

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: P1213408

Luminaire Tested: 4SNLED-LD5-37SL-LC-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213408
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-LD5-37SL-LC-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

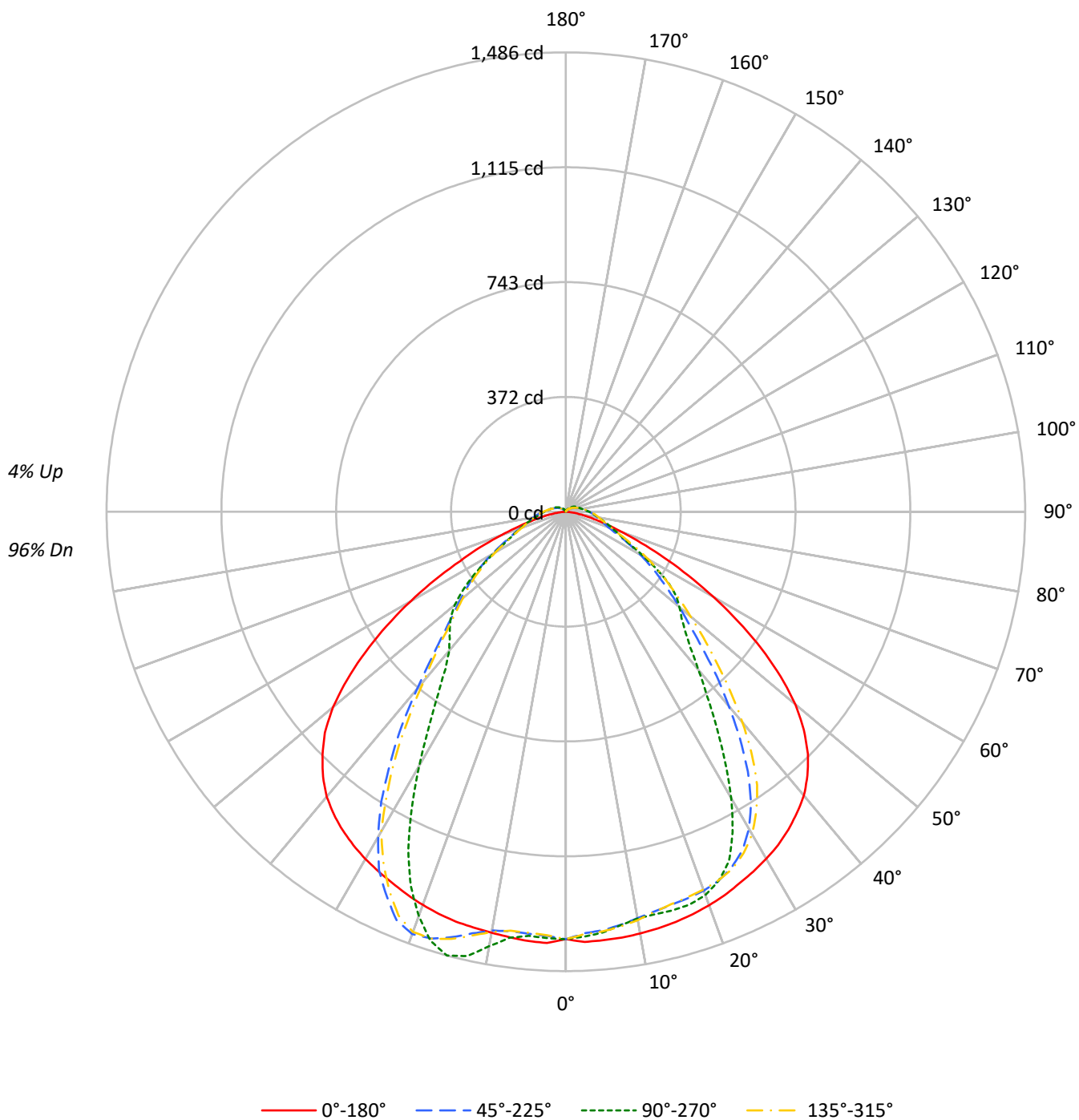
Lumens per Lamp: N/A
Luminaire Lumens: 3296.0 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 28
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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	96
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	84	84	82
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	73	73	71
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	63	63	61
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	56	56	54
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	49	49	47
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	44	44	42
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	40	40	38
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	36	36	34
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	33	33	31
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11173	11173	11173	11173
5°	11254	10730	11277	10814
10°	11306	10284	11283	10982
15°	11394	10146	11388	11297
20°	11519	9985	11507	10526
25°	11661	9472	11655	9153
30°	11881	8210	11887	7273
35°	12114	6638	12147	5617
40°	12318	5345	12369	4709
45°	12274	4528	12339	4409
50°	11746	4168	11911	4076
55°	10421	3747	10682	3406
60°	8453	2868	8902	2630
65°	6283	2194	6770	2081
70°	4273	1894	4817	1811
75°	2796	1709	3255	1616
80°	1807	1593	2119	1467
85°	929	1590	1223	1451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 12339 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	4.0
10°-20°	390.8	11.9
20°-30°	594.1	18.0
30°-40°	637.3	19.3
40°-50°	553.1	16.8
50°-60°	409.9	12.4
60°-70°	234.9	7.1
70°-80°	130.1	3.9
80°-90°	79.2	2.4
90°-100°	51.5	1.6
100°-110°	34.5	1.0
110°-120°	23.3	0.7
120°-130°	14.3	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°	1116.1	33.9
0°-40°	1753.4	53.2
0°-60°	2716.4	82.4
0°-90°	3160.5	95.9
90°-120°	109.3	3.3
90°-150°	134.5	4.1
90°-180°	136.0	4.1
0°-180°	3296.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1383	1383	1383	1383	1383	
5°	1391	1366	1394	1377	1391	133
15°	1373	1335	1373	1486	1373	389
25°	1327	1248	1326	1206	1327	613
35°	1255	850	1258	719	1255	785
45°	1108	545	1113	531	1108	848
55°	773	408	792	371	773	685
65°	351	207	378	196	351	353
75°	100	131	116	124	100	114
85°	14	91	18	83	14	18
90°	0	76	1	70	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	29	1	24	1	1
135°	1	18	1	15	1	1
145°	1	11	1	9	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°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1392.6	1389.0	1387.6	1384.7	1386.9	1395.4	1389.7	1380.4	1381.2	1364.7	1373.3
5°	1391.2	1386.9	1384.7	1381.9	1383.3	1391.2	1385.4	1376.2	1375.4	1359.0	1366.9
7.5°	1389.0	1384.7	1381.2	1379.0	1379.7	1386.2	1379.0	1368.3	1366.2	1348.3	1355.5
10°	1385.4	1382.6	1377.6	1374.0	1373.3	1380.4	1369.0	1358.3	1353.3	1334.7	1341.9
12.5°	1380.4	1376.2	1371.2	1364.7	1364.0	1368.3	1359.0	1344.0	1339.0	1324.0	1331.9
15°	1373.3	1368.3	1362.6	1355.5	1351.9	1354.7	1343.3	1329.7	1329.0	1316.2	1326.9
17.5°	1365.4	1358.3	1351.9	1341.9	1336.9	1339.0	1329.7	1317.6	1319.0	1311.2	1323.3
20°	1354.7	1346.9	1336.9	1326.9	1319.7	1323.3	1316.9	1307.6	1309.7	1304.0	1314.7
22.5°	1342.6	1331.9	1319.7	1308.3	1302.6	1307.6	1302.6	1294.7	1295.5	1291.9	1298.3
25°	1326.9	1314.7	1300.5	1286.2	1283.3	1286.9	1284.0	1277.6	1274.8	1269.0	1271.9
27.5°	1312.6	1299.0	1281.2	1266.2	1261.2	1268.3	1261.9	1251.2	1243.3	1235.5	1229.8
30°	1296.2	1279.8	1259.8	1242.6	1238.3	1241.2	1231.9	1215.5	1194.8	1184.8	1169.1
32.5°	1278.3	1256.9	1231.9	1212.6	1209.8	1207.6	1190.5	1166.9	1134.8	1114.8	1090.5
35°	1254.8	1231.2	1201.2	1177.6	1173.3	1161.2	1133.4	1101.9	1060.5	1026.2	984.8
37.5°	1228.3	1200.5	1169.1	1137.6	1125.5	1101.2	1061.9	1029.1	966.2	924.8	874.8
40°	1198.3	1164.8	1126.2	1088.4	1068.4	1029.1	984.1	935.5	874.8	819.1	777.0
42.5°	1156.9	1121.2	1075.5	1033.4	999.1	947.0	894.1	825.6	769.9	722.7	679.9
45°	1107.6	1064.8	1011.9	961.2	917.7	855.5	793.4	724.9	678.4	623.5	594.2
47.5°	1044.1	997.7	941.2	884.8	827.7	759.1	694.2	628.4	582.0	542.8	521.3
50°	969.1	926.2	864.1	797.0	734.1	662.7	597.7	548.5	503.5	479.2	462.8
52.5°	876.3	836.3	772.7	699.9	639.2	569.2	509.9	469.9	437.8	419.9	414.2
55°	772.7	737.7	674.9	607.0	544.9	480.6	435.6	400.6	379.9	369.2	369.9
57.5°	662.0	634.9	575.6	514.9	456.3	407.8	367.1	339.2	323.5	322.8	324.9
60°	551.3	531.3	479.9	427.8	376.4	337.1	307.1	287.8	277.8	278.5	277.8
62.5°	445.6	427.1	389.9	347.1	306.4	279.9	252.8	245.0	236.4	235.7	235.7
65°	350.6	336.4	306.4	275.7	245.0	227.8	214.2	205.0	198.5	197.1	197.8
67.5°	263.5	257.8	237.1	216.4	197.1	186.4	175.0	172.8	167.8	167.8	169.3
70°	196.4	192.1	180.7	168.5	160.7	153.5	147.8	147.8	147.1	146.4	150.0
72.5°	142.1	142.8	139.3	130.0	129.3	127.8	126.4	128.5	129.3	131.4	135.7
75°	100.0	102.1	102.1	100.7	103.6	107.1	109.3	112.8	117.1	120.0	125.0
77.5°	70.7	70.7	74.3	78.6	84.3	90.7	96.4	101.4	107.1	110.7	115.0
80°	45.7	47.8	53.6	61.4	69.3	77.8	85.7	92.1	97.8	103.6	106.4
82.5°	27.1	30.7	37.8	47.8	57.8	68.6	76.4	84.3	90.7	96.4	98.6
85°	13.6	18.6	27.1	37.8	48.6	60.0	70.0	77.1	84.3	89.3	92.1
87.5°	4.3	10.0	19.3	29.3	40.7	52.1	62.8	70.7	77.1	81.4	84.3
90°	0.0	5.0	13.6	24.3	35.0	46.4	56.4	65.0	71.4	75.0	77.1
92.5°	0.0	2.9	10.7	20.0	30.0	41.4	51.4	59.3	65.0	68.6	70.0
95°	0.7	2.1	7.9	16.4	26.4	37.1	46.4	53.6	59.3	62.8	63.6
97.5°	0.7	1.4	6.4	13.6	22.9	32.9	42.1	49.3	53.6	57.1	57.8
100°	0.7	1.4	5.0	12.1	20.0	29.3	37.8	44.3	49.3	52.1	52.8
102.5°	0.7	0.7	4.3	10.0	17.9	25.7	33.6	40.0	44.3	47.1	48.6
105°	0.7	0.7	3.6	8.6	15.7	22.9	30.0	36.4	40.0	42.8	44.3
107.5°	0.7	0.7	2.9	7.1	13.6	20.0	27.1	32.1	36.4	39.3	40.7
110°	0.7	0.7	2.1	6.4	11.4	17.9	23.6	28.6	32.9	35.7	37.1

