

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: P1213347

Luminaire Tested: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

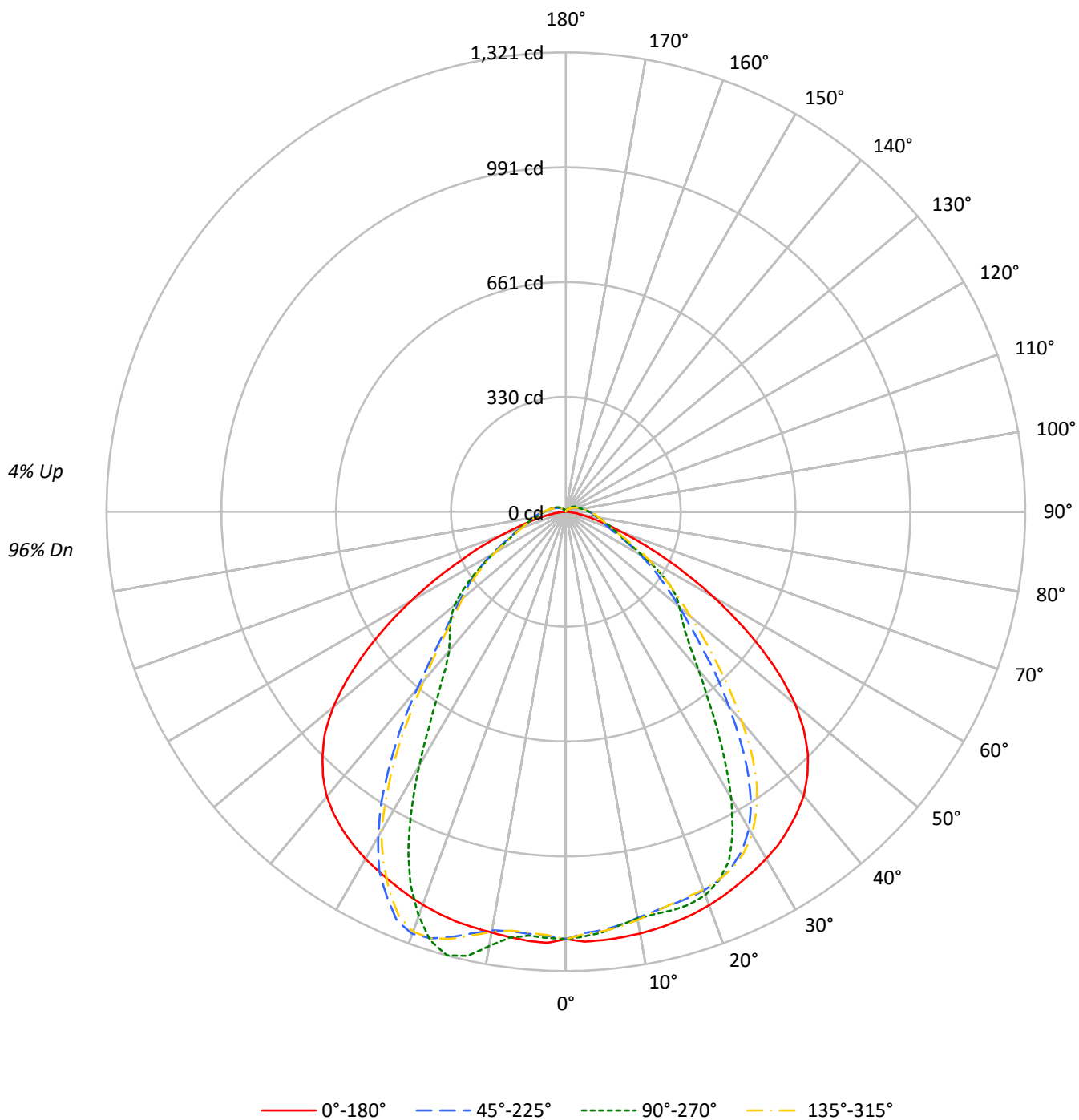
Lumens per Lamp: N/A
Luminaire Lumens: 2929.0 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 27
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1213347

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213347

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19857	19857	19857	19857
5°	19948	19069	19989	19220
10°	19985	18277	19943	19518
15°	20084	18032	20074	20079
20°	20246	17747	20224	18708
25°	20431	16835	20421	16268
30°	20748	14591	20759	12927
35°	21077	11799	21137	9985
40°	21348	9500	21436	8370
45°	21174	8047	21284	7836
50°	20153	7409	20433	7244
55°	17764	6659	18206	6053
60°	14289	5097	15050	4674
65°	10508	3898	11321	3697
70°	7037	3366	7933	3217
75°	4496	3038	5236	2871
80°	2790	2832	3271	2606
85°	1309	2825	1720	2580

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 21284 cd/sqm

TEST NUMBER: P1213347

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	4.0
10°-20°	347.2	11.9
20°-30°	527.9	18.0
30°-40°	566.3	19.3
40°-50°	491.5	16.8
50°-60°	364.2	12.4
60°-70°	208.7	7.1
70°-80°	115.6	3.9
80°-90°	70.4	2.4
90°-100°	45.8	1.6
100°-110°	30.6	1.0
110°-120°	20.7	0.7
120°-130°	12.7	0.4
130°-140°	6.7	0.2
140°-150°	3.0	0.1
150°-160°	0.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	991.9	33.9
0°-40°	1558.2	53.2
0°-60°	2413.9	82.4
0°-90°	2808.6	95.9
90°-120°	97.1	3.3
90°-150°	119.5	4.1
90°-180°	120.0	4.1
0°-180°	2929.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1229	1229	1229	1229	1229	
5°	1236	1214	1239	1224	1236	118
15°	1220	1186	1220	1321	1220	345
25°	1179	1109	1178	1072	1179	545
35°	1115	755	1118	639	1115	698
45°	984	484	989	472	984	754
55°	687	363	704	330	687	609
65°	312	184	336	174	312	314
75°	89	117	103	110	89	101
85°	12	81	16	74	12	16
90°	0	67	1	62	0	1
95°	1	55	0	53	1	0
105°	1	41	1	39	1	1
115°	1	34	1	30	1	1
125°	1	25	1	21	1	1
135°	1	16	1	13	1	0
145°	1	10	1	8	1	0
155°	1	4	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

