

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: P1213731

Luminaire Tested: 4SNLED-LD5-25SL-RW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-25SL-RW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

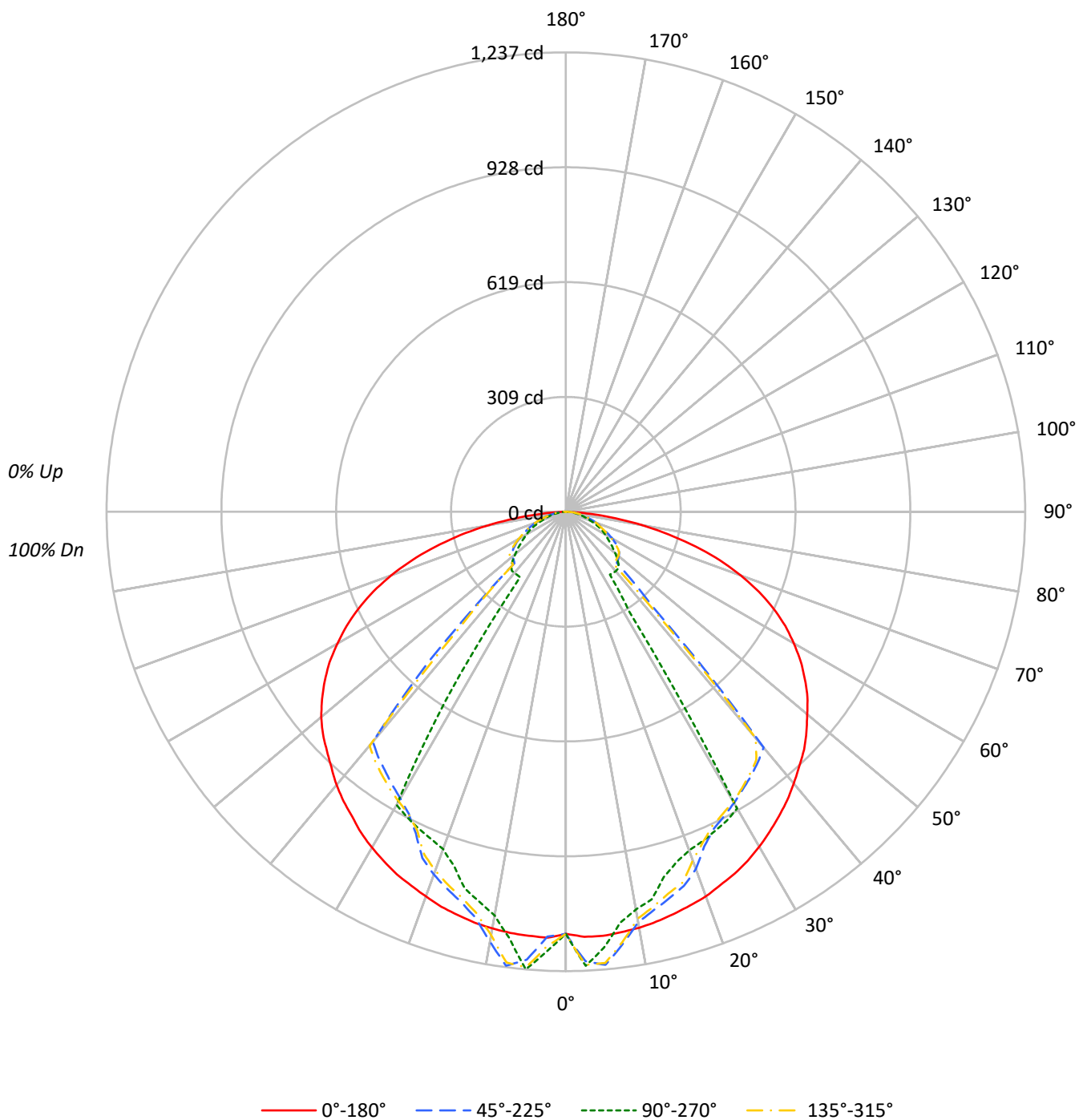
Lumens per Lamp: N/A
Luminaire Lumens: 2276.0 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 18
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9185	9185	9185	9185
5°	9275	9254	9271	9712
10°	9284	8367	9297	8495
15°	9305	7741	9326	7986
20°	9372	7342	9372	7315
25°	9453	7202	9467	7134
30°	9549	7075	9573	6991
35°	9660	1612	9680	1680
40°	9815	1676	9873	1730
45°	10050	1666	10085	1727
50°	10284	1507	10424	1547
55°	10601	1337	10686	1357
60°	10869	1189	10893	1204
65°	11062	1037	11034	1021
70°	10903	836	10869	806
75°	10122	644	10195	616
80°	8214	457	8547	418
85°	4447	273	4700	210

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 11137 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	4.9
10°-20°	307.5	13.5
20°-30°	455.4	20.0
30°-40°	458.9	20.2
40°-50°	358.4	15.7
50°-60°	276.9	12.2
60°-70°	185.9	8.2
70°-80°	94.8	4.2
80°-90°	26.4	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	874.7	38.4
0°-40°	1333.6	58.6
0°-60°	1968.9	86.5
0°-90°	2276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2276.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1137	1137	1137	1137	1137	
5°	1146	1178	1146	1237	1146	109
15°	1122	1018	1124	1051	1122	317
25°	1076	949	1077	940	1076	496
35°	1001	206	1003	215	1001	627
45°	907	200	910	208	907	699
55°	786	146	792	148	786	702
65°	617	98	616	96	617	607
75°	362	50	365	47	362	379
85°	65	16	69	12	65	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6
2.5°	1145.4	1149.6	1152.7	1154.8	1155.8	1155.8	1156.4	1156.9	1163.7	1166.8	1168.9
5°	1146.5	1150.6	1156.9	1165.2	1172.5	1178.8	1184.0	1191.3	1198.6	1206.4	1209.0
7.5°	1141.8	1147.0	1159.5	1174.6	1188.7	1198.6	1205.3	1210.0	1213.7	1214.2	1216.8
10°	1137.6	1147.0	1164.2	1184.0	1201.7	1213.7	1213.7	1211.1	1214.7	1200.6	1186.6
12.5°	1130.3	1140.7	1164.2	1190.2	1206.9	1211.6	1209.5	1199.1	1177.7	1160.5	1152.7
15°	1121.5	1135.5	1164.7	1193.9	1207.9	1209.5	1189.7	1163.1	1147.0	1136.6	1123.6
17.5°	1111.6	1130.3	1165.2	1194.4	1199.6	1192.3	1154.8	1138.1	1121.5	1097.0	1079.3
20°	1102.2	1120.4	1161.1	1187.1	1190.2	1157.4	1128.2	1110.5	1082.4	1061.0	1053.2
22.5°	1087.6	1109.0	1157.4	1177.2	1165.2	1127.2	1099.1	1070.9	1045.4	1039.2	1029.8
25°	1075.6	1098.0	1149.1	1165.2	1133.5	1099.6	1066.8	1034.0	1022.0	1013.1	1004.8
27.5°	1059.5	1087.1	1138.1	1143.3	1099.6	1069.9	1022.0	1007.4	996.5	986.6	982.9
30°	1041.8	1075.6	1123.0	1113.1	1071.5	1027.7	992.3	978.7	970.9	960.5	956.3
32.5°	1021.5	1058.4	1106.4	1078.2	1041.3	986.6	963.6	953.2	942.8	935.0	908.9
35°	1000.6	1043.3	1086.6	1044.9	1004.8	955.3	935.0	925.6	915.7	887.1	860.0
37.5°	979.3	1026.7	1062.6	1009.0	956.3	923.0	905.8	895.4	873.0	836.5	823.0
40°	954.8	1006.4	1031.9	972.0	914.2	890.2	874.0	863.6	813.1	797.0	792.8
42.5°	930.3	986.6	994.4	936.0	879.3	855.3	841.8	807.4	773.0	764.7	766.2
45°	906.9	965.2	953.2	885.0	842.8	823.0	800.1	752.7	734.5	738.6	739.7
47.5°	878.7	939.7	910.0	833.9	805.3	785.5	734.5	705.8	703.2	708.9	712.1
50°	848.5	911.0	864.2	787.6	764.7	741.2	683.4	668.8	671.9	677.7	681.3
52.5°	820.4	878.7	816.8	744.3	724.6	670.9	631.8	634.4	639.6	646.4	648.5
55°	786.0	839.7	766.2	700.6	681.8	611.5	593.8	600.1	605.3	611.0	615.2
57.5°	750.1	794.9	706.3	651.6	621.4	558.9	560.5	564.6	568.3	575.1	237.5
60°	708.9	743.8	640.7	606.3	546.4	517.2	518.8	526.1	529.7	295.9	163.6
62.5°	666.2	684.4	581.3	554.7	477.7	475.6	482.9	486.0	330.8	156.3	153.1
65°	617.3	613.6	523.0	480.8	430.8	432.9	440.7	425.0	146.4	146.4	145.3
67.5°	563.1	541.2	466.2	398.0	385.5	390.1	398.5	139.1	135.4	136.5	132.8
70°	501.1	470.4	407.3	337.0	341.2	345.9	134.4	126.1	124.5	121.9	114.6
72.5°	435.5	393.3	333.4	292.7	295.3	185.4	117.7	113.6	108.3	103.1	95.3
75°	362.0	307.3	244.8	244.8	248.5	105.7	102.6	95.8	90.1	83.3	78.7
77.5°	283.9	236.5	190.1	197.4	96.4	88.6	82.8	75.5	70.8	66.7	64.1
80°	207.8	165.1	143.2	128.1	75.0	67.2	61.5	57.3	55.2	52.6	49.5
82.5°	136.5	99.5	99.5	60.4	52.6	46.4	44.8	41.7	39.6	38.0	36.5
85°	65.1	57.8	43.8	37.0	32.8	29.7	28.6	27.1	27.1	26.6	26.0
87.5°	24.0	26.0	19.3	18.8	17.7	17.2	17.7	17.7	18.2	17.7	17.2
90°	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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6
2.5°	1174.1	1178.2	1181.4	1186.6	1193.4	1199.1	1204.3	1211.6	1223.0	1226.2	1228.8
5°	1209.0	1210.5	1214.2	1218.4	1219.4	1222.0	1221.5	1224.6	1226.2	1229.8	1222.0
