

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: P1214103

Luminaire Tested: 4SNLED-LD5-34SL-LC-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214103
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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

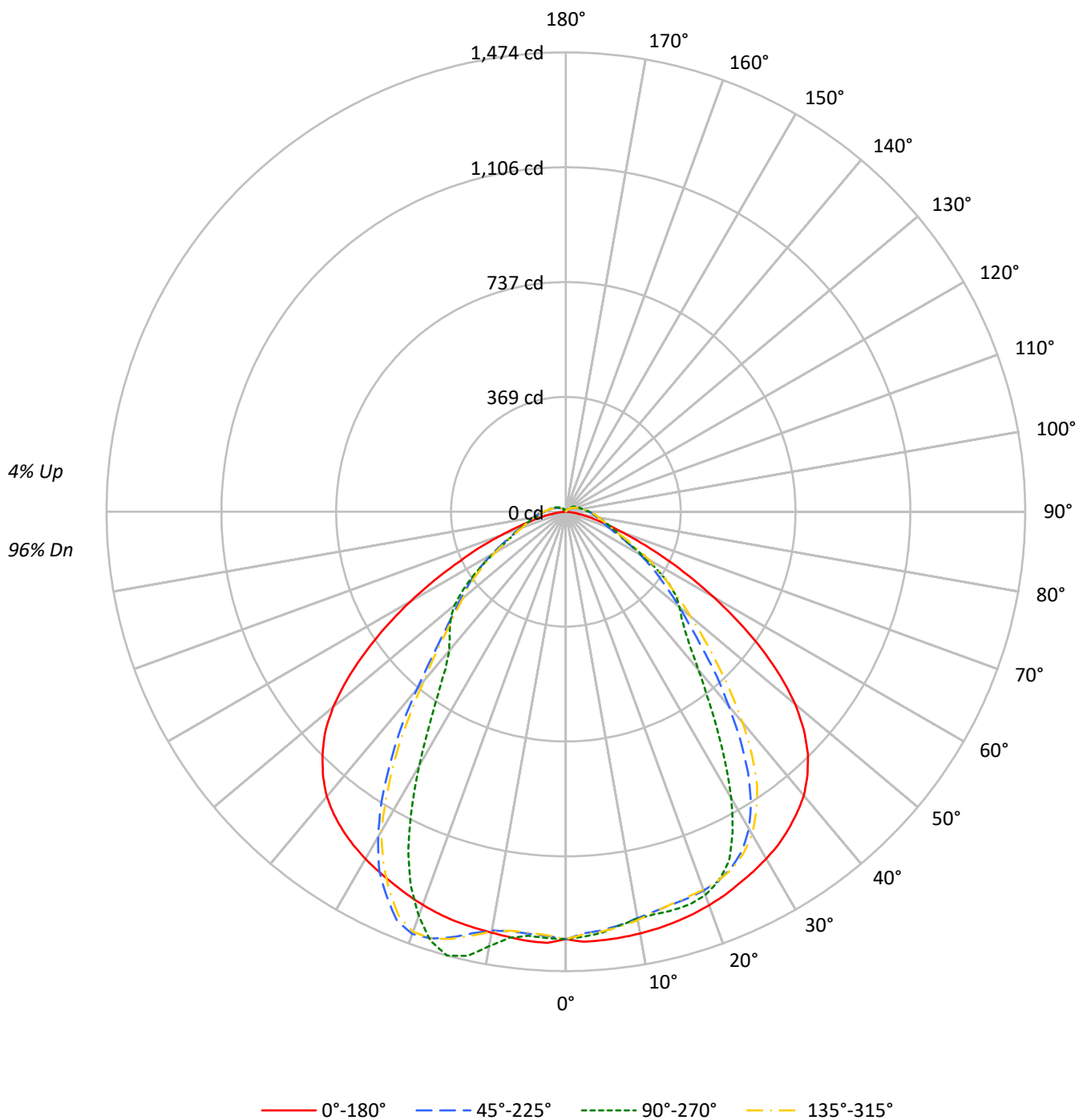
Lumens per Lamp: N/A
Luminaire Lumens: 3269.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11081	11081	11081	11081
5°	11162	10642	11185	10725
10°	11214	10199	11191	10892
15°	11301	10063	11294	11205
20°	11425	9903	11413	10439
25°	11565	9395	11559	9078
30°	11784	8142	11790	7214
35°	12014	6585	12048	5572
40°	12217	5301	12269	4671
45°	12175	4490	12237	4373
50°	11650	4135	11813	4042
55°	10336	3716	10594	3378
60°	8384	2844	8828	2608
65°	6233	2176	6715	2064
70°	4239	1878	4778	1796
75°	2774	1694	3230	1602
80°	1791	1580	2099	1453
85°	922	1577	1209	1441

