

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: P1213418

Luminaire Tested: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33519)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

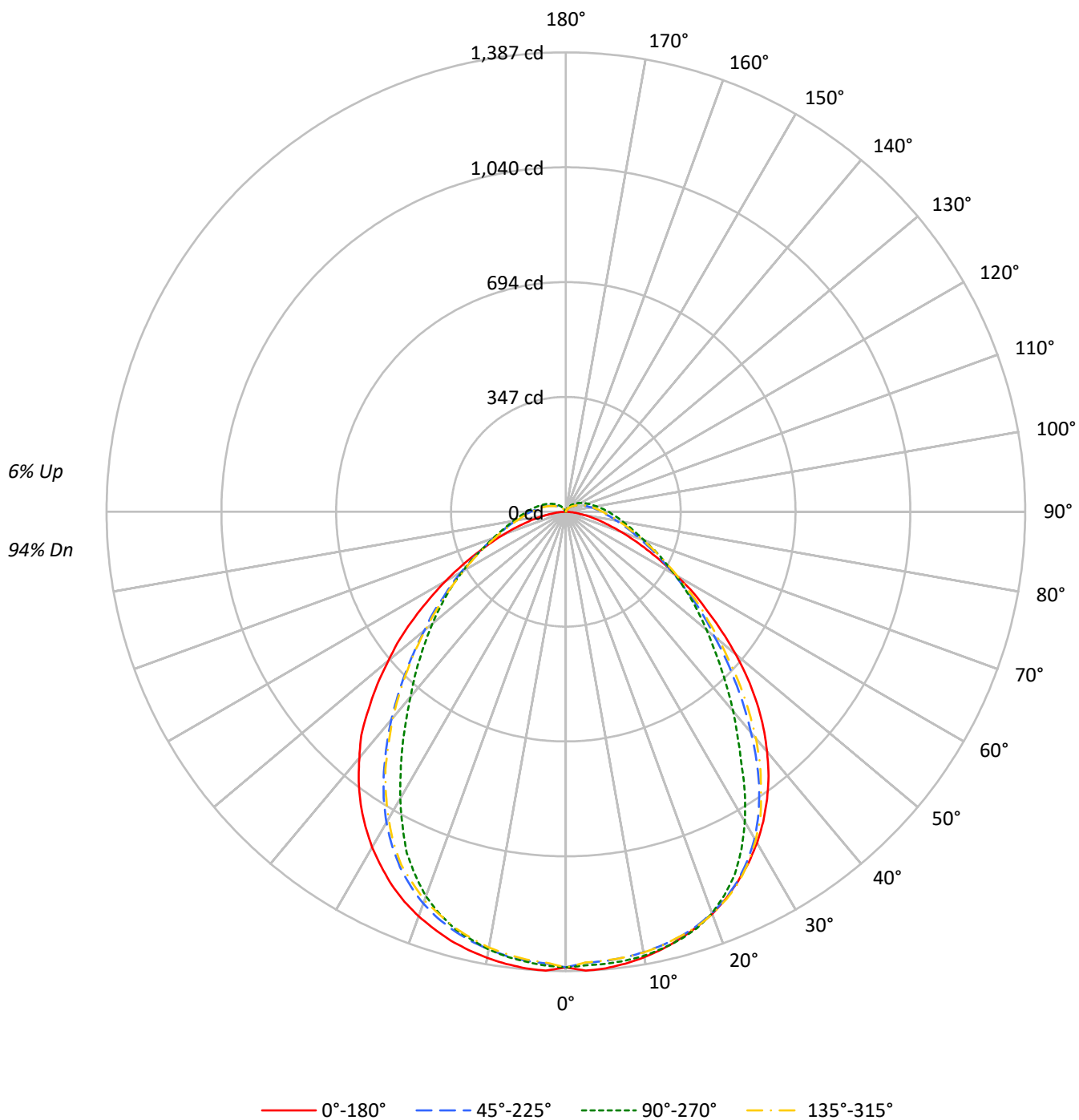
Lumens per Lamp: N/A
Luminaire Lumens: 3481.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1213418