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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	10.0	15.7	20.7	25.7	29.3	32.1	34.3
115°	0.7	0.7	2.1	5.0	9.3	13.6	18.6	22.9	26.4	29.3	31.4
117.5°	0.7	0.7	2.1	4.3	7.9	12.1	16.4	20.7	23.6	26.4	28.6
120°	0.7	0.7	1.4	3.6	7.1	10.7	14.3	17.9	21.4	24.3	26.4
122.5°	0.7	0.7	1.4	3.6	5.7	9.3	12.9	15.7	19.3	21.4	23.6
125°	0.7	0.7	1.4	2.9	5.0	8.6	11.4	14.3	16.4	19.3	21.4
127.5°	0.7	0.7	1.4	2.9	4.3	7.1	10.0	12.9	15.0	17.1	18.6
130°	0.7	0.7	1.4	2.1	3.6	5.7	8.6	10.7	13.6	15.0	16.4
132.5°	0.7	0.7	0.7	2.1	2.9	4.3	6.4	9.3	11.4	13.6	14.3
135°	0.7	0.7	0.7	1.4	2.9	3.6	5.0	7.1	9.3	11.4	12.9
137.5°	0.7	0.7	0.7	1.4	2.1	3.6	4.3	5.7	7.9	9.3	11.4
140°	0.7	0.7	0.7	1.4	2.1	2.9	3.6	5.0	6.4	7.9	9.3
142.5°	0.7	0.7	0.7	1.4	1.4	2.1	2.9	4.3	5.0	6.4	7.9
145°	0.7	0.7	0.7	1.4	1.4	2.1	2.9	3.6	4.3	5.0	6.4
147.5°	0.7	0.7	0.7	1.4	1.4	1.4	2.1	2.9	3.6	4.3	5.0
150°	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.9	3.6	4.3
152.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.9	3.6
155°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.9	2.9
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1370.4	1371.9	1380.4	1379.7	1378.3	1376.9	1376.9	1375.4	1376.9	1380.4	1379.0
5°	1363.3	1365.4	1371.9	1371.2	1369.7	1369.0	1368.3	1366.2	1367.6	1372.6	1371.2
7.5°	1350.5	1352.6	1358.3	1355.5	1353.3	1354.7	1351.2	1349.0	1351.9	1356.9	1356.2
10°	1336.9	1338.3	1345.5	1344.0	1340.5	1341.2	1337.6	1336.2	1339.7	1342.6	1343.3
12.5°	1327.6	1332.6	1339.0	1338.3	1337.6	1338.3	1334.7	1333.3	1335.5	1338.3	1337.6
15°	1325.5	1331.9	1339.0	1339.0	1339.7	1340.5	1336.9	1334.7	1336.9	1339.0	1338.3
17.5°	1323.3	1331.2	1337.6	1336.9	1337.6	1339.0	1333.3	1331.9	1334.7	1337.6	1336.2
20°	1316.2	1323.3	1327.6	1326.2	1326.2	1326.9	1319.7	1319.7	1324.0	1326.2	1326.9
22.5°	1296.2	1304.7	1304.7	1301.2	1301.2	1298.3	1296.2	1291.9	1296.9	1300.5	1303.3
25°	1266.2	1269.8	1265.5	1257.6	1253.3	1249.8	1239.8	1248.3	1248.3	1259.0	1262.6
27.5°	1224.0	1216.2	1204.1	1187.6	1184.1	1172.6	1166.2	1168.3	1171.9	1186.9	1198.3
30°	1154.8	1131.2	1110.5	1103.4	1087.6	1076.2	1064.8	1070.5	1076.9	1085.5	1109.1
32.5°	1063.4	1040.5	1006.9	994.8	978.4	964.1	950.5	959.1	970.5	976.2	1001.9
35°	958.4	931.2	900.5	879.8	862.7	854.8	837.7	849.8	862.0	866.3	888.4
37.5°	847.0	819.1	792.0	774.1	757.7	752.7	741.3	749.9	759.1	765.6	784.1
40°	741.3	715.6	694.9	682.7	671.3	667.0	662.7	666.3	673.4	678.4	692.7
42.5°	650.6	629.9	615.6	608.5	600.6	594.9	595.6	597.0	600.6	611.3	617.7
45°	571.3	559.2	549.9	548.5	543.5	542.8	542.0	544.9	547.0	553.5	558.5
47.5°	507.8	502.8	500.6	503.5	505.6	502.8	504.2	507.8	512.0	512.0	511.3
50°	457.8	459.2	462.1	468.5	472.8	474.2	475.6	479.9	480.6	482.0	479.9
52.5°	417.1	418.5	426.3	436.3	441.3	443.5	446.3	450.6	450.6	452.1	449.2
55°	375.6	377.8	385.6	395.6	399.9	402.8	405.6	408.5	410.6	413.5	411.3
57.5°	329.9	336.4	341.4	344.2	347.1	349.2	351.4	352.1	356.4	357.1	360.6
60°	281.4	282.8	287.8	287.1	284.9	290.7	287.8	292.8	297.8	304.2	304.9
62.5°	235.0	235.7	239.2	237.8	240.7	240.0	242.1	242.1	245.7	248.5	252.1
65°	198.5	199.2	202.1	202.1	201.4	203.5	205.7	207.1	207.1	209.2	212.1
67.5°	171.4	173.5	176.4	177.8	179.3	179.3	181.4	182.1	183.5	184.2	185.7
70°	152.8	155.7	158.5	160.0	160.7	162.1	162.8	162.8	164.3	165.0	166.4
72.5°	139.3	142.1	144.3	144.3	145.7	146.4	146.4	147.1	147.8	149.3	150.7
75°	127.8	130.0	131.4	130.7	130.7	130.7	131.4	131.4	132.8	134.3	135.7
77.5°	117.1	119.3	119.3	117.8	117.8	117.8	117.8	118.5	119.3	120.7	122.1
80°	109.3	109.3	108.6	108.6	107.1	106.4	106.4	107.1	107.1	108.6	110.7
82.5°	100.7	100.7	100.0	99.3	98.6	97.8	97.8	98.6	99.3	100.0	101.4
85°	92.8	92.8	91.4	91.4	90.7	90.7	90.7	90.7	91.4	92.1	93.6
87.5°	85.0	84.3	83.6	82.8	82.8	82.8	82.8	82.8	83.6	85.0	85.7
90°	77.1	76.4	75.7	75.7	75.0	75.0	75.7	75.7	76.4	77.1	77.8
92.5°	70.0	69.3	68.6	68.6	67.8	67.8	68.6	67.8	69.3	69.3	70.0
95°	63.6	62.8	62.1	62.1	62.1	62.1	62.1	62.1	62.8	62.8	63.6
97.5°	57.8	57.1	56.4	56.4	57.1	56.4	57.1	57.1	57.1	57.8	58.6
100°	52.8	52.1	52.1	52.8	52.1	52.1	52.8	52.8	52.8	52.8	53.6
102.5°	48.6	48.6	48.6	48.6	48.6	48.6	49.3	49.3	49.3	49.3	50.0
105°	44.3	45.0	45.0	45.0	45.7	45.7	45.7	46.4	46.4	46.4	46.4
107.5°	41.4	42.1	42.1	42.8	42.8	43.6	43.6	43.6	43.6	44.3	44.3
110°	38.6	39.3	40.0	40.7	40.7	41.4	41.4	41.4	41.4	41.4	41.4

