

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: P1213401

Luminaire Tested: 4SNLED-LD5-34SL-LC-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213401
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: 4SNLED-LD5-34SL-LC-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

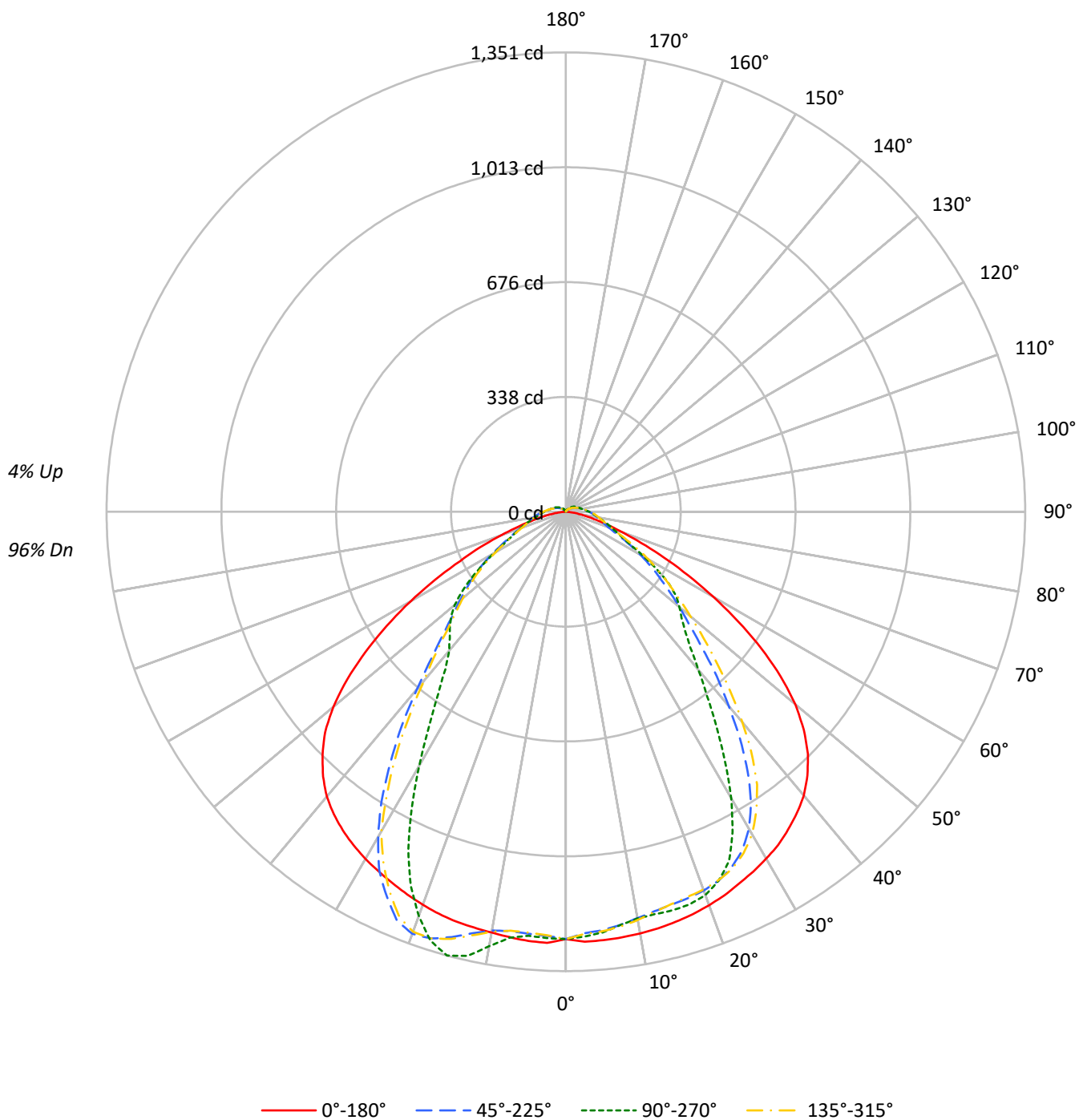
Lumens per Lamp: N/A
Luminaire Lumens: 2995.9 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 25
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	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°	10155	10155	10155	10155
5°	10230	9753	10251	9830
10°	10277	9348	10256	9982
15°	10357	9223	10352	10269
20°	10471	9076	10459	9567
25°	10600	8610	10594	8320
30°	10799	7463	10805	6612
35°	11010	6035	11042	5107
40°	11197	4859	11244	4281
45°	11157	4116	11215	4008
50°	10677	3789	10826	3705
55°	9473	3406	9709	3096
60°	7683	2606	8092	2391
65°	5711	1995	6154	1891
70°	3884	1721	4378	1646
75°	2542	1553	2958	1470
80°	1641	1449	1925	1333
85°	840	1444	1107	1320

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 11215 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	4.0
10°-20°	355.2	11.9
20°-30°	540.0	18.0
30°-40°	579.3	19.3
40°-50°	502.7	16.8
50°-60°	372.6	12.4
60°-70°	213.5	7.1
70°-80°	118.2	3.9
80°-90°	72.0	2.4
90°-100°	46.8	1.6
100°-110°	31.3	1.0
110°-120°	21.2	0.7
120°-130°	13.0	0.4
130°-140°	6.8	0.2
140°-150°	3.1	0.1
150°-160°	0.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1014.5	33.9
0°-40°	1593.8	53.2
0°-60°	2469.1	82.4
0°-90°	2872.8	95.9
90°-120°	99.3	3.3
90°-150°	122.2	4.1
90°-180°	123.0	4.1
0°-180°	2995.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1257	1257	1257	1257	1257	
5°	1264	1242	1267	1252	1264	121
15°	1248	1213	1248	1351	1248	353
25°	1206	1135	1206	1096	1206	558
35°	1140	772	1144	654	1140	714
45°	1007	495	1012	482	1007	771
55°	702	371	720	338	702	623
65°	319	188	343	178	319	321
75°	91	119	106	113	91	104
85°	12	82	16	75	12	16
90°	0	69	1	64	0	1
95°	1	56	0	54	1	0
105°	1	42	1	40	1	1
115°	1	34	1	31	1	1
125°	1	26	1	21	1	1
135°	1	16	1	14	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

