6	423.9	451.7	484.1
70°	324.3	300.0	278.0	272.2	276.8	298.8	324.3	355.5	388.0	420.4	454.0
72.5°	289.5	259.4	236.3	229.3	235.1	259.4	288.4	320.8	355.5	390.3	426.2
75°	249.0	221.2	195.7	187.6	194.6	216.6	252.5	287.2	324.3	361.3	394.9
77.5°	216.6	184.1	157.5	144.8	156.3	184.1	218.9	255.9	294.2	332.4	370.6
80°	183.0	149.4	120.4	106.5	119.3	149.4	184.1	224.7	267.5	305.7	340.5
82.5°	152.9	117.0	86.9	71.8	85.7	119.3	157.5	198.0	239.7	278.0	318.5
85°	125.1	88.0	56.7	40.5	60.2	90.3	130.9	172.6	215.4	254.8	294.2
87.5°	101.9	66.0	34.7	17.4	37.1	70.6	108.9	150.6	193.4	232.8	269.8
90°	83.4	47.5	18.5	2.3	22.0	53.3	90.3	130.9	171.4	211.9	249.0
92.5°	68.3	35.9	10.4	1.2	13.9	42.9	77.6	115.8	155.2	194.6	230.5
95°	56.7	27.8	6.9	1.2	10.4	33.6	66.0	103.1	140.1	178.4	214.3
97.5°	48.6	23.2	5.8	1.2	8.1	29.0	56.7	91.5	127.4	163.3	198.0
100°	41.7	18.5	4.6	1.2	6.9	24.3	49.8	81.1	114.7	149.4	183.0
102.5°	35.9	15.1	3.5	1.2	5.8	20.8	44.0	73.0	103.1	136.7	169.1
105°	31.3	12.7	3.5	1.2	4.6	18.5	39.4	64.9	95.0	125.1	156.3
107.5°	26.6	10.4	2.3	1.2	3.5	15.1	34.7	59.1	85.7	114.7	143.6
110°	23.2	9.3	2.3	1.2	3.5	13.9	30.1	53.3	77.6	104.2	132.0

TEST NUMBER: P1213476

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	19.7	6.9	2.3	1.2	2.3	11.6	26.6	47.5	70.6	95.0	121.6
115°	17.4	5.8	1.2	1.2	2.3	10.4	24.3	42.9	63.7	86.9	111.2
117.5°	13.9	4.6	1.2	1.2	1.2	8.1	20.8	38.2	57.9	79.9	101.9
120°	11.6	4.6	1.2	1.2	1.2	6.9	18.5	33.6	52.1	71.8	92.7
122.5°	10.4	3.5	1.2	1.2	1.2	5.8	16.2	30.1	46.3	64.9	84.5
125°	9.3	3.5	1.2	1.2	1.2	4.6	13.9	26.6	41.7	57.9	76.4
127.5°	6.9	3.5	1.2	1.2	1.2	3.5	12.7	23.2	37.1	52.1	68.3
130°	5.8	2.3	1.2	1.2	1.2	3.5	10.4	20.8	32.4	46.3	61.4
132.5°	4.6	2.3	1.2	1.2	1.2	2.3	8.1	16.2	27.8	40.5	54.4
135°	4.6	2.3	1.2	1.2	1.2	2.3	5.8	13.9	23.2	34.7	46.3
137.5°	4.6	1.2	1.2	1.2	1.2	2.3	4.6	10.4	18.5	27.8	38.2
140°	3.5	1.2	1.2	1.2	1.2	1.2	3.5	8.1	15.1	23.2	32.4
142.5°	3.5	1.2	1.2	1.2	1.2	1.2	3.5	5.8	11.6	18.5	25.5
145°	2.3	1.2	1.2	1.2	1.2	1.2	2.3	4.6	9.3	13.9	20.8
147.5°	2.3	1.2	1.2	1.2	1.2	1.2	2.3	3.5	6.9	11.6	16.2
150°	2.3	1.2	1.2	1.2	1.2	1.2	2.3	3.5	4.6	8.1	12.7
152.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3	3.5	5.8	8.1
155°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	3.5	4.6	5.8
157.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3	3.5	4.6
160°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3	3.5
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3
165°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213476