TEST NUMBER: P1213408

CATALOG NUMBER: 4SNLED-LD5-37SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	35.7	36.4	37.1	38.6	39.3	39.3	39.3	39.3	40.0	40.0	39.3
115°	32.9	34.3	35.0	36.4	37.1	37.1	37.8	37.8	37.8	37.8	37.1
117.5°	30.0	32.1	32.9	34.3	35.0	35.0	35.7	35.7	35.7	35.7	35.0
120°	27.9	29.3	30.7	31.4	32.1	32.9	32.9	33.6	33.6	33.6	32.9
122.5°	25.7	27.1	28.6	29.3	30.0	30.7	30.7	30.7	30.7	30.7	30.7
125°	22.9	24.3	25.7	26.4	27.1	27.9	27.9	28.6	28.6	28.6	27.9
127.5°	20.7	22.1	22.9	24.3	25.0	25.0	25.7	25.7	25.7	25.7	25.0
130°	17.9	19.3	20.7	21.4	22.1	22.1	22.9	22.9	22.9	22.9	22.9
132.5°	15.7	17.1	17.9	19.3	19.3	20.0	20.0	20.7	20.7	20.7	20.0
135°	14.3	15.0	15.7	17.1	17.1	17.9	17.9	17.9	17.9	17.9	17.9
137.5°	12.9	13.6	14.3	15.0	15.0	15.7	15.7	15.7	15.7	16.4	15.7
140°	10.7	12.1	12.9	12.9	13.6	13.6	13.6	14.3	14.3	14.3	13.6
142.5°	9.3	10.0	10.7	11.4	12.1	12.1	12.1	12.1	12.9	12.1	12.1
145°	7.1	8.6	9.3	10.0	10.7	10.7	10.7	10.7	10.7	10.7	10.7
147.5°	5.7	6.4	7.9	8.6	8.6	9.3	9.3	9.3	9.3	9.3	9.3
150°	5.0	5.0	6.4	7.1	7.9	7.9	7.9	7.9	7.9	7.9	7.9
152.5°	3.6	4.3	5.0	5.7	6.4	6.4	6.4	6.4	6.4	6.4	6.4
155°	3.6	3.6	4.3	4.3	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: P1213408