7.5°	1211.1	1202.7	1192.8	1184.0	1177.7	1172.0	1168.3	1174.1	1177.2	1179.8	1172.0
10°	1167.3	1157.4	1151.7	1146.5	1140.2	1131.4	1119.4	1122.0	1120.9	1120.9	1118.3
12.5°	1139.7	1125.6	1111.1	1098.0	1092.3	1091.8	1092.3	1098.0	1098.0	1097.5	1094.4
15°	1096.5	1082.9	1075.6	1072.5	1072.5	1070.9	1070.9	1077.2	1075.6	1075.6	1074.1
17.5°	1067.8	1058.4	1053.2	1049.6	1048.0	1050.6	1053.8	1056.4	1056.9	1054.8	1046.5
20°	1044.4	1035.5	1029.3	1030.3	1029.8	1031.4	1032.9	1024.1	1013.1	998.5	991.8
22.5°	1019.9	1013.1	1008.4	1008.4	1002.2	992.3	977.7	974.6	973.0	966.2	960.5
25°	996.5	988.6	981.9	961.0	948.0	949.6	947.0	941.8	941.2	940.7	942.8
27.5°	973.0	952.7	926.7	923.5	918.3	917.8	920.9	923.5	923.5	925.6	928.2
30°	924.6	901.1	896.4	890.7	892.8	900.1	901.7	905.3	906.3	910.0	912.1
32.5°	880.3	869.9	865.7	868.3	875.1	881.3	885.0	886.5	889.2	892.3	894.9
35°	844.4	841.2	844.9	850.6	857.4	862.6	865.7	868.8	871.4	874.0	876.1
37.5°	817.8	819.9	825.1	832.4	839.1	843.3	845.9	849.6	853.2	856.3	843.8
40°	792.8	798.0	803.7	811.5	817.3	821.4	824.0	828.7	797.5	361.0	197.9
42.5°	770.9	776.6	780.8	787.1	793.3	796.4	773.5	345.3	195.3	194.3	196.9
45°	744.3	749.0	755.8	760.5	766.2	503.2	192.2	194.3	191.2	193.2	194.3
47.5°	717.3	724.6	728.2	694.9	206.8	191.2	189.1	191.2	189.1	191.7	190.1
50°	686.5	695.4	494.8	187.0	185.4	184.4	186.5	185.4	187.0	189.1	184.9
52.5°	655.3	405.8	181.3	180.2	181.3	180.2	183.9	181.3	181.8	179.7	174.5
55°	221.9	175.5	174.0	173.5	176.6	176.6	176.6	172.4	169.8	164.6	161.0
57.5°	169.8	169.8	169.3	169.8	168.8	167.7	163.0	159.4	155.7	148.5	146.4
60°	161.0	161.0	161.0	161.0	156.3	154.2	146.9	143.8	137.5	133.9	131.8
62.5°	153.7	152.6	147.9	146.4	141.2	135.4	131.3	128.1	121.9	119.8	118.2
65°	143.2	139.6	133.9	127.6	125.0	118.8	116.7	112.0	108.9	107.3	106.3
67.5°	126.1	120.8	116.2	112.0	107.3	105.2	102.6	99.0	96.9	95.8	94.8
70°	107.8	104.2	99.5	96.9	93.8	92.2	88.6	87.5	85.9	84.4	82.8
72.5°	90.1	88.0	85.9	82.3	81.3	80.2	76.6	74.5	72.4	70.3	69.3
75°	75.5	74.0	72.9	69.8	68.2	65.1	62.5	60.9	59.4	57.8	56.8
77.5°	62.0	60.9	57.8	55.7	54.7	52.1	51.0	51.6	50.5	48.4	47.4
80°	48.4	47.4	44.8	44.8	43.8	42.7	41.7	40.6	39.6	38.0	37.0
82.5°	37.0	35.9	34.9	33.9	32.8	32.3	31.8	30.7	29.7	28.6	28.1
85°	26.0	25.5	25.0	24.5	24.0	23.4	22.9	21.9	20.8	20.3	19.8
87.5°	17.7	17.2	16.7	16.1	15.6	15.1	14.6	14.1	13.0	12.5	12.0
90°	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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6
2.5°	1228.8	1231.4	1228.8	1223.0	1219.4	1217.8	1221.0	1221.0	1223.0	1225.6	1226.2
5°	1209.5	1203.2	1196.0	1188.7	1185.0	1182.9	1177.2	1178.2	1179.8	1180.9	1181.9
7.5°	1161.6	1153.2	1143.3	1134.0	1130.3	1127.2	1120.4	1120.4	1120.4	1120.9	1124.1
10°	1112.6	1109.0	1104.8	1098.6	1093.9	1092.3	1086.6	1088.1	1087.1	1088.7	1092.3
12.5°	1089.7	1085.5	1081.9	1075.6	1070.4	1068.3	1065.7	1067.3	1066.8	1069.4	1072.5
15°	1068.9	1066.8	1062.6	1057.9	1053.2	1049.1	1039.7	1036.6	1034.5	1031.9	1035.5
17.5°	1034.5	1019.9	1010.0	1002.7	997.5	993.9	991.2	991.2	992.8	994.4	997.5
20°	987.6	983.4	978.7	970.9	965.7	963.6	962.1	962.1	964.7	966.8	972.5
22.5°	955.3	954.8	953.2	949.6	947.0	947.0	947.5	948.5	952.2	955.3	961.0
25°	940.2	942.3	941.2	939.2	937.6	938.1	937.1	938.1	941.8	944.9	949.6
27.5°	928.2	931.3	930.3	927.2	924.6	925.6	927.2	926.1	929.3	932.9	936.6
30°	912.1	912.6	914.7	911.0	910.0	911.6	912.1	913.1	916.2	918.8	922.0
32.5°	893.8	898.0	897.5	893.8	893.8	895.4	895.9	861.0	795.9	685.5	655.3
35°	876.1	880.8	873.0	736.0	509.4	271.9	209.9	202.6	204.2	205.2	206.3
37.5°	648.0	307.3	195.9	197.4	199.0	200.5	202.1	203.7	205.2	206.8	207.3
40°	194.8	194.3	195.9	197.9	199.5	200.5	202.6	204.2	205.8	207.3	207.8
42.5°	192.7	193.8	195.3	197.4	199.5	201.6	203.1	205.2	206.3	207.3	207.8
45°	191.7	193.8	195.9	197.4	199.0	200.0	201.1	201.6	201.1	201.1	202.1
47.5°	190.1	192.2	192.7	192.2	192.7	192.2	192.2	192.2	190.6	190.1	190.1
50°	184.4	184.4	183.4	181.3	180.7	180.2	179.2	178.7	176.6	176.1	176.1
52.5°	172.4	171.9	170.3	167.7	166.7	165.6	165.1	164.6	162.5	161.5	162.0
55°	158.3	157.3	155.7	152.6	152.1	151.1	150.5	150.0	147.9	149.0	147.4
57.5°	145.3	143.2	141.2	140.6	138.6	138.0	137.5	137.0	135.4	136.0	134.9
60°	129.7	129.2	128.1	126.1	126.1	125.5	125.5	124.5	123.5	122.9	122.9
62.5°	118.2	116.7	115.6	115.6	114.1	114.1	114.1	113.0	112.0	112.5	112.0
65°	105.7	105.2	104.7	103.7	103.7	103.1	103.1	102.1	100.5	101.1	100.0
67.5°	95.3	94.3	93.2	92.7	90.6	89.6	89.1	88.6	86.5	87.0	85.9
70°	82.3	80.7	79.7	78.7	77.1	76.0	76.0	75.0	73.4	74.0	72.9
72.5°	68.8	67.7	66.7	66.2	64.6	64.1	63.5	63.0	61.5	62.0	61.5