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7
2.5°	1265.8	1262.6	1261.3	1258.7	1260.6	1268.4	1263.2	1254.8	1255.4	1240.5	1248.3
5°	1264.5	1260.6	1258.7	1256.1	1257.4	1264.5	1259.3	1250.9	1250.3	1235.3	1242.5
7.5°	1262.6	1258.7	1255.4	1253.5	1254.1	1260.0	1253.5	1243.8	1241.8	1225.6	1232.1
10°	1259.3	1256.7	1252.2	1249.0	1248.3	1254.8	1244.4	1234.7	1230.1	1213.3	1219.7
12.5°	1254.8	1250.9	1246.4	1240.5	1239.9	1243.8	1235.3	1221.7	1217.1	1203.5	1210.7
15°	1248.3	1243.8	1238.6	1232.1	1228.8	1231.4	1221.0	1208.7	1208.1	1196.4	1206.1
17.5°	1241.2	1234.7	1228.8	1219.7	1215.2	1217.1	1208.7	1197.7	1199.0	1191.8	1202.9
20°	1231.4	1224.3	1215.2	1206.1	1199.6	1202.9	1197.0	1188.6	1190.5	1185.3	1195.1
22.5°	1220.4	1210.7	1199.6	1189.2	1184.0	1188.6	1184.0	1176.9	1177.6	1174.3	1180.1
25°	1206.1	1195.1	1182.1	1169.1	1166.5	1169.8	1167.2	1161.3	1158.7	1153.5	1156.1
27.5°	1193.1	1180.8	1164.6	1150.9	1146.4	1152.9	1147.0	1137.3	1130.2	1123.0	1117.8
30°	1178.2	1163.3	1145.1	1129.5	1125.6	1128.2	1119.8	1104.8	1086.0	1076.9	1062.7
32.5°	1162.0	1142.5	1119.8	1102.2	1099.7	1097.7	1082.1	1060.7	1031.5	1013.3	991.2
35°	1140.5	1119.1	1091.9	1070.4	1066.5	1055.5	1030.2	1001.6	964.0	932.8	895.2
37.5°	1116.5	1091.2	1062.7	1034.1	1023.1	1001.0	965.3	935.4	878.3	840.6	795.2
40°	1089.3	1058.8	1023.7	989.3	971.1	935.4	894.5	850.4	795.2	744.6	706.3
42.5°	1051.6	1019.2	977.6	939.3	908.2	860.8	812.7	750.4	699.8	656.9	618.0
45°	1006.8	967.9	919.8	873.8	834.2	777.7	721.2	658.9	616.7	566.7	540.1
47.5°	949.1	906.9	855.6	804.3	752.4	690.0	631.0	571.2	529.1	493.4	473.9
50°	880.9	841.9	785.5	724.4	667.3	602.4	543.3	498.5	457.6	435.6	420.6
52.5°	796.5	760.1	702.4	636.2	581.0	517.4	463.5	427.1	397.9	381.7	376.5
55°	702.4	670.6	613.4	551.8	495.3	436.9	396.0	364.2	345.3	335.6	336.3
57.5°	601.8	577.1	523.2	468.0	414.8	370.7	333.7	308.3	294.1	293.4	295.4
60°	501.1	483.0	436.2	388.8	342.1	306.4	279.1	261.6	252.5	253.2	252.5
62.5°	405.1	388.2	354.4	315.5	278.5	254.5	229.8	222.7	214.9	214.2	214.2
65°	318.7	305.7	278.5	250.6	222.7	207.1	194.7	186.3	180.5	179.2	179.8
67.5°	239.5	234.3	215.5	196.7	179.2	169.4	159.0	157.1	152.5	152.5	153.8
70°	178.5	174.6	164.2	153.2	146.1	139.6	134.4	134.4	133.7	133.1	136.3
72.5°	129.2	129.8	126.6	118.1	117.5	116.2	114.9	116.8	117.5	119.4	123.3
75°	90.9	92.8	92.8	91.5	94.1	97.4	99.3	102.6	106.5	109.1	113.6
77.5°	64.3	64.3	67.5	71.4	76.6	82.4	87.6	92.2	97.4	100.6	104.5
80°	41.5	43.5	48.7	55.8	63.0	70.8	77.9	83.7	88.9	94.1	96.7
82.5°	24.7	27.9	34.4	43.5	52.6	62.3	69.5	76.6	82.4	87.6	89.6
85°	12.3	16.9	24.7	34.4	44.1	54.5	63.6	70.1	76.6	81.1	83.7
87.5°	3.9	9.1	17.5	26.6	37.0	47.4	57.1	64.3	70.1	74.0	76.6
90°	0.0	4.5	12.3	22.1	31.8	42.2	51.3	59.1	64.9	68.2	70.1
92.5°	0.0	2.6	9.7	18.2	27.3	37.7	46.7	53.9	59.1	62.3	63.6
95°	0.6	1.9	7.1	14.9	24.0	33.8	42.2	48.7	53.9	57.1	57.8
97.5°	0.6	1.3	5.8	12.3	20.8	29.9	38.3	44.8	48.7	51.9	52.6
100°	0.6	1.3	4.5	11.0	18.2	26.6	34.4	40.2	44.8	47.4	48.0
102.5°	0.6	0.6	3.9	9.1	16.2	23.4	30.5	36.4	40.2	42.8	44.1
105°	0.6	0.6	3.2	7.8	14.3	20.8	27.3	33.1	36.4	38.9	40.2
107.5°	0.6	0.6	2.6	6.5	12.3	18.2	24.7	29.2	33.1	35.7	37.0
110°	0.6	0.6	1.9	5.8	10.4	16.2	21.4	26.0	29.9	32.5	33.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.6	0.6	1.9	5.2	9.1	14.3	18.8	23.4	26.6	29.2	31.2
115°	0.6	0.6	1.9	4.5	8.4	12.3	16.9	20.8	24.0	26.6	28.6
117.5°	0.6	0.6	1.9	3.9	7.1	11.0	14.9	18.8	21.4	24.0	26.0
120°	0.6	0.6	1.3	3.2	6.5	9.7	13.0	16.2	19.5	22.1	24.0
122.5°	0.6	0.6	1.3	3.2	5.2	8.4	11.7	14.3	17.5	19.5	21.4
125°	0.6	0.6	1.3	2.6	4.5	7.8	10.4	13.0	14.9	17.5	19.5
127.5°	0.6	0.6	1.3	2.6	3.9	6.5	9.1	11.7	13.6	15.6	16.9
130°	0.6	0.6	1.3	1.9	3.2	5.2	7.8	9.7	12.3	13.6	14.9
132.5°	0.6	0.6	0.6	1.9	2.6	3.9	5.8	8.4	10.4	12.3	13.0
135°	0.6	0.6	0.6	1.3	2.6	3.2	4.5	6.5	8.4	10.4	11.7
137.5°	0.6	0.6	0.6	1.3	1.9	3.2	3.9	5.2	7.1	8.4	10.4
140°	0.6	0.6	0.6	1.3	1.9	2.6	3.2	4.5	5.8	7.1	8.4
142.5°	0.6	0.6	0.6	1.3	1.3	1.9	2.6	3.9	4.5	5.8	7.1
145°	0.6	0.6	0.6	1.3	1.3	1.9	2.6	3.2	3.9	4.5	5.8
147.5°	0.6	0.6	0.6	1.3	1.3	1.3	1.9	2.6	3.2	3.9	4.5
150°	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9	2.6	3.2	3.9
152.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9	1.9	2.6	3.2
155°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9	2.6	2.6
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7
2.5°	1245.7	1247.0	1254.8	1254.1	1252.9	1251.6	1251.6	1250.3	1251.6	1254.8	1253.5
5°	1239.2	1241.2	1247.0	1246.4	1245.1	1244.4	1243.8	1241.8	1243.1	1247.7	1246.4
7.5°	1227.5	1229.5	1234.7	1232.1	1230.1	1231.4	1228.2	1226.2	1228.8	1233.4	1232.7
10°	1215.2	1216.5	1223.0	1221.7	1218.4	1219.1	1215.8	1214.6	1217.8	1220.4	1221.0
12.5°	1206.8	1211.3	1217.1	1216.5	1215.8	1216.5	1213.3	1212.0	1213.9	1216.5	1215.8
15°	1204.8	1210.7	1217.1	1217.1	1217.8	1218.4	1215.2	1213.3	1215.2	1217.1	1216.5
17.5°	1202.9	1210.0	1215.8	1215.2	1215.8	1217.1	1212.0	1210.7	1213.3	1215.8	1214.6
20°	1196.4	1202.9	1206.8	1205.5	1205.5	1206.1	1199.6	1199.6	1203.5	1205.5	1206.1
22.5°	1178.2	1186.0	1186.0	1182.7	1182.7	1180.1	1178.2	1174.3	1178.8	1182.1	1184.7
25°	1150.9	1154.2	1150.3	1143.1	1139.3	1136.0	1126.9	1134.7	1134.7	1144.4	1147.7
27.5°	1112.6	1105.5	1094.5	1079.5	1076.3	1065.9	1060.1	1062.0	1065.2	1078.9	1089.3
30°	1049.7	1028.2	1009.4	1002.9	988.6	978.3	967.9	973.1	978.9	986.7	1008.1
32.5°	966.6	945.8	915.3	904.3	889.3	876.3	864.0	871.8	882.2	887.4	910.8
35°	871.2	846.5	818.6	799.7	784.2	777.0	761.4	772.5	783.5	787.4	807.5
37.5°	769.9	744.6	719.9	703.7	688.7	684.2	673.8	681.6	690.0	695.9	712.8
40°	673.8	650.4	631.6	620.6	610.2	606.3	602.4	605.7	612.1	616.7	629.7
42.5°	591.4	572.5	559.6	553.1	545.9	540.7	541.4	542.7	545.9	555.7	561.5
45°	519.3	508.3	499.8	498.5	494.0	493.4	492.7	495.3	497.2	503.1	507.6
47.5°	461.5	457.0	455.1	457.6	459.6	457.0	458.3	461.5	465.4	465.4	464.8
50°	416.1	417.4	420.0	425.8	429.7	431.0	432.3	436.2	436.9	438.2	436.2
52.5°	379.1	380.4	387.5	396.6	401.2	403.1	405.7	409.6	409.6	410.9	408.3
55°	341.5	343.4	350.5	359.6	363.5	366.1	368.7	371.3	373.3	375.9	373.9
57.5°	299.9	305.7	310.3	312.9	315.5	317.4	319.4	320.0	323.9	324.6	327.8
60°	255.8	257.1	261.6	261.0	259.0	264.2	261.6	266.1	270.7	276.5	277.2
62.5°	213.6	214.2	217.5	216.2	218.8	218.1	220.1	220.1	223.3	225.9	229.1
65°	180.5	181.1	183.7	183.7	183.1	185.0	187.0	188.3	188.3	190.2	192.8
67.5°	155.8	157.7	160.3	161.6	162.9	162.9	164.9	165.5	166.8	167.5	168.8
70°	138.9	141.5	144.1	145.4	146.1	147.4	148.0	148.0	149.3	150.0	151.3
72.5°	126.6	129.2	131.1	131.1	132.4	133.1	133.1	133.7	134.4	135.7	137.0
75°	116.2	118.1	119.4	118.8	118.8	118.8	119.4	119.4	120.7	122.0	123.3
77.5°	106.5	108.4	108.4	107.1	107.1	107.1	107.1	107.8	108.4	109.7	111.0
80°	99.3	99.3	98.7	98.7	97.4	96.7	96.7	97.4	97.4	98.7	100.6
82.5°	91.5	91.5	90.9	90.2	89.6	88.9	88.9	89.6	90.2	90.9	92.2
85°	84.4	84.4	83.1	83.1	82.4	82.4	82.4	82.4	83.1	83.7	85.0
87.5°	77.2	76.6	76.0	75.3	75.3	75.3	75.3	75.3	76.0	77.2	77.9
90°	70.1	69.5	68.8	68.8	68.2	68.2	68.8	68.8	69.5	70.1	70.8
92.5°	63.6	63.0	62.3	62.3	61.7	61.7	62.3	61.7	63.0	63.0	63.6
95°	57.8	57.1	56.5	56.5	56.5	56.5	56.5	56.5	57.1	57.1	57.8
97.5°	52.6	51.9	51.3	51.3	51.9	51.3	51.9	51.9	51.9	52.6	53.2
100°	48.0	47.4	47.4	48.0	47.4	47.4	48.0	48.0	48.0	48.0	48.7
102.5°	44.1	44.1	44.1	44.1	44.1	44.1	44.8	44.8	44.8	44.8	45.4
105°	40.2	40.9	40.9	40.9	41.5	41.5	41.5	42.2	42.2	42.2	42.2
107.5°	37.7	38.3	38.3	38.9	38.9	39.6	39.6	39.6	39.6	40.2	40.2
110°	35.1	35.7	36.4	37.0	37.0	37.7	37.7	37.7	37.7	37.7	37.7