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213418

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U

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	114	114	114	114	108	108	108	102	102	102	96	96	96
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11115	11115	11115	11115
5°	11195	10761	11195	10714
10°	11145	10475	11163	10330
15°	11073	10162	11123	9898
20°	10988	9760	11052	9348
25°	10811	9163	10931	8623
30°	10583	8286	10721	7671
35°	10225	7210	10423	6714
40°	9714	6306	9971	5851
45°	9038	5482	9332	5167
50°	8116	4817	8473	4574
55°	7020	4254	7531	4038
60°	5904	3735	6438	3520
65°	4840	3302	5328	3062
70°	3851	2930	4313	2710
75°	3025	2706	3406	2489
80°	2182	2610	2573	2386
85°	1346	2625	1810	2413

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 9332 cd/sqm

TEST NUMBER: P1213418

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	3.7
10°-20°	373.9	10.7
20°-30°	554.2	15.9
30°-40°	615.7	17.7
40°-50°	558.1	16.0
50°-60°	432.5	12.4
60°-70°	293.7	8.4
70°-80°	186.8	5.4
80°-90°	119.4	3.4
90°-100°	80.5	2.3
100°-110°	55.2	1.6
110°-120°	36.8	1.1
120°-130°	22.9	0.7
130°-140°	12.7	0.4
140°-150°	5.9	0.2
150°-160°	2.2	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1058.5	30.4
0°-40°	1674.2	48.1
0°-60°	2664.7	76.6
0°-90°	3264.7	93.8
90°-120°	172.5	5.0
90°-150°	214.0	6.1
90°-180°	216.0	6.2
0°-180°	3481.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1376	1376	1376	1376	1376	
5°	1384	1370	1384	1364	1384	131
15°	1335	1337	1341	1302	1335	377
25°	1230	1208	1244	1136	1230	567
35°	1059	923	1080	860	1059	661
45°	816	660	842	622	816	626
55°	520	464	558	440	520	469
65°	270	312	297	289	270	271
75°	108	208	122	191	108	116
85°	20	150	26	138	20	24
90°	0	129	2	118	0	1
95°	1	110	0	103	1	1
105°	1	81	0	76	1	1
115°	1	61	0	57	1	1
125°	1	45	1	40	1	1
135°	1	32	1	26	1	1
145°	1	20	1	14	1	1
155°	1	11	1	5	1	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1213418