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 12237 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	4.0
10°-20°	387.6	11.9
20°-30°	589.2	18.0
30°-40°	632.1	19.3
40°-50°	548.6	16.8
50°-60°	406.5	12.4
60°-70°	232.9	7.1
70°-80°	129.0	3.9
80°-90°	78.5	2.4
90°-100°	51.1	1.6
100°-110°	34.2	1.0
110°-120°	23.1	0.7
120°-130°	14.2	0.4
130°-140°	7.5	0.2
140°-150°	3.4	0.1
150°-160°	1.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1107.0	33.9
0°-40°	1739.0	53.2
0°-60°	2694.1	82.4
0°-90°	3134.6	95.9
90°-120°	108.4	3.3
90°-150°	133.4	4.1
90°-180°	134.0	4.1
0°-180°	3269.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1371	1371	1371	1371	1371	
5°	1380	1355	1383	1366	1380	132
15°	1362	1324	1361	1474	1362	385
25°	1316	1238	1315	1196	1316	608
35°	1244	843	1248	713	1244	779
45°	1099	540	1104	526	1099	841
55°	766	405	786	368	766	680
65°	348	205	375	195	348	351
75°	99	130	116	123	99	113
85°	14	90	18	82	14	18
90°	0	75	1	69	0	1
95°	1	62	0	59	1	0
105°	1	46	1	44	1	1
115°	1	38	1	34	1	1
125°	1	28	1	23	1	1
135°	1	18	1	15	1	1
145°	1	11	1	8	1	0
155°	1	5	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°	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3
2.5°	1381.2	1377.6	1376.2	1373.4	1375.5	1384.0	1378.3	1369.1	1369.8	1353.6	1362.1
5°	1379.8	1375.5	1373.4	1370.6	1372.0	1379.8	1374.1	1364.9	1364.2	1347.9	1355.7
7.5°	1377.6	1373.4	1369.8	1367.7	1368.4	1374.8	1367.7	1357.1	1355.0	1337.3	1344.3
10°	1374.1	1371.3	1366.3	1362.8	1362.1	1369.1	1357.8	1347.2	1342.2	1323.8	1330.9
12.5°	1369.1	1364.9	1359.9	1353.6	1352.8	1357.1	1347.9	1333.0	1328.1	1313.2	1321.0
15°	1362.1	1357.1	1351.4	1344.3	1340.8	1343.6	1332.3	1318.8	1318.1	1305.4	1316.0
17.5°	1354.3	1347.2	1340.8	1330.9	1325.9	1328.1	1318.8	1306.8	1308.2	1300.4	1312.5
20°	1343.6	1335.8	1325.9	1316.0	1308.9	1312.5	1306.1	1296.9	1299.0	1293.3	1304.0
22.5°	1331.6	1321.0	1308.9	1297.6	1291.9	1296.9	1291.9	1284.1	1284.9	1281.3	1287.7
25°	1316.0	1304.0	1289.8	1275.6	1272.8	1276.4	1273.5	1267.1	1264.3	1258.6	1261.5
27.5°	1301.8	1288.4	1270.7	1255.8	1250.9	1257.9	1251.6	1240.9	1233.1	1225.4	1219.7
30°	1285.6	1269.3	1249.4	1232.4	1228.2	1231.0	1221.8	1205.5	1185.0	1175.1	1159.5
32.5°	1267.9	1246.6	1221.8	1202.7	1199.9	1197.7	1180.7	1157.4	1125.5	1105.7	1081.6
35°	1244.5	1221.1	1191.4	1168.0	1163.7	1151.7	1124.1	1092.9	1051.8	1017.8	976.7
37.5°	1218.3	1190.6	1159.5	1128.3	1116.3	1092.2	1053.2	1020.7	958.3	917.2	867.7
40°	1188.5	1155.2	1117.0	1079.4	1059.6	1020.7	976.0	927.9	867.7	812.4	770.6
42.5°	1147.4	1112.0	1066.7	1024.9	990.9	939.2	886.8	818.8	763.5	716.8	674.3
45°	1098.6	1056.1	1003.7	953.4	910.2	848.5	786.9	718.9	672.9	618.3	589.3
47.5°	1035.5	989.5	933.5	877.6	820.9	752.9	688.5	623.3	577.3	538.3	517.1
50°	961.2	918.7	857.0	790.5	728.1	657.3	592.8	544.0	499.3	475.3	459.0
52.5°	869.1	829.4	766.4	694.1	633.9	564.5	505.7	466.1	434.2	416.5	410.8
55°	766.4	731.7	669.3	602.1	540.4	476.7	432.1	397.4	376.8	366.2	366.9
57.5°	656.6	629.7	570.9	510.7	452.6	404.4	364.1	336.4	320.9	320.2	322.3
60°	546.8	527.0	476.0	424.3	373.3	334.3	304.6	285.4	275.5	276.2	275.5
62.5°	442.0	423.6	386.7	344.2	303.9	277.7	250.7	242.9	234.4	233.7	233.7
65°	347.8	333.6	303.9	273.4	242.9	225.9	212.5	203.3	196.9	195.5	196.2
67.5°	261.4	255.7	235.2	214.6	195.5	184.9	173.5	171.4	166.4	166.4	167.9
70°	194.8	190.5	179.2	167.2	159.4	152.3	146.6	146.6	145.9	145.2	148.7
72.5°	141.0	141.7	138.1	128.9	128.2	126.8	125.4	127.5	128.2	130.3	134.6
75°	99.2	101.3	101.3	99.9	102.7	106.2	108.4	111.9	116.2	119.0	124.0
77.5°	70.1	70.1	73.7	77.9	83.6	90.0	95.6	100.6	106.2	109.8	114.0
80°	45.3	47.5	53.1	60.9	68.7	77.2	85.0	91.4	97.0	102.7	105.5
82.5°	26.9	30.5	37.5	47.5	57.4	68.0	75.8	83.6	90.0	95.6	97.7
85°	13.5	18.4	26.9	37.5	48.2	59.5	69.4	76.5	83.6	88.5	91.4
87.5°	4.2	9.9	19.1	29.0	40.4	51.7	62.3	70.1	76.5	80.7	83.6
90°	0.0	5.0	13.5	24.1	34.7	46.0	56.0	64.5	70.8	74.4	76.5
92.5°	0.0	2.8	10.6	19.8	29.7	41.1	51.0	58.8	64.5	68.0	69.4
95°	0.7	2.1	7.8	16.3	26.2	36.8	46.0	53.1	58.8	62.3	63.0
97.5°	0.7	1.4	6.4	13.5	22.7	32.6	41.8	48.9	53.1	56.7	57.4
100°	0.7	1.4	5.0	12.0	19.8	29.0	37.5	43.9	48.9	51.7	52.4
102.5°	0.7	0.7	4.2	9.9	17.7	25.5	33.3	39.7	43.9	46.7	48.2
105°	0.7	0.7	3.5	8.5	15.6	22.7	29.7	36.1	39.7	42.5	43.9
107.5°	0.7	0.7	2.8	7.1	13.5	19.8	26.9	31.9	36.1	39.0	40.4
110°	0.7	0.7	2.1	6.4	11.3	17.7	23.4	28.3	32.6	35.4	36.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.7	0.7	2.1	5.7	9.9	15.6	20.5	25.5	29.0	31.9	34.0
115°	0.7	0.7	2.1	5.0	9.2	13.5	18.4	22.7	26.2	29.0	31.2
117.5°	0.7	0.7	2.1	4.2	7.8	12.0	16.3	20.5	23.4	26.2	28.3
120°	0.7	0.7	1.4	3.5	7.1	10.6	14.2	17.7	21.2	24.1	26.2
122.5°	0.7	0.7	1.4	3.5	5.7	9.2	12.7	15.6	19.1	21.2	23.4
125°	0.7	0.7	1.4	2.8	5.0	8.5	11.3	14.2	16.3	19.1	21.2
127.5°	0.7	0.7	1.4	2.8	4.2	7.1	9.9	12.7	14.9	17.0	18.4
130°	0.7	0.7	1.4	2.1	3.5	5.7	8.5	10.6	13.5	14.9	16.3
132.5°	0.7	0.7	0.7	2.1	2.8	4.2	6.4	9.2	11.3	13.5	14.2
135°	0.7	0.7	0.7	1.4	2.8	3.5	5.0	7.1	9.2	11.3	12.7
137.5°	0.7	0.7	0.7	1.4	2.1	3.5	4.2	5.7	7.8	9.2	11.3
140°	0.7	0.7	0.7	1.4	2.1	2.8	3.5	5.0	6.4	7.8	9.2
142.5°	0.7	0.7	0.7	1.4	1.4	2.1	2.8	4.2	5.0	6.4	7.8
145°	0.7	0.7	0.7	1.4	1.4	2.1	2.8	3.5	4.2	5.0	6.4
147.5°	0.7	0.7	0.7	1.4	1.4	1.4	2.1	2.8	3.5	4.2	5.0
150°	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.8	3.5	4.2
152.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.8	3.5
155°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.8	2.8
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3
2.5°	1359.2	1360.6	1369.1	1368.4	1367.0	1365.6	1365.6	1364.2	1365.6	1369.1	1367.7
5°	1352.1	1354.3	1360.6	1359.9	1358.5	1357.8	1357.1	1355.0	1356.4	1361.3	1359.9
7.5°	1339.4	1341.5	1347.2	1344.3	1342.2	1343.6	1340.1	1338.0	1340.8	1345.8	1345.1
10°	1325.9	1327.3	1334.4	1333.0	1329.5	1330.2	1326.6	1325.2	1328.8	1331.6	1332.3
12.5°	1316.7	1321.7	1328.1	1327.3	1326.6	1327.3	1323.8	1322.4	1324.5	1327.3	1326.6
15°	1314.6	1321.0	1328.1	1328.1	1328.8	1329.5	1325.9	1323.8	1325.9	1328.1	1327.3
17.5°	1312.5	1320.3	1326.6	1325.9	1326.6	1328.1	1322.4	1321.0	1323.8	1326.6	1325.2
20°	1305.4	1312.5	1316.7	1315.3	1315.3	1316.0	1308.9	1308.9	1313.2	1315.3	1316.0
22.5°	1285.6	1294.1	1294.1	1290.5	1290.5	1287.7	1285.6	1281.3	1286.3	1289.8	1292.6
25°	1255.8	1259.4	1255.1	1247.3	1243.1	1239.5	1229.6	1238.1	1238.1	1248.7	1252.3
27.5°	1214.0	1206.2	1194.2	1177.9	1174.4	1163.0	1156.6	1158.8	1162.3	1177.2	1188.5
30°	1145.3	1121.9	1101.4	1094.3	1078.7	1067.4	1056.1	1061.7	1068.1	1076.6	1100.0
32.5°	1054.7	1032.0	998.7	986.7	970.4	956.2	942.7	951.2	962.6	968.2	993.7
35°	950.5	923.6	893.2	872.6	855.6	847.8	830.8	842.9	854.9	859.2	881.1
37.5°	840.0	812.4	785.5	767.8	751.5	746.5	735.2	743.7	752.9	759.3	777.7
40°	735.2	709.7	689.2	677.1	665.8	661.5	657.3	660.8	667.9	672.9	687.0
42.5°	645.3	624.7	610.6	603.5	595.7	590.0	590.7	592.1	595.7	606.3	612.7
45°	566.6	554.6	545.4	544.0	539.0	538.3	537.6	540.4	542.6	548.9	553.9
47.5°	503.6	498.6	496.5	499.3	501.5	498.6	500.1	503.6	507.8	507.8	507.1
50°	454.0	455.4	458.3	464.6	468.9	470.3	471.7	476.0	476.7	478.1	476.0
52.5°	413.6	415.1	422.9	432.8	437.7	439.9	442.7	446.9	446.9	448.4	445.5
55°	372.6	374.7	382.5	392.4	396.6	399.5	402.3	405.1	407.3	410.1	408.0
57.5°	327.2	333.6	338.6	341.4	344.2	346.4	348.5	349.2	353.4	354.1	357.7
60°	279.1	280.5	285.4	284.7	282.6	288.3	285.4	290.4	295.4	301.7	302.4
62.5°	233.0	233.7	237.3	235.9	238.7	238.0	240.1	240.1	243.7	246.5	250.0
65°	196.9	197.6	200.4	200.4	199.7	201.9	204.0	205.4	205.4	207.5	210.4
67.5°	170.0	172.1	174.9	176.4	177.8	177.8	179.9	180.6	182.0	182.7	184.2
70°	151.6	154.4	157.2	158.7	159.4	160.8	161.5	161.5	162.9	163.6	165.0
72.5°	138.1	141.0	143.1	143.1	144.5	145.2	145.2	145.9	146.6	148.0	149.5
75°	126.8	128.9	130.3	129.6	129.6	129.6	130.3	130.3	131.7	133.2	134.6
77.5°	116.2	118.3	118.3	116.9	116.9	116.9	116.9	117.6	118.3	119.7	121.1
80°	108.4	108.4	107.7	107.7	106.2	105.5	105.5	106.2	106.2	107.7	109.8
82.5°	99.9	99.9	99.2	98.5	97.7	97.0	97.0	97.7	98.5	99.2	100.6
85°	92.1	92.1	90.7	90.7	90.0	90.0	90.0	90.0	90.7	91.4	92.8
87.5°	84.3	83.6	82.9	82.2	82.2	82.2	82.2	82.2	82.9	84.3	85.0
90°	76.5	75.8	75.1	75.1	74.4	74.4	75.1	75.1	75.8	76.5	77.2
92.5°	69.4	68.7	68.0	68.0	67.3	67.3	68.0	67.3	68.7	68.7	69.4
95°	63.0	62.3	61.6	61.6	61.6	61.6	61.6	61.6	62.3	62.3	63.0
97.5°	57.4	56.7	56.0	56.0	56.7	56.0	56.7	56.7	56.7	57.4	58.1
100°	52.4	51.7	51.7	52.4	51.7	51.7	52.4	52.4	52.4	52.4	53.1
102.5°	48.2	48.2	48.2	48.2	48.2	48.2	48.9	48.9	48.9	48.9	49.6
105°	43.9	44.6	44.6	44.6	45.3	45.3	45.3	46.0	46.0	46.0	46.0
107.5°	41.1	41.8	41.8	42.5	42.5	43.2	43.2	43.2	43.2	43.9	43.9
110°	38.2	39.0	39.7	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1