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9
2.5°	1101.4	1093.3	1095.6	1094.4	1096.8	1100.2	1100.2	1099.1	1099.1	1096.8	1094.4
5°	1099.1	1091.0	1094.4	1093.3	1095.6	1099.1	1099.1	1097.9	1097.9	1094.4	1093.3
7.5°	1092.1	1086.3	1088.6	1088.6	1091.0	1094.4	1094.4	1093.3	1093.3	1089.8	1088.6
10°	1085.2	1078.2	1081.7	1081.7	1084.0	1088.6	1088.6	1087.5	1087.5	1084.0	1082.9
12.5°	1073.6	1066.6	1072.4	1073.6	1075.9	1080.5	1079.4	1079.4	1079.4	1075.9	1074.8
15°	1059.7	1055.1	1060.9	1062.0	1065.5	1071.3	1071.3	1071.3	1071.3	1067.8	1066.6
17.5°	1044.6	1041.2	1047.0	1049.3	1053.9	1059.7	1059.7	1060.9	1062.0	1059.7	1058.5
20°	1027.3	1025.0	1030.7	1035.4	1042.3	1048.1	1050.4	1051.6	1053.9	1051.6	1050.4
22.5°	1007.6	1007.6	1015.7	1020.3	1028.4	1034.2	1037.7	1041.2	1043.5	1041.2	1040.0
25°	985.6	989.0	997.2	1005.3	1014.5	1020.3	1023.8	1028.4	1030.7	1029.6	1028.4
27.5°	964.7	969.4	979.8	987.9	996.0	1005.3	1008.7	1014.5	1016.8	1016.8	1015.7
30°	940.4	947.4	958.9	968.2	978.6	987.9	992.5	998.3	1001.8	999.5	1000.6
32.5°	917.2	928.8	938.1	948.5	960.1	969.4	975.2	982.1	985.6	984.4	985.6
35°	891.8	903.3	916.1	926.5	940.4	949.7	957.8	963.6	968.2	967.0	967.0
37.5°	864.0	879.0	891.8	905.7	918.4	928.8	936.9	943.9	948.5	948.5	948.5
40°	837.3	853.5	866.3	882.5	898.7	908.0	917.2	924.2	928.8	930.0	931.1
42.5°	808.4	825.8	840.8	858.2	874.4	886.0	896.4	904.5	909.1	911.5	910.3
45°	781.7	798.0	815.3	835.0	850.1	861.7	874.4	883.7	888.3	889.4	890.6
47.5°	751.6	770.2	789.8	809.5	824.6	839.6	851.2	860.5	865.1	868.6	868.6
50°	722.7	742.4	764.4	785.2	801.4	816.5	828.1	838.5	844.3	846.6	847.8
52.5°	696.0	714.6	737.7	758.6	774.8	789.8	804.9	816.5	822.3	824.6	824.6
55°	663.6	686.8	712.3	731.9	749.3	766.7	781.7	793.3	799.1	802.6	804.9
57.5°	633.5	657.8	684.5	705.3	726.2	742.4	756.3	771.3	776.0	780.6	781.7
60°	604.5	628.9	654.3	677.5	698.4	715.7	731.9	744.7	752.8	755.1	757.4
62.5°	574.4	599.9	626.6	649.7	671.7	692.6	707.6	719.2	728.5	731.9	734.3
65°	545.5	572.1	598.8	623.1	646.2	667.1	682.1	693.7	703.0	708.8	709.9
67.5°	514.2	543.2	571.0	596.4	619.6	641.6	656.7	668.2	677.5	684.5	685.6
70°	485.3	515.4	543.2	571.0	594.1	616.1	632.3	643.9	654.3	659.0	661.3
72.5°	457.5	488.7	517.7	545.5	568.6	590.6	608.0	619.6	630.0	635.8	637.0
75°	430.8	462.1	493.4	520.0	544.3	566.3	583.7	596.4	605.7	611.5	613.8
77.5°	404.2	436.6	467.9	494.5	520.0	542.0	557.1	572.1	581.4	588.3	588.3
80°	377.6	411.1	443.6	470.2	495.7	515.4	532.7	547.8	557.1	564.0	564.0
82.5°	354.4	386.8	418.1	444.7	470.2	492.2	509.6	523.5	533.9	538.5	539.7
85°	327.8	363.7	392.6	421.6	445.9	466.7	484.1	499.2	508.4	513.1	515.4
87.5°	305.7	340.5	371.8	397.2	421.6	442.4	462.1	474.8	484.1	489.9	492.2
90°	284.9	318.5	349.8	375.2	400.7	420.4	438.9	451.7	462.1	466.7	469.0
92.5°	266.4	300.0	330.1	355.5	379.9	401.9	419.2	432.0	441.3	445.9	449.4
95°	249.0	281.4	310.4	338.2	361.3	381.0	399.6	412.3	422.7	426.2	429.7
97.5°	231.6	262.9	291.9	318.5	342.8	361.3	378.7	391.5	399.6	405.3	408.8
100°	216.6	246.7	274.5	300.0	323.1	340.5	359.0	370.6	378.7	383.3	388.0
102.5°	200.4	230.5	257.1	281.4	305.7	322.0	339.3	350.9	357.9	366.0	366.0
105°	186.5	214.3	240.9	264.1	284.9	304.6	319.6	331.2	339.3	345.1	345.1
107.5°	171.4	199.2	224.7	249.0	268.7	287.2	301.1	311.5	320.8	324.3	327.8
110°	159.8	184.1	209.6	232.8	251.3	268.7	282.6	294.2	302.3	305.7	308.1