TEST NUMBER: P1213401

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	32.5	33.1	33.8	35.1	35.7	35.7	35.7	35.7	36.4	36.4	35.7
115°	29.9	31.2	31.8	33.1	33.8	33.8	34.4	34.4	34.4	34.4	33.8
117.5°	27.3	29.2	29.9	31.2	31.8	31.8	32.5	32.5	32.5	32.5	31.8
120°	25.3	26.6	27.9	28.6	29.2	29.9	29.9	30.5	30.5	30.5	29.9
122.5°	23.4	24.7	26.0	26.6	27.3	27.9	27.9	27.9	27.9	27.9	27.9
125°	20.8	22.1	23.4	24.0	24.7	25.3	25.3	26.0	26.0	26.0	25.3
127.5°	18.8	20.1	20.8	22.1	22.7	22.7	23.4	23.4	23.4	23.4	22.7
130°	16.2	17.5	18.8	19.5	20.1	20.1	20.8	20.8	20.8	20.8	20.8
132.5°	14.3	15.6	16.2	17.5	17.5	18.2	18.2	18.8	18.8	18.8	18.2
135°	13.0	13.6	14.3	15.6	15.6	16.2	16.2	16.2	16.2	16.2	16.2
137.5°	11.7	12.3	13.0	13.6	13.6	14.3	14.3	14.3	14.3	14.9	14.3
140°	9.7	11.0	11.7	11.7	12.3	12.3	12.3	13.0	13.0	13.0	12.3
142.5°	8.4	9.1	9.7	10.4	11.0	11.0	11.0	11.0	11.7	11.0	11.0
145°	6.5	7.8	8.4	9.1	9.7	9.7	9.7	9.7	9.7	9.7	9.7
147.5°	5.2	5.8	7.1	7.8	7.8	8.4	8.4	8.4	8.4	8.4	8.4
150°	4.5	4.5	5.8	6.5	7.1	7.1	7.1	7.1	7.1	7.1	7.1
152.5°	3.2	3.9	4.5	5.2	5.8	5.8	5.8	5.8	5.8	5.8	5.8
155°	3.2	3.2	3.9	3.9	4.5	4.5	4.5	4.5	5.2	4.5	4.5
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: P1213401