75°	57.3	57.3	56.8	56.3	54.7	53.1	52.1	51.6	50.5	51.0	50.0
77.5°	47.4	46.4	45.3	45.3	43.8	42.7	41.7	41.7	41.7	41.2	40.6
80°	37.0	35.9	35.9	35.4	34.4	33.3	32.8	32.8	32.3	32.3	31.8
82.5°	28.1	27.1	26.6	26.6	25.5	25.0	24.5	24.0	24.0	24.0	23.4
85°	19.8	18.8	18.2	18.2	17.2	16.7	16.7	16.1	16.1	15.6	15.6
87.5°	12.0	11.5	10.9	10.9	9.9	9.4	9.4	9.4	8.9	8.9	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213731

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6
2.5°	1226.2	1226.2	1222.5	1223.6	1222.0	1224.1	1221.5	1221.5	1224.6	1224.6	1226.7
5°	1182.4	1179.8	1179.3	1178.2	1173.0	1175.1	1172.5	1169.9	1173.6	1173.6	1178.2
7.5°	1122.5	1117.8	1119.9	1116.8	1113.7	1109.0	1110.5	1108.4	1111.1	1114.7	1119.4
10°	1091.8	1087.6	1090.2	1087.1	1088.7	1081.9	1082.4	1082.9	1085.5	1086.6	1090.7
12.5°	1072.0	1070.9	1069.9	1068.9	1069.9	1066.3	1064.2	1064.7	1065.7	1066.3	1069.4
15°	1030.3	1023.5	1025.6	1018.3	1018.9	1019.4	1015.2	1019.4	1018.9	1025.6	1031.9
17.5°	996.5	996.5	992.8	989.7	987.6	987.1	984.0	986.0	984.0	988.1	989.7
20°	973.0	972.5	972.0	970.4	965.2	965.7	967.3	962.6	962.1	961.6	964.7
22.5°	962.1	962.6	960.5	960.5	955.8	956.9	957.4	952.2	952.7	951.1	952.7
25°	950.6	951.7	949.1	949.1	948.0	947.5	944.9	945.9	942.8	940.2	942.8
27.5°	937.1	939.2	937.1	938.1	936.0	935.0	933.4	932.4	929.3	928.7	930.3
30°	924.6	925.6	925.1	922.5	922.0	918.8	920.4	917.3	914.2	914.7	915.7
32.5°	474.0	452.7	349.0	315.1	312.0	323.5	383.4	466.7	604.8	738.6	835.0
35°	206.8	206.8	206.8	206.3	206.3	205.8	205.2	204.7	204.2	203.7	203.1
37.5°	207.8	207.8	207.8	207.8	207.3	206.8	206.8	205.8	205.2	204.7	204.2
40°	208.4	208.9	208.9	208.9	208.4	208.4	207.8	206.8	206.3	205.2	204.2
42.5°	207.8	208.4	208.4	207.8	207.8	207.3	207.3	206.8	206.3	205.8	205.2
45°	201.1	201.6	200.5	200.5	200.0	200.0	200.0	200.0	200.0	200.5	200.5
47.5°	189.1	189.1	188.6	188.0	188.0	187.5	188.0	187.5	188.6	189.1	190.1
50°	175.0	175.0	174.0	173.5	173.5	173.5	173.5	174.0	174.5	175.5	176.6
52.5°	160.4	160.4	159.9	159.4	158.9	158.9	160.4	159.9	160.4	161.0	162.5
55°	146.4	146.9	145.8	145.8	145.3	145.3	145.3	145.8	146.4	146.9	148.5
57.5°	134.4	134.4	133.3	133.3	133.3	132.8	134.4	133.3	133.9	134.4	135.4
60°	122.4	121.9	121.9	121.4	121.4	121.4	122.4	121.9	121.9	122.4	123.5
62.5°	111.5	111.5	110.9	110.9	110.4	110.4	111.5	110.9	110.9	111.5	112.0
65°	99.0	99.0	98.4	97.9	99.5	97.9	99.5	98.4	99.5	100.0	101.1
67.5°	84.9	84.9	84.9	84.4	84.4	85.4	85.9	84.9	85.4	86.5	87.0
70°	72.4	72.4	71.9	71.9	71.9	72.9	73.4	72.4	72.9	73.4	74.5
72.5°	61.5	60.4	60.4	59.9	60.9	60.9	61.5	60.9	61.5	61.5	62.5
75°	50.5	49.5	49.5	49.5	50.5	50.0	50.5	50.0	50.5	50.5	51.0
77.5°	40.6	40.1	39.6	39.6	40.6	40.6	40.6	40.1	40.6	41.2	41.7
80°	31.8	31.3	30.7	30.7	31.8	31.8	31.8	32.3	31.8	32.3	32.8
82.5°	23.4	22.9	22.4	23.4	23.4	23.4	23.4	24.0	23.4	24.0	24.5
85°	15.6	15.1	14.6	15.6	15.6	15.6	15.6	16.1	15.6	16.1	16.7
87.5°	8.3	7.8	7.8	8.3	8.3	8.3	8.9	8.9	8.9	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213731

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6
2.5°	1229.8	1231.4	1230.9	1227.7	1224.6	1221.0	1218.4	1218.9	1224.1	1225.6	1221.0
5°	1178.2	1188.1	1188.1	1194.9	1191.3	1188.1	1190.2	1201.7	1207.4	1216.3	1219.4
7.5°	1125.1	1129.8	1129.3	1136.1	1135.0	1135.0	1136.6	1151.7	1159.0	1166.3	1168.3
10°	1095.4	1100.1	1099.6	1100.1	1098.6	1094.9	1094.9	1101.7	1107.9	1111.6	1112.6
12.5°	1074.1	1076.7	1076.2	1076.2	1075.1	1072.0	1071.5	1077.2	1084.0	1088.7	1089.2
15°	1042.3	1049.6	1051.2	1057.9	1056.4	1052.2	1053.2	1057.9	1062.1	1066.3	1064.7
17.5°	994.9	998.5	999.1	1001.7	1000.6	1000.6	1006.9	1024.1	1035.5	1045.4	1046.5
20°	967.8	970.4	969.4	975.1	972.5	972.0	973.5	980.8	986.0	990.7	999.1
22.5°	954.8	956.9	955.3	955.8	951.1	947.0	945.9	951.7	957.4	963.6	963.6
25°	943.8	945.4	944.9	943.8	940.2	934.5	933.4	934.5	936.6	937.1	933.4
27.5°	930.8	931.9	931.9	932.4	927.7	922.5	921.4	920.4	922.5	922.0	916.2
30°	917.3	915.7	916.2	916.8	912.6	907.9	905.8	905.3	907.4	906.9	901.1
32.5°	885.0	897.0	898.0	899.1	895.4	891.2	889.2	887.6	888.6	888.1	882.9
35°	202.6	206.3	252.6	571.9	776.6	860.0	868.8	866.8	867.3	867.3	863.1
37.5°	203.1	202.6	202.1	200.5	199.0	197.9	342.2	729.8	845.4	845.9	842.3
40°	203.1	202.6	202.1	201.1	199.0	197.4	194.8	192.7	197.4	434.4	794.9
42.5°	204.2	203.1	202.1	201.1	199.0	196.9	194.8	192.2	193.8	192.7	190.1
45°	201.1	200.5	200.5	200.0	199.0	196.9	194.3	191.2	189.6	191.2	188.6
47.5°	191.2	191.7	193.2	193.8	193.8	194.3	192.7	190.6	188.0	189.6	186.5
50°	177.6	178.7	179.2	181.8	182.8	184.9	185.4	185.4	184.9	187.0	184.9
