

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: P1213698

Luminaire Tested: 2SNLED-LD5-34HL-LC-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213698
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-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

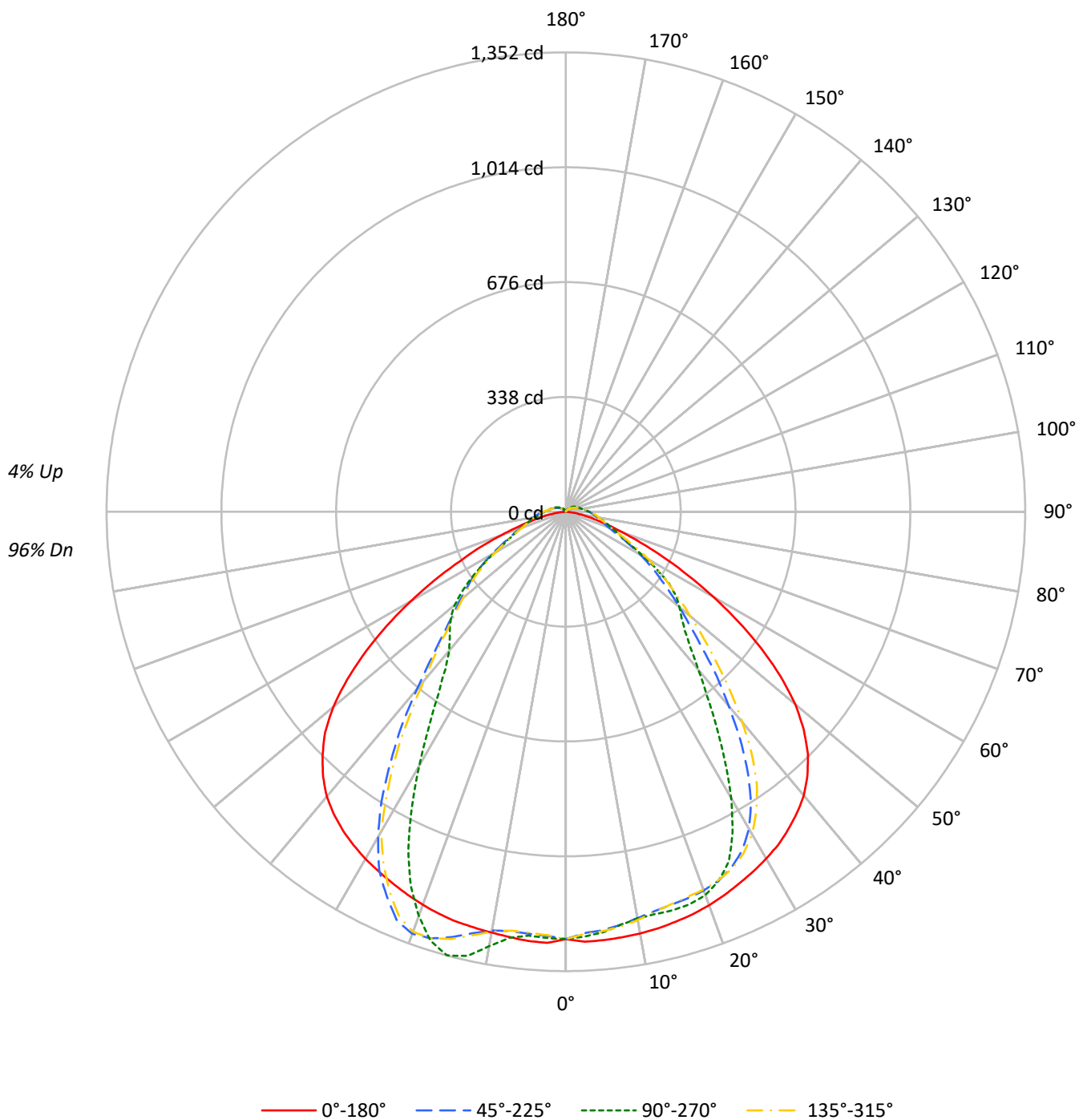
Lumens per Lamp: N/A
Luminaire Lumens: 2997.9 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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

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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°	20325	20325	20325	20325
5°	20418	19519	20460	19673
10°	20456	18708	20414	19978
15°	20556	18458	20546	20551
20°	20723	18164	20701	19148
25°	20913	17233	20903	16650
30°	21237	14935	21247	13231
35°	21574	12077	21636	10219
40°	21851	9725	21941	8568
45°	21673	8236	21785	8020
50°	20628	7583	20916	7414
55°	18180	6817	18636	6197
60°	14627	5216	15403	4783
65°	10754	3992	11587	3784
70°	7203	3445	8122	3294
75°	4603	3108	5362	2939
80°	2859	2897	3346	2665
85°	1330	2892	1752	2643