TEST NUMBER: P1213476

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	145.9	171.4	194.6	216.6	235.1	251.3	265.2	274.5	282.6	287.2	288.4
115°	134.3	158.7	179.5	200.4	220.0	233.9	246.7	255.9	264.1	267.5	269.8
117.5°	123.9	145.9	166.8	184.1	202.7	217.7	230.5	238.6	245.5	250.2	252.5
120°	113.5	134.3	152.9	170.2	187.6	201.5	213.1	221.2	229.3	232.8	232.8
122.5°	103.1	122.8	140.1	156.3	172.6	185.3	198.0	205.0	211.9	215.4	215.4
125°	93.8	112.3	128.6	143.6	158.7	170.2	180.7	188.8	195.7	198.0	198.0
127.5°	84.5	101.9	117.0	130.9	143.6	155.2	165.6	173.7	179.5	181.8	181.8
130°	76.4	91.5	105.4	119.3	132.0	141.3	151.7	158.7	162.1	165.6	166.8
132.5°	68.3	82.2	95.0	106.5	119.3	128.6	136.7	143.6	147.1	150.6	151.7
135°	60.2	73.0	84.5	96.1	106.5	115.8	122.8	128.6	133.2	135.5	136.7
137.5°	51.0	64.9	75.3	84.5	96.1	103.1	111.2	114.7	119.3	121.6	121.6
140°	42.9	53.3	64.9	74.1	83.4	90.3	97.3	103.1	106.5	107.7	107.7
142.5°	34.7	44.0	53.3	64.9	73.0	78.8	85.7	90.3	92.7	93.8	95.0
145°	27.8	34.7	42.9	53.3	62.5	69.5	73.0	77.6	79.9	81.1	82.2
147.5°	20.8	27.8	34.7	41.7	51.0	57.9	61.4	66.0	68.3	69.5	69.5
150°	16.2	20.8	25.5	32.4	39.4	47.5	52.1	55.6	56.7	57.9	57.9
152.5°	11.6	16.2	19.7	24.3	29.0	35.9	42.9	45.2	46.3	47.5	47.5
155°	8.1	11.6	13.9	17.4	20.8	26.6	32.4	35.9	37.1	38.2	38.2
157.5°	5.8	8.1	9.3	12.7	15.1	17.4	22.0	27.8	29.0	29.0	29.0
160°	3.5	4.6	5.8	8.1	9.3	11.6	13.9	17.4	20.8	20.8	20.8
162.5°	2.3	3.5	3.5	4.6	4.6	6.9	8.1	9.3	12.7	13.9	13.9
165°	1.2	2.3	2.3	2.3	2.3	2.3	3.5	3.5	5.8	6.9	6.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213476