TEST NUMBER: P1213347

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6
2.5°	1237.5	1234.4	1233.1	1230.5	1232.4	1240.1	1235.0	1226.7	1227.4	1212.8	1220.4
5°	1236.3	1232.4	1230.5	1228.0	1229.3	1236.3	1231.2	1222.9	1222.3	1207.7	1214.7
7.5°	1234.4	1230.5	1227.4	1225.5	1226.1	1231.8	1225.5	1215.9	1214.0	1198.2	1204.5
10°	1231.2	1228.6	1224.2	1221.0	1220.4	1226.7	1216.6	1207.1	1202.6	1186.1	1192.5
12.5°	1226.7	1222.9	1218.5	1212.8	1212.1	1215.9	1207.7	1194.4	1189.9	1176.6	1183.6
15°	1220.4	1215.9	1210.9	1204.5	1201.4	1203.9	1193.7	1181.7	1181.0	1169.6	1179.1
17.5°	1213.4	1207.1	1201.4	1192.5	1188.0	1189.9	1181.7	1170.9	1172.2	1165.2	1176.0
20°	1203.9	1196.9	1188.0	1179.1	1172.8	1176.0	1170.3	1162.0	1163.9	1158.8	1168.4
22.5°	1193.1	1183.6	1172.8	1162.6	1157.6	1162.0	1157.6	1150.6	1151.2	1148.0	1153.8
25°	1179.1	1168.4	1155.7	1143.0	1140.4	1143.6	1141.1	1135.4	1132.8	1127.7	1130.3
27.5°	1166.4	1154.4	1138.5	1125.2	1120.8	1127.1	1121.4	1111.9	1104.9	1097.9	1092.8
30°	1151.9	1137.3	1119.5	1104.3	1100.4	1103.0	1094.7	1080.1	1061.7	1052.8	1038.9
32.5°	1136.0	1116.9	1094.7	1077.6	1075.1	1073.2	1057.9	1037.0	1008.4	990.7	969.1
35°	1115.0	1094.1	1067.4	1046.5	1042.7	1031.9	1007.2	979.2	942.4	912.0	875.2
37.5°	1091.6	1066.8	1038.9	1011.0	1000.2	978.6	943.7	914.5	858.7	821.8	777.4
40°	1064.9	1035.1	1000.8	967.2	949.4	914.5	874.5	831.4	777.4	727.9	690.5
42.5°	1028.1	996.4	955.8	918.3	887.8	841.5	794.6	733.6	684.1	642.2	604.2
45°	984.3	946.2	899.3	854.2	815.5	760.3	705.1	644.1	602.9	554.0	528.0
47.5°	927.8	886.6	836.4	786.3	735.5	674.6	616.9	558.5	517.2	482.3	463.3
50°	861.2	823.1	767.9	708.2	652.4	588.9	531.2	487.4	447.4	425.8	411.2
52.5°	778.7	743.2	686.7	621.9	568.0	505.8	453.1	417.6	389.0	373.2	368.1
55°	686.7	655.6	599.7	539.4	484.2	427.1	387.1	356.0	337.6	328.1	328.7
57.5°	588.3	564.2	511.5	457.6	405.5	362.4	326.2	301.4	287.5	286.9	288.8
60°	489.9	472.2	426.5	380.1	334.4	299.5	272.9	255.8	246.9	247.5	246.9
62.5°	396.0	379.5	346.5	308.4	272.3	248.8	224.7	217.7	210.1	209.4	209.4
65°	311.6	298.9	272.3	245.0	217.7	202.4	190.4	182.1	176.4	175.2	175.8
67.5°	234.2	229.1	210.7	192.3	175.2	165.6	155.5	153.6	149.1	149.1	150.4
70°	174.5	170.7	160.6	149.8	142.8	136.4	131.4	131.4	130.7	130.1	133.3
72.5°	126.3	126.9	123.8	115.5	114.9	113.6	112.3	114.2	114.9	116.8	120.6
75°	88.8	90.8	90.8	89.5	92.0	95.2	97.1	100.3	104.1	106.6	111.1
77.5°	62.8	62.8	66.0	69.8	74.9	80.6	85.7	90.1	95.2	98.4	102.2
80°	40.6	42.5	47.6	54.6	61.6	69.2	76.2	81.9	86.9	92.0	94.6
82.5°	24.1	27.3	33.6	42.5	51.4	60.9	67.9	74.9	80.6	85.7	87.6
85°	12.1	16.5	24.1	33.6	43.2	53.3	62.2	68.5	74.9	79.3	81.9
87.5°	3.8	8.9	17.1	26.0	36.2	46.3	55.8	62.8	68.5	72.3	74.9
90°	0.0	4.4	12.1	21.6	31.1	41.3	50.1	57.8	63.5	66.6	68.5
92.5°	0.0	2.5	9.5	17.8	26.7	36.8	45.7	52.7	57.8	60.9	62.2
95°	0.6	1.9	7.0	14.6	23.5	33.0	41.3	47.6	52.7	55.8	56.5
97.5°	0.6	1.3	5.7	12.1	20.3	29.2	37.4	43.8	47.6	50.8	51.4
100°	0.6	1.3	4.4	10.8	17.8	26.0	33.6	39.3	43.8	46.3	47.0
102.5°	0.6	0.6	3.8	8.9	15.9	22.8	29.8	35.5	39.3	41.9	43.2
105°	0.6	0.6	3.2	7.6	14.0	20.3	26.7	32.4	35.5	38.1	39.3
107.5°	0.6	0.6	2.5	6.3	12.1	17.8	24.1	28.6	32.4	34.9	36.2
110°	0.6	0.6	1.9	5.7	10.2	15.9	20.9	25.4	29.2	31.7	33.0

TEST NUMBER: P1213347

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.6	0.6	1.9	5.1	8.9	14.0	18.4	22.8	26.0	28.6	30.5
115°	0.6	0.6	1.9	4.4	8.3	12.1	16.5	20.3	23.5	26.0	27.9
117.5°	0.6	0.6	1.9	3.8	7.0	10.8	14.6	18.4	20.9	23.5	25.4
120°	0.6	0.6	1.3	3.2	6.3	9.5	12.7	15.9	19.0	21.6	23.5
122.5°	0.6	0.6	1.3	3.2	5.1	8.3	11.4	14.0	17.1	19.0	20.9
125°	0.6	0.6	1.3	2.5	4.4	7.6	10.2	12.7	14.6	17.1	19.0
127.5°	0.6	0.6	1.3	2.5	3.8	6.3	8.9	11.4	13.3	15.2	16.5
130°	0.6	0.6	1.3	1.9	3.2	5.1	7.6	9.5	12.1	13.3	14.6
132.5°	0.6	0.6	0.6	1.9	2.5	3.8	5.7	8.3	10.2	12.1	12.7
135°	0.6	0.6	0.6	1.3	2.5	3.2	4.4	6.3	8.3	10.2	11.4
137.5°	0.6	0.6	0.6	1.3	1.9	3.2	3.8	5.1	7.0	8.3	10.2
140°	0.6	0.6	0.6	1.3	1.9	2.5	3.2	4.4	5.7	7.0	8.3
142.5°	0.6	0.6	0.6	1.3	1.3	1.9	2.5	3.8	4.4	5.7	7.0
145°	0.6	0.6	0.6	1.3	1.3	1.9	2.5	3.2	3.8	4.4	5.7
147.5°	0.6	0.6	0.6	1.3	1.3	1.3	1.9	2.5	3.2	3.8	4.4
150°	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9	2.5	3.2	3.8
152.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9	1.9	2.5	3.2
155°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9	2.5	2.5
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213347