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7
2.5°	1251.6	1250.9	1253.5	1250.9	1237.9	1243.1	1241.2	1248.3	1249.0	1250.9	1257.4
5°	1245.1	1245.1	1248.3	1245.7	1233.4	1238.6	1237.9	1245.1	1246.4	1247.7	1254.8
7.5°	1232.1	1232.7	1237.3	1235.3	1222.3	1230.1	1229.5	1237.9	1240.5	1243.1	1249.6
10°	1219.7	1219.1	1224.3	1222.3	1210.0	1219.1	1218.4	1226.9	1230.8	1235.3	1243.1
12.5°	1213.3	1211.3	1213.3	1211.3	1197.7	1204.8	1205.5	1215.2	1219.7	1225.6	1234.7
15°	1213.3	1210.0	1210.0	1206.1	1190.5	1195.1	1195.7	1202.2	1208.1	1213.9	1224.9
17.5°	1212.0	1208.7	1208.1	1204.8	1187.9	1187.9	1187.3	1191.8	1195.1	1200.9	1212.6
20°	1204.8	1203.5	1202.9	1200.9	1185.3	1182.7	1181.4	1181.4	1183.4	1185.3	1197.0
22.5°	1186.0	1187.3	1188.6	1189.9	1177.6	1173.0	1173.7	1172.4	1170.4	1170.4	1180.1
25°	1150.9	1157.4	1162.6	1168.5	1161.3	1158.1	1162.0	1160.0	1156.8	1154.2	1162.6
27.5°	1095.1	1108.7	1119.8	1134.1	1134.7	1132.1	1142.5	1141.2	1140.5	1136.7	1143.1
30°	1017.9	1039.3	1054.2	1075.0	1092.5	1095.1	1112.6	1115.2	1117.8	1115.9	1122.4
32.5°	924.4	953.6	978.9	1011.4	1028.2	1043.2	1067.8	1078.2	1088.6	1091.9	1099.0
35°	822.5	855.6	885.4	921.1	947.8	980.2	1010.1	1025.7	1049.0	1058.1	1068.5
37.5°	725.7	756.9	786.1	821.8	864.7	898.4	935.4	970.5	1002.3	1015.3	1030.8
40°	640.1	665.4	693.3	724.4	763.4	807.5	847.8	896.5	934.1	960.1	982.8
42.5°	575.1	587.5	611.5	639.4	670.6	715.4	756.3	810.8	856.2	893.2	930.9
45°	517.4	523.2	540.7	555.7	587.5	627.1	670.6	723.8	771.2	818.6	864.0
47.5°	468.0	475.2	483.6	492.7	515.4	548.5	586.2	634.2	681.6	736.8	788.7
50°	434.9	436.9	438.2	442.1	455.7	478.4	508.9	549.8	595.3	654.3	709.5
52.5°	405.7	405.7	401.8	399.9	405.1	419.3	436.9	466.1	512.8	567.4	625.8
55°	374.6	368.7	367.4	360.9	362.2	368.7	377.2	399.9	438.2	484.9	541.4
57.5°	331.1	328.5	328.5	325.9	320.7	323.9	325.9	342.1	369.4	409.6	458.9
60°	281.1	279.8	283.0	283.7	279.1	281.1	280.4	290.2	309.6	342.1	383.0
62.5°	231.1	236.9	237.6	240.2	237.6	236.9	240.2	248.6	258.4	283.0	314.8
65°	194.1	197.3	198.0	201.2	199.9	199.9	202.5	209.0	214.9	231.7	256.4
67.5°	170.1	168.8	169.4	171.4	169.4	168.8	170.7	174.6	179.2	189.6	207.1
70°	151.3	150.0	150.0	150.0	147.4	145.4	146.1	147.4	149.3	155.1	166.2
72.5°	137.0	137.0	135.0	133.1	131.1	129.8	128.5	127.2	126.6	128.5	134.4
75°	124.0	124.6	124.0	122.0	119.4	116.8	114.2	111.7	108.4	107.1	107.8
77.5°	112.3	113.0	113.6	113.0	110.4	107.1	103.2	99.3	94.8	90.2	87.6
80°	101.9	103.2	103.9	103.2	101.3	98.7	94.1	89.6	83.1	77.2	70.8
82.5°	92.8	94.8	95.4	95.4	94.1	91.5	86.3	81.1	74.0	66.2	57.8
85°	85.7	87.0	88.3	88.3	87.6	85.0	79.8	74.0	66.9	57.8	48.7
87.5°	78.5	79.2	80.5	81.8	80.5	77.9	73.4	66.9	59.7	50.6	40.2
90°	71.4	72.1	73.4	74.7	74.0	71.4	67.5	61.7	53.9	44.1	33.8
92.5°	64.3	65.6	66.2	66.9	67.5	65.6	62.3	56.5	48.7	38.9	29.2
95°	59.1	59.1	60.4	61.0	61.7	59.7	57.1	51.3	44.1	35.1	25.3
97.5°	53.9	53.9	55.2	55.2	55.8	54.5	51.9	46.7	39.6	31.2	21.4
100°	48.7	49.3	50.0	50.6	50.6	50.0	47.4	42.2	35.7	27.9	18.8
102.5°	45.4	45.4	46.1	46.1	46.7	45.4	42.8	38.3	31.8	24.7	16.2
105°	42.2	42.2	42.8	42.8	42.2	40.9	38.3	34.4	28.6	21.4	14.3
107.5°	39.6	39.6	39.6	39.6	38.9	37.7	35.1	30.5	25.3	19.5	13.0
110°	37.7	37.0	37.0	36.4	35.7	33.8	31.2	27.3	22.7	16.9	11.0