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 21785 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	4.0
10°-20°	355.4	11.9
20°-30°	540.3	18.0
30°-40°	579.7	19.3
40°-50°	503.1	16.8
50°-60°	372.8	12.4
60°-70°	213.6	7.1
70°-80°	118.3	3.9
80°-90°	72.0	2.4
90°-100°	46.8	1.6
100°-110°	31.4	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°	1015.2	33.9
0°-40°	1594.9	53.2
0°-60°	2470.8	82.4
0°-90°	2874.7	95.9
90°-120°	99.4	3.3
90°-150°	122.3	4.1
90°-180°	123.0	4.1
0°-180°	2997.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1258	1258	1258	1258	1258	
5°	1265	1243	1268	1252	1265	121
15°	1249	1214	1248	1352	1249	353
25°	1207	1136	1206	1097	1207	558
35°	1141	773	1145	654	1141	714
45°	1008	496	1013	483	1008	771
55°	703	372	720	338	703	623
65°	319	188	344	179	319	322
75°	91	120	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°	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6
2.5°	1266.7	1263.4	1262.1	1259.5	1261.5	1269.3	1264.1	1255.6	1256.3	1241.3	1249.1
5°	1265.4	1261.5	1259.5	1256.9	1258.2	1265.4	1260.2	1251.7	1251.1	1236.1	1243.3
7.5°	1263.4	1259.5	1256.3	1254.3	1255.0	1260.8	1254.3	1244.6	1242.6	1226.4	1232.9
10°	1260.2	1257.6	1253.0	1249.8	1249.1	1255.6	1245.2	1235.5	1231.0	1214.1	1220.6
12.5°	1255.6	1251.7	1247.2	1241.3	1240.7	1244.6	1236.1	1222.5	1218.0	1204.3	1211.5
15°	1249.1	1244.6	1239.4	1232.9	1229.7	1232.3	1221.9	1209.5	1208.9	1197.2	1206.9
17.5°	1242.0	1235.5	1229.7	1220.6	1216.0	1218.0	1209.5	1198.5	1199.8	1192.6	1203.7
20°	1232.3	1225.1	1216.0	1206.9	1200.4	1203.7	1197.8	1189.4	1191.3	1186.1	1195.9
22.5°	1221.2	1211.5	1200.4	1190.0	1184.8	1189.4	1184.8	1177.7	1178.3	1175.1	1180.9
25°	1206.9	1195.9	1182.9	1169.9	1167.3	1170.5	1167.9	1162.1	1159.5	1154.3	1156.9
27.5°	1193.9	1181.6	1165.3	1151.7	1147.2	1153.7	1147.8	1138.1	1130.9	1123.8	1118.6
30°	1179.0	1164.0	1145.9	1130.3	1126.4	1129.0	1120.5	1105.6	1086.7	1077.7	1063.4
32.5°	1162.7	1143.3	1120.5	1103.0	1100.4	1098.4	1082.8	1061.4	1032.2	1014.0	991.9
35°	1141.3	1119.9	1092.6	1071.2	1067.3	1056.2	1030.9	1002.3	964.6	933.4	895.8
37.5°	1117.3	1091.9	1063.4	1034.8	1023.7	1001.7	965.9	936.0	878.9	841.2	795.7
40°	1090.0	1059.5	1024.4	990.0	971.8	936.0	895.1	850.9	795.7	745.1	706.7
42.5°	1052.3	1019.8	978.3	939.9	908.8	861.3	813.3	750.9	700.2	657.4	618.4
45°	1007.5	968.5	920.5	874.3	834.7	778.2	721.7	659.3	617.1	567.1	540.4
47.5°	949.7	907.5	856.1	804.8	752.9	690.5	631.4	571.6	529.4	493.7	474.2
50°	881.5	842.5	786.0	724.9	667.8	602.8	543.7	498.9	458.0	435.9	420.9
52.5°	797.0	760.7	702.8	636.6	581.4	517.7	463.8	427.4	398.2	382.0	376.8
55°	702.8	671.0	613.9	552.1	495.6	437.2	396.2	364.4	345.6	335.8	336.5
57.5°	602.2	577.5	523.6	468.3	415.1	370.9	333.9	308.6	294.3	293.6	295.6
60°	501.5	483.3	436.5	389.1	342.3	306.6	279.3	261.8	252.7	253.3	252.7
62.5°	405.3	388.4	354.7	315.7	278.7	254.6	230.0	222.8	215.0	214.4	214.4
65°	318.9	306.0	278.7	250.7	222.8	207.2	194.9	186.4	180.6	179.3	179.9
67.5°	239.7	234.5	215.7	196.8	179.3	169.5	159.1	157.2	152.7	152.7	154.0
70°	178.6	174.7	164.3	153.3	146.2	139.7	134.5	134.5	133.8	133.2	136.4
72.5°	129.3	129.9	126.7	118.2	117.6	116.3	115.0	116.9	117.6	119.5	123.4
75°	90.9	92.9	92.9	91.6	94.2	97.4	99.4	102.6	106.5	109.1	113.7
77.5°	64.3	64.3	67.6	71.5	76.7	82.5	87.7	92.2	97.4	100.7	104.6
80°	41.6	43.5	48.7	55.9	63.0	70.8	77.9	83.8	89.0	94.2	96.8
82.5°	24.7	27.9	34.4	43.5	52.6	62.4	69.5	76.7	82.5	87.7	89.6
85°	12.3	16.9	24.7	34.4	44.2	54.6	63.7	70.2	76.7	81.2	83.8
87.5°	3.9	9.1	17.5	26.6	37.0	47.4	57.2	64.3	70.2	74.1	76.7
90°	0.0	4.5	12.3	22.1	31.8	42.2	51.3	59.1	65.0	68.2	70.2