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5
2.5°	1386.8	1385.3	1383.8	1381.5	1383.8	1389.9	1386.1	1377.8	1376.2	1362.6	1368.7
5°	1383.8	1381.5	1380.0	1377.8	1380.8	1388.4	1384.6	1377.0	1374.7	1361.9	1368.7
7.5°	1376.2	1374.7	1372.5	1372.5	1375.5	1383.1	1380.0	1371.7	1370.2	1357.3	1364.9
10°	1365.7	1364.9	1363.4	1363.4	1366.4	1375.5	1371.7	1364.1	1362.6	1350.5	1358.8
12.5°	1352.0	1352.8	1350.5	1350.5	1355.1	1364.1	1361.1	1352.8	1351.3	1340.7	1349.0
15°	1334.6	1335.4	1333.9	1334.6	1339.2	1349.8	1346.0	1338.4	1336.9	1328.6	1335.4
17.5°	1315.0	1315.7	1315.7	1315.0	1320.3	1330.8	1327.8	1321.0	1318.7	1311.9	1320.3
20°	1292.3	1292.3	1292.3	1292.3	1298.3	1308.9	1305.1	1299.8	1295.3	1290.0	1296.8
22.5°	1264.3	1263.5	1264.3	1266.5	1272.6	1280.9	1278.6	1272.6	1265.8	1262.8	1268.1
25°	1230.2	1232.5	1233.2	1235.5	1243.1	1249.9	1247.6	1241.6	1231.0	1228.7	1230.2
27.5°	1194.7	1196.2	1198.4	1197.7	1208.3	1215.1	1210.6	1205.3	1190.1	1187.9	1186.3
30°	1154.6	1156.8	1158.3	1157.6	1165.9	1173.5	1168.9	1162.1	1141.7	1140.2	1128.1
32.5°	1109.2	1111.4	1113.0	1113.0	1125.1	1128.1	1119.8	1109.9	1088.0	1082.7	1072.1
35°	1059.2	1061.5	1062.3	1062.3	1074.4	1073.6	1063.0	1049.4	1025.2	1018.4	1000.2
37.5°	1005.5	1007.0	1007.8	1012.3	1017.6	1013.1	999.5	982.1	963.9	945.0	925.3
40°	945.0	947.3	948.8	951.8	957.1	951.8	932.1	910.9	891.3	870.1	850.4
42.5°	882.9	889.8	888.2	887.5	890.5	876.1	861.0	836.8	817.1	795.2	775.5
45°	815.6	814.9	818.6	820.1	819.4	807.3	786.1	764.2	744.5	721.8	705.1
47.5°	744.5	743.7	746.8	748.3	743.7	730.9	714.2	689.3	672.6	652.9	640.1
50°	669.6	669.6	674.1	669.6	667.3	654.5	640.8	615.9	603.0	585.6	578.0
52.5°	594.7	601.5	597.0	595.4	593.2	580.3	569.7	549.3	538.7	531.1	522.1
55°	520.5	528.1	525.1	522.8	522.1	511.5	501.6	486.5	479.7	474.4	469.1
57.5°	457.7	457.0	455.5	453.2	454.0	445.6	435.8	427.5	424.4	422.2	423.7
60°	385.1	391.2	388.9	389.6	390.4	388.9	380.6	375.3	376.0	376.8	379.1
62.5°	325.3	330.6	334.4	331.4	332.9	335.2	330.6	329.1	332.1	335.2	338.2
65°	270.1	275.4	279.2	278.4	283.0	287.5	286.7	288.3	295.1	298.9	302.6
67.5°	220.2	225.5	230.8	231.5	238.3	245.1	248.2	253.5	261.0	266.3	270.9
70°	177.0	181.6	187.6	191.4	200.5	209.6	214.9	225.5	230.0	237.6	240.6
72.5°	138.5	142.2	150.6	159.6	167.2	178.6	189.1	198.2	205.0	213.4	217.1
75°	108.2	109.7	118.8	129.4	140.0	152.8	164.2	174.0	183.1	191.4	197.5
77.5°	79.4	81.7	90.0	104.4	116.5	130.1	143.0	153.6	163.4	171.7	180.1
80°	55.2	59.8	68.9	83.2	96.8	112.0	124.1	136.2	146.8	155.1	163.4
82.5°	35.6	39.3	52.2	66.6	81.0	96.1	108.9	121.1	132.4	141.5	149.0
85°	19.7	25.0	37.8	53.0	67.3	82.5	96.1	108.2	119.5	127.9	135.4
87.5°	7.6	15.1	27.2	41.6	56.0	70.4	84.7	96.1	107.4	116.5	123.3
90°	0.0	9.1	20.4	34.8	49.2	63.6	77.2	89.3	99.9	108.2	115.8
92.5°	0.8	6.1	15.9	28.0	41.6	55.2	68.1	80.2	90.8	99.1	105.9
95°	0.8	4.5	12.9	24.2	36.3	49.2	61.3	72.6	82.5	90.8	97.6
97.5°	0.8	3.0	10.6	21.2	31.8	44.6	56.0	66.6	75.7	84.0	89.3
100°	0.8	3.0	9.1	18.2	28.8	40.1	50.7	61.3	69.6	76.4	82.5
102.5°	0.8	2.3	7.6	15.9	25.7	35.6	46.2	56.0	63.6	70.4	76.4
105°	0.8	2.3	6.8	13.6	22.7	32.5	41.6	50.7	59.0	65.1	70.4
107.5°	0.8	1.5	6.1	11.3	19.7	29.5	38.6	46.2	53.7	59.8	65.1
110°	0.8	1.5	5.3	10.6	17.4	26.5	34.8	42.4	49.2	55.2	59.8