52.5°	163.0	164.1	166.7	167.7	168.8	171.9	172.9	174.5	175.5	178.7	180.7
55°	149.0	149.5	150.5	152.6	154.2	156.8	158.3	159.9	162.5	164.1	170.3
57.5°	136.0	136.5	138.6	139.1	140.1	142.2	143.8	145.8	147.9	149.0	156.3
60°	123.5	124.0	125.5	126.1	126.6	128.7	130.2	131.8	133.3	134.4	139.6
62.5°	112.5	112.5	114.1	114.1	114.6	116.2	117.2	118.2	119.8	120.3	122.9
65°	101.6	102.1	103.1	103.1	103.7	104.7	105.2	105.7	107.3	107.3	109.4
67.5°	88.0	88.6	90.1	91.2	91.7	93.8	94.3	94.8	95.8	96.4	97.4
70°	75.0	75.5	77.1	77.6	78.1	79.7	80.7	82.3	83.9	85.4	86.5
72.5°	63.0	63.5	65.1	65.1	66.7	67.2	68.2	68.8	70.3	71.4	72.9
75°	51.6	52.1	53.7	53.7	55.2	55.7	56.3	56.8	57.8	58.9	59.9
77.5°	42.2	42.2	44.3	45.3	46.4	46.4	46.9	46.9	46.9	47.4	48.4
80°	33.3	33.3	34.9	35.9	37.0	37.0	37.5	38.0	38.5	38.5	39.1
82.5°	25.0	25.0	26.6	27.1	28.1	28.1	28.1	28.6	29.2	28.6	29.7
85°	17.2	17.2	18.2	18.8	19.8	19.8	19.8	20.3	20.8	20.3	20.8
87.5°	9.9	10.4	10.9	11.5	12.0	12.5	12.5	12.5	13.0	13.0	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213731

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6
2.5°	1215.8	1209.5	1209.0	1201.7	1199.6	1200.1	1194.4	1192.3	1182.9	1180.9	1171.0
5°	1220.4	1223.6	1222.0	1221.5	1223.0	1222.0	1217.8	1215.8	1214.2	1210.0	1201.7
7.5°	1168.9	1171.0	1172.5	1179.3	1185.0	1194.9	1205.3	1212.1	1217.3	1218.4	1211.6
10°	1116.3	1126.2	1132.9	1143.3	1151.7	1157.4	1163.7	1169.4	1184.5	1199.6	1208.5
12.5°	1089.2	1091.8	1091.3	1097.0	1102.7	1117.8	1132.4	1140.7	1152.2	1159.0	1175.1
15°	1066.3	1066.8	1068.3	1072.5	1075.6	1080.8	1087.6	1100.1	1123.0	1133.5	1142.3
17.5°	1045.4	1045.4	1046.5	1050.1	1054.3	1059.0	1063.1	1068.3	1079.8	1097.0	1118.9
20°	1012.1	1026.7	1028.2	1027.7	1029.8	1038.6	1039.7	1049.1	1054.8	1061.6	1082.9
22.5°	962.6	971.5	984.0	1003.2	1010.5	1014.7	1017.8	1022.0	1030.8	1038.6	1047.5
25°	935.5	941.2	944.9	950.6	965.7	990.2	994.9	999.6	1005.3	1011.0	1022.0
27.5°	911.6	911.0	913.6	918.8	923.0	936.0	959.0	977.2	978.2	986.6	995.9
30°	894.4	891.2	887.6	886.5	892.3	899.1	905.8	934.5	954.3	958.4	968.3
32.5°	878.2	873.0	867.8	863.6	860.0	865.7	869.9	882.4	907.9	931.9	937.1
35°	858.4	853.2	847.0	842.3	836.5	836.0	835.5	847.5	855.8	884.5	909.5
37.5°	838.1	832.4	827.2	822.0	816.2	812.1	809.5	812.6	820.4	832.9	874.6
40°	816.8	810.0	804.8	800.6	792.8	789.7	784.5	782.4	782.9	793.8	815.7
42.5°	488.1	778.2	780.8	776.1	769.4	765.2	759.5	756.8	751.6	756.8	769.4
45°	188.0	190.1	569.3	752.2	743.8	738.6	733.4	730.8	725.1	720.9	732.4
47.5°	184.4	186.5	182.3	258.4	710.0	711.5	705.3	702.7	696.9	693.8	690.7
50°	181.8	183.4	180.2	181.3	177.6	650.6	676.6	673.5	667.3	663.6	657.4
52.5°	179.2	179.2	177.1	174.5	173.5	174.0	547.5	643.8	636.5	632.9	624.5
55°	170.9	171.9	174.0	169.8	168.8	168.2	166.7	521.4	602.7	598.5	591.2
57.5°	158.3	160.4	166.2	165.1	165.1	161.0	159.9	159.9	483.9	563.6	556.3
60°	143.8	145.8	152.1	154.2	155.7	154.7	153.7	153.1	151.1	509.9	519.3
62.5°	128.7	130.7	132.8	139.6	141.7	144.3	147.4	145.8	143.8	143.8	480.3
65°	112.5	115.6	116.7	122.9	125.5	130.2	132.8	136.5	135.4	134.9	137.5
67.5°	98.4	102.1	102.6	105.2	109.9	112.0	115.1	121.9	125.0	126.1	127.1
70°	86.5	88.6	90.1	91.2	94.3	94.8	100.5	105.2	109.9	115.1	116.7
72.5°	74.5	76.0	79.2	78.1	79.2	81.3	84.4	87.5	92.2	99.5	104.2
75°	60.9	62.0	64.1	65.1	67.2	68.8	70.8	73.4	77.6	81.3	87.5
77.5°	49.0	49.5	51.0	51.6	53.7	55.2	58.9	60.4	63.0	65.6	69.3
80°	39.6	39.6	40.1	40.1	41.7	43.2	45.8	47.4	50.5	52.6	52.6
82.5°	30.2	30.2	31.8	31.8	32.8	32.8	34.4	34.4	35.9	37.0	38.0
85°	21.4	21.9	22.9	22.4	23.4	22.9	24.0	25.0	25.5	25.0	24.5
87.5°	14.1	14.1	15.1	14.6	15.1	15.1	16.1	16.1	16.7	16.7	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213731

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6
2.5°	1167.3	1159.5	1154.8	1149.1	1147.5	1146.0	1148.0	1148.0	1144.9	1142.3	1137.6
5°	1194.4	1186.1	1177.2	1167.8	1159.0	1149.6	1146.0	1145.4	1139.7	1136.6	1135.0
7.5°	1208.5	1204.3	1194.4	1181.4	1167.8	1151.2	1143.9	1139.7	1134.0	1132.9	1132.9
10°	1210.0	1205.3	1200.1	1190.7	1175.1	1153.2	1139.2	1130.8	1125.6	1129.3	1136.1
12.5°	1194.9	1203.8	1199.1	1192.8	1180.3	1153.8	1133.5	1120.9	1119.4	1128.8	1146.5
15°	1156.4	1182.4	1195.4	1189.2	1179.3	1152.7	1124.1	1109.5	1109.5	1128.8	1151.7
17.5°	1127.2	1147.5	1179.3	1184.5	1173.0	1150.6	1115.2	1098.0	1102.7	1130.8	1155.3
20°	1103.2	1115.7	1146.5	1175.6	1164.7	1146.0	1102.2	1084.5	1093.9	1127.7	1160.5
22.5°	1065.7	1090.7	1109.5	1152.7	1156.4	1137.1	1089.2	1067.8	1086.6	1127.7	1157.9
25°	1029.3	1059.5	1079.3	1121.5	1143.9	1126.2	1077.2	1050.1	1078.8	1126.2	1155.8
27.5°	1003.7	1017.8	1053.8	1084.0	1125.1	1111.6	1061.0	1030.8	1068.9	1117.8	1143.9