92.5°	0.0	2.6	9.7	18.2	27.3	37.7	46.8	53.9	59.1	62.4	63.7
95°	0.6	1.9	7.1	14.9	24.0	33.8	42.2	48.7	53.9	57.2	57.8
97.5°	0.6	1.3	5.8	12.3	20.8	29.9	38.3	44.8	48.7	52.0	52.6
100°	0.6	1.3	4.5	11.0	18.2	26.6	34.4	40.3	44.8	47.4	48.1
102.5°	0.6	0.6	3.9	9.1	16.2	23.4	30.5	36.4	40.3	42.9	44.2
105°	0.6	0.6	3.2	7.8	14.3	20.8	27.3	33.1	36.4	39.0	40.3
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°	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6
2.5°	1246.5	1247.8	1255.6	1255.0	1253.7	1252.4	1252.4	1251.1	1252.4	1255.6	1254.3
5°	1240.0	1242.0	1247.8	1247.2	1245.9	1245.2	1244.6	1242.6	1243.9	1248.5	1247.2
7.5°	1228.4	1230.3	1235.5	1232.9	1231.0	1232.3	1229.0	1227.1	1229.7	1234.2	1233.6
10°	1216.0	1217.3	1223.8	1222.5	1219.3	1219.9	1216.7	1215.4	1218.6	1221.2	1221.9
12.5°	1207.6	1212.1	1218.0	1217.3	1216.7	1217.3	1214.1	1212.8	1214.7	1217.3	1216.7
15°	1205.6	1211.5	1218.0	1218.0	1218.6	1219.3	1216.0	1214.1	1216.0	1218.0	1217.3
17.5°	1203.7	1210.8	1216.7	1216.0	1216.7	1218.0	1212.8	1211.5	1214.1	1216.7	1215.4
20°	1197.2	1203.7	1207.6	1206.3	1206.3	1206.9	1200.4	1200.4	1204.3	1206.3	1206.9
22.5°	1179.0	1186.8	1186.8	1183.5	1183.5	1180.9	1179.0	1175.1	1179.6	1182.9	1185.5
25°	1151.7	1155.0	1151.1	1143.9	1140.0	1136.8	1127.7	1135.5	1135.5	1145.2	1148.5
27.5°	1113.4	1106.2	1095.2	1080.2	1077.0	1066.6	1060.8	1062.7	1066.0	1079.6	1090.0
30°	1050.4	1028.9	1010.1	1003.6	989.3	978.9	968.5	973.7	979.6	987.4	1008.8
32.5°	967.2	946.4	915.9	904.9	889.9	876.9	864.6	872.4	882.8	888.0	911.4
35°	871.7	847.1	819.1	800.3	784.7	777.5	762.0	773.0	784.0	787.9	808.1
37.5°	770.4	745.1	720.4	704.1	689.2	684.7	674.3	682.1	690.5	696.3	713.2
40°	674.3	650.9	632.0	621.0	610.6	606.7	602.8	606.1	612.6	617.1	630.1
42.5°	591.8	572.9	559.9	553.4	546.3	541.1	541.7	543.0	546.3	556.0	561.9
45°	519.7	508.6	500.2	498.9	494.3	493.7	493.0	495.6	497.6	503.4	508.0
47.5°	461.9	457.3	455.4	458.0	459.9	457.3	458.6	461.9	465.7	465.7	465.1
50°	416.4	417.7	420.3	426.1	430.0	431.3	432.6	436.5	437.2	438.5	436.5
52.5°	379.4	380.7	387.8	396.9	401.4	403.4	406.0	409.9	409.9	411.2	408.6
55°	341.7	343.6	350.8	359.9	363.8	366.4	369.0	371.6	373.5	376.1	374.2
57.5°	300.1	306.0	310.5	313.1	315.7	317.6	319.6	320.2	324.1	324.8	328.0
60°	255.9	257.2	261.8	261.1	259.2	264.4	261.8	266.3	270.9	276.7	277.4
62.5°	213.7	214.4	217.6	216.3	218.9	218.3	220.2	220.2	223.5	226.1	229.3
65°	180.6	181.2	183.8	183.8	183.2	185.1	187.1	188.4	188.4	190.3	192.9
67.5°	155.9	157.8	160.4	161.7	163.0	163.0	165.0	165.6	166.9	167.6	168.9
70°	139.0	141.6	144.2	145.5	146.2	147.5	148.1	148.1	149.4	150.1	151.4
72.5°	126.7	129.3	131.2	131.2	132.5	133.2	133.2	133.8	134.5	135.8	137.1
75°	116.3	118.2	119.5	118.9	118.9	118.9	119.5	119.5	120.8	122.1	123.4
77.5°	106.5	108.5	108.5	107.2	107.2	107.2	107.2	107.8	108.5	109.8	111.1
80°	99.4	99.4	98.7	98.7	97.4	96.8	96.8	97.4	97.4	98.7	100.7
82.5°	91.6	91.6	90.9	90.3	89.6	89.0	89.0	89.6	90.3	90.9	92.2
85°	84.4	84.4	83.1	83.1	82.5	82.5	82.5	82.5	83.1	83.8	85.1
87.5°	77.3	76.7	76.0	75.4	75.4	75.4	75.4	75.4	76.0	77.3	77.9
90°	70.2	69.5	68.9	68.9	68.2	68.2	68.9	68.9	69.5	70.2	70.8
92.5°	63.7	63.0	62.4	62.4	61.7	61.7	62.4	61.7	63.0	63.0	63.7
95°	57.8	57.2	56.5	56.5	56.5	56.5	56.5	56.5	57.2	57.2	57.8
97.5°	52.6	52.0	51.3	51.3	52.0	51.3	52.0	52.0	52.0	52.6	53.3
100°	48.1	47.4	47.4	48.1	47.4	47.4	48.1	48.1	48.1	48.1	48.7
102.5°	44.2	44.2	44.2	44.2	44.2	44.2	44.8	44.8	44.8	44.8	45.5
105°	40.3	40.9	40.9	40.9	41.6	41.6	41.6	42.2	42.2	42.2	42.2
107.5°	37.7	38.3	38.3	39.0	39.0	39.6	39.6	39.6	39.6	40.3	40.3
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: P1213698