TEST NUMBER: P1213418

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.8	1.5	4.5	9.8	15.9	23.5	31.8	38.6	45.4	50.7	55.2
115°	0.8	1.5	4.5	9.1	14.4	20.4	28.0	35.6	40.9	46.9	50.7
117.5°	0.8	1.5	3.8	7.6	13.6	18.9	25.7	31.8	37.8	43.1	46.9
120°	0.8	1.5	3.8	6.8	12.1	17.4	22.7	28.8	34.8	38.6	42.4
122.5°	0.8	1.5	3.0	6.8	10.6	15.9	20.4	25.7	31.0	35.6	39.3
125°	0.8	1.5	3.0	6.1	9.8	14.4	18.9	22.7	28.0	31.8	35.6
127.5°	0.8	1.5	3.0	5.3	9.1	12.9	17.4	21.2	25.0	28.8	31.8
130°	0.8	1.5	2.3	4.5	8.3	11.3	15.1	19.7	22.7	25.7	28.8
132.5°	0.8	1.5	2.3	4.5	6.8	9.8	13.6	17.4	20.4	23.5	25.7
135°	0.8	1.5	2.3	3.8	6.1	9.1	11.3	15.1	18.2	21.2	23.5
137.5°	0.8	1.5	2.3	3.8	5.3	7.6	9.8	12.9	15.9	18.2	21.2
140°	0.8	1.5	2.3	3.0	4.5	6.8	9.1	10.6	13.6	15.9	18.2
142.5°	0.8	1.5	2.3	3.0	4.5	6.1	7.6	9.1	11.3	13.6	15.9
145°	0.8	1.5	2.3	3.0	3.8	5.3	6.8	8.3	9.1	11.3	12.9
147.5°	0.8	1.5	2.3	3.0	3.0	4.5	6.1	6.8	8.3	9.1	10.6
150°	0.8	1.5	2.3	2.3	3.0	3.8	5.3	6.1	6.8	8.3	9.1
152.5°	0.8	1.5	2.3	2.3	3.0	3.8	4.5	5.3	6.1	6.8	7.6
155°	0.8	1.5	2.3	2.3	2.3	3.0	3.8	4.5	5.3	6.1	6.8
157.5°	1.5	1.5	1.5	2.3	2.3	3.0	3.0	3.8	4.5	4.5	5.3
160°	1.5	1.5	1.5	2.3	2.3	2.3	3.0	3.0	3.8	3.8	4.5
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: P1213418