TEST NUMBER: P1213401

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	35.7	35.1	34.4	33.8	32.5	30.5	27.9	24.7	20.1	14.9	9.7
115°	33.8	33.1	32.5	31.2	29.9	27.9	25.3	22.1	17.5	13.0	8.4
117.5°	31.8	31.2	29.9	28.6	27.3	25.3	22.7	19.5	15.6	11.7	7.8
120°	29.2	28.6	27.9	26.6	25.3	22.7	20.1	17.5	13.6	10.4	6.5
122.5°	27.3	26.6	25.3	24.7	22.7	20.8	18.2	15.6	12.3	9.1	5.8
125°	24.7	24.0	23.4	22.1	20.8	18.2	16.2	13.6	11.0	7.8	4.5
127.5°	22.7	22.1	20.8	19.5	18.2	16.2	14.3	12.3	9.7	6.5	4.5
130°	20.1	19.5	18.8	17.5	16.2	14.3	13.0	10.4	8.4	5.8	3.9
132.5°	17.5	17.5	16.9	15.6	14.3	13.0	11.0	9.1	7.1	5.2	3.2
135°	16.2	15.6	14.9	13.6	13.0	11.0	9.7	7.8	5.8	4.5	2.6
137.5°	14.3	13.6	13.0	12.3	11.0	9.7	8.4	6.5	5.2	3.9	2.6
140°	12.3	11.7	11.7	10.4	9.7	8.4	7.1	5.8	4.5	3.2	1.9
142.5°	11.0	10.4	9.7	9.1	8.4	7.1	5.8	4.5	3.9	2.6	1.9
145°	9.7	9.1	8.4	7.8	7.1	5.8	5.2	3.9	3.2	2.6	1.9
147.5°	7.8	7.8	7.1	6.5	5.8	5.2	4.5	3.9	2.6	1.9	1.3
150°	6.5	6.5	5.8	5.2	5.2	4.5	3.9	3.2	2.6	1.9	1.3
152.5°	5.8	5.2	5.2	4.5	4.5	3.9	3.2	2.6	1.9	1.9	1.3
155°	4.5	4.5	4.5	3.9	3.9	3.2	2.6	2.6	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: P1213401

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7
2.5°	1258.7	1250.9	1257.4	1269.1	1267.8	1266.5	1265.2	1267.8	1276.2	1271.7	1264.5
5°	1256.7	1249.0	1256.1	1267.1	1266.5	1264.5	1263.2	1265.8	1274.3	1269.7	1261.9
7.5°	1252.9	1245.7	1250.9	1261.9	1261.9	1260.6	1259.3	1261.9	1269.7	1265.8	1258.0
10°	1246.4	1241.2	1246.4	1256.7	1257.4	1254.8	1253.5	1256.7	1264.5	1262.6	1256.1
12.5°	1241.2	1236.0	1241.8	1252.2	1252.9	1250.3	1248.3	1252.2	1262.6	1263.9	1261.9
15°	1234.0	1229.5	1236.6	1247.7	1247.7	1245.7	1245.7	1250.9	1265.2	1271.0	1274.3
17.5°	1223.6	1220.4	1228.8	1239.9	1240.5	1239.2	1239.9	1250.3	1269.1	1283.4	1292.4
20°	1210.7	1209.4	1218.4	1230.1	1232.1	1232.7	1236.0	1251.6	1277.5	1297.0	1306.1
22.5°	1195.1	1195.7	1206.1	1218.4	1221.0	1223.0	1229.5	1251.6	1284.0	1304.8	1308.7
25°	1177.6	1179.5	1190.5	1205.5	1208.7	1212.6	1223.6	1252.2	1286.0	1299.6	1293.1
27.5°	1158.7	1162.6	1176.9	1192.5	1196.4	1202.9	1217.1	1248.3	1276.9	1277.5	1253.5
30°	1139.3	1143.8	1160.7	1178.8	1185.3	1191.8	1209.4	1239.2	1254.8	1234.0	1191.8
32.5°	1117.2	1123.7	1140.5	1162.6	1170.4	1178.8	1196.4	1221.7	1215.8	1171.1	1110.7
35°	1089.3	1098.4	1117.8	1143.8	1150.9	1162.0	1174.3	1180.1	1154.2	1090.6	1022.4
37.5°	1054.9	1068.5	1091.2	1121.1	1128.9	1136.0	1139.3	1123.0	1071.1	1002.3	931.5
40°	1015.3	1036.0	1060.7	1093.8	1101.6	1101.6	1089.9	1055.5	989.9	899.7	821.2
42.5°	967.2	992.5	1023.7	1056.8	1064.6	1055.5	1027.6	967.2	892.6	792.0	708.9
45°	908.8	942.6	977.6	1012.0	1015.9	995.8	945.8	869.2	777.0	683.6	604.4
47.5°	839.3	883.5	921.8	960.7	955.5	921.8	854.9	767.9	670.6	582.3	518.7
50°	761.4	813.4	856.2	893.2	882.2	835.5	756.9	666.0	569.3	494.0	441.4
52.5°	678.4	738.1	780.9	810.8	795.9	740.0	653.7	566.7	487.5	418.7	383.6
55°	592.0	652.4	696.5	719.9	700.4	640.1	555.0	475.8	401.2	356.4	335.6
57.5°	508.3	564.8	606.3	625.1	600.5	540.1	461.5	394.7	340.8	303.2	292.8
60°	427.8	473.9	513.5	527.8	501.1	445.3	377.8	324.6	285.0	259.0	253.8
62.5°	353.1	390.8	421.9	433.0	407.0	363.5	305.1	265.5	237.6	224.6	218.1
65°	291.5	313.5	345.3	343.4	327.8	287.6	244.7	216.8	198.6	190.2	186.3
67.5°	229.1	249.3	269.4	272.0	252.5	224.6	196.7	176.6	166.8	162.3	160.3
70°	177.2	192.1	204.5	201.2	190.8	173.3	155.8	144.8	140.9	138.9	138.9
72.5°	137.6	145.4	151.3	147.4	140.9	131.8	123.3	118.8	119.4	120.7	122.0
75°	106.5	108.4	109.7	105.8	104.5	98.7	98.0	98.7	102.6	106.5	108.4
77.5°	81.8	79.2	77.2	73.4	74.0	73.4	76.6	81.8	87.6	93.5	98.7
80°	63.0	57.1	52.6	48.7	50.6	53.9	60.4	68.2	76.0	82.4	88.9
82.5°	48.7	40.2	33.8	29.9	33.8	38.9	47.4	57.1	66.2	73.4	80.5
85°	37.7	27.9	20.1	16.2	20.1	27.9	37.0	48.0	57.8	65.6	72.7
87.5°	29.2	20.1	11.0	6.5	11.0	19.5	29.9	40.2	50.0	59.1	66.2
90°	23.4	13.6	5.2	1.3	5.8	13.6	23.4	33.8	43.5	53.2	60.4
92.5°	18.8	9.7	2.6	0.0	3.2	10.4	19.5	29.2	38.9	48.0	55.2
95°	15.6	7.8	1.9	0.0	2.6	7.8	15.6	25.3	34.4	43.5	49.3
97.5°	13.0	5.8	1.3	0.0	1.3	6.5	13.0	21.4	30.5	38.9	44.8
100°	11.0	5.2	1.3	0.0	1.3	5.2	11.0	18.8	26.6	34.4	40.2
102.5°	9.1	3.9	0.6	0.6	0.6	3.9	9.7	16.2	23.4	30.5	36.4
105°	8.4	3.2	0.6	0.6	0.6	3.2	8.4	14.3	20.8	27.3	32.5
107.5°	7.1	2.6	0.6	0.6	0.6	2.6	7.1	12.3	18.8	24.7	29.2
110°	5.8	2.6	0.6	0.6	0.6	2.6	5.8	11.0	16.2	21.4	26.0