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L940-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: P1213698

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6
2.5°	1252.4	1251.7	1254.3	1251.7	1238.7	1243.9	1242.0	1249.1	1249.8	1251.7	1258.2
5°	1245.9	1245.9	1249.1	1246.5	1234.2	1239.4	1238.7	1245.9	1247.2	1248.5	1255.6
7.5°	1232.9	1233.6	1238.1	1236.1	1223.2	1231.0	1230.3	1238.7	1241.3	1243.9	1250.4
10°	1220.6	1219.9	1225.1	1223.2	1210.8	1219.9	1219.3	1227.7	1231.6	1236.1	1243.9
12.5°	1214.1	1212.1	1214.1	1212.1	1198.5	1205.6	1206.3	1216.0	1220.6	1226.4	1235.5
15°	1214.1	1210.8	1210.8	1206.9	1191.3	1195.9	1196.5	1203.0	1208.9	1214.7	1225.8
17.5°	1212.8	1209.5	1208.9	1205.6	1188.7	1188.7	1188.1	1192.6	1195.9	1201.7	1213.4
20°	1205.6	1204.3	1203.7	1201.7	1186.1	1183.5	1182.2	1182.2	1184.2	1186.1	1197.8
22.5°	1186.8	1188.1	1189.4	1190.7	1178.3	1173.8	1174.4	1173.1	1171.2	1171.2	1180.9
25°	1151.7	1158.2	1163.4	1169.2	1162.1	1158.8	1162.7	1160.8	1157.5	1155.0	1163.4
27.5°	1095.8	1109.5	1120.5	1134.8	1135.5	1132.9	1143.3	1142.0	1141.3	1137.4	1143.9
30°	1018.5	1040.0	1054.9	1075.7	1093.2	1095.8	1113.4	1116.0	1118.6	1116.6	1123.1
32.5°	925.0	954.2	979.6	1012.0	1028.9	1043.9	1068.6	1079.0	1089.3	1092.6	1099.7
35°	823.0	856.1	886.0	921.8	948.4	980.9	1010.7	1026.3	1049.7	1058.8	1069.2
37.5°	726.2	757.4	786.6	822.4	865.2	899.0	936.0	971.1	1002.9	1015.9	1031.5
40°	640.5	665.8	693.8	724.9	763.9	808.1	848.4	897.1	934.7	960.7	983.5
42.5°	575.5	587.9	611.9	639.8	671.0	715.8	756.8	811.3	856.8	893.8	931.5
45°	517.7	523.6	541.1	556.0	587.9	627.5	671.0	724.3	771.7	819.1	864.6
47.5°	468.3	475.5	483.9	493.0	515.8	548.9	586.6	634.6	682.1	737.3	789.2
50°	435.2	437.2	438.5	442.4	456.0	478.7	509.3	550.2	595.7	654.8	710.0
52.5°	406.0	406.0	402.1	400.1	405.3	419.6	437.2	466.4	513.2	567.7	626.2
55°	374.8	369.0	367.7	361.2	362.5	369.0	377.4	400.1	438.5	485.2	541.7
57.5°	331.3	328.7	328.7	326.1	320.9	324.1	326.1	342.3	369.6	409.9	459.3
60°	281.3	280.0	283.2	283.9	279.3	281.3	280.6	290.4	309.8	342.3	383.3
62.5°	231.3	237.1	237.7	240.3	237.7	237.1	240.3	248.8	258.5	283.2	315.0
65°	194.2	197.5	198.1	201.4	200.1	200.1	202.7	209.2	215.0	231.9	256.6
67.5°	170.2	168.9	169.5	171.5	169.5	168.9	170.8	174.7	179.3	189.7	207.2
70°	151.4	150.1	150.1	150.1	147.5	145.5	146.2	147.5	149.4	155.2	166.3
72.5°	137.1	137.1	135.1	133.2	131.2	129.9	128.6	127.3	126.7	128.6	134.5
75°	124.1	124.7	124.1	122.1	119.5	116.9	114.3	111.7	108.5	107.2	107.8
77.5°	112.4	113.0	113.7	113.0	110.4	107.2	103.3	99.4	94.8	90.3	87.7
80°	102.0	103.3	103.9	103.3	101.3	98.7	94.2	89.6	83.1	77.3	70.8
82.5°	92.9	94.8	95.5	95.5	94.2	91.6	86.4	81.2	74.1	66.3	57.8
85°	85.7	87.0	88.3	88.3	87.7	85.1	79.9	74.1	66.9	57.8	48.7
87.5°	78.6	79.2	80.5	81.8	80.5	77.9	73.4	66.9	59.8	50.7	40.3
90°	71.5	72.1	73.4	74.7	74.1	71.5	67.6	61.7	53.9	44.2	33.8
92.5°	64.3	65.6	66.3	66.9	67.6	65.6	62.4	56.5	48.7	39.0	29.2
95°	59.1	59.1	60.4	61.1	61.7	59.8	57.2	51.3	44.2	35.1	25.3
97.5°	53.9	53.9	55.2	55.2	55.9	54.6	52.0	46.8	39.6	31.2	21.4
100°	48.7	49.4	50.0	50.7	50.7	50.0	47.4	42.2	35.7	27.9	18.8
102.5°	45.5	45.5	46.1	46.1	46.8	45.5	42.9	38.3	31.8	24.7	16.2
105°	42.2	42.2	42.9	42.9	42.2	40.9	38.3	34.4	28.6	21.4	14.3
107.5°	39.6	39.6	39.6	39.6	39.0	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: P1213698