TEST NUMBER: P1214103

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	35.4	36.1	36.8	38.2	39.0	39.0	39.0	39.0	39.7	39.7	39.0
115°	32.6	34.0	34.7	36.1	36.8	36.8	37.5	37.5	37.5	37.5	36.8
117.5°	29.7	31.9	32.6	34.0	34.7	34.7	35.4	35.4	35.4	35.4	34.7
120°	27.6	29.0	30.5	31.2	31.9	32.6	32.6	33.3	33.3	33.3	32.6
122.5°	25.5	26.9	28.3	29.0	29.7	30.5	30.5	30.5	30.5	30.5	30.5
125°	22.7	24.1	25.5	26.2	26.9	27.6	27.6	28.3	28.3	28.3	27.6
127.5°	20.5	22.0	22.7	24.1	24.8	24.8	25.5	25.5	25.5	25.5	24.8
130°	17.7	19.1	20.5	21.2	22.0	22.0	22.7	22.7	22.7	22.7	22.7
132.5°	15.6	17.0	17.7	19.1	19.1	19.8	19.8	20.5	20.5	20.5	19.8
135°	14.2	14.9	15.6	17.0	17.0	17.7	17.7	17.7	17.7	17.7	17.7
137.5°	12.7	13.5	14.2	14.9	14.9	15.6	15.6	15.6	15.6	16.3	15.6
140°	10.6	12.0	12.7	12.7	13.5	13.5	13.5	14.2	14.2	14.2	13.5
142.5°	9.2	9.9	10.6	11.3	12.0	12.0	12.0	12.0	12.7	12.0	12.0
145°	7.1	8.5	9.2	9.9	10.6	10.6	10.6	10.6	10.6	10.6	10.6
147.5°	5.7	6.4	7.8	8.5	8.5	9.2	9.2	9.2	9.2	9.2	9.2
150°	5.0	5.0	6.4	7.1	7.8	7.8	7.8	7.8	7.8	7.8	7.8
152.5°	3.5	4.2	5.0	5.7	6.4	6.4	6.4	6.4	6.4	6.4	6.4
155°	3.5	3.5	4.2	4.2	5.0	5.0	5.0	5.0	5.7	5.0	5.0
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: P1214103