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6
2.5°	1217.9	1219.1	1226.7	1226.1	1224.8	1223.6	1223.6	1222.3	1223.6	1226.7	1225.5
5°	1211.5	1213.4	1219.1	1218.5	1217.2	1216.6	1215.9	1214.0	1215.3	1219.8	1218.5
7.5°	1200.1	1202.0	1207.1	1204.5	1202.6	1203.9	1200.7	1198.8	1201.4	1205.8	1205.2
10°	1188.0	1189.3	1195.6	1194.4	1191.2	1191.8	1188.7	1187.4	1190.6	1193.1	1193.7
12.5°	1179.8	1184.2	1189.9	1189.3	1188.7	1189.3	1186.1	1184.9	1186.8	1189.3	1188.7
15°	1177.9	1183.6	1189.9	1189.9	1190.6	1191.2	1188.0	1186.1	1188.0	1189.9	1189.3
17.5°	1176.0	1182.9	1188.7	1188.0	1188.7	1189.9	1184.9	1183.6	1186.1	1188.7	1187.4
20°	1169.6	1176.0	1179.8	1178.5	1178.5	1179.1	1172.8	1172.8	1176.6	1178.5	1179.1
22.5°	1151.9	1159.5	1159.5	1156.3	1156.3	1153.8	1151.9	1148.0	1152.5	1155.7	1158.2
25°	1125.2	1128.4	1124.6	1117.6	1113.8	1110.6	1101.7	1109.3	1109.3	1118.9	1122.0
27.5°	1087.8	1080.8	1070.0	1055.4	1052.2	1042.1	1036.3	1038.3	1041.4	1054.8	1064.9
30°	1026.2	1005.3	986.8	980.5	966.5	956.4	946.2	951.3	957.0	964.6	985.6
32.5°	945.0	924.7	894.8	884.0	869.4	856.7	844.7	852.3	862.5	867.5	890.4
35°	851.7	827.6	800.3	781.9	766.6	759.7	744.4	755.2	766.0	769.8	789.5
37.5°	752.7	727.9	703.8	687.9	673.3	668.9	658.7	666.4	674.6	680.3	696.8
40°	658.7	635.9	617.5	606.7	596.6	592.7	588.9	592.1	598.5	602.9	615.6
42.5°	578.1	559.7	547.0	540.7	533.7	528.6	529.3	530.5	533.7	543.2	549.0
45°	507.7	496.9	488.7	487.4	483.0	482.3	481.7	484.2	486.1	491.8	496.3
47.5°	451.2	446.8	444.9	447.4	449.3	446.8	448.0	451.2	455.0	455.0	454.4
50°	406.8	408.1	410.6	416.3	420.1	421.4	422.7	426.5	427.1	428.4	426.5
52.5°	370.6	371.9	378.9	387.8	392.2	394.1	396.6	400.5	400.5	401.7	399.2
55°	333.8	335.7	342.7	351.6	355.4	357.9	360.5	363.0	364.9	367.5	365.5
57.5°	293.2	298.9	303.4	305.9	308.4	310.3	312.2	312.9	316.7	317.3	320.5
60°	250.0	251.3	255.8	255.1	253.2	258.3	255.8	260.2	264.6	270.4	271.0
62.5°	208.8	209.4	212.6	211.3	213.9	213.2	215.1	215.1	218.3	220.9	224.0
65°	176.4	177.1	179.6	179.6	179.0	180.9	182.8	184.0	184.0	185.9	188.5
67.5°	152.3	154.2	156.8	158.0	159.3	159.3	161.2	161.8	163.1	163.7	165.0
70°	135.8	138.3	140.9	142.2	142.8	144.1	144.7	144.7	146.0	146.6	147.9
72.5°	123.8	126.3	128.2	128.2	129.5	130.1	130.1	130.7	131.4	132.6	133.9
75°	113.6	115.5	116.8	116.1	116.1	116.1	116.8	116.8	118.0	119.3	120.6
77.5°	104.1	106.0	106.0	104.7	104.7	104.7	104.7	105.3	106.0	107.3	108.5
80°	97.1	97.1	96.5	96.5	95.2	94.6	94.6	95.2	95.2	96.5	98.4
82.5°	89.5	89.5	88.8	88.2	87.6	86.9	86.9	87.6	88.2	88.8	90.1
85°	82.5	82.5	81.2	81.2	80.6	80.6	80.6	80.6	81.2	81.9	83.1
87.5°	75.5	74.9	74.3	73.6	73.6	73.6	73.6	73.6	74.3	75.5	76.2
90°	68.5	67.9	67.3	67.3	66.6	66.6	67.3	67.3	67.9	68.5	69.2
92.5°	62.2	61.6	60.9	60.9	60.3	60.3	60.9	60.3	61.6	61.6	62.2
95°	56.5	55.8	55.2	55.2	55.2	55.2	55.2	55.2	55.8	55.8	56.5
97.5°	51.4	50.8	50.1	50.1	50.8	50.1	50.8	50.8	50.8	51.4	52.0
100°	47.0	46.3	46.3	47.0	46.3	46.3	47.0	47.0	47.0	47.0	47.6
102.5°	43.2	43.2	43.2	43.2	43.2	43.2	43.8	43.8	43.8	43.8	44.4
105°	39.3	40.0	40.0	40.0	40.6	40.6	40.6	41.3	41.3	41.3	41.3
107.5°	36.8	37.4	37.4	38.1	38.1	38.7	38.7	38.7	38.7	39.3	39.3
110°	34.3	34.9	35.5	36.2	36.2	36.8	36.8	36.8	36.8	36.8	36.8

TEST NUMBER: P1213347

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	31.7	32.4	33.0	34.3	34.9	34.9	34.9	34.9	35.5	35.5	34.9
115°	29.2	30.5	31.1	32.4	33.0	33.0	33.6	33.6	33.6	33.6	33.0
117.5°	26.7	28.6	29.2	30.5	31.1	31.1	31.7	31.7	31.7	31.7	31.1
120°	24.8	26.0	27.3	27.9	28.6	29.2	29.2	29.8	29.8	29.8	29.2
122.5°	22.8	24.1	25.4	26.0	26.7	27.3	27.3	27.3	27.3	27.3	27.3
125°	20.3	21.6	22.8	23.5	24.1	24.8	24.8	25.4	25.4	25.4	24.8
127.5°	18.4	19.7	20.3	21.6	22.2	22.2	22.8	22.8	22.8	22.8	22.2
130°	15.9	17.1	18.4	19.0	19.7	19.7	20.3	20.3	20.3	20.3	20.3
132.5°	14.0	15.2	15.9	17.1	17.1	17.8	17.8	18.4	18.4	18.4	17.8
135°	12.7	13.3	14.0	15.2	15.2	15.9	15.9	15.9	15.9	15.9	15.9
137.5°	11.4	12.1	12.7	13.3	13.3	14.0	14.0	14.0	14.0	14.6	14.0
140°	9.5	10.8	11.4	11.4	12.1	12.1	12.1	12.7	12.7	12.7	12.1
142.5°	8.3	8.9	9.5	10.2	10.8	10.8	10.8	10.8	11.4	10.8	10.8
145°	6.3	7.6	8.3	8.9	9.5	9.5	9.5	9.5	9.5	9.5	9.5
147.5°	5.1	5.7	7.0	7.6	7.6	8.3	8.3	8.3	8.3	8.3	8.3
150°	4.4	4.4	5.7	6.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0
152.5°	3.2	3.8	4.4	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7
155°	3.2	3.2	3.8	3.8	4.4	4.4	4.4	4.4	5.1	4.4	4.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213347