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L940-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: P1213698

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6
2.5°	1259.5	1251.7	1258.2	1269.9	1268.6	1267.3	1266.0	1268.6	1277.1	1272.5	1265.4
5°	1257.6	1249.8	1256.9	1268.0	1267.3	1265.4	1264.1	1266.7	1275.1	1270.6	1262.8
7.5°	1253.7	1246.5	1251.7	1262.8	1262.8	1261.5	1260.2	1262.8	1270.6	1266.7	1258.9
10°	1247.2	1242.0	1247.2	1257.6	1258.2	1255.6	1254.3	1257.6	1265.4	1263.4	1256.9
12.5°	1242.0	1236.8	1242.6	1253.0	1253.7	1251.1	1249.1	1253.0	1263.4	1264.7	1262.8
15°	1234.8	1230.3	1237.4	1248.5	1248.5	1246.5	1246.5	1251.7	1266.0	1271.9	1275.1
17.5°	1224.5	1221.2	1229.7	1240.7	1241.3	1240.0	1240.7	1251.1	1269.9	1284.2	1293.3
20°	1211.5	1210.2	1219.3	1231.0	1232.9	1233.6	1236.8	1252.4	1278.4	1297.9	1307.0
22.5°	1195.9	1196.5	1206.9	1219.3	1221.9	1223.8	1230.3	1252.4	1284.9	1305.7	1309.6
25°	1178.3	1180.3	1191.3	1206.3	1209.5	1213.4	1224.5	1253.0	1286.8	1300.5	1294.0
27.5°	1159.5	1163.4	1177.7	1193.3	1197.2	1203.7	1218.0	1249.1	1277.7	1278.4	1254.3
30°	1140.0	1144.6	1161.4	1179.6	1186.1	1192.6	1210.2	1240.0	1255.6	1234.8	1192.6
32.5°	1117.9	1124.4	1141.3	1163.4	1171.2	1179.6	1197.2	1222.5	1216.7	1171.8	1111.4
35°	1090.0	1099.1	1118.6	1144.6	1151.7	1162.7	1175.1	1180.9	1155.0	1091.3	1023.1
37.5°	1055.6	1069.2	1091.9	1121.8	1129.6	1136.8	1140.0	1123.8	1071.8	1002.9	932.1
40°	1015.9	1036.7	1061.4	1094.5	1102.3	1102.3	1090.6	1056.2	990.6	900.3	821.7
42.5°	967.9	993.2	1024.4	1057.5	1065.3	1056.2	1028.3	967.9	893.2	792.5	709.3
45°	909.4	943.2	978.3	1012.7	1016.6	996.5	946.4	869.8	777.5	684.0	604.8
47.5°	839.9	884.1	922.4	961.4	956.2	922.4	855.5	768.5	671.0	582.7	519.0
50°	762.0	813.9	856.8	893.8	882.8	836.0	757.4	666.5	569.7	494.3	441.7
52.5°	678.8	738.6	781.4	811.3	796.4	740.5	654.1	567.1	487.8	419.0	383.9
55°	592.4	652.8	697.0	720.4	700.9	640.5	555.4	476.1	401.4	356.6	335.8
57.5°	508.6	565.1	606.7	625.5	600.9	540.4	461.9	394.9	341.0	303.4	293.0
60°	428.1	474.2	513.8	528.1	501.5	445.6	378.1	324.8	285.2	259.2	254.0
62.5°	353.4	391.0	422.2	433.3	407.3	363.8	305.3	265.7	237.7	224.8	218.3
65°	291.7	313.7	345.6	343.6	328.0	287.8	244.9	217.0	198.8	190.3	186.4
67.5°	229.3	249.4	269.6	272.2	252.7	224.8	196.8	176.7	166.9	162.4	160.4
70°	177.3	192.3	204.6	201.4	191.0	173.4	155.9	144.9	141.0	139.0	139.0
72.5°	137.7	145.5	151.4	147.5	141.0	131.9	123.4	118.9	119.5	120.8	122.1
75°	106.5	108.5	109.8	105.9	104.6	98.7	98.1	98.7	102.6	106.5	108.5
77.5°	81.8	79.2	77.3	73.4	74.1	73.4	76.7	81.8	87.7	93.5	98.7
80°	63.0	57.2	52.6	48.7	50.7	53.9	60.4	68.2	76.0	82.5	89.0
82.5°	48.7	40.3	33.8	29.9	33.8	39.0	47.4	57.2	66.3	73.4	80.5
85°	37.7	27.9	20.1	16.2	20.1	27.9	37.0	48.1	57.8	65.6	72.8
87.5°	29.2	20.1	11.0	6.5	11.0	19.5	29.9	40.3	50.0	59.1	66.3
90°	23.4	13.6	5.2	1.3	5.8	13.6	23.4	33.8	43.5	53.3	60.4
92.5°	18.8	9.7	2.6	0.0	3.2	10.4	19.5	29.2	39.0	48.1	55.2
95°	15.6	7.8	1.9	0.0	2.6	7.8	15.6	25.3	34.4	43.5	49.4
97.5°	13.0	5.8	1.3	0.0	1.3	6.5	13.0	21.4	30.5	39.0	44.8
100°	11.0	5.2	1.3	0.0	1.3	5.2	11.0	18.8	26.6	34.4	40.3
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: P1213698