TEST NUMBER: P1213401

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	5.2	1.9	0.6	0.6	0.6	1.9	5.2	9.7	14.3	19.5	23.4
115°	4.5	1.9	0.6	0.6	0.6	1.9	4.5	8.4	12.3	16.9	20.8
117.5°	3.9	1.9	0.6	0.6	0.6	1.3	3.9	7.1	11.0	14.9	18.8
120°	3.2	1.3	0.6	0.6	0.6	1.3	3.2	6.5	9.7	13.0	16.2
122.5°	3.2	1.3	0.6	0.6	0.6	1.3	2.6	5.2	8.4	11.0	14.3
125°	2.6	1.3	0.6	0.6	0.6	0.6	2.6	4.5	7.1	9.7	12.3
127.5°	2.6	1.3	0.6	0.6	0.6	0.6	1.9	3.9	5.8	8.4	11.0
130°	1.9	1.3	0.6	0.6	0.6	0.6	1.3	3.2	5.2	7.1	9.1
132.5°	1.9	1.3	0.6	0.6	0.6	0.6	1.3	2.6	3.9	5.8	7.8
135°	1.9	0.6	0.6	0.6	0.6	0.6	0.6	1.9	3.2	4.5	5.8
137.5°	1.3	0.6	0.6	0.6	0.6	0.6	0.6	1.3	2.6	3.2	5.2
140°	1.3	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.9	2.6	3.9
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	2.6
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: P1213401

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7
2.5°	1263.2	1248.3	1256.1	1253.5	1256.1	1262.6	1261.9	1260.0	1261.3	1258.0	1254.8
5°	1260.6	1245.7	1253.5	1250.3	1253.5	1260.0	1258.7	1256.7	1258.7	1254.8	1251.6
7.5°	1257.4	1243.8	1252.9	1252.2	1258.0	1266.5	1267.1	1267.1	1271.7	1265.8	1263.2
10°	1257.4	1250.3	1262.6	1267.1	1282.1	1293.1	1294.4	1297.0	1304.8	1303.5	1297.0
12.5°	1271.0	1269.7	1287.9	1298.9	1312.6	1328.2	1336.6	1339.2	1344.4	1340.5	1337.9
15°	1288.6	1295.0	1315.2	1327.5	1342.4	1354.1	1356.1	1357.4	1361.3	1355.4	1350.9
17.5°	1311.9	1315.8	1332.0	1337.2	1347.0	1348.9	1346.3	1339.8	1339.8	1326.9	1323.0
20°	1323.0	1321.0	1327.5	1319.1	1315.2	1303.5	1292.4	1280.1	1279.5	1265.8	1264.5
22.5°	1313.2	1300.2	1286.6	1265.8	1256.7	1239.9	1224.9	1217.8	1213.3	1195.7	1191.2
25°	1278.8	1247.0	1226.9	1202.2	1180.1	1160.7	1146.4	1131.5	1117.2	1102.9	1096.4
27.5°	1219.1	1189.2	1156.8	1122.4	1091.9	1062.0	1038.0	1023.1	1009.4	990.6	980.9
30°	1145.7	1104.2	1068.5	1035.4	985.4	949.1	928.9	899.1	888.7	880.2	862.1
32.5°	1059.4	1009.4	960.7	915.9	864.7	830.9	804.3	782.2	775.7	753.7	748.5
35°	964.0	898.4	843.2	799.1	762.1	721.2	699.1	684.2	671.2	656.3	653.7
37.5°	851.7	792.6	730.3	691.3	662.1	627.1	610.2	599.8	594.0	582.9	581.0
40°	738.7	679.7	636.8	597.9	579.7	560.9	548.5	544.0	541.4	537.5	533.6
42.5°	636.2	584.2	553.7	527.8	520.0	510.9	507.6	510.2	507.6	506.3	505.7
45°	549.2	509.6	488.2	480.4	478.4	475.8	478.4	483.0	483.6	482.3	482.3
47.5°	470.0	451.2	442.1	443.4	446.6	448.6	453.1	458.9	460.2	457.0	458.3
50°	418.0	407.0	405.1	410.3	417.4	420.0	425.2	429.7	429.1	427.8	426.5
52.5°	369.4	366.1	371.3	376.5	384.3	385.6	387.5	389.5	388.8	386.2	384.9
55°	328.5	331.1	335.6	337.6	343.4	342.7	343.4	343.4	340.8	339.5	337.6
57.5°	291.5	292.1	294.7	295.4	298.6	297.3	296.7	295.4	291.5	290.8	288.9
60°	253.8	252.5	258.4	253.8	256.4	253.8	253.2	249.9	246.0	245.4	244.1
62.5°	218.1	215.5	219.4	217.5	218.8	216.2	214.9	211.0	207.7	207.1	206.4
65°	186.3	185.0	188.9	188.3	189.6	186.3	185.0	182.4	179.8	179.2	178.5
67.5°	159.7	162.9	164.9	164.9	166.2	165.5	162.3	161.6	161.0	158.4	158.4
70°	140.2	142.2	146.1	146.7	146.1	147.4	144.8	144.1	143.5	142.2	141.5
72.5°	124.6	127.2	131.1	131.8	131.1	131.1	129.8	129.2	129.2	127.2	127.2
75°	112.3	115.5	118.8	118.8	118.8	117.5	116.2	116.2	114.9	114.2	113.0
77.5°	101.9	105.8	108.4	107.8	107.1	105.8	105.8	103.9	101.9	101.9	100.6
80°	94.1	96.7	98.7	98.0	97.4	95.4	94.8	92.8	91.5	89.6	89.6
82.5°	85.7	88.9	90.2	89.6	88.3	86.3	85.7	84.4	83.1	82.4	81.1
85°	78.5	81.8	82.4	81.1	79.8	78.5	77.9	77.2	76.6	75.3	75.3
87.5°	71.4	74.7	74.7	74.0	72.7	72.1	71.4	70.8	70.1	69.5	68.8
90°	65.6	68.2	68.2	67.5	66.9	66.2	65.6	64.9	64.3	63.6	63.6
92.5°	59.7	62.3	62.3	61.7	61.0	60.4	60.4	59.7	59.1	58.4	57.8
95°	54.5	57.1	57.1	57.1	56.5	55.8	55.8	55.2	54.5	54.5	53.9
97.5°	49.3	51.9	51.9	51.9	51.3	50.6	50.6	50.0	50.0	50.0	49.3
100°	44.8	46.7	47.4	47.4	46.7	46.7	46.7	46.1	46.1	46.1	45.4
102.5°	40.2	42.2	43.5	43.5	43.5	42.8	42.8	42.8	42.8	42.8	42.2
105°	36.4	38.3	39.6	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
107.5°	33.1	35.1	36.4	37.0	37.7	37.7	38.3	38.3	38.3	38.3	38.3
110°	29.9	31.8	33.8	34.4	35.1	35.7	35.7	36.4	35.7	35.7	35.7