CATALOG NUMBER: 4SNLED-LD5-37SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1376.9	1376.2	1379.0	1376.2	1361.9	1367.6	1365.4	1373.3	1374.0	1376.2	1383.3
5°	1369.7	1369.7	1373.3	1370.4	1356.9	1362.6	1361.9	1369.7	1371.2	1372.6	1380.4
7.5°	1355.5	1356.2	1361.2	1359.0	1344.7	1353.3	1352.6	1361.9	1364.7	1367.6	1374.7
10°	1341.9	1341.2	1346.9	1344.7	1331.2	1341.2	1340.5	1349.7	1354.0	1359.0	1367.6
12.5°	1334.7	1332.6	1334.7	1332.6	1317.6	1325.5	1326.2	1336.9	1341.9	1348.3	1358.3
15°	1334.7	1331.2	1331.2	1326.9	1309.7	1314.7	1315.5	1322.6	1329.0	1335.5	1347.6
17.5°	1333.3	1329.7	1329.0	1325.5	1306.9	1306.9	1306.2	1311.2	1314.7	1321.2	1334.0
20°	1325.5	1324.0	1323.3	1321.2	1304.0	1301.2	1299.7	1299.7	1301.9	1304.0	1316.9
22.5°	1304.7	1306.2	1307.6	1309.0	1295.5	1290.5	1291.2	1289.7	1287.6	1287.6	1298.3
25°	1266.2	1273.3	1279.0	1285.5	1277.6	1274.0	1278.3	1276.2	1272.6	1269.8	1279.0
27.5°	1204.8	1219.8	1231.9	1247.6	1248.3	1245.5	1256.9	1255.5	1254.8	1250.5	1257.6
30°	1119.8	1143.3	1159.8	1182.6	1201.9	1204.8	1224.0	1226.9	1229.8	1227.6	1234.8
32.5°	1016.9	1049.1	1076.9	1112.6	1131.2	1147.6	1174.8	1186.2	1197.6	1201.2	1209.1
35°	904.8	941.2	974.1	1013.4	1042.7	1078.4	1111.2	1128.4	1154.1	1164.1	1175.5
37.5°	798.4	832.7	864.8	904.1	951.2	988.4	1029.1	1067.6	1102.6	1116.9	1134.1
40°	704.1	732.0	762.7	797.0	839.8	888.4	932.7	986.2	1027.7	1056.2	1081.2
42.5°	632.7	646.3	672.7	703.4	737.7	787.0	832.0	892.0	942.0	982.7	1024.1
45°	569.2	575.6	594.9	611.3	646.3	689.9	737.7	796.3	848.4	900.5	950.5
47.5°	514.9	522.8	532.0	542.0	567.0	603.5	644.9	697.7	749.9	810.6	867.7
50°	478.5	480.6	482.0	486.3	501.3	526.3	559.9	604.9	654.9	719.9	780.6
52.5°	446.3	446.3	442.1	439.9	445.6	461.3	480.6	512.8	564.2	624.2	688.4
55°	412.1	405.6	404.2	397.1	398.5	405.6	414.9	439.9	482.0	533.5	595.6
57.5°	364.2	361.4	361.4	358.5	352.8	356.4	358.5	376.4	406.3	450.6	504.9
60°	309.2	307.8	311.4	312.1	307.1	309.2	308.5	319.2	340.6	376.4	421.3
62.5°	254.2	260.7	261.4	264.2	261.4	260.7	264.2	273.5	284.2	311.4	346.4
65°	213.5	217.1	217.8	221.4	220.0	220.0	222.8	230.0	236.4	255.0	282.1
67.5°	187.1	185.7	186.4	188.5	186.4	185.7	187.8	192.1	197.1	208.5	227.8
70°	166.4	165.0	165.0	165.0	162.1	160.0	160.7	162.1	164.3	170.7	182.8
72.5°	150.7	150.7	148.5	146.4	144.3	142.8	141.4	140.0	139.3	141.4	147.8
75°	136.4	137.1	136.4	134.3	131.4	128.5	125.7	122.8	119.3	117.8	118.5
77.5°	123.5	124.3	125.0	124.3	121.4	117.8	113.5	109.3	104.3	99.3	96.4
80°	112.1	113.5	114.3	113.5	111.4	108.6	103.6	98.6	91.4	85.0	77.8
82.5°	102.1	104.3	105.0	105.0	103.6	100.7	95.0	89.3	81.4	72.8	63.6
85°	94.3	95.7	97.1	97.1	96.4	93.6	87.8	81.4	73.6	63.6	53.6
87.5°	86.4	87.1	88.6	90.0	88.6	85.7	80.7	73.6	65.7	55.7	44.3
90°	78.6	79.3	80.7	82.1	81.4	78.6	74.3	67.8	59.3	48.6	37.1
92.5°	70.7	72.1	72.8	73.6	74.3	72.1	68.6	62.1	53.6	42.8	32.1
95°	65.0	65.0	66.4	67.1	67.8	65.7	62.8	56.4	48.6	38.6	27.9
97.5°	59.3	59.3	60.7	60.7	61.4	60.0	57.1	51.4	43.6	34.3	23.6
100°	53.6	54.3	55.0	55.7	55.7	55.0	52.1	46.4	39.3	30.7	20.7
102.5°	50.0	50.0	50.7	50.7	51.4	50.0	47.1	42.1	35.0	27.1	17.9
105°	46.4	46.4	47.1	47.1	46.4	45.0	42.1	37.8	31.4	23.6	15.7
107.5°	43.6	43.6	43.6	43.6	42.8	41.4	38.6	33.6	27.9	21.4	14.3
110°	41.4	40.7	40.7	40.0	39.3	37.1	34.3	30.0	25.0	18.6	12.1



TEST NUMBER: P1213408

CATALOG NUMBER: 4SNLED-LD5-37SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	39.3	38.6	37.8	37.1	35.7	33.6	30.7	27.1	22.1	16.4	10.7
115°	37.1	36.4	35.7	34.3	32.9	30.7	27.9	24.3	19.3	14.3	9.3
117.5°	35.0	34.3	32.9	31.4	30.0	27.9	25.0	21.4	17.1	12.9	8.6
120°	32.1	31.4	30.7	29.3	27.9	25.0	22.1	19.3	15.0	11.4	7.1
122.5°	30.0	29.3	27.9	27.1	25.0	22.9	20.0	17.1	13.6	10.0	6.4
125°	27.1	26.4	25.7	24.3	22.9	20.0	17.9	15.0	12.1	8.6	5.0
127.5°	25.0	24.3	22.9	21.4	20.0	17.9	15.7	13.6	10.7	7.1	5.0
130°	22.1	21.4	20.7	19.3	17.9	15.7	14.3	11.4	9.3	6.4	4.3
132.5°	19.3	19.3	18.6	17.1	15.7	14.3	12.1	10.0	7.9	5.7	3.6
135°	17.9	17.1	16.4	15.0	14.3	12.1	10.7	8.6	6.4	5.0	2.9
137.5°	15.7	15.0	14.3	13.6	12.1	10.7	9.3	7.1	5.7	4.3	2.9
140°	13.6	12.9	12.9	11.4	10.7	9.3	7.9	6.4	5.0	3.6	2.1
142.5°	12.1	11.4	10.7	10.0	9.3	7.9	6.4	5.0	4.3	2.9	2.1
145°	10.7	10.0	9.3	8.6	7.9	6.4	5.7	4.3	3.6	2.9	2.1
147.5°	8.6	8.6	7.9	7.1	6.4	5.7	5.0	4.3	2.9	2.1	1.4
150°	7.1	7.1	6.4	5.7	5.7	5.0	4.3	3.6	2.9	2.1	1.4
152.5°	6.4	5.7	5.7	5.0	5.0	4.3	3.6	2.9	2.1	2.1	1.4
155°	5.0	5.0	5.0	4.3	4.3	3.6	2.9	2.9	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: P1213408