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3
2.5°	1365.6	1364.9	1367.7	1364.9	1350.7	1356.4	1354.3	1362.1	1362.8	1364.9	1372.0
5°	1358.5	1358.5	1362.1	1359.2	1345.8	1351.4	1350.7	1358.5	1359.9	1361.3	1369.1
7.5°	1344.3	1345.1	1350.0	1347.9	1333.7	1342.2	1341.5	1350.7	1353.6	1356.4	1363.5
10°	1330.9	1330.2	1335.8	1333.7	1320.3	1330.2	1329.5	1338.7	1342.9	1347.9	1356.4
12.5°	1323.8	1321.7	1323.8	1321.7	1306.8	1314.6	1315.3	1325.9	1330.9	1337.3	1347.2
15°	1323.8	1320.3	1320.3	1316.0	1299.0	1304.0	1304.7	1311.8	1318.1	1324.5	1336.6
17.5°	1322.4	1318.8	1318.1	1314.6	1296.2	1296.2	1295.5	1300.4	1304.0	1310.3	1323.1
20°	1314.6	1313.2	1312.5	1310.3	1293.3	1290.5	1289.1	1289.1	1291.2	1293.3	1306.1
22.5°	1294.1	1295.5	1296.9	1298.3	1284.9	1279.9	1280.6	1279.2	1277.1	1277.1	1287.7
25°	1255.8	1262.9	1268.6	1274.9	1267.1	1263.6	1267.9	1265.7	1262.2	1259.4	1268.6
27.5°	1194.9	1209.8	1221.8	1237.4	1238.1	1235.3	1246.6	1245.2	1244.5	1240.2	1247.3
30°	1110.6	1134.0	1150.3	1172.9	1192.1	1194.9	1214.0	1216.9	1219.7	1217.6	1224.6
32.5°	1008.6	1040.5	1068.1	1103.5	1121.9	1138.2	1165.1	1176.5	1187.8	1191.4	1199.1
35°	897.4	933.5	966.1	1005.1	1034.1	1069.5	1102.1	1119.1	1144.6	1154.5	1165.9
37.5°	791.9	825.9	857.7	896.7	943.5	980.3	1020.7	1058.9	1093.6	1107.8	1124.8
40°	698.4	726.0	756.5	790.5	833.0	881.1	925.0	978.2	1019.2	1047.6	1072.4
42.5°	627.6	641.0	667.2	697.7	731.7	780.5	825.2	884.7	934.2	974.6	1015.7
45°	564.5	570.9	590.0	606.3	641.0	684.2	731.7	789.8	841.5	893.2	942.7
47.5°	510.7	518.5	527.7	537.6	562.4	598.5	639.6	692.0	743.7	803.9	860.6
50°	474.6	476.7	478.1	482.4	497.2	522.0	555.3	599.9	649.5	714.0	774.2
52.5°	442.7	442.7	438.4	436.3	442.0	457.6	476.7	508.6	559.6	619.1	682.8
55°	408.7	402.3	400.9	393.8	395.2	402.3	411.5	436.3	478.1	529.1	590.7
57.5°	361.2	358.4	358.4	355.6	349.9	353.4	355.6	373.3	403.0	446.9	500.8
60°	306.7	305.3	308.8	309.5	304.6	306.7	306.0	316.6	337.9	373.3	417.9
62.5°	252.2	258.5	259.2	262.1	259.2	258.5	262.1	271.3	281.9	308.8	343.5
65°	211.8	215.3	216.0	219.6	218.2	218.2	221.0	228.1	234.4	252.9	279.8
67.5°	185.6	184.2	184.9	187.0	184.9	184.2	186.3	190.5	195.5	206.8	225.9
70°	165.0	163.6	163.6	163.6	160.8	158.7	159.4	160.8	162.9	169.3	181.3
72.5°	149.5	149.5	147.3	145.2	143.1	141.7	140.2	138.8	138.1	140.2	146.6
75°	135.3	136.0	135.3	133.2	130.3	127.5	124.7	121.8	118.3	116.9	117.6
77.5°	122.5	123.2	124.0	123.2	120.4	116.9	112.6	108.4	103.4	98.5	95.6
80°	111.2	112.6	113.3	112.6	110.5	107.7	102.7	97.7	90.7	84.3	77.2
82.5°	101.3	103.4	104.1	104.1	102.7	99.9	94.2	88.5	80.7	72.2	63.0
85°	93.5	94.9	96.3	96.3	95.6	92.8	87.1	80.7	73.0	63.0	53.1
87.5°	85.7	86.4	87.8	89.2	87.8	85.0	80.0	73.0	65.2	55.2	43.9
90°	77.9	78.6	80.0	81.5	80.7	77.9	73.7	67.3	58.8	48.2	36.8
92.5°	70.1	71.5	72.2	73.0	73.7	71.5	68.0	61.6	53.1	42.5	31.9
95°	64.5	64.5	65.9	66.6	67.3	65.2	62.3	56.0	48.2	38.2	27.6
97.5°	58.8	58.8	60.2	60.2	60.9	59.5	56.7	51.0	43.2	34.0	23.4
100°	53.1	53.8	54.5	55.2	55.2	54.5	51.7	46.0	39.0	30.5	20.5
102.5°	49.6	49.6	50.3	50.3	51.0	49.6	46.7	41.8	34.7	26.9	17.7
105°	46.0	46.0	46.7	46.7	46.0	44.6	41.8	37.5	31.2	23.4	15.6
107.5°	43.2	43.2	43.2	43.2	42.5	41.1	38.2	33.3	27.6	21.2	14.2
110°	41.1	40.4	40.4	39.7	39.0	36.8	34.0	29.7	24.8	18.4	12.0

TEST NUMBER: P1214103

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	39.0	38.2	37.5	36.8	35.4	33.3	30.5	26.9	22.0	16.3	10.6
115°	36.8	36.1	35.4	34.0	32.6	30.5	27.6	24.1	19.1	14.2	9.2
117.5°	34.7	34.0	32.6	31.2	29.7	27.6	24.8	21.2	17.0	12.7	8.5
120°	31.9	31.2	30.5	29.0	27.6	24.8	22.0	19.1	14.9	11.3	7.1
122.5°	29.7	29.0	27.6	26.9	24.8	22.7	19.8	17.0	13.5	9.9	6.4
125°	26.9	26.2	25.5	24.1	22.7	19.8	17.7	14.9	12.0	8.5	5.0
127.5°	24.8	24.1	22.7	21.2	19.8	17.7	15.6	13.5	10.6	7.1	5.0
130°	22.0	21.2	20.5	19.1	17.7	15.6	14.2	11.3	9.2	6.4	4.2
132.5°	19.1	19.1	18.4	17.0	15.6	14.2	12.0	9.9	7.8	5.7	3.5
135°	17.7	17.0	16.3	14.9	14.2	12.0	10.6	8.5	6.4	5.0	2.8
137.5°	15.6	14.9	14.2	13.5	12.0	10.6	9.2	7.1	5.7	4.2	2.8
140°	13.5	12.7	12.7	11.3	10.6	9.2	7.8	6.4	5.0	3.5	2.1
142.5°	12.0	11.3	10.6	9.9	9.2	7.8	6.4	5.0	4.2	2.8	2.1
145°	10.6	9.9	9.2	8.5	7.8	6.4	5.7	4.2	3.5	2.8	2.1
147.5°	8.5	8.5	7.8	7.1	6.4	5.7	5.0	4.2	2.8	2.1	1.4
150°	7.1	7.1	6.4	5.7	5.7	5.0	4.2	3.5	2.8	2.1	1.4
152.5°	6.4	5.7	5.7	5.0	5.0	4.2	3.5	2.8	2.1	2.1	1.4
155°	5.0	5.0	5.0	4.2	4.2	3.5	2.8	2.8	2.1	1.4	1.4
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: P1214103