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6
2.5°	1223.6	1222.9	1225.5	1222.9	1210.2	1215.3	1213.4	1220.4	1221.0	1222.9	1229.3
5°	1217.2	1217.2	1220.4	1217.9	1205.8	1210.9	1210.2	1217.2	1218.5	1219.8	1226.7
7.5°	1204.5	1205.2	1209.6	1207.7	1195.0	1202.6	1202.0	1210.2	1212.8	1215.3	1221.7
10°	1192.5	1191.8	1196.9	1195.0	1182.9	1191.8	1191.2	1199.4	1203.3	1207.7	1215.3
12.5°	1186.1	1184.2	1186.1	1184.2	1170.9	1177.9	1178.5	1188.0	1192.5	1198.2	1207.1
15°	1186.1	1182.9	1182.9	1179.1	1163.9	1168.4	1169.0	1175.3	1181.0	1186.8	1197.5
17.5°	1184.9	1181.7	1181.0	1177.9	1161.4	1161.4	1160.7	1165.2	1168.4	1174.1	1185.5
20°	1177.9	1176.6	1176.0	1174.1	1158.8	1156.3	1155.0	1155.0	1156.9	1158.8	1170.3
22.5°	1159.5	1160.7	1162.0	1163.3	1151.2	1146.8	1147.4	1146.1	1144.2	1144.2	1153.8
25°	1125.2	1131.5	1136.6	1142.3	1135.4	1132.2	1136.0	1134.1	1130.9	1128.4	1136.6
27.5°	1070.6	1083.9	1094.7	1108.7	1109.3	1106.8	1116.9	1115.7	1115.0	1111.2	1117.6
30°	995.1	1016.0	1030.6	1050.9	1068.1	1070.6	1087.8	1090.3	1092.8	1090.9	1097.3
32.5°	903.7	932.3	957.0	988.8	1005.3	1019.8	1044.0	1054.1	1064.3	1067.4	1074.4
35°	804.1	836.4	865.6	900.5	926.6	958.3	987.5	1002.7	1025.6	1034.4	1044.6
37.5°	709.5	740.0	768.5	803.4	845.3	878.3	914.5	948.8	979.9	992.6	1007.8
40°	625.7	650.5	677.8	708.2	746.3	789.5	828.8	876.4	913.2	938.6	960.8
42.5°	562.3	574.3	597.8	625.1	655.6	699.4	739.3	792.7	837.1	873.2	910.1
45°	505.8	511.5	528.6	543.2	574.3	613.1	655.6	707.6	753.9	800.3	844.7
47.5°	457.6	464.5	472.8	481.7	503.9	536.3	573.1	620.0	666.4	720.3	771.1
50°	425.2	427.1	428.4	432.2	445.5	467.7	497.5	537.5	582.0	639.7	693.6
52.5°	396.6	396.6	392.8	390.9	396.0	410.0	427.1	455.7	501.4	554.7	611.8
55°	366.2	360.5	359.2	352.9	354.1	360.5	368.7	390.9	428.4	474.1	529.3
57.5°	323.7	321.1	321.1	318.6	313.5	316.7	318.6	334.4	361.1	400.5	448.7
60°	274.8	273.5	276.7	277.3	272.9	274.8	274.2	283.7	302.7	334.4	374.4
62.5°	225.9	231.6	232.3	234.8	232.3	231.6	234.8	243.1	252.6	276.7	307.8
65°	189.8	192.9	193.6	196.7	195.5	195.5	198.0	204.4	210.1	226.6	250.7
67.5°	166.3	165.0	165.6	167.5	165.6	165.0	166.9	170.7	175.2	185.3	202.4
70°	147.9	146.6	146.6	146.6	144.1	142.2	142.8	144.1	146.0	151.7	162.5
72.5°	133.9	133.9	132.0	130.1	128.2	126.9	125.7	124.4	123.8	125.7	131.4
75°	121.2	121.8	121.2	119.3	116.8	114.2	111.7	109.2	106.0	104.7	105.3
77.5°	109.8	110.4	111.1	110.4	107.9	104.7	100.9	97.1	92.7	88.2	85.7
80°	99.6	100.9	101.5	100.9	99.0	96.5	92.0	87.6	81.2	75.5	69.2
82.5°	90.8	92.7	93.3	93.3	92.0	89.5	84.4	79.3	72.3	64.7	56.5
85°	83.8	85.0	86.3	86.3	85.7	83.1	78.1	72.3	65.4	56.5	47.6
87.5°	76.8	77.4	78.7	80.0	78.7	76.2	71.7	65.4	58.4	49.5	39.3
90°	69.8	70.4	71.7	73.0	72.3	69.8	66.0	60.3	52.7	43.2	33.0
92.5°	62.8	64.1	64.7	65.4	66.0	64.1	60.9	55.2	47.6	38.1	28.6
95°	57.8	57.8	59.0	59.7	60.3	58.4	55.8	50.1	43.2	34.3	24.8
97.5°	52.7	52.7	53.9	53.9	54.6	53.3	50.8	45.7	38.7	30.5	20.9
100°	47.6	48.2	48.9	49.5	49.5	48.9	46.3	41.3	34.9	27.3	18.4
102.5°	44.4	44.4	45.1	45.1	45.7	44.4	41.9	37.4	31.1	24.1	15.9
105°	41.3	41.3	41.9	41.9	41.3	40.0	37.4	33.6	27.9	20.9	14.0
107.5°	38.7	38.7	38.7	38.7	38.1	36.8	34.3	29.8	24.8	19.0	12.7
110°	36.8	36.2	36.2	35.5	34.9	33.0	30.5	26.7	22.2	16.5	10.8

TEST NUMBER: P1213347

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	34.9	34.3	33.6	33.0	31.7	29.8	27.3	24.1	19.7	14.6	9.5
115°	33.0	32.4	31.7	30.5	29.2	27.3	24.8	21.6	17.1	12.7	8.3
117.5°	31.1	30.5	29.2	27.9	26.7	24.8	22.2	19.0	15.2	11.4	7.6
120°	28.6	27.9	27.3	26.0	24.8	22.2	19.7	17.1	13.3	10.2	6.3
122.5°	26.7	26.0	24.8	24.1	22.2	20.3	17.8	15.2	12.1	8.9	5.7
125°	24.1	23.5	22.8	21.6	20.3	17.8	15.9	13.3	10.8	7.6	4.4
127.5°	22.2	21.6	20.3	19.0	17.8	15.9	14.0	12.1	9.5	6.3	4.4
130°	19.7	19.0	18.4	17.1	15.9	14.0	12.7	10.2	8.3	5.7	3.8
132.5°	17.1	17.1	16.5	15.2	14.0	12.7	10.8	8.9	7.0	5.1	3.2
135°	15.9	15.2	14.6	13.3	12.7	10.8	9.5	7.6	5.7	4.4	2.5
137.5°	14.0	13.3	12.7	12.1	10.8	9.5	8.3	6.3	5.1	3.8	2.5
140°	12.1	11.4	11.4	10.2	9.5	8.3	7.0	5.7	4.4	3.2	1.9
142.5°	10.8	10.2	9.5	8.9	8.3	7.0	5.7	4.4	3.8	2.5	1.9
145°	9.5	8.9	8.3	7.6	7.0	5.7	5.1	3.8	3.2	2.5	1.9
147.5°	7.6	7.6	7.0	6.3	5.7	5.1	4.4	3.8	2.5	1.9	1.3
150°	6.3	6.3	5.7	5.1	5.1	4.4	3.8	3.2	2.5	1.9	1.3
152.5°	5.7	5.1	5.1	4.4	4.4	3.8	3.2	2.5	1.9	1.9	1.3
155°	4.4	4.4	4.4	3.8	3.8	3.2	2.5	2.5	1.9	1.3	1.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213347