CATALOG NUMBER: 4SNLED-LD5-37SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1384.7	1376.2	1383.3	1396.2	1394.7	1393.3	1391.9	1394.7	1404.0	1399.0	1391.2
5°	1382.6	1374.0	1381.9	1394.0	1393.3	1391.2	1389.7	1392.6	1401.9	1396.9	1388.3
7.5°	1378.3	1370.4	1376.2	1388.3	1388.3	1386.9	1385.4	1388.3	1396.9	1392.6	1384.0
10°	1371.2	1365.4	1371.2	1382.6	1383.3	1380.4	1379.0	1382.6	1391.2	1389.0	1381.9
12.5°	1365.4	1359.7	1366.2	1377.6	1378.3	1375.4	1373.3	1377.6	1389.0	1390.4	1388.3
15°	1357.6	1352.6	1360.4	1372.6	1372.6	1370.4	1370.4	1376.2	1391.9	1398.3	1401.9
17.5°	1346.2	1342.6	1351.9	1364.0	1364.7	1363.3	1364.0	1375.4	1396.2	1411.9	1421.9
20°	1331.9	1330.5	1340.5	1353.3	1355.5	1356.2	1359.7	1376.9	1405.4	1426.9	1436.9
22.5°	1314.7	1315.5	1326.9	1340.5	1343.3	1345.5	1352.6	1376.9	1412.6	1435.4	1439.7
25°	1295.5	1297.6	1309.7	1326.2	1329.7	1334.0	1346.2	1377.6	1414.7	1429.7	1422.6
27.5°	1274.8	1279.0	1294.7	1311.9	1316.2	1323.3	1339.0	1373.3	1404.7	1405.4	1379.0
30°	1253.3	1258.3	1276.9	1296.9	1304.0	1311.2	1330.5	1363.3	1380.4	1357.6	1311.2
32.5°	1229.0	1236.2	1254.8	1279.0	1287.6	1296.9	1316.2	1344.0	1337.6	1288.3	1221.9
35°	1198.3	1208.3	1229.8	1258.3	1266.2	1278.3	1291.9	1298.3	1269.8	1199.8	1124.8
37.5°	1160.5	1175.5	1200.5	1233.3	1241.9	1249.8	1253.3	1235.5	1178.3	1102.6	1024.8
40°	1116.9	1139.8	1166.9	1203.3	1211.9	1211.9	1199.1	1161.2	1089.1	989.8	903.4
42.5°	1064.1	1091.9	1126.2	1162.6	1171.2	1161.2	1130.5	1064.1	982.0	871.3	779.8
45°	999.8	1036.9	1075.5	1113.4	1117.6	1095.5	1040.5	956.2	854.8	752.0	664.9
47.5°	923.4	972.0	1014.1	1056.9	1051.2	1014.1	940.5	844.8	737.7	640.6	570.6
50°	837.7	894.8	942.0	982.7	970.5	919.1	832.7	732.7	626.3	543.5	485.6
52.5°	746.3	812.0	859.1	892.0	875.5	814.1	719.1	623.5	536.3	460.6	422.1
55°	651.3	717.7	766.3	792.0	770.6	704.1	610.6	523.5	441.3	392.1	369.2
57.5°	559.2	621.3	667.0	687.7	660.6	594.2	507.8	434.2	374.9	333.5	322.1
60°	470.6	521.3	564.9	580.6	551.3	489.9	415.6	357.1	313.5	284.9	279.2
62.5°	388.5	429.9	464.2	476.3	447.8	399.9	335.6	292.1	261.4	247.1	240.0
65°	320.7	344.9	379.9	377.8	360.6	316.4	269.2	238.5	218.5	209.2	205.0
67.5°	252.1	274.2	296.4	299.2	277.8	247.1	216.4	194.2	183.5	178.5	176.4
70°	195.0	211.4	225.0	221.4	210.0	190.7	171.4	159.3	155.0	152.8	152.8
72.5°	151.4	160.0	166.4	162.1	155.0	145.0	135.7	130.7	131.4	132.8	134.3
75°	117.1	119.3	120.7	116.4	115.0	108.6	107.8	108.6	112.8	117.1	119.3
77.5°	90.0	87.1	85.0	80.7	81.4	80.7	84.3	90.0	96.4	102.8	108.6
80°	69.3	62.8	57.8	53.6	55.7	59.3	66.4	75.0	83.6	90.7	97.8
82.5°	53.6	44.3	37.1	32.9	37.1	42.8	52.1	62.8	72.8	80.7	88.6
85°	41.4	30.7	22.1	17.9	22.1	30.7	40.7	52.8	63.6	72.1	80.0
87.5°	32.1	22.1	12.1	7.1	12.1	21.4	32.9	44.3	55.0	65.0	72.8
90°	25.7	15.0	5.7	1.4	6.4	15.0	25.7	37.1	47.8	58.6	66.4
92.5°	20.7	10.7	2.9	0.0	3.6	11.4	21.4	32.1	42.8	52.8	60.7
95°	17.1	8.6	2.1	0.0	2.9	8.6	17.1	27.9	37.8	47.8	54.3
97.5°	14.3	6.4	1.4	0.0	1.4	7.1	14.3	23.6	33.6	42.8	49.3
100°	12.1	5.7	1.4	0.0	1.4	5.7	12.1	20.7	29.3	37.8	44.3
102.5°	10.0	4.3	0.7	0.7	0.7	4.3	10.7	17.9	25.7	33.6	40.0
105°	9.3	3.6	0.7	0.7	0.7	3.6	9.3	15.7	22.9	30.0	35.7
107.5°	7.9	2.9	0.7	0.7	0.7	2.9	7.9	13.6	20.7	27.1	32.1
110°	6.4	2.9	0.7	0.7	0.7	2.9	6.4	12.1	17.9	23.6	28.6