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L940-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: P1213698

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6
2.5°	1264.1	1249.1	1256.9	1254.3	1256.9	1263.4	1262.8	1260.8	1262.1	1258.9	1255.6
5°	1261.5	1246.5	1254.3	1251.1	1254.3	1260.8	1259.5	1257.6	1259.5	1255.6	1252.4
7.5°	1258.2	1244.6	1253.7	1253.0	1258.9	1267.3	1268.0	1268.0	1272.5	1266.7	1264.1
10°	1258.2	1251.1	1263.4	1268.0	1282.9	1294.0	1295.3	1297.9	1305.7	1304.4	1297.9
12.5°	1271.9	1270.6	1288.8	1299.8	1313.4	1329.0	1337.5	1340.1	1345.3	1341.4	1338.8
15°	1289.4	1295.9	1316.0	1328.4	1343.3	1355.0	1357.0	1358.3	1362.2	1356.3	1351.8
17.5°	1312.8	1316.7	1332.9	1338.1	1347.9	1349.8	1347.2	1340.7	1340.7	1327.7	1323.8
20°	1323.8	1321.9	1328.4	1319.9	1316.0	1304.4	1293.3	1281.0	1280.3	1266.7	1265.4
22.5°	1314.1	1301.1	1287.5	1266.7	1257.6	1240.7	1225.8	1218.6	1214.1	1196.5	1192.0
25°	1279.7	1247.8	1227.7	1203.0	1180.9	1161.4	1147.2	1132.2	1117.9	1103.6	1097.1
27.5°	1219.9	1190.0	1157.5	1123.1	1092.6	1062.7	1038.7	1023.7	1010.1	991.3	981.5
30°	1146.5	1104.9	1069.2	1036.1	986.1	949.7	929.5	899.7	889.3	880.8	862.6
32.5°	1060.1	1010.1	961.4	916.6	865.2	831.5	804.8	782.7	776.2	754.2	749.0
35°	964.6	899.0	843.8	799.6	762.6	721.7	699.6	684.7	671.7	656.7	654.1
37.5°	852.2	793.1	730.8	691.8	662.6	627.5	610.6	600.2	594.4	583.3	581.4
40°	739.2	680.1	637.2	598.3	580.1	561.2	548.9	544.3	541.7	537.9	534.0
42.5°	636.6	584.6	554.1	528.1	520.3	511.2	508.0	510.6	508.0	506.7	506.0
45°	549.5	509.9	488.5	480.7	478.7	476.1	478.7	483.3	483.9	482.6	482.6
47.5°	470.3	451.5	442.4	443.7	446.9	448.9	453.4	459.3	460.6	457.3	458.6
50°	418.3	407.3	405.3	410.5	417.7	420.3	425.5	430.0	429.4	428.1	426.8
52.5°	369.6	366.4	371.6	376.8	384.6	385.8	387.8	389.7	389.1	386.5	385.2
55°	328.7	331.3	335.8	337.8	343.6	343.0	343.6	343.6	341.0	339.7	337.8
57.5°	291.7	292.3	294.9	295.6	298.8	297.5	296.9	295.6	291.7	291.0	289.1
60°	254.0	252.7	258.5	254.0	256.6	254.0	253.3	250.1	246.2	245.5	244.2
62.5°	218.3	215.7	219.6	217.6	218.9	216.3	215.0	211.1	207.9	207.2	206.6
65°	186.4	185.1	189.0	188.4	189.7	186.4	185.1	182.5	179.9	179.3	178.6
67.5°	159.8	163.0	165.0	165.0	166.3	165.6	162.4	161.7	161.1	158.5	158.5
70°	140.3	142.3	146.2	146.8	146.2	147.5	144.9	144.2	143.6	142.3	141.6
72.5°	124.7	127.3	131.2	131.9	131.2	131.2	129.9	129.3	129.3	127.3	127.3
75°	112.4	115.6	118.9	118.9	118.9	117.6	116.3	116.3	115.0	114.3	113.0
77.5°	102.0	105.9	108.5	107.8	107.2	105.9	105.9	103.9	102.0	102.0	100.7
80°	94.2	96.8	98.7	98.1	97.4	95.5	94.8	92.9	91.6	89.6	89.6
82.5°	85.7	89.0	90.3	89.6	88.3	86.4	85.7	84.4	83.1	82.5	81.2
85°	78.6	81.8	82.5	81.2	79.9	78.6	77.9	77.3	76.7	75.4	75.4
87.5°	71.5	74.7	74.7	74.1	72.8	72.1	71.5	70.8	70.2	69.5	68.9
90°	65.6	68.2	68.2	67.6	66.9	66.3	65.6	65.0	64.3	63.7	63.7
92.5°	59.8	62.4	62.4	61.7	61.1	60.4	60.4	59.8	59.1	58.5	57.8
95°	54.6	57.2	57.2	57.2	56.5	55.9	55.9	55.2	54.6	54.6	53.9
97.5°	49.4	52.0	52.0	52.0	51.3	50.7	50.7	50.0	50.0	50.0	49.4
100°	44.8	46.8	47.4	47.4	46.8	46.8	46.8	46.1	46.1	46.1	45.5
102.5°	40.3	42.2	43.5	43.5	43.5	42.9	42.9	42.9	42.9	42.9	42.2
105°	36.4	38.3	39.6	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
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: P1213698