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3
2.5°	1373.4	1364.9	1372.0	1384.7	1383.3	1381.9	1380.5	1383.3	1392.5	1387.6	1379.8
5°	1371.3	1362.8	1370.6	1382.6	1381.9	1379.8	1378.3	1381.2	1390.4	1385.4	1376.9
7.5°	1367.0	1359.2	1364.9	1376.9	1376.9	1375.5	1374.1	1376.9	1385.4	1381.2	1372.7
10°	1359.9	1354.3	1359.9	1371.3	1372.0	1369.1	1367.7	1371.3	1379.8	1377.6	1370.6
12.5°	1354.3	1348.6	1355.0	1366.3	1367.0	1364.2	1362.1	1366.3	1377.6	1379.1	1376.9
15°	1346.5	1341.5	1349.3	1361.3	1361.3	1359.2	1359.2	1364.9	1380.5	1386.8	1390.4
17.5°	1335.1	1331.6	1340.8	1352.8	1353.6	1352.1	1352.8	1364.2	1384.7	1400.3	1410.2
20°	1321.0	1319.6	1329.5	1342.2	1344.3	1345.1	1348.6	1365.6	1393.9	1415.2	1425.1
22.5°	1304.0	1304.7	1316.0	1329.5	1332.3	1334.4	1341.5	1365.6	1401.0	1423.7	1427.9
25°	1284.9	1287.0	1299.0	1315.3	1318.8	1323.1	1335.1	1366.3	1403.1	1418.0	1410.9
27.5°	1264.3	1268.6	1284.1	1301.1	1305.4	1312.5	1328.1	1362.1	1393.2	1393.9	1367.7
30°	1243.1	1248.0	1266.4	1286.3	1293.3	1300.4	1319.6	1352.1	1369.1	1346.5	1300.4
32.5°	1219.0	1226.1	1244.5	1268.6	1277.1	1286.3	1305.4	1333.0	1326.6	1277.8	1211.9
35°	1188.5	1198.4	1219.7	1248.0	1255.8	1267.9	1281.3	1287.7	1259.4	1189.9	1115.6
37.5°	1151.0	1165.9	1190.6	1223.2	1231.7	1239.5	1243.1	1225.4	1168.7	1093.6	1016.4
40°	1107.8	1130.4	1157.4	1193.5	1202.0	1202.0	1189.2	1151.7	1080.2	981.7	896.0
42.5°	1055.4	1083.0	1117.0	1153.1	1161.6	1151.7	1121.2	1055.4	973.9	864.1	773.5
45°	991.6	1028.4	1066.7	1104.2	1108.5	1086.5	1032.0	948.4	847.8	745.8	659.4
47.5°	915.8	964.0	1005.8	1048.3	1042.6	1005.8	932.8	837.9	731.7	635.3	565.9
50°	830.8	887.5	934.2	974.6	962.6	911.6	825.9	726.7	621.2	539.0	481.6
52.5°	740.2	805.3	852.1	884.7	868.4	807.5	713.3	618.3	531.9	456.9	418.6
55°	646.0	711.8	760.0	785.5	764.3	698.4	605.6	519.2	437.7	388.9	366.2
57.5°	554.6	616.2	661.5	682.1	655.2	589.3	503.6	430.6	371.9	330.8	319.4
60°	466.8	517.1	560.3	575.8	546.8	485.9	412.2	354.1	310.9	282.6	276.9
62.5°	385.3	426.4	460.4	472.4	444.1	396.6	332.9	289.7	259.2	245.1	238.0
65°	318.0	342.1	376.8	374.7	357.7	313.8	267.0	236.6	216.7	207.5	203.3
67.5°	250.0	272.0	293.9	296.8	275.5	245.1	214.6	192.7	182.0	177.1	174.9
70°	193.4	209.7	223.1	219.6	208.2	189.1	170.0	158.0	153.7	151.6	151.6
72.5°	150.2	158.7	165.0	160.8	153.7	143.8	134.6	129.6	130.3	131.7	133.2
75°	116.2	118.3	119.7	115.5	114.0	107.7	107.0	107.7	111.9	116.2	118.3
77.5°	89.2	86.4	84.3	80.0	80.7	80.0	83.6	89.2	95.6	102.0	107.7
80°	68.7	62.3	57.4	53.1	55.2	58.8	65.9	74.4	82.9	90.0	97.0
82.5°	53.1	43.9	36.8	32.6	36.8	42.5	51.7	62.3	72.2	80.0	87.8
85°	41.1	30.5	22.0	17.7	22.0	30.5	40.4	52.4	63.0	71.5	79.3
87.5°	31.9	22.0	12.0	7.1	12.0	21.2	32.6	43.9	54.5	64.5	72.2
90°	25.5	14.9	5.7	1.4	6.4	14.9	25.5	36.8	47.5	58.1	65.9
92.5°	20.5	10.6	2.8	0.0	3.5	11.3	21.2	31.9	42.5	52.4	60.2
95°	17.0	8.5	2.1	0.0	2.8	8.5	17.0	27.6	37.5	47.5	53.8
97.5°	14.2	6.4	1.4	0.0	1.4	7.1	14.2	23.4	33.3	42.5	48.9
100°	12.0	5.7	1.4	0.0	1.4	5.7	12.0	20.5	29.0	37.5	43.9
102.5°	9.9	4.2	0.7	0.7	0.7	4.2	10.6	17.7	25.5	33.3	39.7
105°	9.2	3.5	0.7	0.7	0.7	3.5	9.2	15.6	22.7	29.7	35.4
107.5°	7.8	2.8	0.7	0.7	0.7	2.8	7.8	13.5	20.5	26.9	31.9
110°	6.4	2.8	0.7	0.7	0.7	2.8	6.4	12.0	17.7	23.4	28.3