TEST NUMBER: P1213408

CATALOG NUMBER: 4SNLED-LD5-37SL-LC-UNV-L935-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	10.7	15.7	21.4	25.7
115°	5.0	2.1	0.7	0.7	0.7	2.1	5.0	9.3	13.6	18.6	22.9
117.5°	4.3	2.1	0.7	0.7	0.7	1.4	4.3	7.9	12.1	16.4	20.7
120°	3.6	1.4	0.7	0.7	0.7	1.4	3.6	7.1	10.7	14.3	17.9
122.5°	3.6	1.4	0.7	0.7	0.7	1.4	2.9	5.7	9.3	12.1	15.7
125°	2.9	1.4	0.7	0.7	0.7	0.7	2.9	5.0	7.9	10.7	13.6
127.5°	2.9	1.4	0.7	0.7	0.7	0.7	2.1	4.3	6.4	9.3	12.1
130°	2.1	1.4	0.7	0.7	0.7	0.7	1.4	3.6	5.7	7.9	10.0
132.5°	2.1	1.4	0.7	0.7	0.7	0.7	1.4	2.9	4.3	6.4	8.6
135°	2.1	0.7	0.7	0.7	0.7	0.7	0.7	2.1	3.6	5.0	6.4
137.5°	1.4	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.9	3.6	5.7
140°	1.4	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	2.9	4.3
142.5°	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	3.6
145°	1.4	0.7	0.7	1.4	1.4	0.7	0.7	1.4	1.4	2.1	2.9
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: P1213408

CATALOG NUMBER: 4SNLED-LD5-37SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1389.7	1373.3	1381.9	1379.0	1381.9	1389.0	1388.3	1386.2	1387.6	1384.0	1380.4
5°	1386.9	1370.4	1379.0	1375.4	1379.0	1386.2	1384.7	1382.6	1384.7	1380.4	1376.9
7.5°	1383.3	1368.3	1378.3	1377.6	1384.0	1393.3	1394.0	1394.0	1399.0	1392.6	1389.7
10°	1383.3	1375.4	1389.0	1394.0	1410.4	1422.6	1424.0	1426.9	1435.4	1434.0	1426.9
12.5°	1398.3	1396.9	1416.9	1429.0	1444.0	1461.1	1470.4	1473.3	1479.0	1474.7	1471.9
15°	1417.6	1424.7	1446.9	1460.4	1476.9	1489.7	1491.9	1493.3	1497.6	1491.1	1486.1
17.5°	1443.3	1447.6	1465.4	1471.1	1481.9	1484.0	1481.1	1474.0	1474.0	1459.7	1455.4
20°	1455.4	1453.3	1460.4	1451.1	1446.9	1434.0	1421.9	1408.3	1407.6	1392.6	1391.2
22.5°	1444.7	1430.4	1415.4	1392.6	1382.6	1364.0	1347.6	1339.7	1334.7	1315.5	1310.5
25°	1406.9	1371.9	1349.7	1322.6	1298.3	1276.9	1261.2	1244.8	1229.0	1213.3	1206.2
27.5°	1341.2	1308.3	1272.6	1234.8	1201.2	1168.3	1141.9	1125.5	1110.5	1089.8	1079.1
30°	1260.5	1214.8	1175.5	1139.1	1084.1	1044.1	1021.9	989.1	977.7	968.4	948.4
32.5°	1165.5	1110.5	1056.9	1007.7	951.2	914.1	884.8	860.5	853.4	829.1	823.4
35°	1060.5	988.4	927.7	879.1	838.4	793.4	769.1	752.7	738.4	722.0	719.1
37.5°	937.0	872.0	803.4	760.6	728.4	689.9	671.3	659.9	653.4	641.3	639.2
40°	812.7	747.7	700.6	657.7	637.7	617.0	603.5	598.5	595.6	591.3	587.0
42.5°	699.9	642.7	609.2	580.6	572.0	562.0	558.5	561.3	558.5	557.0	556.3
45°	604.2	560.6	537.0	528.5	526.3	523.5	526.3	531.3	532.0	530.6	530.6
47.5°	517.0	496.3	486.3	487.8	491.3	493.5	498.5	504.9	506.3	502.8	504.2
50°	459.9	447.8	445.6	451.3	459.2	462.1	467.8	472.8	472.1	470.6	469.2
52.5°	406.3	402.8	408.5	414.2	422.8	424.2	426.3	428.5	427.8	424.9	423.5
55°	361.4	364.2	369.2	371.4	377.8	377.1	377.8	377.8	374.9	373.5	371.4
57.5°	320.7	321.4	324.2	324.9	328.5	327.1	326.4	324.9	320.7	319.9	317.8
60°	279.2	277.8	284.2	279.2	282.1	279.2	278.5	274.9	270.7	269.9	268.5
62.5°	240.0	237.1	241.4	239.2	240.7	237.8	236.4	232.1	228.5	227.8	227.1
65°	205.0	203.5	207.8	207.1	208.5	205.0	203.5	200.7	197.8	197.1	196.4
67.5°	175.7	179.3	181.4	181.4	182.8	182.1	178.5	177.8	177.1	174.3	174.3
70°	154.3	156.4	160.7	161.4	160.7	162.1	159.3	158.5	157.8	156.4	155.7
72.5°	137.1	140.0	144.3	145.0	144.3	144.3	142.8	142.1	142.1	140.0	140.0
75°	123.5	127.1	130.7	130.7	130.7	129.3	127.8	127.8	126.4	125.7	124.3
77.5°	112.1	116.4	119.3	118.5	117.8	116.4	116.4	114.3	112.1	112.1	110.7
80°	103.6	106.4	108.6	107.8	107.1	105.0	104.3	102.1	100.7	98.6	98.6
82.5°	94.3	97.8	99.3	98.6	97.1	95.0	94.3	92.8	91.4	90.7	89.3
85°	86.4	90.0	90.7	89.3	87.8	86.4	85.7	85.0	84.3	82.8	82.8
87.5°	78.6	82.1	82.1	81.4	80.0	79.3	78.6	77.8	77.1	76.4	75.7
90°	72.1	75.0	75.0	74.3	73.6	72.8	72.1	71.4	70.7	70.0	70.0
92.5°	65.7	68.6	68.6	67.8	67.1	66.4	66.4	65.7	65.0	64.3	63.6
95°	60.0	62.8	62.8	62.8	62.1	61.4	61.4	60.7	60.0	60.0	59.3
97.5°	54.3	57.1	57.1	57.1	56.4	55.7	55.7	55.0	55.0	55.0	54.3
100°	49.3	51.4	52.1	52.1	51.4	51.4	51.4	50.7	50.7	50.7	50.0
102.5°	44.3	46.4	47.8	47.8	47.8	47.1	47.1	47.1	47.1	47.1	46.4
105°	40.0	42.1	43.6	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
107.5°	36.4	38.6	40.0	40.7	41.4	41.4	42.1	42.1	42.1	42.1	42.1
110°	32.9	35.0	37.1	37.8	38.6	39.3	39.3	40.0	39.3	39.3	39.3