30°	976.7	986.0	1021.5	1050.1	1100.1	1094.9	1044.4	1009.5	1056.4	1110.0	1112.6
32.5°	947.0	957.4	975.6	1017.3	1065.2	1079.3	1025.6	988.1	1042.8	1098.0	1076.2
35°	916.8	924.6	939.2	984.0	1024.6	1055.8	1002.7	963.6	1033.4	1079.8	1041.3
37.5°	886.5	894.9	907.4	944.9	981.9	1034.0	982.9	939.2	1016.3	1047.5	1004.8
40°	857.9	862.6	875.6	899.1	946.5	1011.6	960.5	913.6	998.5	1006.4	955.3
42.5°	805.3	828.7	840.7	859.5	906.3	980.8	934.5	886.5	978.7	965.2	905.8
45°	748.5	799.6	804.8	823.5	870.9	948.0	910.0	860.0	960.0	929.8	858.9
47.5°	702.2	739.1	769.4	785.0	828.7	909.5	887.1	837.6	931.9	885.0	813.1
50°	661.0	680.8	735.5	747.0	778.2	863.1	860.0	811.5	892.8	828.7	768.3
52.5°	620.9	635.0	684.4	708.9	734.5	813.1	827.7	786.0	850.1	772.5	723.0
55°	586.0	590.7	617.8	669.3	692.3	762.6	792.3	756.3	795.9	718.8	679.2
57.5°	550.1	545.9	565.7	631.8	648.5	711.0	754.8	726.1	752.2	664.1	633.9
60°	512.6	506.8	515.2	558.9	602.1	660.0	710.5	692.8	699.0	610.0	583.4
62.5°	473.5	467.8	465.2	492.8	556.8	607.4	665.7	655.8	633.9	560.5	520.9
65°	432.9	427.1	423.0	433.9	506.8	539.1	615.7	613.1	562.6	508.4	438.6
67.5°	131.8	388.6	379.7	379.2	427.1	477.1	561.5	557.3	490.7	452.7	377.6
70°	118.8	315.1	334.9	330.2	351.1	414.1	499.5	496.4	420.9	363.1	333.9
72.5°	108.9	111.5	295.9	290.7	295.3	352.1	434.9	426.6	356.8	286.5	288.6
75°	93.2	97.9	102.1	245.3	239.1	291.7	364.6	351.6	294.3	236.5	241.2
77.5°	76.0	81.8	84.9	178.7	193.2	207.8	291.2	274.0	202.6	189.1	90.1
80°	56.8	61.5	66.7	71.4	146.9	145.3	216.2	199.0	141.2	117.7	70.3
82.5°	41.7	43.2	46.4	51.6	58.3	97.4	139.1	122.4	97.9	53.7	48.4
85°	26.0	28.1	29.7	31.3	35.4	58.3	68.8	54.7	41.2	32.8	30.7
87.5°	16.7	16.7	16.1	16.7	17.2	20.8	23.4	22.4	17.7	16.7	16.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213731

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6
2.5°	1132.4	1125.1	1125.1	1123.0	1124.6	1124.6	1124.1	1124.6	1128.2	1130.3	1134.0
5°	1131.9	1129.8	1134.5	1140.2	1147.0	1155.3	1157.4	1164.7	1171.5	1180.3	1189.7
7.5°	1138.7	1146.0	1154.8	1164.2	1177.7	1187.6	1196.5	1205.3	1211.6	1219.9	1225.1
10°	1148.6	1163.1	1178.2	1190.2	1204.8	1213.1	1218.9	1219.9	1211.1	1197.0	1185.5
12.5°	1162.6	1179.8	1193.9	1205.3	1212.1	1209.0	1192.3	1175.1	1165.2	1150.6	1130.3
15°	1174.6	1190.2	1204.8	1200.1	1181.9	1164.7	1151.7	1131.4	1111.6	1098.0	1089.2
17.5°	1179.8	1194.9	1189.7	1165.2	1148.0	1128.2	1101.7	1086.0	1073.0	1062.6	1057.4
20°	1182.9	1180.3	1152.2	1134.5	1101.2	1082.9	1065.7	1051.2	1041.3	1036.0	1035.0
22.5°	1174.6	1142.8	1118.9	1087.1	1062.6	1047.5	1034.0	1022.0	1015.2	1011.0	1008.4
25°	1147.0	1110.0	1074.6	1049.6	1028.8	1015.7	1005.3	995.4	987.1	985.0	979.8
27.5°	1108.4	1078.2	1031.4	1012.1	993.9	987.6	976.1	966.2	959.0	952.7	936.0
30°	1076.7	1028.8	994.9	977.2	966.2	959.0	945.9	935.5	923.0	900.1	890.7
32.5°	1037.6	990.2	957.9	948.0	934.5	928.2	913.6	890.7	871.4	862.1	861.5
35°	987.1	948.0	924.6	915.7	904.8	894.4	864.2	843.3	833.9	835.0	842.8
37.5°	944.9	910.0	894.9	882.4	869.9	843.3	817.8	807.9	810.5	815.7	819.4
40°	902.2	875.6	858.4	848.5	820.4	794.4	780.8	784.5	789.1	792.8	797.5
42.5°	860.5	841.8	824.6	805.3	766.7	752.7	755.8	760.5	764.7	769.9	774.6
45°	820.9	804.2	784.5	740.7	721.4	725.1	729.8	733.4	739.7	743.3	748.0
47.5°	783.4	765.7	730.8	692.3	690.2	697.5	701.6	706.3	711.0	701.6	387.0
50°	741.2	723.0	669.9	655.3	660.0	666.7	671.9	676.6	602.7	239.6	184.4
52.5°	699.6	653.2	619.3	623.5	628.2	636.0	639.6	475.0	189.1	180.2	180.7
55°	653.2	593.8	583.9	589.1	593.3	601.1	398.5	174.5	173.5	172.9	177.1
57.5°	580.3	544.3	548.5	553.7	557.9	393.8	169.8	168.8	169.3	169.8	170.3
60°	515.2	507.3	512.0	516.7	365.7	164.1	161.0	161.5	163.6	162.0	157.8
62.5°	463.6	469.8	474.5	415.7	155.7	154.2	155.7	154.2	150.5	147.9	142.7
65°	424.0	430.3	433.9	146.4	145.8	147.9	146.4	141.2	135.4	128.1	126.6
67.5°	382.3	388.6	139.1	135.4	137.5	134.9	128.7	122.4	118.2	112.0	109.4
70°	339.1	145.3	126.1	125.5	121.9	117.7	110.9	104.7	99.5	96.9	94.3
72.5°	244.8	115.1	113.6	109.4	103.1	97.4	91.7	88.0	85.4	83.9	82.3
75°	102.1	100.0	95.3	88.0	81.8	79.2	75.0	72.4	71.4	68.2	67.2
77.5°	85.4	81.3	74.5	69.3	65.6	64.1	60.9	57.8	56.3	55.7	53.7
80°	65.6	59.9	56.8	54.2	53.1	49.5	45.8	44.3	43.2	42.7	41.2
82.5°	44.8	42.7	40.6	37.0	37.0	35.4	33.9	32.8	31.8	31.8	30.7
85°	29.2	27.6	27.1	25.5	25.5	24.5	24.0	23.4	22.9	22.4	21.9
87.5°	16.7	16.7	17.2	16.7	16.7	16.1	15.6	15.1	14.6	14.6	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213731

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6
2.5°	1138.7	1143.9	1144.9	1162.6	1172.5	1172.0	1168.9	1178.2	1172.5	1169.4	1172.5