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L940-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: P1213698

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6
2.5°	1257.6	1260.2	1258.9	1256.9	1256.3	1259.5	1256.3	1241.3	1247.2	1247.8	1252.4
5°	1255.6	1257.6	1256.3	1255.0	1253.0	1256.9	1253.0	1237.4	1243.3	1243.9	1248.5
7.5°	1268.6	1269.3	1269.3	1266.0	1260.8	1262.8	1257.6	1240.0	1243.3	1243.3	1246.5
10°	1301.1	1302.4	1304.4	1295.9	1289.4	1284.2	1277.1	1255.6	1255.0	1249.8	1249.8
12.5°	1343.3	1340.1	1336.8	1332.9	1327.7	1321.2	1310.9	1285.5	1277.1	1268.6	1260.2
15°	1355.7	1354.4	1353.7	1351.8	1348.5	1346.6	1338.8	1313.4	1301.1	1290.7	1275.8
17.5°	1323.2	1325.8	1334.2	1334.9	1338.8	1346.6	1345.3	1327.7	1316.7	1312.1	1294.0
20°	1264.7	1265.4	1275.8	1280.3	1297.2	1310.2	1319.9	1318.0	1315.4	1320.6	1307.0
22.5°	1194.6	1199.1	1210.2	1217.3	1233.6	1248.5	1264.1	1272.5	1286.2	1307.6	1305.0
25°	1099.1	1104.9	1120.5	1132.2	1155.0	1177.7	1198.5	1213.4	1229.7	1270.6	1284.2
27.5°	984.8	993.9	1014.0	1025.7	1057.5	1080.9	1110.8	1140.0	1162.7	1209.5	1237.4
30°	864.6	872.4	893.8	910.1	937.3	969.2	1006.8	1048.4	1086.1	1133.5	1168.6
32.5°	752.2	760.7	778.2	792.5	823.0	849.6	891.2	942.5	977.6	1043.2	1090.0
35°	654.1	661.9	674.3	686.6	711.9	739.2	774.9	825.0	869.8	938.0	997.1
37.5°	585.3	586.6	593.7	600.9	619.7	640.5	668.4	712.6	754.2	827.6	892.5
40°	535.9	535.9	539.8	541.7	550.2	562.5	580.1	614.5	648.9	704.8	784.0
42.5°	505.4	504.1	504.1	504.7	504.1	509.9	520.3	536.6	567.1	613.2	674.9
45°	482.6	480.0	478.1	473.5	470.9	470.9	471.6	477.4	495.0	524.9	574.9
47.5°	457.3	456.7	453.4	448.2	443.7	440.4	435.2	433.3	438.5	455.4	489.1
50°	428.1	424.8	421.6	417.7	412.5	409.2	399.5	400.1	395.6	403.4	420.9
52.5°	385.2	382.6	381.3	378.1	376.1	374.8	367.0	359.2	357.3	358.6	365.1
55°	337.8	339.1	333.9	336.5	335.8	330.0	326.7	320.9	318.9	318.3	321.5
57.5°	288.4	289.7	286.5	289.1	289.1	285.8	283.9	283.9	279.3	275.4	280.0
60°	243.6	241.0	242.9	246.2	246.2	244.2	242.9	242.9	239.7	238.4	241.6
62.5°	207.2	204.6	206.6	209.8	210.5	209.2	207.9	207.9	204.0	204.0	206.6
65°	179.3	179.9	179.3	181.9	181.9	182.5	181.2	179.9	175.4	177.3	176.7
67.5°	159.1	158.5	158.5	161.1	160.4	161.7	160.4	158.5	155.2	152.7	152.0
70°	142.3	141.6	141.6	142.9	143.6	143.6	142.9	141.6	137.1	134.5	132.5
72.5°	127.3	126.7	127.3	128.0	128.6	129.3	128.6	127.3	123.4	120.2	116.9
75°	113.7	113.0	115.0	115.0	115.6	115.6	116.3	115.6	112.4	108.5	104.6
77.5°	100.0	100.7	102.6	103.3	104.6	105.2	105.9	105.9	102.6	99.4	94.2
80°	89.0	90.3	91.6	92.2	93.5	95.5	96.1	96.8	94.2	90.9	85.1
82.5°	81.2	81.8	83.1	83.8	85.7	86.4	87.0	88.3	87.0	83.8	77.3
85°	74.7	75.4	76.7	76.7	77.9	79.2	79.9	80.5	79.9	76.7	70.2
87.5°	68.9	69.5	70.2	70.8	71.5	72.1	72.8	73.4	72.8	69.5	63.7
90°	63.7	63.7	64.3	64.3	65.0	65.6	66.9	66.9	66.3	63.7	57.8
92.5°	57.8	58.5	58.5	59.1	59.8	60.4	61.1	61.1	60.4	57.8	52.6
95°	53.9	53.9	54.6	54.6	55.2	55.2	55.9	55.9	55.2	52.6	47.4
97.5°	49.4	49.4	49.4	49.4	50.0	50.0	50.7	50.7	50.0	47.4	42.9
100°	45.5	45.5	45.5	45.5	45.5	46.1	46.1	46.1	45.5	42.9	38.3
102.5°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	40.9	39.0	34.4
105°	40.3	40.3	40.3	39.6	39.6	39.6	39.0	39.0	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: P1213698