TEST NUMBER: P1214103

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	5.7	2.1	0.7	0.7	0.7	2.1	5.7	10.6	15.6	21.2	25.5
115°	5.0	2.1	0.7	0.7	0.7	2.1	5.0	9.2	13.5	18.4	22.7
117.5°	4.2	2.1	0.7	0.7	0.7	1.4	4.2	7.8	12.0	16.3	20.5
120°	3.5	1.4	0.7	0.7	0.7	1.4	3.5	7.1	10.6	14.2	17.7
122.5°	3.5	1.4	0.7	0.7	0.7	1.4	2.8	5.7	9.2	12.0	15.6
125°	2.8	1.4	0.7	0.7	0.7	0.7	2.8	5.0	7.8	10.6	13.5
127.5°	2.8	1.4	0.7	0.7	0.7	0.7	2.1	4.2	6.4	9.2	12.0
130°	2.1	1.4	0.7	0.7	0.7	0.7	1.4	3.5	5.7	7.8	9.9
132.5°	2.1	1.4	0.7	0.7	0.7	0.7	1.4	2.8	4.2	6.4	8.5
135°	2.1	0.7	0.7	0.7	0.7	0.7	0.7	2.1	3.5	5.0	6.4
137.5°	1.4	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.8	3.5	5.7
140°	1.4	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	2.8	4.2
142.5°	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	3.5
145°	1.4	0.7	0.7	1.4	1.4	0.7	0.7	1.4	1.4	2.1	2.8
147.5°	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.1
150°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1
152.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
155°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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: P1214103

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3
2.5°	1378.3	1362.1	1370.6	1367.7	1370.6	1377.6	1376.9	1374.8	1376.2	1372.7	1369.1
5°	1375.5	1359.2	1367.7	1364.2	1367.7	1374.8	1373.4	1371.3	1373.4	1369.1	1365.6
7.5°	1372.0	1357.1	1367.0	1366.3	1372.7	1381.9	1382.6	1382.6	1387.6	1381.2	1378.3
10°	1372.0	1364.2	1377.6	1382.6	1398.9	1410.9	1412.3	1415.2	1423.7	1422.3	1415.2
12.5°	1386.8	1385.4	1405.3	1417.3	1432.2	1449.2	1458.4	1461.2	1466.9	1462.6	1459.8
15°	1406.0	1413.1	1435.0	1448.5	1464.8	1477.5	1479.6	1481.0	1485.3	1478.9	1474.0
17.5°	1431.5	1435.7	1453.4	1459.1	1469.7	1471.8	1469.0	1461.9	1461.9	1447.8	1443.5
20°	1443.5	1441.4	1448.5	1439.3	1435.0	1422.3	1410.2	1396.8	1396.1	1381.2	1379.8
22.5°	1432.9	1418.7	1403.8	1381.2	1371.3	1352.8	1336.6	1328.8	1323.8	1304.7	1299.7
25°	1395.3	1360.6	1338.7	1311.8	1287.7	1266.4	1250.9	1234.6	1219.0	1203.4	1196.3
27.5°	1330.2	1297.6	1262.2	1224.6	1191.4	1158.8	1132.6	1116.3	1101.4	1080.9	1070.2
30°	1250.1	1204.8	1165.9	1129.7	1075.2	1035.5	1013.6	981.0	969.7	960.5	940.6
32.5°	1155.9	1101.4	1048.3	999.4	943.5	906.6	877.6	853.5	846.4	822.3	816.7
35°	1051.8	980.3	920.1	871.9	831.5	786.9	762.8	746.5	732.4	716.1	713.3
37.5°	929.3	864.8	796.8	754.3	722.5	684.2	665.8	654.5	648.1	636.1	633.9
40°	806.0	741.6	694.8	652.3	632.5	612.0	598.5	593.6	590.7	586.5	582.2
42.5°	694.1	637.5	604.2	575.8	567.3	557.4	553.9	556.7	553.9	552.5	551.8
45°	599.2	556.0	532.6	524.1	522.0	519.2	522.0	527.0	527.7	526.3	526.3
47.5°	512.8	492.3	482.4	483.8	487.3	489.4	494.4	500.8	502.2	498.6	500.1
50°	456.1	444.1	442.0	447.6	455.4	458.3	463.9	468.9	468.2	466.8	465.4
52.5°	403.0	399.5	405.1	410.8	419.3	420.7	422.9	425.0	424.3	421.4	420.0
55°	358.4	361.2	366.2	368.3	374.7	374.0	374.7	374.7	371.9	370.4	368.3
57.5°	318.0	318.7	321.6	322.3	325.8	324.4	323.7	322.3	318.0	317.3	315.2
60°	276.9	275.5	281.9	276.9	279.8	276.9	276.2	272.7	268.4	267.7	266.3
62.5°	238.0	235.2	239.4	237.3	238.7	235.9	234.4	230.2	226.7	225.9	225.2
65°	203.3	201.9	206.1	205.4	206.8	203.3	201.9	199.0	196.2	195.5	194.8
67.5°	174.2	177.8	179.9	179.9	181.3	180.6	177.1	176.4	175.7	172.8	172.8
70°	153.0	155.1	159.4	160.1	159.4	160.8	158.0	157.2	156.5	155.1	154.4
72.5°	136.0	138.8	143.1	143.8	143.1	143.1	141.7	141.0	141.0	138.8	138.8
75°	122.5	126.1	129.6	129.6	129.6	128.2	126.8	126.8	125.4	124.7	123.2
77.5°	111.2	115.5	118.3	117.6	116.9	115.5	115.5	113.3	111.2	111.2	109.8
80°	102.7	105.5	107.7	107.0	106.2	104.1	103.4	101.3	99.9	97.7	97.7
82.5°	93.5	97.0	98.5	97.7	96.3	94.2	93.5	92.1	90.7	90.0	88.5
85°	85.7	89.2	90.0	88.5	87.1	85.7	85.0	84.3	83.6	82.2	82.2
87.5°	77.9	81.5	81.5	80.7	79.3	78.6	77.9	77.2	76.5	75.8	75.1
90°	71.5	74.4	74.4	73.7	73.0	72.2	71.5	70.8	70.1	69.4	69.4
92.5°	65.2	68.0	68.0	67.3	66.6	65.9	65.9	65.2	64.5	63.7	63.0
95°	59.5	62.3	62.3	62.3	61.6	60.9	60.9	60.2	59.5	59.5	58.8
97.5°	53.8	56.7	56.7	56.7	56.0	55.2	55.2	54.5	54.5	54.5	53.8
100°	48.9	51.0	51.7	51.7	51.0	51.0	51.0	50.3	50.3	50.3	49.6
102.5°	43.9	46.0	47.5	47.5	47.5	46.7	46.7	46.7	46.7	46.7	46.0
105°	39.7	41.8	43.2	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
107.5°	36.1	38.2	39.7	40.4	41.1	41.1	41.8	41.8	41.8	41.8	41.8
110°	32.6	34.7	36.8	37.5	38.2	39.0	39.0	39.7	39.0	39.0	39.0