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6
2.5°	1230.5	1222.9	1229.3	1240.7	1239.4	1238.2	1236.9	1239.4	1247.7	1243.2	1236.3
5°	1228.6	1221.0	1228.0	1238.8	1238.2	1236.3	1235.0	1237.5	1245.8	1241.3	1233.7
7.5°	1224.8	1217.9	1222.9	1233.7	1233.7	1232.4	1231.2	1233.7	1241.3	1237.5	1229.9
10°	1218.5	1213.4	1218.5	1228.6	1229.3	1226.7	1225.5	1228.6	1236.3	1234.4	1228.0
12.5°	1213.4	1208.3	1214.0	1224.2	1224.8	1222.3	1220.4	1224.2	1234.4	1235.6	1233.7
15°	1206.4	1202.0	1209.0	1219.8	1219.8	1217.9	1217.9	1222.9	1236.9	1242.6	1245.8
17.5°	1196.3	1193.1	1201.4	1212.1	1212.8	1211.5	1212.1	1222.3	1240.7	1254.7	1263.5
20°	1183.6	1182.3	1191.2	1202.6	1204.5	1205.2	1208.3	1223.6	1248.9	1268.0	1276.9
22.5°	1168.4	1169.0	1179.1	1191.2	1193.7	1195.6	1202.0	1223.6	1255.3	1275.6	1279.4
25°	1151.2	1153.1	1163.9	1178.5	1181.7	1185.5	1196.3	1224.2	1257.2	1270.5	1264.2
27.5°	1132.8	1136.6	1150.6	1165.8	1169.6	1176.0	1189.9	1220.4	1248.3	1248.9	1225.5
30°	1113.8	1118.2	1134.7	1152.5	1158.8	1165.2	1182.3	1211.5	1226.7	1206.4	1165.2
32.5°	1092.2	1098.5	1115.0	1136.6	1144.2	1152.5	1169.6	1194.4	1188.7	1144.9	1085.8
35°	1064.9	1073.8	1092.8	1118.2	1125.2	1136.0	1148.0	1153.8	1128.4	1066.2	999.5
37.5°	1031.3	1044.6	1066.8	1096.0	1103.6	1110.6	1113.8	1097.9	1047.1	979.9	910.7
40°	992.6	1012.9	1037.0	1069.3	1077.0	1077.0	1065.5	1031.9	967.8	879.6	802.8
42.5°	945.6	970.3	1000.8	1033.2	1040.8	1031.9	1004.6	945.6	872.6	774.2	693.0
45°	888.5	921.5	955.8	989.4	993.2	973.5	924.7	849.8	759.7	668.3	590.8
47.5°	820.6	863.7	901.2	939.3	934.2	901.2	835.8	750.8	655.6	569.3	507.1
50°	744.4	795.2	837.1	873.2	862.5	816.8	740.0	651.1	556.6	483.0	431.5
52.5°	663.2	721.6	763.5	792.7	778.1	723.5	639.1	554.0	476.6	409.3	375.1
55°	578.8	637.8	681.0	703.8	684.8	625.7	542.6	465.2	392.2	348.4	328.1
57.5°	496.9	552.1	592.7	611.1	587.0	528.0	451.2	385.9	333.2	296.4	286.2
60°	418.2	463.3	502.0	516.0	489.9	435.4	369.4	317.3	278.6	253.2	248.1
62.5°	345.2	382.0	412.5	423.3	397.9	355.4	298.3	259.6	232.3	219.6	213.2
65°	284.9	306.5	337.6	335.7	320.5	281.1	239.3	212.0	194.2	185.9	182.1
67.5°	224.0	243.7	263.4	265.9	246.9	219.6	192.3	172.6	163.1	158.7	156.8
70°	173.3	187.9	199.9	196.7	186.6	169.4	152.3	141.5	137.7	135.8	135.8
72.5°	134.5	142.2	147.9	144.1	137.7	128.8	120.6	116.1	116.8	118.0	119.3
75°	104.1	106.0	107.3	103.4	102.2	96.5	95.8	96.5	100.3	104.1	106.0
77.5°	80.0	77.4	75.5	71.7	72.3	71.7	74.9	80.0	85.7	91.4	96.5
80°	61.6	55.8	51.4	47.6	49.5	52.7	59.0	66.6	74.3	80.6	86.9
82.5°	47.6	39.3	33.0	29.2	33.0	38.1	46.3	55.8	64.7	71.7	78.7
85°	36.8	27.3	19.7	15.9	19.7	27.3	36.2	47.0	56.5	64.1	71.1
87.5°	28.6	19.7	10.8	6.3	10.8	19.0	29.2	39.3	48.9	57.8	64.7
90°	22.8	13.3	5.1	1.3	5.7	13.3	22.8	33.0	42.5	52.0	59.0
92.5°	18.4	9.5	2.5	0.0	3.2	10.2	19.0	28.6	38.1	47.0	53.9
95°	15.2	7.6	1.9	0.0	2.5	7.6	15.2	24.8	33.6	42.5	48.2
97.5°	12.7	5.7	1.3	0.0	1.3	6.3	12.7	20.9	29.8	38.1	43.8
100°	10.8	5.1	1.3	0.0	1.3	5.1	10.8	18.4	26.0	33.6	39.3
102.5°	8.9	3.8	0.6	0.6	0.6	3.8	9.5	15.9	22.8	29.8	35.5
105°	8.3	3.2	0.6	0.6	0.6	3.2	8.3	14.0	20.3	26.7	31.7
107.5°	7.0	2.5	0.6	0.6	0.6	2.5	7.0	12.1	18.4	24.1	28.6
110°	5.7	2.5	0.6	0.6	0.6	2.5	5.7	10.8	15.9	20.9	25.4