5°	1199.1	1205.3	1210.5	1229.8	1236.6	1239.7	1239.2	1244.4	1240.2	1236.6	1236.6
7.5°	1228.8	1230.9	1232.9	1228.3	1225.1	1219.9	1212.1	1200.6	1194.9	1188.7	1180.9
10°	1179.8	1173.0	1175.6	1166.3	1158.5	1152.7	1145.4	1136.1	1128.2	1122.5	1113.7
12.5°	1119.9	1119.4	1120.4	1122.0	1114.2	1109.5	1103.8	1097.0	1091.3	1085.0	1077.7
15°	1083.4	1084.0	1088.1	1086.6	1084.0	1081.4	1075.1	1073.0	1067.8	1061.0	1056.9
17.5°	1057.4	1060.0	1064.2	1062.1	1057.9	1055.3	1050.6	1045.9	1041.3	1036.0	1029.8
20°	1034.5	1037.1	1039.7	1037.1	1029.3	1025.6	1019.4	1004.8	994.4	984.0	974.6
22.5°	1009.5	1011.0	1009.0	1000.6	980.8	971.5	964.2	960.0	951.1	945.4	939.7
25°	978.2	969.4	955.8	946.5	938.6	934.5	931.3	930.8	929.8	928.7	926.1
27.5°	927.2	924.1	916.8	913.1	913.6	915.2	915.7	917.3	915.7	913.6	911.6
30°	889.2	890.7	891.2	892.3	894.9	896.4	897.0	899.1	898.0	896.4	895.4
32.5°	865.2	868.8	870.9	874.0	875.6	878.2	878.2	881.3	878.2	877.7	876.7
35°	845.4	848.5	849.6	854.3	855.8	858.4	858.4	861.0	858.4	831.9	656.8
37.5°	825.6	828.7	830.8	835.0	835.5	837.1	772.5	565.2	364.6	282.3	215.6
40°	802.2	805.8	807.9	809.5	568.8	361.0	248.5	202.1	202.1	203.7	205.2
42.5°	777.2	779.8	543.3	316.2	196.9	196.4	197.9	199.5	201.1	203.1	205.2
45°	611.0	308.4	195.9	191.2	192.7	194.8	196.9	199.0	201.6	203.7	204.7
47.5°	200.5	188.0	190.6	188.6	191.2	193.8	195.9	197.9	198.5	199.0	198.5
50°	185.4	185.4	187.0	187.0	189.1	190.1	190.1	190.1	188.0	187.5	186.0
52.5°	179.2	183.4	181.3	182.3	181.3	179.7	178.1	176.6	173.5	172.4	170.3
55°	176.1	177.6	172.4	170.9	168.8	164.6	162.5	160.4	157.8	156.8	154.2
57.5°	168.8	165.1	159.4	156.8	153.1	149.0	146.9	145.3	142.7	141.7	140.1
60°	155.2	147.9	144.3	141.2	137.0	133.3	131.8	130.7	128.7	128.1	126.6
62.5°	138.6	132.3	129.2	125.0	121.9	119.8	118.2	117.7	115.6	115.6	114.6
65°	120.3	117.2	114.6	110.4	108.9	106.8	106.3	105.7	104.7	104.2	103.1
67.5°	105.7	103.7	100.0	97.9	96.9	95.3	94.3	93.2	91.2	90.1	88.6
70°	92.7	91.2	87.5	85.9	83.9	81.3	79.7	78.7	77.1	76.0	74.5
72.5°	80.2	75.5	72.9	71.4	69.8	67.2	66.7	65.6	64.1	63.5	62.0
75°	64.6	60.9	59.4	58.3	56.8	55.2	55.2	55.2	53.7	53.1	52.6
77.5°	51.6	49.5	48.4	47.4	46.9	45.8	44.3	43.8	42.2	42.2	41.7
80°	39.6	38.5	37.5	37.0	36.5	35.4	34.4	33.9	32.3	32.3	31.8
82.5°	29.2	28.6	28.1	27.6	27.1	26.6	25.0	24.5	23.4	23.4	22.9
85°	20.8	20.3	19.3	18.8	18.8	18.2	16.7	16.1	15.1	15.1	15.1
87.5°	13.0	12.5	12.0	11.5	10.9	10.4	9.4	8.9	8.9	7.8	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213731

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6
2.5°	1166.3	1175.1	1174.1	1180.3	1181.9	1185.0	1186.1	1186.6	1178.8	1185.0	1185.5
5°	1235.0	1236.6	1237.6	1240.2	1242.8	1243.4	1240.8	1237.6	1238.7	1236.6	1231.4
7.5°	1179.8	1172.0	1170.4	1168.3	1167.3	1166.3	1161.6	1165.7	1161.1	1159.0	1151.7
10°	1112.1	1104.8	1104.3	1104.3	1105.8	1105.3	1104.3	1102.2	1106.4	1103.8	1102.2
12.5°	1076.7	1074.1	1075.6	1074.6	1078.8	1079.8	1078.8	1078.8	1077.7	1075.6	1076.7
15°	1055.3	1053.2	1054.8	1053.2	1056.4	1056.9	1054.3	1055.8	1053.2	1050.6	1049.6
17.5°	1027.2	1022.5	1018.9	1013.6	1014.2	1013.1	1010.0	1010.0	1007.4	1000.6	1001.1
20°	973.0	968.3	966.2	966.2	968.9	969.9	969.4	970.4	967.8	966.8	962.6
22.5°	939.2	938.6	939.7	942.3	946.5	952.2	952.7	952.7	952.7	952.2	947.0
25°	927.2	927.2	928.2	931.9	935.0	939.2	940.2	941.2	940.2	940.2	935.5
27.5°	913.6	912.6	914.7	918.3	922.0	925.1	927.7	928.2	926.7	926.7	928.2
30°	897.0	896.4	899.1	902.7	905.8	908.9	911.6	913.6	911.6	911.6	910.0
32.5°	879.8	879.8	880.8	858.9	796.4	717.3	718.8	673.0	641.2	601.1	654.2
35°	549.0	399.5	343.3	290.7	253.7	229.7	229.2	221.4	217.7	215.1	214.6
37.5°	207.3	208.4	210.4	211.5	213.0	214.1	214.6	214.6	214.6	214.6	214.1
40°	206.8	208.9	210.4	212.0	213.6	214.6	214.6	215.1	215.6	215.6	215.6
42.5°	207.3	209.4	211.5	213.0	214.1	214.6	215.1	215.6	215.6	215.6	215.6
45°	206.8	207.8	207.8	208.4	208.4	208.4	208.9	208.9	208.4	207.8	208.9
47.5°	199.0	199.0	197.4	196.9	196.4	195.3	195.9	195.3	194.8	194.3	195.3
50°	185.4	183.4	182.3	181.3	180.7	179.7	180.2	179.7	179.2	178.1	179.7
52.5°	169.3	168.8	166.7	165.6	165.1	165.6	164.6	164.1	163.6	163.0	163.6
55°	153.7	151.6	151.1	150.0	149.5	150.0	149.5	149.0	148.5	147.9	148.5
57.5°	139.6	138.0	137.5	136.5	136.5	136.5	136.5	136.0	135.4	134.9	135.4
60°	126.1	125.0	124.5	124.5	124.0	124.0	124.0	123.5	122.9	122.9	123.5
62.5°	114.6	114.6	113.0	112.5	112.5	113.0	112.5	112.0	111.5	110.9	112.0
65°	102.6	100.5	100.0	99.0	97.9	98.4	97.9	97.4	96.9	96.4	97.4
67.5°	88.0	87.5	85.4	84.4	83.9	84.4	83.9	83.3	82.8	82.3	83.3