TEST NUMBER: P1213401

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	26.6	29.2	30.5	31.8	32.5	33.1	33.8	33.8	33.8	33.8	33.8
115°	24.0	26.6	27.9	29.2	30.5	31.2	31.2	31.8	31.8	31.8	31.2
117.5°	21.4	24.0	25.3	26.6	27.3	28.6	29.2	29.2	29.2	29.2	28.6
120°	19.5	21.4	22.7	24.0	25.3	26.0	26.6	26.6	26.6	26.6	26.6
122.5°	16.9	18.8	20.8	22.1	22.7	23.4	24.0	24.0	24.0	24.0	24.0
125°	14.9	16.9	18.2	19.5	20.1	21.4	21.4	21.4	21.4	21.4	21.4
127.5°	13.0	14.9	16.2	17.5	18.2	18.8	19.5	19.5	19.5	19.5	19.5
130°	11.0	13.0	14.3	15.6	16.2	16.9	16.9	17.5	17.5	17.5	17.5
132.5°	9.7	11.0	12.3	13.6	14.3	14.9	14.9	15.6	15.6	15.6	15.6
135°	7.8	9.7	10.4	11.7	12.3	13.0	13.0	13.6	13.6	13.6	13.6
137.5°	6.5	7.8	9.1	10.4	11.0	11.0	11.7	11.7	12.3	12.3	12.3
140°	5.2	5.8	7.8	8.4	9.1	9.7	10.4	10.4	10.4	10.4	10.4
142.5°	3.9	5.2	5.8	7.1	7.8	8.4	9.1	9.1	9.1	9.1	9.1
145°	3.2	3.9	4.5	5.8	6.5	7.1	7.8	7.8	7.8	7.8	7.8
147.5°	2.6	3.2	3.9	4.5	5.2	5.8	6.5	6.5	6.5	6.5	6.5
150°	1.9	2.6	3.2	3.2	3.9	4.5	5.2	5.8	5.8	5.8	5.8
152.5°	1.9	1.9	2.6	2.6	3.2	3.9	4.5	4.5	4.5	4.5	4.5
155°	1.3	1.9	1.9	1.9	2.6	2.6	3.2	3.9	3.9	3.9	3.9
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: P1213401

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7
2.5°	1256.7	1259.3	1258.0	1256.1	1255.4	1258.7	1255.4	1240.5	1246.4	1247.0	1251.6
5°	1254.8	1256.7	1255.4	1254.1	1252.2	1256.1	1252.2	1236.6	1242.5	1243.1	1247.7
7.5°	1267.8	1268.4	1268.4	1265.2	1260.0	1261.9	1256.7	1239.2	1242.5	1242.5	1245.7
10°	1300.2	1301.5	1303.5	1295.0	1288.6	1283.4	1276.2	1254.8	1254.1	1249.0	1249.0
12.5°	1342.4	1339.2	1335.9	1332.0	1326.9	1320.4	1310.0	1284.7	1276.2	1267.8	1259.3
15°	1354.8	1353.5	1352.8	1350.9	1347.6	1345.7	1337.9	1312.6	1300.2	1289.9	1274.9
17.5°	1322.3	1324.9	1333.3	1334.0	1337.9	1345.7	1344.4	1326.9	1315.8	1311.3	1293.1
20°	1263.9	1264.5	1274.9	1279.5	1296.3	1309.3	1319.1	1317.1	1314.5	1319.7	1306.1
22.5°	1193.8	1198.3	1209.4	1216.5	1232.7	1247.7	1263.2	1271.7	1285.3	1306.7	1304.1
25°	1098.4	1104.2	1119.8	1131.5	1154.2	1176.9	1197.7	1212.6	1228.8	1269.7	1283.4
27.5°	984.1	993.2	1013.3	1025.0	1056.8	1080.2	1110.0	1139.3	1162.0	1208.7	1236.6
30°	864.0	871.8	893.2	909.5	936.7	968.5	1006.2	1047.7	1085.4	1132.8	1167.8
32.5°	751.7	760.1	777.7	792.0	822.5	849.1	890.6	941.9	977.0	1042.5	1089.3
35°	653.7	661.5	673.8	686.1	711.5	738.7	774.4	824.4	869.2	937.4	996.4
37.5°	584.9	586.2	593.3	600.5	619.3	640.1	668.0	712.1	753.7	827.0	891.9
40°	535.5	535.5	539.4	541.4	549.8	562.2	579.7	614.1	648.5	704.3	783.5
42.5°	505.0	503.7	503.7	504.4	503.7	509.6	520.0	536.2	566.7	612.8	674.5
45°	482.3	479.7	477.8	473.2	470.6	470.6	471.3	477.1	494.6	524.5	574.5
47.5°	457.0	456.3	453.1	447.9	443.4	440.1	434.9	433.0	438.2	455.1	488.8
50°	427.8	424.5	421.3	417.4	412.2	409.0	399.2	399.9	395.3	403.1	420.6
52.5°	384.9	382.3	381.0	377.8	375.9	374.6	366.8	359.0	357.0	358.3	364.8
55°	337.6	338.9	333.7	336.3	335.6	329.8	326.5	320.7	318.7	318.1	321.3
57.5°	288.2	289.5	286.3	288.9	288.9	285.6	283.7	283.7	279.1	275.2	279.8
60°	243.4	240.8	242.8	246.0	246.0	244.1	242.8	242.8	239.5	238.2	241.5
62.5°	207.1	204.5	206.4	209.7	210.3	209.0	207.7	207.7	203.8	203.8	206.4
65°	179.2	179.8	179.2	181.8	181.8	182.4	181.1	179.8	175.3	177.2	176.6
67.5°	159.0	158.4	158.4	161.0	160.3	161.6	160.3	158.4	155.1	152.5	151.9
70°	142.2	141.5	141.5	142.8	143.5	143.5	142.8	141.5	137.0	134.4	132.4
72.5°	127.2	126.6	127.2	127.9	128.5	129.2	128.5	127.2	123.3	120.1	116.8
75°	113.6	113.0	114.9	114.9	115.5	115.5	116.2	115.5	112.3	108.4	104.5
77.5°	100.0	100.6	102.6	103.2	104.5	105.2	105.8	105.8	102.6	99.3	94.1
80°	88.9	90.2	91.5	92.2	93.5	95.4	96.1	96.7	94.1	90.9	85.0
82.5°	81.1	81.8	83.1	83.7	85.7	86.3	87.0	88.3	87.0	83.7	77.2
85°	74.7	75.3	76.6	76.6	77.9	79.2	79.8	80.5	79.8	76.6	70.1
87.5°	68.8	69.5	70.1	70.8	71.4	72.1	72.7	73.4	72.7	69.5	63.6
90°	63.6	63.6	64.3	64.3	64.9	65.6	66.9	66.9	66.2	63.6	57.8
92.5°	57.8	58.4	58.4	59.1	59.7	60.4	61.0	61.0	60.4	57.8	52.6
95°	53.9	53.9	54.5	54.5	55.2	55.2	55.8	55.8	55.2	52.6	47.4
97.5°	49.3	49.3	49.3	49.3	50.0	50.0	50.6	50.6	50.0	47.4	42.8
100°	45.4	45.4	45.4	45.4	45.4	46.1	46.1	46.1	45.4	42.8	38.3
102.5°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	40.9	38.9	34.4
105°	40.2	40.2	40.2	39.6	39.6	39.6	38.9	38.9	37.0	35.1	31.2
107.5°	37.7	37.7	37.7	37.0	37.0	36.4	35.7	35.7	33.8	31.8	27.9
110°	35.7	35.7	35.7	35.1	34.4	33.8	33.1	32.5	30.5	27.9	24.7