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9
2.5°	1095.6	1097.9	1096.8	1096.8	1096.8	1099.1	1096.8	1086.3	1088.6	1091.0	1093.3
5°	1094.4	1095.6	1095.6	1094.4	1094.4	1096.8	1094.4	1084.0	1086.3	1088.6	1089.8
7.5°	1089.8	1091.0	1091.0	1091.0	1089.8	1092.1	1088.6	1079.4	1079.4	1081.7	1082.9
10°	1084.0	1086.3	1085.2	1084.0	1084.0	1084.0	1081.7	1071.3	1071.3	1072.4	1073.6
12.5°	1077.1	1077.1	1077.1	1075.9	1074.8	1074.8	1072.4	1062.0	1060.9	1063.2	1062.0
15°	1067.8	1070.1	1067.8	1066.6	1064.3	1064.3	1060.9	1050.4	1048.1	1049.3	1048.1
17.5°	1059.7	1060.9	1058.5	1056.2	1053.9	1052.7	1049.3	1037.7	1034.2	1035.4	1033.1
20°	1051.6	1051.6	1049.3	1047.0	1043.5	1040.0	1035.4	1023.8	1018.0	1018.0	1013.4
22.5°	1041.2	1041.2	1038.8	1035.4	1031.9	1027.3	1022.6	1011.1	1001.8	999.5	996.0
25°	1029.6	1028.4	1027.3	1023.8	1016.8	1012.2	1007.6	994.8	984.4	979.8	974.0
27.5°	1015.7	1015.7	1012.2	1008.7	1001.8	996.0	990.2	978.6	964.7	958.9	950.8
30°	1000.6	1000.6	997.2	992.5	985.6	978.6	971.7	957.8	943.9	935.8	926.5
32.5°	985.6	984.4	980.9	976.3	969.4	958.9	953.1	939.2	923.0	913.8	901.0
35°	967.0	965.9	962.4	956.6	947.4	939.2	930.0	917.2	898.7	887.1	873.2
37.5°	948.5	947.4	945.0	936.9	927.7	918.4	906.8	894.1	876.7	861.7	847.8
40°	930.0	928.8	924.2	918.4	906.8	895.2	883.7	870.9	852.4	835.0	820.0
42.5°	910.3	909.1	903.3	896.4	883.7	872.1	858.2	844.3	825.8	804.9	789.8
45°	890.6	888.3	882.5	874.4	860.5	847.8	833.9	817.6	799.1	779.4	759.7
47.5°	869.8	866.3	860.5	848.9	837.3	823.4	807.2	789.8	771.3	749.3	728.5
50°	846.6	844.3	837.3	826.9	813.0	799.1	780.6	763.2	741.2	720.4	694.9
52.5°	824.6	820.0	814.2	802.6	788.7	773.6	753.9	733.1	711.1	691.4	664.8
55°	801.4	799.1	791.0	781.7	764.4	747.0	728.5	706.5	682.1	659.0	633.5
57.5°	779.4	774.8	767.8	755.1	740.0	722.7	703.0	679.8	653.2	628.9	601.1
60°	757.4	750.5	742.4	730.8	714.6	696.0	675.2	650.9	624.2	597.6	568.6
62.5°	733.1	727.3	718.0	706.5	690.2	670.6	648.6	623.1	597.6	569.8	538.5
65°	708.8	703.0	693.7	682.1	665.9	643.9	620.8	595.3	566.3	539.7	506.1
67.5°	684.5	678.7	668.2	655.5	639.3	618.4	594.1	567.5	538.5	509.6	474.8
70°	660.1	653.2	643.9	630.0	613.8	591.8	567.5	539.7	510.7	479.5	444.7
72.5°	635.8	630.0	618.4	605.7	588.3	566.3	542.0	514.2	484.1	451.7	416.9
75°	611.5	604.5	596.4	581.4	562.9	542.0	516.5	488.7	456.3	425.0	389.1
77.5°	587.2	581.4	571.0	555.9	538.5	516.5	491.1	463.3	430.8	398.4	360.2
80°	562.9	555.9	547.8	533.9	514.2	492.2	465.6	437.8	405.3	371.8	333.5
82.5°	538.5	531.6	522.3	508.4	489.9	467.9	442.4	412.3	379.9	345.1	309.2
85°	514.2	508.4	498.0	484.1	464.4	442.4	416.9	390.3	355.5	320.8	284.9
87.5°	489.9	484.1	473.7	459.8	441.3	419.2	393.8	366.0	332.4	300.0	260.6
90°	466.7	462.1	451.7	437.8	419.2	397.2	374.1	344.0	311.5	279.1	242.1
92.5°	445.9	441.3	432.0	418.1	401.9	377.6	354.4	325.4	293.0	259.4	223.5
95°	427.4	421.6	412.3	399.6	379.9	359.0	335.9	306.9	275.6	242.1	207.3
97.5°	406.5	400.7	391.5	377.6	361.3	339.3	316.2	288.4	257.1	225.8	191.1
100°	385.7	379.9	369.4	357.9	341.7	319.6	297.6	269.8	240.9	210.8	177.2
102.5°	364.8	359.0	349.8	338.2	322.0	302.3	280.3	253.6	224.7	194.6	163.3
105°	345.1	339.3	330.1	318.5	303.4	283.7	260.6	237.4	209.6	180.7	150.6
107.5°	325.4	319.6	311.5	300.0	284.9	266.4	244.4	220.0	194.6	166.8	137.8
110°	305.7	301.1	291.9	281.4	266.4	247.8	228.2	205.0	179.5	154.0	126.2