70°	74.0	74.0	71.9	71.4	70.8	70.8	70.3	70.3	69.8	69.3	70.3
72.5°	61.5	61.5	60.9	59.9	59.4	58.9	58.3	57.8	57.8	58.3	58.3
75°	51.0	50.0	47.9	48.4	47.9	47.4	47.4	46.9	46.4	47.4	46.9
77.5°	40.1	39.6	38.0	38.5	38.0	37.5	37.5	37.0	36.5	37.0	37.0
80°	30.2	30.2	29.7	29.2	29.2	28.6	28.1	28.1	27.6	28.1	28.1
82.5°	21.9	21.9	21.4	20.8	20.3	20.3	19.8	19.8	19.8	19.8	19.8
85°	14.1	13.5	13.5	12.5	12.5	12.5	12.0	12.0	12.0	12.0	12.0
87.5°	6.8	6.8	6.3	6.3	5.7	5.2	5.2	4.7	4.7	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213731

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6
2.5°	1176.2	1182.9	1177.2	1179.8	1180.3	1189.2	1188.7	1190.7	1187.1	1182.9	1177.2
5°	1236.1	1232.9	1228.8	1238.7	1233.5	1239.7	1241.8	1246.0	1246.0	1245.4	1240.8
7.5°	1159.5	1152.7	1157.9	1161.6	1163.1	1159.0	1167.3	1176.7	1184.5	1189.2	1189.7
10°	1099.6	1101.7	1101.2	1102.7	1106.4	1105.8	1111.1	1116.3	1118.3	1121.5	1122.5
12.5°	1071.5	1070.9	1072.0	1075.6	1077.7	1077.2	1082.4	1085.5	1086.6	1087.1	1086.6
15°	1049.1	1045.4	1048.0	1048.5	1050.1	1050.1	1056.4	1061.0	1063.1	1064.2	1063.1
17.5°	1006.9	998.0	1006.4	1006.4	1012.1	1011.0	1020.9	1028.8	1032.9	1036.0	1036.0
20°	965.2	961.0	964.2	963.1	967.3	966.8	973.0	978.2	981.9	984.5	987.6
22.5°	948.5	949.6	944.9	945.4	945.4	944.9	948.0	950.6	951.7	953.2	952.2
25°	937.6	938.6	937.1	934.5	933.4	934.5	936.0	939.2	939.7	938.6	935.0
27.5°	926.7	923.5	926.1	921.4	920.4	922.5	924.6	925.1	925.6	925.6	922.5
30°	910.0	907.4	910.0	907.9	905.8	907.9	909.5	909.5	910.5	911.0	907.4
32.5°	636.0	641.2	725.6	776.6	848.5	885.0	891.8	891.8	892.8	892.8	889.7
35°	216.7	217.2	234.9	254.7	296.9	349.0	417.2	452.7	572.5	715.7	854.3
37.5°	214.1	213.6	213.0	212.5	212.0	211.5	210.4	209.9	213.0	252.6	342.7
40°	215.1	214.6	213.6	213.0	212.5	211.5	211.0	209.9	208.9	207.8	206.8
42.5°	215.1	214.6	214.1	213.6	213.0	212.5	211.5	210.4	209.4	207.8	206.3
45°	207.8	207.8	208.4	208.4	208.9	208.9	208.9	208.4	208.4	207.8	205.8
47.5°	194.3	194.3	195.9	195.9	196.9	197.9	197.9	199.0	200.5	201.6	202.1
50°	178.7	178.7	180.2	180.7	181.8	183.4	184.9	185.4	187.0	189.1	191.2
52.5°	163.0	163.0	164.6	164.6	165.6	167.2	168.8	169.3	171.4	173.5	176.1
55°	148.5	148.5	149.5	150.0	150.5	151.6	153.1	153.1	155.2	156.8	159.4
57.5°	135.4	136.5	136.5	136.5	137.0	138.0	139.1	139.1	140.6	142.2	144.3
60°	122.9	124.0	124.0	124.0	124.5	125.0	126.1	126.1	127.1	128.1	130.2
62.5°	111.5	112.5	112.5	113.0	113.0	113.6	114.6	114.1	115.1	115.6	117.2
65°	96.9	97.9	98.4	99.0	99.5	100.5	102.1	101.6	103.1	104.2	105.7
67.5°	82.8	83.9	83.9	84.4	84.9	85.9	87.0	87.0	88.6	89.6	91.7
70°	69.8	70.8	70.8	71.4	71.9	72.9	74.0	73.4	75.0	76.0	77.6
72.5°	57.8	58.9	58.9	59.4	59.4	60.4	61.5	62.5	62.5	63.5	64.6
75°	46.9	47.4	47.9	47.9	48.4	49.0	50.0	51.0	51.6	52.1	53.1
77.5°	37.0	37.5	38.0	38.0	38.5	39.1	39.6	41.7	42.7	43.2	43.2
80°	28.1	28.6	28.6	28.6	29.2	29.7	30.7	30.7	32.8	32.8	33.3
82.5°	19.8	20.3	20.3	20.3	20.8	21.9	22.4	22.9	24.0	24.5	24.5
85°	12.0	12.5	12.5	12.5	13.0	13.5	14.6	15.1	15.6	15.6	16.1
87.5°	4.7	5.2	5.7	5.7	6.3	6.8	7.3	7.8	8.3	8.3	8.9
90°	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-LD5-25SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6
2.5°	1171.0	1174.6	1171.0	1173.0	1175.6	1171.0	1160.0	1155.8	1154.3	1148.0	1143.9
5°	1236.1	1236.1	1234.5	1238.7	1238.1	1230.9	1219.4	1214.2	1209.0	1202.2	1197.0
7.5°	1189.7	1193.9	1196.5	1212.6	1223.0	1224.1	1231.4	1232.9	1235.0	1232.9	1229.8
10°	1123.0	1121.5	1128.8	1143.9	1152.7	1157.4	1171.5	1178.2	1184.0	1195.4	1207.4
12.5°	1085.5	1087.6	1090.7	1101.7	1110.0	1107.9	1113.7	1118.3	1125.1	1136.6	1153.8
15°	1060.5	1062.6	1065.7	1074.1	1079.3	1076.7	1079.8	1082.9	1087.6	1093.3	1103.8
17.5°	1033.4	1037.1	1040.7	1049.6	1054.3	1053.8	1056.4	1057.4	1059.0	1062.6	1069.9
20°	991.2	1002.7	1010.0	1022.0	1028.8	1027.7	1032.4	1034.0	1036.0	1039.7	1042.8
22.5°	952.7	955.8	959.5	972.5	984.0	998.0	1001.1	1005.3	1010.5	1014.2	1017.3
25°	930.8	928.7	930.3	939.2	945.4	946.5	951.1	964.7	978.7	985.0	992.3
27.5°	917.8	915.7	915.2	919.4	920.4	917.8	916.8	920.9	931.3	941.8	963.6
30°	903.7	901.1	899.1	902.7	904.3	900.6	893.8	890.2	896.4	899.1	907.9
32.5°	887.1	884.5	883.4	885.5	886.5	883.4	876.1	872.0	870.9	868.8	870.9
35°	868.3	865.7	864.2	864.7	866.8	864.2	857.9	852.7	850.1	844.4	840.2
37.5°	447.4	633.9	823.0	842.8	844.9	844.4	838.1	832.4	829.8	823.0	820.9
40°	204.7	228.7	343.3	448.5	646.9	822.0	816.2	810.5	805.8	803.7	795.9
42.5°	204.2	204.7	205.2	202.6	251.1	427.6	631.3	788.1	785.0	779.8	774.0
45°	204.2	201.6	203.7	200.5	201.6	201.1	250.5	404.2	719.3	751.6	749.0
47.5°	202.1	200.5	202.6	200.0	196.9	198.5	196.4	199.0	310.4	526.6	721.4