TEST NUMBER: P1213408

CATALOG NUMBER: 4SNLED-LD5-37SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	29.3	32.1	33.6	35.0	35.7	36.4	37.1	37.1	37.1	37.1	37.1
115°	26.4	29.3	30.7	32.1	33.6	34.3	34.3	35.0	35.0	35.0	34.3
117.5°	23.6	26.4	27.9	29.3	30.0	31.4	32.1	32.1	32.1	32.1	31.4
120°	21.4	23.6	25.0	26.4	27.9	28.6	29.3	29.3	29.3	29.3	29.3
122.5°	18.6	20.7	22.9	24.3	25.0	25.7	26.4	26.4	26.4	26.4	26.4
125°	16.4	18.6	20.0	21.4	22.1	23.6	23.6	23.6	23.6	23.6	23.6
127.5°	14.3	16.4	17.9	19.3	20.0	20.7	21.4	21.4	21.4	21.4	21.4
130°	12.1	14.3	15.7	17.1	17.9	18.6	18.6	19.3	19.3	19.3	19.3
132.5°	10.7	12.1	13.6	15.0	15.7	16.4	16.4	17.1	17.1	17.1	17.1
135°	8.6	10.7	11.4	12.9	13.6	14.3	14.3	15.0	15.0	15.0	15.0
137.5°	7.1	8.6	10.0	11.4	12.1	12.1	12.9	12.9	13.6	13.6	13.6
140°	5.7	6.4	8.6	9.3	10.0	10.7	11.4	11.4	11.4	11.4	11.4
142.5°	4.3	5.7	6.4	7.9	8.6	9.3	10.0	10.0	10.0	10.0	10.0
145°	3.6	4.3	5.0	6.4	7.1	7.9	8.6	8.6	8.6	8.6	8.6
147.5°	2.9	3.6	4.3	5.0	5.7	6.4	7.1	7.1	7.1	7.1	7.1
150°	2.1	2.9	3.6	3.6	4.3	5.0	5.7	6.4	6.4	6.4	6.4
152.5°	2.1	2.1	2.9	2.9	3.6	4.3	5.0	5.0	5.0	5.0	5.0
155°	1.4	2.1	2.1	2.1	2.9	2.9	3.6	4.3	4.3	4.3	4.3
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: P1213408

CATALOG NUMBER: 4SNLED-LD5-37SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1382.6	1385.4	1384.0	1381.9	1381.2	1384.7	1381.2	1364.7	1371.2	1371.9	1376.9
5°	1380.4	1382.6	1381.2	1379.7	1377.6	1381.9	1377.6	1360.4	1366.9	1367.6	1372.6
7.5°	1394.7	1395.4	1395.4	1391.9	1386.2	1388.3	1382.6	1363.3	1366.9	1366.9	1370.4
10°	1430.4	1431.9	1434.0	1424.7	1417.6	1411.9	1404.0	1380.4	1379.7	1374.0	1374.0
12.5°	1476.9	1473.3	1469.7	1465.4	1459.7	1452.6	1441.1	1413.3	1404.0	1394.7	1385.4
15°	1490.4	1489.0	1488.3	1486.1	1482.6	1480.4	1471.9	1444.0	1430.4	1419.0	1402.6
17.5°	1454.7	1457.6	1466.9	1467.6	1471.9	1480.4	1479.0	1459.7	1447.6	1442.6	1422.6
20°	1390.4	1391.2	1402.6	1407.6	1426.2	1440.4	1451.1	1449.0	1446.1	1451.9	1436.9
22.5°	1313.3	1318.3	1330.5	1338.3	1356.2	1372.6	1389.7	1399.0	1414.0	1437.6	1434.7
25°	1208.3	1214.8	1231.9	1244.8	1269.8	1294.7	1317.6	1334.0	1351.9	1396.9	1411.9
27.5°	1082.6	1092.6	1114.8	1127.6	1162.6	1188.3	1221.2	1253.3	1278.3	1329.7	1360.4
30°	950.5	959.1	982.7	1000.5	1030.5	1065.5	1106.9	1152.6	1194.1	1246.2	1284.8
32.5°	827.0	836.3	855.5	871.3	904.8	934.1	979.8	1036.2	1074.8	1146.9	1198.3
35°	719.1	727.7	741.3	754.9	782.7	812.7	852.0	907.0	956.2	1031.2	1096.2
37.5°	643.4	644.9	652.7	660.6	681.3	704.1	734.9	783.4	829.1	909.8	981.2
40°	589.2	589.2	593.5	595.6	604.9	618.5	637.7	675.6	713.4	774.8	862.0
42.5°	555.6	554.2	554.2	554.9	554.2	560.6	572.0	589.9	623.5	674.2	742.0
45°	530.6	527.8	525.6	520.6	517.8	517.8	518.5	524.9	544.2	577.0	632.0
47.5°	502.8	502.0	498.5	492.8	487.8	484.2	478.5	476.3	482.0	500.6	537.8
50°	470.6	467.1	463.5	459.2	453.5	449.9	439.2	439.9	434.9	443.5	462.8
52.5°	423.5	420.6	419.2	415.6	413.5	412.1	403.5	394.9	392.8	394.2	401.4
55°	371.4	372.8	367.1	369.9	369.2	362.8	359.2	352.8	350.6	349.9	353.5
57.5°	317.1	318.5	314.9	317.8	317.8	314.2	312.1	312.1	307.1	302.8	307.8
60°	267.8	264.9	267.1	270.7	270.7	268.5	267.1	267.1	263.5	262.1	265.7
62.5°	227.8	225.0	227.1	230.7	231.4	230.0	228.5	228.5	224.2	224.2	227.1
65°	197.1	197.8	197.1	200.0	200.0	200.7	199.2	197.8	192.8	195.0	194.2
67.5°	175.0	174.3	174.3	177.1	176.4	177.8	176.4	174.3	170.7	167.8	167.1
70°	156.4	155.7	155.7	157.1	157.8	157.8	157.1	155.7	150.7	147.8	145.7
72.5°	140.0	139.3	140.0	140.7	141.4	142.1	141.4	140.0	135.7	132.1	128.5
75°	125.0	124.3	126.4	126.4	127.1	127.1	127.8	127.1	123.5	119.3	115.0
77.5°	110.0	110.7	112.8	113.5	115.0	115.7	116.4	116.4	112.8	109.3	103.6
80°	97.8	99.3	100.7	101.4	102.8	105.0	105.7	106.4	103.6	100.0	93.6
82.5°	89.3	90.0	91.4	92.1	94.3	95.0	95.7	97.1	95.7	92.1	85.0
85°	82.1	82.8	84.3	84.3	85.7	87.1	87.8	88.6	87.8	84.3	77.1
87.5°	75.7	76.4	77.1	77.8	78.6	79.3	80.0	80.7	80.0	76.4	70.0
90°	70.0	70.0	70.7	70.7	71.4	72.1	73.6	73.6	72.8	70.0	63.6
92.5°	63.6	64.3	64.3	65.0	65.7	66.4	67.1	67.1	66.4	63.6	57.8
95°	59.3	59.3	60.0	60.0	60.7	60.7	61.4	61.4	60.7	57.8	52.1
97.5°	54.3	54.3	54.3	54.3	55.0	55.0	55.7	55.7	55.0	52.1	47.1
100°	50.0	50.0	50.0	50.0	50.0	50.7	50.7	50.7	50.0	47.1	42.1
102.5°	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	45.0	42.8	37.8
105°	44.3	44.3	44.3	43.6	43.6	43.6	42.8	42.8	40.7	38.6	34.3
107.5°	41.4	41.4	41.4	40.7	40.7	40.0	39.3	39.3	37.1	35.0	30.7
110°	39.3	39.3	39.3	38.6	37.8	37.1	36.4	35.7	33.6	30.7	27.1