TEST NUMBER: P1214103

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	29.0	31.9	33.3	34.7	35.4	36.1	36.8	36.8	36.8	36.8	36.8
115°	26.2	29.0	30.5	31.9	33.3	34.0	34.0	34.7	34.7	34.7	34.0
117.5°	23.4	26.2	27.6	29.0	29.7	31.2	31.9	31.9	31.9	31.9	31.2
120°	21.2	23.4	24.8	26.2	27.6	28.3	29.0	29.0	29.0	29.0	29.0
122.5°	18.4	20.5	22.7	24.1	24.8	25.5	26.2	26.2	26.2	26.2	26.2
125°	16.3	18.4	19.8	21.2	22.0	23.4	23.4	23.4	23.4	23.4	23.4
127.5°	14.2	16.3	17.7	19.1	19.8	20.5	21.2	21.2	21.2	21.2	21.2
130°	12.0	14.2	15.6	17.0	17.7	18.4	18.4	19.1	19.1	19.1	19.1
132.5°	10.6	12.0	13.5	14.9	15.6	16.3	16.3	17.0	17.0	17.0	17.0
135°	8.5	10.6	11.3	12.7	13.5	14.2	14.2	14.9	14.9	14.9	14.9
137.5°	7.1	8.5	9.9	11.3	12.0	12.0	12.7	12.7	13.5	13.5	13.5
140°	5.7	6.4	8.5	9.2	9.9	10.6	11.3	11.3	11.3	11.3	11.3
142.5°	4.2	5.7	6.4	7.8	8.5	9.2	9.9	9.9	9.9	9.9	9.9
145°	3.5	4.2	5.0	6.4	7.1	7.8	8.5	8.5	8.5	8.5	8.5
147.5°	2.8	3.5	4.2	5.0	5.7	6.4	7.1	7.1	7.1	7.1	7.1
150°	2.1	2.8	3.5	3.5	4.2	5.0	5.7	6.4	6.4	6.4	6.4
152.5°	2.1	2.1	2.8	2.8	3.5	4.2	5.0	5.0	5.0	5.0	5.0
155°	1.4	2.1	2.1	2.1	2.8	2.8	3.5	4.2	4.2	4.2	4.2
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: P1214103

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3
2.5°	1371.3	1374.1	1372.7	1370.6	1369.8	1373.4	1369.8	1353.6	1359.9	1360.6	1365.6
5°	1369.1	1371.3	1369.8	1368.4	1366.3	1370.6	1366.3	1349.3	1355.7	1356.4	1361.3
7.5°	1383.3	1384.0	1384.0	1380.5	1374.8	1376.9	1371.3	1352.1	1355.7	1355.7	1359.2
10°	1418.7	1420.1	1422.3	1413.1	1406.0	1400.3	1392.5	1369.1	1368.4	1362.8	1362.8
12.5°	1464.8	1461.2	1457.7	1453.4	1447.8	1440.7	1429.3	1401.7	1392.5	1383.3	1374.1
15°	1478.2	1476.8	1476.1	1474.0	1470.4	1468.3	1459.8	1432.2	1418.7	1407.4	1391.1
17.5°	1442.8	1445.6	1454.8	1455.5	1459.8	1468.3	1466.9	1447.8	1435.7	1430.8	1410.9
20°	1379.1	1379.8	1391.1	1396.1	1414.5	1428.6	1439.3	1437.1	1434.3	1440.0	1425.1
22.5°	1302.6	1307.5	1319.6	1327.3	1345.1	1361.3	1378.3	1387.6	1402.4	1425.8	1423.0
25°	1198.4	1204.8	1221.8	1234.6	1259.4	1284.1	1306.8	1323.1	1340.8	1385.4	1400.3
27.5°	1073.8	1083.7	1105.7	1118.4	1153.1	1178.6	1211.2	1243.1	1267.9	1318.8	1349.3
30°	942.7	951.2	974.6	992.3	1022.1	1056.8	1097.9	1143.2	1184.3	1236.0	1274.2
32.5°	820.2	829.4	848.5	864.1	897.4	926.5	971.8	1027.7	1066.0	1137.5	1188.5
35°	713.3	721.8	735.2	748.7	776.3	806.0	845.0	899.5	948.4	1022.8	1087.2
37.5°	638.2	639.6	647.4	655.2	675.7	698.4	728.8	777.0	822.3	902.4	973.2
40°	584.3	584.3	588.6	590.7	599.9	613.4	632.5	670.0	707.6	768.5	854.9
42.5°	551.1	549.6	549.6	550.3	549.6	556.0	567.3	585.1	618.3	668.6	735.9
45°	526.3	523.4	521.3	516.3	513.5	513.5	514.2	520.6	539.7	572.3	626.8
47.5°	498.6	497.9	494.4	488.7	483.8	480.2	474.6	472.4	478.1	496.5	533.3
50°	466.8	463.2	459.7	455.4	449.8	446.2	435.6	436.3	431.4	439.9	459.0
52.5°	420.0	417.2	415.8	412.2	410.1	408.7	400.2	391.7	389.6	391.0	398.1
55°	368.3	369.7	364.1	366.9	366.2	359.8	356.3	349.9	347.8	347.1	350.6
57.5°	314.5	315.9	312.4	315.2	315.2	311.7	309.5	309.5	304.6	300.3	305.3
60°	265.6	262.8	264.9	268.4	268.4	266.3	264.9	264.9	261.4	259.9	263.5
62.5°	225.9	223.1	225.2	228.8	229.5	228.1	226.7	226.7	222.4	222.4	225.2
65°	195.5	196.2	195.5	198.3	198.3	199.0	197.6	196.2	191.2	193.4	192.7
67.5°	173.5	172.8	172.8	175.7	174.9	176.4	174.9	172.8	169.3	166.4	165.7
70°	155.1	154.4	154.4	155.8	156.5	156.5	155.8	154.4	149.5	146.6	144.5
72.5°	138.8	138.1	138.8	139.5	140.2	141.0	140.2	138.8	134.6	131.0	127.5
75°	124.0	123.2	125.4	125.4	126.1	126.1	126.8	126.1	122.5	118.3	114.0
77.5°	109.1	109.8	111.9	112.6	114.0	114.7	115.5	115.5	111.9	108.4	102.7
80°	97.0	98.5	99.9	100.6	102.0	104.1	104.8	105.5	102.7	99.2	92.8
82.5°	88.5	89.2	90.7	91.4	93.5	94.2	94.9	96.3	94.9	91.4	84.3
85°	81.5	82.2	83.6	83.6	85.0	86.4	87.1	87.8	87.1	83.6	76.5
87.5°	75.1	75.8	76.5	77.2	77.9	78.6	79.3	80.0	79.3	75.8	69.4
90°	69.4	69.4	70.1	70.1	70.8	71.5	73.0	73.0	72.2	69.4	63.0
92.5°	63.0	63.7	63.7	64.5	65.2	65.9	66.6	66.6	65.9	63.0	57.4
95°	58.8	58.8	59.5	59.5	60.2	60.2	60.9	60.9	60.2	57.4	51.7
97.5°	53.8	53.8	53.8	53.8	54.5	54.5	55.2	55.2	54.5	51.7	46.7
100°	49.6	49.6	49.6	49.6	49.6	50.3	50.3	50.3	49.6	46.7	41.8
102.5°	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	44.6	42.5	37.5
105°	43.9	43.9	43.9	43.2	43.2	43.2	42.5	42.5	40.4	38.2	34.0
107.5°	41.1	41.1	41.1	40.4	40.4	39.7	39.0	39.0	36.8	34.7	30.5
110°	39.0	39.0	39.0	38.2	37.5	36.8	36.1	35.4	33.3	30.5	26.9