TEST NUMBER: P1213347

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	5.1	1.9	0.6	0.6	0.6	1.9	5.1	9.5	14.0	19.0	22.8
115°	4.4	1.9	0.6	0.6	0.6	1.9	4.4	8.3	12.1	16.5	20.3
117.5°	3.8	1.9	0.6	0.6	0.6	1.3	3.8	7.0	10.8	14.6	18.4
120°	3.2	1.3	0.6	0.6	0.6	1.3	3.2	6.3	9.5	12.7	15.9
122.5°	3.2	1.3	0.6	0.6	0.6	1.3	2.5	5.1	8.3	10.8	14.0
125°	2.5	1.3	0.6	0.6	0.6	0.6	2.5	4.4	7.0	9.5	12.1
127.5°	2.5	1.3	0.6	0.6	0.6	0.6	1.9	3.8	5.7	8.3	10.8
130°	1.9	1.3	0.6	0.6	0.6	0.6	1.3	3.2	5.1	7.0	8.9
132.5°	1.9	1.3	0.6	0.6	0.6	0.6	1.3	2.5	3.8	5.7	7.6
135°	1.9	0.6	0.6	0.6	0.6	0.6	0.6	1.9	3.2	4.4	5.7
137.5°	1.3	0.6	0.6	0.6	0.6	0.6	0.6	1.3	2.5	3.2	5.1
140°	1.3	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.9	2.5	3.8
142.5°	1.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.9	3.2
145°	1.3	0.6	0.6	1.3	1.3	0.6	0.6	1.3	1.3	1.9	2.5
147.5°	1.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.9
150°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9
152.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
155°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213347

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6
2.5°	1235.0	1220.4	1228.0	1225.5	1228.0	1234.4	1233.7	1231.8	1233.1	1229.9	1226.7
5°	1232.4	1217.9	1225.5	1222.3	1225.5	1231.8	1230.5	1228.6	1230.5	1226.7	1223.6
7.5°	1229.3	1215.9	1224.8	1224.2	1229.9	1238.2	1238.8	1238.8	1243.2	1237.5	1235.0
10°	1229.3	1222.3	1234.4	1238.8	1253.4	1264.2	1265.4	1268.0	1275.6	1274.3	1268.0
12.5°	1242.6	1241.3	1259.1	1269.9	1283.2	1298.5	1306.7	1309.2	1314.3	1310.5	1308.0
15°	1259.7	1266.1	1285.8	1297.8	1312.4	1323.8	1325.7	1327.0	1330.8	1325.1	1320.7
17.5°	1282.6	1286.4	1302.3	1307.3	1316.9	1318.8	1316.2	1309.9	1309.9	1297.2	1293.4
20°	1293.4	1291.5	1297.8	1289.6	1285.8	1274.3	1263.5	1251.5	1250.9	1237.5	1236.3
22.5°	1283.9	1271.2	1257.8	1237.5	1228.6	1212.1	1197.5	1190.6	1186.1	1169.0	1164.5
25°	1250.2	1219.1	1199.4	1175.3	1153.8	1134.7	1120.8	1106.2	1092.2	1078.2	1071.9
27.5°	1191.8	1162.6	1130.9	1097.3	1067.4	1038.3	1014.8	1000.2	986.8	968.4	958.9
30°	1120.1	1079.5	1044.6	1012.2	963.4	927.8	908.2	879.0	868.8	860.6	842.8
32.5°	1035.7	986.8	939.3	895.5	845.3	812.3	786.3	764.7	758.4	736.8	731.7
35°	942.4	878.3	824.4	781.2	745.1	705.1	683.5	668.9	656.2	641.6	639.1
37.5°	832.6	774.9	714.0	675.9	647.3	613.1	596.6	586.4	580.7	569.9	568.0
40°	722.2	664.5	622.6	584.5	566.7	548.3	536.3	531.8	529.3	525.5	521.7
42.5°	621.9	571.2	541.3	516.0	508.3	499.5	496.3	498.8	496.3	495.0	494.4
45°	536.9	498.2	477.2	469.6	467.7	465.2	467.7	472.2	472.8	471.5	471.5
47.5°	459.5	441.1	432.2	433.5	436.6	438.5	443.0	448.7	450.0	446.8	448.0
50°	408.7	397.9	396.0	401.1	408.1	410.6	415.7	420.1	419.5	418.2	417.0
52.5°	361.1	357.9	363.0	368.1	375.7	377.0	378.9	380.8	380.1	377.6	376.3
55°	321.1	323.7	328.1	330.0	335.7	335.1	335.7	335.7	333.2	331.9	330.0
57.5°	284.9	285.6	288.1	288.8	291.9	290.7	290.0	288.8	284.9	284.3	282.4
60°	248.1	246.9	252.6	248.1	250.7	248.1	247.5	244.3	240.5	239.9	238.6
62.5°	213.2	210.7	214.5	212.6	213.9	211.3	210.1	206.3	203.1	202.4	201.8
65°	182.1	180.9	184.7	184.0	185.3	182.1	180.9	178.3	175.8	175.2	174.5
67.5°	156.1	159.3	161.2	161.2	162.5	161.8	158.7	158.0	157.4	154.8	154.8
70°	137.1	139.0	142.8	143.4	142.8	144.1	141.5	140.9	140.3	139.0	138.3
72.5°	121.8	124.4	128.2	128.8	128.2	128.2	126.9	126.3	126.3	124.4	124.4
75°	109.8	113.0	116.1	116.1	116.1	114.9	113.6	113.6	112.3	111.7	110.4
77.5°	99.6	103.4	106.0	105.3	104.7	103.4	103.4	101.5	99.6	99.6	98.4
80°	92.0	94.6	96.5	95.8	95.2	93.3	92.7	90.8	89.5	87.6	87.6
82.5°	83.8	86.9	88.2	87.6	86.3	84.4	83.8	82.5	81.2	80.6	79.3
85°	76.8	80.0	80.6	79.3	78.1	76.8	76.2	75.5	74.9	73.6	73.6
87.5°	69.8	73.0	73.0	72.3	71.1	70.4	69.8	69.2	68.5	67.9	67.3
90°	64.1	66.6	66.6	66.0	65.4	64.7	64.1	63.5	62.8	62.2	62.2
92.5°	58.4	60.9	60.9	60.3	59.7	59.0	59.0	58.4	57.8	57.1	56.5
95°	53.3	55.8	55.8	55.8	55.2	54.6	54.6	53.9	53.3	53.3	52.7
97.5°	48.2	50.8	50.8	50.8	50.1	49.5	49.5	48.9	48.9	48.9	48.2
100°	43.8	45.7	46.3	46.3	45.7	45.7	45.7	45.1	45.1	45.1	44.4
102.5°	39.3	41.3	42.5	42.5	42.5	41.9	41.9	41.9	41.9	41.9	41.3
105°	35.5	37.4	38.7	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
107.5°	32.4	34.3	35.5	36.2	36.8	36.8	37.4	37.4	37.4	37.4	37.4
110°	29.2	31.1	33.0	33.6	34.3	34.9	34.9	35.5	34.9	34.9	34.9