TEST NUMBER: P1213401

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	33.8	33.8	33.1	33.1	32.5	31.8	30.5	29.9	27.9	25.3	22.1
115°	31.2	31.2	31.2	30.5	29.9	29.2	28.6	27.3	25.3	22.7	19.5
117.5°	28.6	28.6	28.6	27.9	27.3	26.6	26.0	24.7	22.7	20.1	17.5
120°	26.0	26.0	26.0	25.3	24.7	24.0	23.4	22.1	20.1	18.2	14.9
122.5°	24.0	24.0	23.4	22.7	22.1	21.4	20.8	19.5	18.2	15.6	13.0
125°	21.4	21.4	20.8	20.8	20.1	19.5	18.8	17.5	15.6	13.6	11.7
127.5°	19.5	18.8	18.8	18.8	18.2	17.5	16.2	15.6	13.6	11.7	9.7
130°	16.9	16.9	16.9	16.2	16.2	15.6	14.3	13.0	11.7	10.4	8.4
132.5°	14.9	14.9	14.9	14.9	14.3	13.6	12.3	11.7	10.4	8.4	7.1
135°	13.6	13.6	13.0	13.0	12.3	11.7	11.0	9.7	8.4	7.1	5.8
137.5°	11.7	11.7	11.7	11.0	11.0	10.4	9.1	8.4	7.8	6.5	5.2
140°	10.4	10.4	9.7	9.7	9.1	9.1	8.4	7.1	6.5	5.2	4.5
142.5°	9.1	9.1	8.4	8.4	7.8	7.8	7.1	6.5	5.2	4.5	3.2
145°	7.8	7.8	7.1	7.1	7.1	6.5	5.8	5.2	4.5	3.9	3.2
147.5°	6.5	6.5	6.5	5.8	5.8	5.2	5.2	4.5	3.9	3.2	2.6
150°	5.8	5.8	5.2	5.2	5.2	4.5	3.9	3.9	3.2	2.6	1.9
152.5°	4.5	4.5	4.5	4.5	3.9	3.9	3.2	3.2	2.6	1.9	1.9
155°	3.9	3.9	3.9	3.2	3.2	3.2	2.6	2.6	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: P1213401

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7	1256.7
2.5°	1249.6	1249.0	1254.8	1254.1	1246.4	1258.0	1265.8
5°	1246.4	1245.7	1250.9	1252.2	1243.8	1256.1	1264.5
7.5°	1243.8	1243.1	1249.0	1250.9	1242.5	1253.5	1262.6
10°	1244.4	1241.2	1246.4	1247.7	1239.9	1251.6	1259.3
12.5°	1249.0	1241.2	1243.1	1243.1	1236.0	1246.4	1254.8
15°	1260.0	1243.8	1241.2	1239.2	1230.1	1239.9	1248.3
17.5°	1272.3	1250.3	1241.2	1234.7	1223.6	1232.1	1241.2
20°	1284.7	1257.4	1242.5	1232.1	1217.1	1224.9	1231.4
22.5°	1290.5	1263.9	1243.8	1228.2	1209.4	1213.3	1220.4
25°	1282.7	1261.3	1241.2	1222.3	1199.6	1200.3	1206.1
27.5°	1254.1	1248.3	1235.3	1216.5	1191.8	1188.6	1193.1
30°	1205.5	1221.7	1222.3	1208.7	1182.7	1176.3	1178.2
32.5°	1137.3	1173.7	1195.1	1192.5	1169.8	1160.7	1162.0
35°	1058.8	1104.2	1150.9	1166.5	1150.3	1143.1	1140.5
37.5°	964.6	1025.7	1088.0	1126.3	1123.7	1119.1	1116.5
40°	860.8	934.1	1008.1	1069.1	1088.0	1088.0	1089.3
42.5°	749.8	835.5	916.6	993.8	1038.0	1047.7	1051.6
45°	642.7	729.0	817.3	906.2	965.3	995.8	1006.8
47.5°	545.3	632.3	716.0	813.4	891.9	931.5	949.1
50°	462.2	527.1	615.4	712.1	797.8	846.5	880.9
52.5°	393.4	444.0	521.3	611.5	697.8	764.7	796.5
55°	335.6	370.0	435.6	513.5	595.9	665.4	702.4
57.5°	286.9	314.2	359.0	423.9	493.4	562.2	601.8
60°	244.1	262.9	293.4	344.7	403.8	462.8	501.1
62.5°	207.1	219.4	239.5	277.2	323.3	369.4	405.1
65°	178.5	183.7	194.7	218.1	253.2	288.2	318.7
67.5°	150.6	153.8	162.3	176.6	194.1	219.4	239.5
70°	129.8	129.8	130.5	138.9	148.0	164.2	178.5
72.5°	113.0	111.0	107.1	109.1	111.0	120.1	129.2
75°	99.3	94.8	88.3	85.7	84.4	85.7	90.9
77.5°	87.6	81.1	73.4	66.9	61.7	59.7	64.3
80°	77.9	70.1	61.0	52.6	44.1	39.6	41.5
82.5°	70.1	60.4	50.6	40.9	31.2	24.7	24.7
85°	61.7	52.6	42.2	31.8	22.1	13.6	12.3
87.5°	55.8	46.1	35.1	25.3	15.6	7.1	3.9
90°	50.0	40.2	29.9	20.1	11.0	3.2	0.0
92.5°	44.8	35.7	26.0	16.2	7.8	1.9	0.0
95°	40.2	31.8	22.1	13.6	6.5	1.3	0.6
97.5°	35.7	27.9	19.5	11.0	4.5	1.3	0.6
100°	32.5	24.7	16.9	9.1	3.9	0.6	0.6
102.5°	28.6	22.1	14.3	7.8	3.2	0.6	0.6
105°	25.3	19.5	12.3	6.5	2.6	0.6	0.6
107.5°	22.7	16.9	11.0	5.8	2.6	0.6	0.6
110°	20.1	14.9	9.7	5.2	1.9	0.6	0.6



TEST NUMBER: P1213401

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	18.2	13.0	8.4	4.5	1.3	0.6	0.6
115°	15.6	11.7	7.1	3.9	1.3	0.6	0.6
117.5°	13.6	9.7	6.5	3.2	1.3	0.6	0.6
120°	11.7	8.4	5.2	2.6	0.6	0.6	0.6
122.5°	10.4	7.1	4.5	2.6	0.6	0.6	0.6
125°	9.1	6.5	3.9	1.9	0.6	0.6	0.6
127.5°	7.8	5.2	3.2	1.3	0.6	0.6	0.6
130°	6.5	4.5	2.6	1.3	0.6	0.6	0.6
132.5°	5.2	3.9	2.6	1.3	0.6	0.6	0.6
135°	4.5	3.2	1.9	1.3	0.6	0.6	0.6
137.5°	3.9	2.6	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°	2.6	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)