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L940-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: P1213698

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6
2.5°	1250.4	1249.8	1255.6	1255.0	1247.2	1258.9	1266.7
5°	1247.2	1246.5	1251.7	1253.0	1244.6	1256.9	1265.4
7.5°	1244.6	1243.9	1249.8	1251.7	1243.3	1254.3	1263.4
10°	1245.2	1242.0	1247.2	1248.5	1240.7	1252.4	1260.2
12.5°	1249.8	1242.0	1243.9	1243.9	1236.8	1247.2	1255.6
15°	1260.8	1244.6	1242.0	1240.0	1231.0	1240.7	1249.1
17.5°	1273.2	1251.1	1242.0	1235.5	1224.5	1232.9	1242.0
20°	1285.5	1258.2	1243.3	1232.9	1218.0	1225.8	1232.3
22.5°	1291.4	1264.7	1244.6	1229.0	1210.2	1214.1	1221.2
25°	1283.6	1262.1	1242.0	1223.2	1200.4	1201.1	1206.9
27.5°	1255.0	1249.1	1236.1	1217.3	1192.6	1189.4	1193.9
30°	1206.3	1222.5	1223.2	1209.5	1183.5	1177.0	1179.0
32.5°	1138.1	1174.4	1195.9	1193.3	1170.5	1161.4	1162.7
35°	1059.5	1104.9	1151.7	1167.3	1151.1	1143.9	1141.3
37.5°	965.3	1026.3	1088.7	1127.0	1124.4	1119.9	1117.3
40°	861.3	934.7	1008.8	1069.9	1088.7	1088.7	1090.0
42.5°	750.3	836.0	917.2	994.5	1038.7	1048.4	1052.3
45°	643.1	729.5	817.8	906.8	965.9	996.5	1007.5
47.5°	545.6	632.7	716.5	813.9	892.5	932.1	949.7
50°	462.5	527.5	615.8	712.6	798.3	847.1	881.5
52.5°	393.6	444.3	521.6	611.9	698.3	765.2	797.0
55°	335.8	370.3	435.9	513.8	596.3	665.8	702.8
57.5°	287.1	314.4	359.2	424.2	493.7	562.5	602.2
60°	244.2	263.1	293.6	344.9	404.0	463.1	501.5
62.5°	207.2	219.6	239.7	277.4	323.5	369.6	405.3
65°	178.6	183.8	194.9	218.3	253.3	288.4	318.9
67.5°	150.7	154.0	162.4	176.7	194.2	219.6	239.7
70°	129.9	129.9	130.6	139.0	148.1	164.3	178.6
72.5°	113.0	111.1	107.2	109.1	111.1	120.2	129.3
75°	99.4	94.8	88.3	85.7	84.4	85.7	90.9
77.5°	87.7	81.2	73.4	66.9	61.7	59.8	64.3
80°	77.9	70.2	61.1	52.6	44.2	39.6	41.6
82.5°	70.2	60.4	50.7	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°	55.9	46.1	35.1	25.3	15.6	7.1	3.9
90°	50.0	40.3	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°	40.3	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: P1213698

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L940-CD1-U

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)