TEST NUMBER: P1213347

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	26.0	28.6	29.8	31.1	31.7	32.4	33.0	33.0	33.0	33.0	33.0
115°	23.5	26.0	27.3	28.6	29.8	30.5	30.5	31.1	31.1	31.1	30.5
117.5°	20.9	23.5	24.8	26.0	26.7	27.9	28.6	28.6	28.6	28.6	27.9
120°	19.0	20.9	22.2	23.5	24.8	25.4	26.0	26.0	26.0	26.0	26.0
122.5°	16.5	18.4	20.3	21.6	22.2	22.8	23.5	23.5	23.5	23.5	23.5
125°	14.6	16.5	17.8	19.0	19.7	20.9	20.9	20.9	20.9	20.9	20.9
127.5°	12.7	14.6	15.9	17.1	17.8	18.4	19.0	19.0	19.0	19.0	19.0
130°	10.8	12.7	14.0	15.2	15.9	16.5	16.5	17.1	17.1	17.1	17.1
132.5°	9.5	10.8	12.1	13.3	14.0	14.6	14.6	15.2	15.2	15.2	15.2
135°	7.6	9.5	10.2	11.4	12.1	12.7	12.7	13.3	13.3	13.3	13.3
137.5°	6.3	7.6	8.9	10.2	10.8	10.8	11.4	11.4	12.1	12.1	12.1
140°	5.1	5.7	7.6	8.3	8.9	9.5	10.2	10.2	10.2	10.2	10.2
142.5°	3.8	5.1	5.7	7.0	7.6	8.3	8.9	8.9	8.9	8.9	8.9
145°	3.2	3.8	4.4	5.7	6.3	7.0	7.6	7.6	7.6	7.6	7.6
147.5°	2.5	3.2	3.8	4.4	5.1	5.7	6.3	6.3	6.3	6.3	6.3
150°	1.9	2.5	3.2	3.2	3.8	4.4	5.1	5.7	5.7	5.7	5.7
152.5°	1.9	1.9	2.5	2.5	3.2	3.8	4.4	4.4	4.4	4.4	4.4
155°	1.3	1.9	1.9	1.9	2.5	2.5	3.2	3.8	3.8	3.8	3.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213347

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6
2.5°	1228.6	1231.2	1229.9	1228.0	1227.4	1230.5	1227.4	1212.8	1218.5	1219.1	1223.6
5°	1226.7	1228.6	1227.4	1226.1	1224.2	1228.0	1224.2	1209.0	1214.7	1215.3	1219.8
7.5°	1239.4	1240.1	1240.1	1236.9	1231.8	1233.7	1228.6	1211.5	1214.7	1214.7	1217.9
10°	1271.2	1272.4	1274.3	1266.1	1259.7	1254.7	1247.7	1226.7	1226.1	1221.0	1221.0
12.5°	1312.4	1309.2	1306.1	1302.3	1297.2	1290.8	1280.7	1255.9	1247.7	1239.4	1231.2
15°	1324.5	1323.2	1322.6	1320.7	1317.5	1315.6	1308.0	1283.2	1271.2	1261.0	1246.4
17.5°	1292.7	1295.3	1303.5	1304.2	1308.0	1315.6	1314.3	1297.2	1286.4	1282.0	1264.2
20°	1235.6	1236.3	1246.4	1250.9	1267.4	1280.0	1289.6	1287.7	1285.1	1290.2	1276.9
22.5°	1167.1	1171.5	1182.3	1189.3	1205.2	1219.8	1235.0	1243.2	1256.6	1277.5	1275.0
25°	1073.8	1079.5	1094.7	1106.2	1128.4	1150.6	1170.9	1185.5	1201.4	1241.3	1254.7
27.5°	962.1	971.0	990.7	1002.1	1033.2	1056.0	1085.2	1113.8	1136.0	1181.7	1209.0
30°	844.7	852.3	873.2	889.1	915.8	946.9	983.7	1024.3	1061.1	1107.4	1141.7
32.5°	734.9	743.2	760.3	774.2	804.1	830.1	870.7	920.8	955.1	1019.2	1064.9
35°	639.1	646.7	658.7	670.8	695.6	722.2	757.1	806.0	849.8	916.4	974.2
37.5°	571.8	573.1	580.1	587.0	605.4	625.7	653.0	696.2	736.8	808.5	872.0
40°	523.6	523.6	527.4	529.3	537.5	549.6	566.7	600.4	634.0	688.6	766.0
42.5°	493.7	492.5	492.5	493.1	492.5	498.2	508.3	524.2	554.0	599.1	659.4
45°	471.5	469.0	467.1	462.6	460.1	460.1	460.7	466.5	483.6	512.8	561.6
47.5°	446.8	446.1	443.0	437.9	433.5	430.3	425.2	423.3	428.4	444.9	477.9
50°	418.2	415.0	411.9	408.1	403.0	399.8	390.3	390.9	386.5	394.1	411.2
52.5°	376.3	373.8	372.5	369.4	367.5	366.2	358.6	350.9	349.0	350.3	356.7
55°	330.0	331.3	326.2	328.7	328.1	322.4	319.2	313.5	311.6	311.0	314.1
57.5°	281.8	283.0	279.9	282.4	282.4	279.2	277.3	277.3	272.9	269.1	273.5
60°	238.0	235.4	237.4	240.5	240.5	238.6	237.4	237.4	234.2	232.9	236.1
62.5°	202.4	199.9	201.8	205.0	205.6	204.4	203.1	203.1	199.3	199.3	201.8
65°	175.2	175.8	175.2	177.7	177.7	178.3	177.1	175.8	171.3	173.3	172.6
67.5°	155.5	154.8	154.8	157.4	156.8	158.0	156.8	154.8	151.7	149.1	148.5
70°	139.0	138.3	138.3	139.6	140.3	140.3	139.6	138.3	133.9	131.4	129.5
72.5°	124.4	123.8	124.4	125.0	125.7	126.3	125.7	124.4	120.6	117.4	114.2
75°	111.1	110.4	112.3	112.3	113.0	113.0	113.6	113.0	109.8	106.0	102.2
77.5°	97.7	98.4	100.3	100.9	102.2	102.8	103.4	103.4	100.3	97.1	92.0
80°	86.9	88.2	89.5	90.1	91.4	93.3	93.9	94.6	92.0	88.8	83.1
82.5°	79.3	80.0	81.2	81.9	83.8	84.4	85.0	86.3	85.0	81.9	75.5
85°	73.0	73.6	74.9	74.9	76.2	77.4	78.1	78.7	78.1	74.9	68.5
87.5°	67.3	67.9	68.5	69.2	69.8	70.4	71.1	71.7	71.1	67.9	62.2
90°	62.2	62.2	62.8	62.8	63.5	64.1	65.4	65.4	64.7	62.2	56.5
92.5°	56.5	57.1	57.1	57.8	58.4	59.0	59.7	59.7	59.0	56.5	51.4
95°	52.7	52.7	53.3	53.3	53.9	53.9	54.6	54.6	53.9	51.4	46.3
97.5°	48.2	48.2	48.2	48.2	48.9	48.9	49.5	49.5	48.9	46.3	41.9
100°	44.4	44.4	44.4	44.4	44.4	45.1	45.1	45.1	44.4	41.9	37.4
102.5°	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	40.0	38.1	33.6
105°	39.3	39.3	39.3	38.7	38.7	38.7	38.1	38.1	36.2	34.3	30.5
107.5°	36.8	36.8	36.8	36.2	36.2	35.5	34.9	34.9	33.0	31.1	27.3
110°	34.9	34.9	34.9	34.3	33.6	33.0	32.4	31.7	29.8	27.3	24.1