TEST NUMBER: P1214103

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	36.8	36.8	36.1	36.1	35.4	34.7	33.3	32.6	30.5	27.6	24.1
115°	34.0	34.0	34.0	33.3	32.6	31.9	31.2	29.7	27.6	24.8	21.2
117.5°	31.2	31.2	31.2	30.5	29.7	29.0	28.3	26.9	24.8	22.0	19.1
120°	28.3	28.3	28.3	27.6	26.9	26.2	25.5	24.1	22.0	19.8	16.3
122.5°	26.2	26.2	25.5	24.8	24.1	23.4	22.7	21.2	19.8	17.0	14.2
125°	23.4	23.4	22.7	22.7	22.0	21.2	20.5	19.1	17.0	14.9	12.7
127.5°	21.2	20.5	20.5	20.5	19.8	19.1	17.7	17.0	14.9	12.7	10.6
130°	18.4	18.4	18.4	17.7	17.7	17.0	15.6	14.2	12.7	11.3	9.2
132.5°	16.3	16.3	16.3	16.3	15.6	14.9	13.5	12.7	11.3	9.2	7.8
135°	14.9	14.9	14.2	14.2	13.5	12.7	12.0	10.6	9.2	7.8	6.4
137.5°	12.7	12.7	12.7	12.0	12.0	11.3	9.9	9.2	8.5	7.1	5.7
140°	11.3	11.3	10.6	10.6	9.9	9.9	9.2	7.8	7.1	5.7	5.0
142.5°	9.9	9.9	9.2	9.2	8.5	8.5	7.8	7.1	5.7	5.0	3.5
145°	8.5	8.5	7.8	7.8	7.8	7.1	6.4	5.7	5.0	4.2	3.5
147.5°	7.1	7.1	7.1	6.4	6.4	5.7	5.7	5.0	4.2	3.5	2.8
150°	6.4	6.4	5.7	5.7	5.7	5.0	4.2	4.2	3.5	2.8	2.1
152.5°	5.0	5.0	5.0	5.0	4.2	4.2	3.5	3.5	2.8	2.1	2.1
155°	4.2	4.2	4.2	3.5	3.5	3.5	2.8	2.8	2.1	2.1	1.4
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: P1214103

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3
2.5°	1363.5	1362.8	1369.1	1368.4	1359.9	1372.7	1381.2
5°	1359.9	1359.2	1364.9	1366.3	1357.1	1370.6	1379.8
7.5°	1357.1	1356.4	1362.8	1364.9	1355.7	1367.7	1377.6
10°	1357.8	1354.3	1359.9	1361.3	1352.8	1365.6	1374.1
12.5°	1362.8	1354.3	1356.4	1356.4	1348.6	1359.9	1369.1
15°	1374.8	1357.1	1354.3	1352.1	1342.2	1352.8	1362.1
17.5°	1388.3	1364.2	1354.3	1347.2	1335.1	1344.3	1354.3
20°	1401.7	1372.0	1355.7	1344.3	1328.1	1336.6	1343.6
22.5°	1408.1	1379.1	1357.1	1340.1	1319.6	1323.8	1331.6
25°	1399.6	1376.2	1354.3	1333.7	1308.9	1309.6	1316.0
27.5°	1368.4	1362.1	1347.9	1327.3	1300.4	1296.9	1301.8
30°	1315.3	1333.0	1333.7	1318.8	1290.5	1283.4	1285.6
32.5°	1240.9	1280.6	1304.0	1301.1	1276.4	1266.4	1267.9
35°	1155.2	1204.8	1255.8	1272.8	1255.1	1247.3	1244.5
37.5°	1052.5	1119.1	1187.1	1228.9	1226.1	1221.1	1218.3
40°	939.2	1019.2	1100.0	1166.6	1187.1	1187.1	1188.5
42.5°	818.1	911.6	1000.1	1084.4	1132.6	1143.2	1147.4
45°	701.2	795.4	891.7	988.8	1053.2	1086.5	1098.6
47.5°	595.0	689.9	781.3	887.5	973.2	1016.4	1035.5
50°	504.3	575.1	671.5	777.0	870.5	923.6	961.2
52.5°	429.2	484.5	568.8	667.2	761.4	834.4	869.1
55°	366.2	403.7	475.3	560.3	650.2	726.0	766.4
57.5°	313.1	342.8	391.7	462.5	538.3	613.4	656.6
60°	266.3	286.9	320.2	376.1	440.6	505.0	546.8
62.5°	225.9	239.4	261.4	302.4	352.7	403.0	442.0
65°	194.8	200.4	212.5	238.0	276.2	314.5	347.8
67.5°	164.3	167.9	177.1	192.7	211.8	239.4	261.4
70°	141.7	141.7	142.4	151.6	161.5	179.2	194.8
72.5°	123.2	121.1	116.9	119.0	121.1	131.0	141.0
75°	108.4	103.4	96.3	93.5	92.1	93.5	99.2
77.5°	95.6	88.5	80.0	73.0	67.3	65.2	70.1
80°	85.0	76.5	66.6	57.4	48.2	43.2	45.3
82.5°	76.5	65.9	55.2	44.6	34.0	26.9	26.9
85°	67.3	57.4	46.0	34.7	24.1	14.9	13.5
87.5°	60.9	50.3	38.2	27.6	17.0	7.8	4.2
90°	54.5	43.9	32.6	22.0	12.0	3.5	0.0
92.5°	48.9	39.0	28.3	17.7	8.5	2.1	0.0
95°	43.9	34.7	24.1	14.9	7.1	1.4	0.7
97.5°	39.0	30.5	21.2	12.0	5.0	1.4	0.7
100°	35.4	26.9	18.4	9.9	4.2	0.7	0.7
102.5°	31.2	24.1	15.6	8.5	3.5	0.7	0.7
105°	27.6	21.2	13.5	7.1	2.8	0.7	0.7
107.5°	24.8	18.4	12.0	6.4	2.8	0.7	0.7
110°	22.0	16.3	10.6	5.7	2.1	0.7	0.7



TEST NUMBER: P1214103

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	19.8	14.2	9.2	5.0	1.4	0.7	0.7
115°	17.0	12.7	7.8	4.2	1.4	0.7	0.7
117.5°	14.9	10.6	7.1	3.5	1.4	0.7	0.7
120°	12.7	9.2	5.7	2.8	0.7	0.7	0.7
122.5°	11.3	7.8	5.0	2.8	0.7	0.7	0.7
125°	9.9	7.1	4.2	2.1	0.7	0.7	0.7
127.5°	8.5	5.7	3.5	1.4	0.7	0.7	0.7
130°	7.1	5.0	2.8	1.4	0.7	0.7	0.7
132.5°	5.7	4.2	2.8	1.4	0.7	0.7	0.7
135°	5.0	3.5	2.1	1.4	0.7	0.7	0.7
137.5°	4.2	2.8	1.4	1.4	1.4	0.7	0.7
140°	3.5	2.1	1.4	1.4	1.4	1.4	0.7
142.5°	2.8	2.1	1.4	1.4	1.4	1.4	0.7
145°	2.1	1.4	1.4	1.4	1.4	1.4	0.7
147.5°	2.1	1.4	1.4	1.4	1.4	1.4	0.7
150°	1.4	1.4	1.4	1.4	1.4	1.4	1.4
152.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4
155°	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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)