TEST NUMBER: P1213476

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	287.2	282.6	273.3	261.7	249.0	231.6	211.9	189.9	165.6	141.3	114.7
115°	268.7	262.9	254.8	244.4	231.6	215.4	196.9	177.2	152.9	129.7	105.4
117.5°	250.2	245.5	237.4	227.0	215.4	199.2	181.8	163.3	140.1	118.1	96.1
120°	231.6	228.2	220.0	210.8	199.2	184.1	167.9	149.4	128.6	107.7	86.9
122.5°	214.3	210.8	202.7	194.6	183.0	169.1	154.0	136.7	118.1	98.4	79.9
125°	198.0	193.4	186.5	178.4	167.9	155.2	140.1	123.9	106.5	89.2	71.8
127.5°	180.7	177.2	172.6	163.3	152.9	141.3	127.4	113.5	97.3	81.1	64.9
130°	166.8	162.1	156.3	149.4	140.1	128.6	115.8	101.9	88.0	73.0	56.7
132.5°	150.6	145.9	141.3	134.3	126.2	115.8	104.2	91.5	78.8	64.9	51.0
135°	135.5	132.0	127.4	120.4	112.3	104.2	92.7	81.1	69.5	56.7	45.2
137.5°	121.6	118.1	113.5	108.9	100.8	92.7	82.2	71.8	61.4	49.8	39.4
140°	107.7	105.4	100.8	96.1	89.2	81.1	71.8	62.5	53.3	42.9	33.6
142.5°	93.8	91.5	88.0	83.4	77.6	70.6	62.5	54.4	45.2	37.1	29.0
145°	81.1	79.9	76.4	71.8	67.2	60.2	53.3	46.3	38.2	31.3	23.2
147.5°	68.3	67.2	64.9	61.4	56.7	51.0	45.2	38.2	32.4	25.5	18.5
150°	56.7	55.6	54.4	49.8	47.5	41.7	37.1	31.3	26.6	19.7	15.1
152.5°	46.3	46.3	44.0	40.5	38.2	33.6	30.1	25.5	20.8	16.2	11.6
155°	37.1	35.9	34.7	32.4	30.1	26.6	23.2	19.7	16.2	11.6	8.1
157.5°	29.0	27.8	26.6	24.3	22.0	20.8	17.4	13.9	10.4	8.1	5.8
160°	20.8	19.7	18.5	17.4	16.2	13.9	11.6	9.3	6.9	4.6	3.5
162.5°	13.9	12.7	12.7	11.6	10.4	8.1	6.9	5.8	4.6	3.5	2.3
165°	6.9	6.9	5.8	5.8	4.6	3.5	3.5	3.5	2.3	2.3	1.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213476