TEST NUMBER: P1213347

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	33.0	33.0	32.4	32.4	31.7	31.1	29.8	29.2	27.3	24.8	21.6
115°	30.5	30.5	30.5	29.8	29.2	28.6	27.9	26.7	24.8	22.2	19.0
117.5°	27.9	27.9	27.9	27.3	26.7	26.0	25.4	24.1	22.2	19.7	17.1
120°	25.4	25.4	25.4	24.8	24.1	23.5	22.8	21.6	19.7	17.8	14.6
122.5°	23.5	23.5	22.8	22.2	21.6	20.9	20.3	19.0	17.8	15.2	12.7
125°	20.9	20.9	20.3	20.3	19.7	19.0	18.4	17.1	15.2	13.3	11.4
127.5°	19.0	18.4	18.4	18.4	17.8	17.1	15.9	15.2	13.3	11.4	9.5
130°	16.5	16.5	16.5	15.9	15.9	15.2	14.0	12.7	11.4	10.2	8.3
132.5°	14.6	14.6	14.6	14.6	14.0	13.3	12.1	11.4	10.2	8.3	7.0
135°	13.3	13.3	12.7	12.7	12.1	11.4	10.8	9.5	8.3	7.0	5.7
137.5°	11.4	11.4	11.4	10.8	10.8	10.2	8.9	8.3	7.6	6.3	5.1
140°	10.2	10.2	9.5	9.5	8.9	8.9	8.3	7.0	6.3	5.1	4.4
142.5°	8.9	8.9	8.3	8.3	7.6	7.6	7.0	6.3	5.1	4.4	3.2
145°	7.6	7.6	7.0	7.0	7.0	6.3	5.7	5.1	4.4	3.8	3.2
147.5°	6.3	6.3	6.3	5.7	5.7	5.1	5.1	4.4	3.8	3.2	2.5
150°	5.7	5.7	5.1	5.1	5.1	4.4	3.8	3.8	3.2	2.5	1.9
152.5°	4.4	4.4	4.4	4.4	3.8	3.8	3.2	3.2	2.5	1.9	1.9
155°	3.8	3.8	3.8	3.2	3.2	3.2	2.5	2.5	1.9	1.9	1.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213347

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6
2.5°	1221.7	1221.0	1226.7	1226.1	1218.5	1229.9	1237.5
5°	1218.5	1217.9	1222.9	1224.2	1215.9	1228.0	1236.3
7.5°	1215.9	1215.3	1221.0	1222.9	1214.7	1225.5	1234.4
10°	1216.6	1213.4	1218.5	1219.8	1212.1	1223.6	1231.2
12.5°	1221.0	1213.4	1215.3	1215.3	1208.3	1218.5	1226.7
15°	1231.8	1215.9	1213.4	1211.5	1202.6	1212.1	1220.4
17.5°	1243.9	1222.3	1213.4	1207.1	1196.3	1204.5	1213.4
20°	1255.9	1229.3	1214.7	1204.5	1189.9	1197.5	1203.9
22.5°	1261.6	1235.6	1215.9	1200.7	1182.3	1186.1	1193.1
25°	1254.0	1233.1	1213.4	1195.0	1172.8	1173.4	1179.1
27.5°	1226.1	1220.4	1207.7	1189.3	1165.2	1162.0	1166.4
30°	1178.5	1194.4	1195.0	1181.7	1156.3	1149.9	1151.9
32.5°	1111.9	1147.4	1168.4	1165.8	1143.6	1134.7	1136.0
35°	1035.1	1079.5	1125.2	1140.4	1124.6	1117.6	1115.0
37.5°	943.1	1002.7	1063.6	1101.1	1098.5	1094.1	1091.6
40°	841.5	913.2	985.6	1045.2	1063.6	1063.6	1064.9
42.5°	733.0	816.8	896.1	971.6	1014.8	1024.3	1028.1
45°	628.3	712.7	799.0	885.9	943.7	973.5	984.3
47.5°	533.1	618.1	700.0	795.2	872.0	910.7	927.8
50°	451.9	515.3	601.6	696.2	780.0	827.6	861.2
52.5°	384.6	434.1	509.6	597.8	682.2	747.6	778.7
55°	328.1	361.7	425.8	502.0	582.6	650.5	686.7
57.5°	280.5	307.2	350.9	414.4	482.3	549.6	588.3
60°	238.6	257.0	286.9	337.0	394.7	452.5	489.9
62.5°	202.4	214.5	234.2	271.0	316.0	361.1	396.0
65°	174.5	179.6	190.4	213.2	247.5	281.8	311.6
67.5°	147.2	150.4	158.7	172.6	189.8	214.5	234.2
70°	126.9	126.9	127.6	135.8	144.7	160.6	174.5
72.5°	110.4	108.5	104.7	106.6	108.5	117.4	126.3
75°	97.1	92.7	86.3	83.8	82.5	83.8	88.8
77.5°	85.7	79.3	71.7	65.4	60.3	58.4	62.8
80°	76.2	68.5	59.7	51.4	43.2	38.7	40.6
82.5°	68.5	59.0	49.5	40.0	30.5	24.1	24.1
85°	60.3	51.4	41.3	31.1	21.6	13.3	12.1
87.5°	54.6	45.1	34.3	24.8	15.2	7.0	3.8
90°	48.9	39.3	29.2	19.7	10.8	3.2	0.0
92.5°	43.8	34.9	25.4	15.9	7.6	1.9	0.0
95°	39.3	31.1	21.6	13.3	6.3	1.3	0.6
97.5°	34.9	27.3	19.0	10.8	4.4	1.3	0.6
100°	31.7	24.1	16.5	8.9	3.8	0.6	0.6
102.5°	27.9	21.6	14.0	7.6	3.2	0.6	0.6
105°	24.8	19.0	12.1	6.3	2.5	0.6	0.6
107.5°	22.2	16.5	10.8	5.7	2.5	0.6	0.6
110°	19.7	14.6	9.5	5.1	1.9	0.6	0.6

TEST NUMBER: P1213347

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	17.8	12.7	8.3	4.4	1.3	0.6	0.6
115°	15.2	11.4	7.0	3.8	1.3	0.6	0.6
117.5°	13.3	9.5	6.3	3.2	1.3	0.6	0.6
120°	11.4	8.3	5.1	2.5	0.6	0.6	0.6
122.5°	10.2	7.0	4.4	2.5	0.6	0.6	0.6
125°	8.9	6.3	3.8	1.9	0.6	0.6	0.6
127.5°	7.6	5.1	3.2	1.3	0.6	0.6	0.6
130°	6.3	4.4	2.5	1.3	0.6	0.6	0.6
132.5°	5.1	3.8	2.5	1.3	0.6	0.6	0.6
135°	4.4	3.2	1.9	1.3	0.6	0.6	0.6
137.5°	3.8	2.5	1.3	1.3	1.3	0.6	0.6
140°	3.2	1.9	1.3	1.3	1.3	1.3	0.6
142.5°	2.5	1.9	1.3	1.3	1.3	1.3	0.6
145°	1.9	1.3	1.3	1.3	1.3	1.3	0.6
147.5°	1.9	1.3	1.3	1.3	1.3	1.3	0.6
150°	1.3	1.3	1.3	1.3	1.3	1.3	1.3
152.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3
155°	1.3	1.3	1.3	1.3	1.3	1.3	1.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)