TEST NUMBER: P1213408

CATALOG NUMBER: 4SNLED-LD5-37SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	37.1	37.1	36.4	36.4	35.7	35.0	33.6	32.9	30.7	27.9	24.3
115°	34.3	34.3	34.3	33.6	32.9	32.1	31.4	30.0	27.9	25.0	21.4
117.5°	31.4	31.4	31.4	30.7	30.0	29.3	28.6	27.1	25.0	22.1	19.3
120°	28.6	28.6	28.6	27.9	27.1	26.4	25.7	24.3	22.1	20.0	16.4
122.5°	26.4	26.4	25.7	25.0	24.3	23.6	22.9	21.4	20.0	17.1	14.3
125°	23.6	23.6	22.9	22.9	22.1	21.4	20.7	19.3	17.1	15.0	12.9
127.5°	21.4	20.7	20.7	20.7	20.0	19.3	17.9	17.1	15.0	12.9	10.7
130°	18.6	18.6	18.6	17.9	17.9	17.1	15.7	14.3	12.9	11.4	9.3
132.5°	16.4	16.4	16.4	16.4	15.7	15.0	13.6	12.9	11.4	9.3	7.9
135°	15.0	15.0	14.3	14.3	13.6	12.9	12.1	10.7	9.3	7.9	6.4
137.5°	12.9	12.9	12.9	12.1	12.1	11.4	10.0	9.3	8.6	7.1	5.7
140°	11.4	11.4	10.7	10.7	10.0	10.0	9.3	7.9	7.1	5.7	5.0
142.5°	10.0	10.0	9.3	9.3	8.6	8.6	7.9	7.1	5.7	5.0	3.6
145°	8.6	8.6	7.9	7.9	7.9	7.1	6.4	5.7	5.0	4.3	3.6
147.5°	7.1	7.1	7.1	6.4	6.4	5.7	5.7	5.0	4.3	3.6	2.9
150°	6.4	6.4	5.7	5.7	5.7	5.0	4.3	4.3	3.6	2.9	2.1
152.5°	5.0	5.0	5.0	5.0	4.3	4.3	3.6	3.6	2.9	2.1	2.1
155°	4.3	4.3	4.3	3.6	3.6	3.6	2.9	2.9	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: P1213408

CATALOG NUMBER: 4SNLED-LD5-37SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1374.7	1374.0	1380.4	1379.7	1371.2	1384.0	1392.6
5°	1371.2	1370.4	1376.2	1377.6	1368.3	1381.9	1391.2
7.5°	1368.3	1367.6	1374.0	1376.2	1366.9	1379.0	1389.0
10°	1369.0	1365.4	1371.2	1372.6	1364.0	1376.9	1385.4
12.5°	1374.0	1365.4	1367.6	1367.6	1359.7	1371.2	1380.4
15°	1386.2	1368.3	1365.4	1363.3	1353.3	1364.0	1373.3
17.5°	1399.7	1375.4	1365.4	1358.3	1346.2	1355.5	1365.4
20°	1413.3	1383.3	1366.9	1355.5	1339.0	1347.6	1354.7
22.5°	1419.7	1390.4	1368.3	1351.2	1330.5	1334.7	1342.6
25°	1411.2	1387.6	1365.4	1344.7	1319.7	1320.5	1326.9
27.5°	1379.7	1373.3	1359.0	1338.3	1311.2	1307.6	1312.6
30°	1326.2	1344.0	1344.7	1329.7	1301.2	1294.0	1296.2
32.5°	1251.2	1291.2	1314.7	1311.9	1286.9	1276.9	1278.3
35°	1164.8	1214.8	1266.2	1283.3	1265.5	1257.6	1254.8
37.5°	1061.2	1128.4	1196.9	1239.0	1236.2	1231.2	1228.3
40°	947.0	1027.7	1109.1	1176.2	1196.9	1196.9	1198.3
42.5°	824.8	919.1	1008.4	1093.4	1141.9	1152.6	1156.9
45°	707.0	802.0	899.1	996.9	1061.9	1095.5	1107.6
47.5°	599.9	695.6	787.7	894.8	981.2	1024.8	1044.1
50°	508.5	579.9	677.0	783.4	877.7	931.2	969.1
52.5°	432.8	488.5	573.5	672.7	767.7	841.3	876.3
55°	369.2	407.1	479.2	564.9	655.6	732.0	772.7
57.5°	315.7	345.6	394.9	466.3	542.8	618.5	662.0
60°	268.5	289.2	322.8	379.2	444.2	509.2	551.3
62.5°	227.8	241.4	263.5	304.9	355.6	406.3	445.6
65°	196.4	202.1	214.2	240.0	278.5	317.1	350.6
67.5°	165.7	169.3	178.5	194.2	213.5	241.4	263.5
70°	142.8	142.8	143.5	152.8	162.8	180.7	196.4
72.5°	124.3	122.1	117.8	120.0	122.1	132.1	142.1
75°	109.3	104.3	97.1	94.3	92.8	94.3	100.0
77.5°	96.4	89.3	80.7	73.6	67.8	65.7	70.7
80°	85.7	77.1	67.1	57.8	48.6	43.6	45.7
82.5°	77.1	66.4	55.7	45.0	34.3	27.1	27.1
85°	67.8	57.8	46.4	35.0	24.3	15.0	13.6
87.5°	61.4	50.7	38.6	27.9	17.1	7.9	4.3
90°	55.0	44.3	32.9	22.1	12.1	3.6	0.0
92.5°	49.3	39.3	28.6	17.9	8.6	2.1	0.0
95°	44.3	35.0	24.3	15.0	7.1	1.4	0.7
97.5°	39.3	30.7	21.4	12.1	5.0	1.4	0.7
100°	35.7	27.1	18.6	10.0	4.3	0.7	0.7
102.5°	31.4	24.3	15.7	8.6	3.6	0.7	0.7
105°	27.9	21.4	13.6	7.1	2.9	0.7	0.7
107.5°	25.0	18.6	12.1	6.4	2.9	0.7	0.7
110°	22.1	16.4	10.7	5.7	2.1	0.7	0.7

TEST NUMBER: P1213408

CATALOG NUMBER: 4SNLED-LD5-37SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	20.0	14.3	9.3	5.0	1.4	0.7	0.7
115°	17.1	12.9	7.9	4.3	1.4	0.7	0.7
117.5°	15.0	10.7	7.1	3.6	1.4	0.7	0.7
120°	12.9	9.3	5.7	2.9	0.7	0.7	0.7
122.5°	11.4	7.9	5.0	2.9	0.7	0.7	0.7
125°	10.0	7.1	4.3	2.1	0.7	0.7	0.7
127.5°	8.6	5.7	3.6	1.4	0.7	0.7	0.7
130°	7.1	5.0	2.9	1.4	0.7	0.7	0.7
132.5°	5.7	4.3	2.9	1.4	0.7	0.7	0.7
135°	5.0	3.6	2.1	1.4	0.7	0.7	0.7
137.5°	4.3	2.9	1.4	1.4	1.4	0.7	0.7
140°	3.6	2.1	1.4	1.4	1.4	1.4	0.7
142.5°	2.9	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)