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9	1097.9
2.5°	1092.1	1092.1	1096.8	1095.6	1092.1	1099.1	1107.2
5°	1088.6	1088.6	1092.1	1092.1	1088.6	1095.6	1102.5
7.5°	1082.9	1081.7	1085.2	1085.2	1080.5	1086.3	1094.4
10°	1072.4	1071.3	1074.8	1074.8	1070.1	1075.9	1082.9
12.5°	1060.9	1058.5	1062.0	1060.9	1056.2	1062.0	1069.0
15°	1045.8	1044.6	1047.0	1044.6	1040.0	1045.8	1052.7
17.5°	1030.7	1027.3	1028.4	1028.4	1020.3	1026.1	1031.9
20°	1011.1	1006.4	1007.6	1006.4	1000.6	1004.1	1011.1
22.5°	991.4	984.4	984.4	983.3	976.3	980.9	986.7
25°	967.0	958.9	958.9	957.8	949.7	953.1	958.9
27.5°	942.7	934.6	931.1	930.0	921.9	921.9	930.0
30°	917.2	905.7	903.3	899.9	891.8	891.8	898.7
32.5°	892.9	876.7	872.1	867.4	859.3	858.2	866.3
35°	860.5	847.8	839.6	835.0	825.8	823.4	830.4
37.5°	833.9	817.6	806.1	800.3	791.0	787.5	796.8
40°	804.9	787.5	772.5	769.0	755.1	750.5	758.6
42.5°	772.5	753.9	738.9	731.9	721.5	716.9	718.0
45°	740.0	720.4	704.1	694.9	684.5	676.4	681.0
47.5°	706.5	689.1	669.4	655.5	642.8	637.0	639.3
50°	672.9	652.0	633.5	618.4	603.4	596.4	601.1
52.5°	639.3	617.3	596.4	580.2	562.9	555.9	557.1
55°	606.9	583.7	559.4	542.0	525.8	515.4	513.1
57.5°	574.4	549.0	523.5	503.8	482.9	473.7	470.2
60°	539.7	513.1	486.4	463.3	441.3	430.8	426.2
62.5°	507.3	478.3	448.2	423.9	401.9	388.0	384.5
65°	476.0	442.4	412.3	384.5	360.2	345.1	340.5
67.5°	442.4	407.7	375.2	345.1	322.0	302.3	300.0
70°	411.1	374.1	338.2	306.9	281.4	261.7	252.5
72.5°	379.9	341.7	304.6	271.0	238.6	220.0	213.1
75°	349.8	310.4	271.0	236.3	200.4	178.4	171.4
77.5°	322.0	281.4	239.7	201.5	167.9	140.1	130.9
80°	295.3	253.6	209.6	170.2	134.3	104.2	93.8
82.5°	267.5	228.2	183.0	141.3	104.2	73.0	60.2
85°	243.2	203.8	158.7	117.0	79.9	46.3	32.4
87.5°	223.5	180.7	140.1	98.4	60.2	26.6	9.3
90°	203.8	162.1	121.6	81.1	45.2	15.1	1.2
92.5°	186.5	147.1	106.5	69.5	34.7	10.4	1.2
95°	170.2	132.0	93.8	57.9	27.8	6.9	1.2
97.5°	155.2	119.3	83.4	49.8	23.2	5.8	1.2
100°	142.5	107.7	74.1	44.0	19.7	4.6	1.2
102.5°	129.7	97.3	66.0	38.2	17.4	3.5	1.2
105°	119.3	88.0	59.1	34.7	15.1	3.5	1.2
107.5°	108.9	79.9	53.3	30.1	12.7	2.3	1.2
110°	98.4	73.0	47.5	26.6	11.6	2.3	1.2

TEST NUMBER: P1213476

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	90.3	66.0	42.9	24.3	9.3	2.3	1.2
115°	82.2	59.1	38.2	20.8	8.1	1.2	1.2
117.5°	74.1	53.3	33.6	18.5	6.9	1.2	1.2
120°	67.2	47.5	30.1	16.2	5.8	1.2	1.2
122.5°	60.2	42.9	26.6	13.9	4.6	1.2	1.2
125°	54.4	38.2	23.2	11.6	3.5	1.2	1.2
127.5°	48.6	33.6	20.8	10.4	3.5	1.2	1.2
130°	42.9	30.1	17.4	8.1	2.3	1.2	1.2
132.5°	38.2	25.5	15.1	6.9	2.3	1.2	1.2
135°	33.6	22.0	12.7	4.6	2.3	1.2	1.2
137.5°	29.0	18.5	10.4	3.5	1.2	1.2	1.2
140°	24.3	16.2	8.1	3.5	1.2	1.2	1.2
142.5°	20.8	12.7	5.8	2.3	1.2	1.2	1.2
145°	16.2	10.4	4.6	2.3	1.2	1.2	1.2
147.5°	12.7	8.1	3.5	2.3	1.2	1.2	1.2
150°	9.3	5.8	3.5	1.2	1.2	1.2	1.2
152.5°	6.9	4.6	2.3	1.2	1.2	1.2	1.2
155°	4.6	3.5	2.3	1.2	1.2	1.2	1.2
157.5°	3.5	2.3	1.2	1.2	1.2	1.2	1.2
160°	2.3	1.2	1.2	1.2	1.2	1.2	1.2
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2
165°	1.2	1.2	1.2	1.2	1.2	1.2	1.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)