50°	192.7	193.8	197.4	196.9	194.3	196.4	192.7	195.9	193.2	212.0	408.4
52.5°	178.7	180.7	184.4	187.5	188.6	191.2	190.1	191.2	189.1	189.6	190.1
55°	162.0	164.6	167.7	172.4	174.5	178.7	181.8	183.4	186.0	185.4	181.3
57.5°	146.4	149.0	151.6	156.3	161.0	163.0	168.8	171.9	178.7	177.1	176.1
60°	131.8	133.9	136.5	137.5	143.2	146.9	152.1	155.2	164.1	166.2	169.3
62.5°	118.8	119.8	121.9	123.5	127.1	130.7	133.3	138.6	143.2	150.0	154.7
65°	106.8	107.8	109.4	110.4	110.9	116.2	117.7	123.5	125.0	132.3	136.5
67.5°	93.2	95.3	97.4	98.4	99.5	102.6	103.7	106.3	109.9	113.0	118.2
70°	79.2	80.7	82.8	84.4	86.5	88.6	91.7	93.2	95.8	97.9	102.1
72.5°	66.2	67.7	68.8	70.3	71.9	73.4	76.0	79.7	81.8	85.4	86.5
75°	53.7	55.2	56.3	57.3	58.9	59.9	60.9	64.6	66.7	69.8	72.9
77.5°	44.3	44.3	45.3	48.4	47.9	47.9	49.0	51.0	52.6	54.7	57.8
80°	34.4	34.9	35.4	38.0	38.5	39.1	38.5	40.1	41.7	42.2	44.3
82.5°	25.5	26.0	26.0	27.6	29.2	29.2	29.2	29.7	31.3	31.8	32.8
85°	17.2	17.7	18.2	18.8	19.8	20.3	20.8	20.8	21.9	22.4	22.9
87.5°	9.4	10.4	10.9	11.5	12.0	12.5	13.0	13.5	14.1	14.6	15.1
90°	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):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6
2.5°	1142.3	1139.7	1138.1	1134.0	1132.9	1126.2	1127.2	1126.2	1126.2	1127.7	1132.9
5°	1191.3	1178.8	1175.6	1166.8	1159.5	1147.0	1139.2	1135.0	1128.8	1126.2	1129.8
7.5°	1224.6	1215.2	1207.4	1199.6	1189.2	1174.6	1163.7	1151.2	1140.7	1130.8	1128.2
10°	1218.9	1229.3	1229.3	1224.6	1214.7	1200.1	1187.1	1171.5	1153.2	1137.6	1128.2
12.5°	1170.4	1188.7	1203.2	1214.2	1224.1	1214.2	1201.2	1188.7	1168.3	1145.4	1128.2
15°	1117.3	1136.1	1154.3	1177.2	1201.2	1211.1	1210.5	1196.0	1177.7	1153.8	1129.8
17.5°	1079.8	1092.8	1102.7	1127.7	1156.9	1182.4	1199.6	1200.6	1182.9	1161.6	1130.3
20°	1051.7	1061.0	1069.4	1083.4	1109.0	1140.2	1172.0	1189.7	1186.6	1163.1	1131.9
22.5°	1026.1	1032.9	1039.7	1050.1	1070.4	1090.7	1127.7	1164.2	1179.8	1160.5	1130.3
25°	1000.6	1007.9	1013.1	1020.4	1036.6	1053.2	1079.3	1124.6	1159.5	1158.5	1127.2
27.5°	970.4	980.3	986.6	996.5	1007.4	1019.9	1037.6	1080.3	1130.3	1148.0	1118.9
30°	934.0	948.5	957.9	968.9	978.2	989.2	1003.2	1029.3	1091.3	1127.7	1110.0
32.5°	881.3	907.4	928.2	938.6	949.1	958.4	970.9	992.8	1043.3	1100.1	1100.1
35°	843.8	855.8	874.6	904.8	917.8	927.2	938.6	955.8	988.1	1067.3	1084.0
37.5°	814.7	819.4	828.7	858.4	882.9	898.0	909.5	920.4	952.2	1022.5	1063.1
40°	792.8	791.2	790.2	804.2	839.1	863.1	876.1	887.1	911.6	968.9	1035.5
42.5°	767.3	765.7	760.5	764.1	781.3	821.4	841.2	853.2	873.5	912.6	1005.3
45°	740.7	738.1	736.0	732.4	738.6	761.0	801.6	819.4	830.8	865.7	967.3
47.5°	713.6	710.0	707.4	704.2	700.6	711.0	749.6	781.3	801.1	823.0	921.4
50°	675.1	679.8	676.6	673.0	669.9	667.8	683.9	736.0	760.5	778.2	865.7
52.5°	318.3	618.8	644.9	641.2	637.0	633.4	637.0	676.6	720.9	735.0	798.5
55°	181.3	275.5	573.5	606.3	602.7	597.5	594.3	607.9	674.0	692.8	737.1
57.5°	174.5	175.0	253.2	546.4	566.7	562.0	558.4	561.5	617.8	649.5	683.4
60°	168.8	168.8	168.8	241.7	522.4	524.0	519.3	514.1	538.6	601.1	629.2
62.5°	156.3	159.4	161.0	161.0	238.6	483.9	479.2	477.7	478.7	542.8	575.1
65°	140.1	147.4	150.5	152.6	152.6	250.5	438.1	435.5	431.8	456.3	520.4
67.5°	122.4	129.7	136.5	140.6	141.2	145.8	261.5	392.2	387.0	387.5	462.0
70°	104.2	110.4	117.7	124.0	129.7	132.3	136.5	325.6	342.7	335.5	395.9
72.5°	90.1	92.7	97.9	104.2	110.9	117.2	120.8	129.7	297.4	289.6	301.1
75°	75.0	77.1	80.7	84.9	90.1	97.4	103.7	109.9	157.8	242.7	241.2
77.5°	58.3	62.0	66.2	68.8	71.4	76.6	84.9	91.2	97.4	164.1	193.2
80°	44.8	47.4	49.5	52.1	55.2	58.9	62.0	69.3	76.6	82.3	147.9
82.5°	33.3	34.9	36.5	37.5	38.5	40.6	46.4	49.0	53.7	58.9	69.8
85°	23.4	24.5	25.5	26.0	26.6	27.1	29.2	29.7	34.4	35.4	42.2
87.5°	15.1	15.6	16.7	17.2	17.2	17.7	18.2	18.2	18.2	17.2	20.8
90°	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-LD5-25SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1136.6	1136.6
2.5°	1137.1	1145.4
5°	1135.5	1146.5
7.5°	1131.4	1141.8
10°	1125.1	1137.6
12.5°	1118.3	1130.3
15°	1112.6	1121.5
17.5°	1106.4	1111.6
20°	1098.0	1102.2
22.5°	1089.7	1087.6
25°	1080.3	1075.6
27.5°	1068.3	1059.5
30°	1057.4	1041.8
32.5°	1047.0	1021.5
35°	1032.9	1000.6
37.5°	1018.3	979.3
40°	1001.1	954.8
42.5°	982.9	930.3
45°	960.0	906.9
47.5°	939.7	878.7
50°	911.6	848.5
52.5°	877.2	820.4
55°	836.5	786.0
57.5°	792.8	750.1
60°	745.9	708.9
62.5°	689.1	666.2
65°	622.5	617.3
67.5°	535.5	563.1
70°	439.1	501.1
72.5°	367.2	435.5
75°	301.1	362.0
77.5°	238.6	283.9
80°	149.0	207.8
82.5°	100.0	136.5
85°	60.4	65.1
87.5°	23.4	24.0
90°	0.0	0.0

(END OF REPORT)