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5
2.5°	1367.2	1369.4	1376.2	1376.2	1374.7	1373.2	1373.2	1370.9	1372.5	1375.5	1374.0
5°	1367.2	1369.4	1376.2	1376.2	1374.7	1373.2	1372.5	1370.2	1372.5	1375.5	1374.0
7.5°	1362.6	1365.7	1372.5	1372.5	1370.9	1370.2	1368.7	1367.2	1369.4	1372.5	1370.9
10°	1356.6	1359.6	1366.4	1366.4	1364.9	1364.9	1362.6	1361.1	1364.1	1366.4	1365.7
12.5°	1347.5	1351.3	1357.3	1356.6	1355.1	1355.8	1353.5	1350.5	1353.5	1355.8	1356.6
15°	1334.6	1339.2	1345.2	1343.7	1341.4	1343.0	1339.2	1336.9	1339.2	1343.7	1343.0
17.5°	1318.0	1321.0	1325.6	1325.6	1323.3	1321.8	1320.3	1318.0	1319.5	1322.5	1323.3
20°	1294.5	1298.3	1300.6	1298.3	1297.6	1295.3	1292.3	1290.0	1293.0	1297.6	1298.3
22.5°	1263.5	1264.3	1269.6	1264.3	1260.5	1259.7	1256.7	1252.2	1256.7	1260.5	1261.2
25°	1224.9	1228.7	1226.4	1217.4	1217.4	1211.3	1209.8	1207.5	1208.3	1215.1	1218.1
27.5°	1175.7	1177.3	1171.2	1163.6	1156.8	1153.0	1147.8	1148.5	1148.5	1157.6	1160.6
30°	1122.0	1113.7	1108.4	1096.3	1091.0	1081.9	1080.4	1080.4	1078.9	1083.4	1097.1
32.5°	1057.7	1046.4	1038.0	1026.7	1017.6	1008.5	1004.0	1006.3	1005.5	1016.9	1021.4
35°	987.4	980.5	963.1	948.8	943.5	929.9	929.9	923.0	927.6	940.4	945.7
37.5°	913.2	902.6	888.2	872.4	868.6	858.0	854.2	850.4	860.2	862.5	867.8
40°	837.6	827.7	814.1	799.0	799.0	786.1	786.1	786.1	786.9	791.4	801.2
42.5°	765.7	755.1	743.0	732.4	730.9	721.0	721.0	720.3	721.8	725.6	734.7
45°	696.1	687.7	674.9	669.6	670.3	659.8	662.0	659.8	662.8	666.6	669.6
47.5°	631.8	626.5	621.2	613.6	611.3	610.6	606.8	603.8	609.1	609.1	613.6
50°	572.0	569.0	565.9	561.4	562.1	559.1	554.6	554.6	558.4	559.1	562.1
52.5°	519.8	516.0	512.2	513.0	513.7	512.2	509.9	507.7	509.9	511.5	515.2
55°	467.6	464.5	468.3	466.8	468.3	466.8	465.3	463.8	467.6	465.3	469.1
57.5°	420.7	423.7	425.2	422.2	424.4	422.9	423.7	421.4	424.4	426.0	425.2
60°	377.5	382.1	379.8	380.6	383.6	382.1	379.1	381.3	384.3	385.1	384.3
62.5°	338.2	343.5	345.8	344.3	345.0	343.5	345.8	342.7	346.5	348.0	345.8
65°	302.6	308.7	310.2	310.2	310.2	308.7	311.0	311.7	313.2	313.2	311.7
67.5°	272.4	277.7	279.2	280.7	279.2	277.7	277.7	278.4	281.5	283.0	281.5
70°	245.1	250.4	251.2	251.2	251.9	253.5	250.4	251.9	254.2	255.0	254.2
72.5°	221.7	227.0	228.5	227.7	228.5	229.2	229.2	227.7	230.0	231.5	231.5
75°	202.8	205.8	207.3	207.3	208.1	208.8	208.8	208.1	209.6	210.3	211.1
77.5°	185.4	187.6	189.9	189.9	190.7	189.9	191.4	191.4	192.2	192.9	193.7
80°	168.0	171.0	172.5	173.3	174.8	175.5	175.5	175.5	176.3	177.0	177.0
82.5°	154.3	156.6	158.9	161.2	161.2	161.9	161.9	161.9	162.7	162.7	163.4
85°	140.7	143.8	146.0	147.5	148.3	149.0	149.0	149.8	149.8	149.8	150.6
87.5°	128.6	132.4	133.9	135.4	136.2	137.7	137.7	137.7	138.5	138.5	138.5
90°	120.3	124.1	125.6	127.1	127.9	128.6	128.6	129.4	129.4	130.1	130.1
92.5°	110.5	114.2	117.3	117.3	118.0	119.5	118.8	118.8	119.5	120.3	120.3
95°	102.9	105.9	108.2	108.9	109.7	109.7	109.7	110.5	109.7	110.5	110.5
97.5°	93.8	96.8	99.1	100.6	101.4	101.4	101.4	102.1	101.4	102.1	102.1
100°	86.3	89.3	91.5	92.3	93.8	93.8	93.8	93.8	93.8	93.8	94.6
102.5°	80.2	83.2	84.7	85.5	86.3	87.0	87.0	87.0	87.0	87.8	87.8
105°	74.1	77.2	78.7	79.4	80.2	81.0	81.0	81.0	81.7	81.7	81.0
107.5°	68.9	71.1	72.6	74.1	74.9	74.9	75.7	75.7	75.7	75.7	75.7
110°	63.6	65.8	68.1	69.6	69.6	70.4	70.4	71.1	71.1	70.4	71.1

TEST NUMBER: P1213418

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	58.3	61.3	62.8	64.3	65.1	65.8	65.8	65.8	65.8	65.8	65.8
115°	53.7	56.7	58.3	59.8	60.5	61.3	61.3	61.3	61.3	61.3	61.3
117.5°	49.9	53.0	54.5	55.2	56.0	56.7	57.5	57.5	57.5	57.5	56.7
120°	46.2	48.4	49.9	51.4	52.2	53.0	53.0	53.0	53.0	53.0	53.0
122.5°	42.4	44.6	46.2	47.7	48.4	49.2	49.2	49.2	49.2	49.2	49.2
125°	38.6	40.9	42.4	43.9	44.6	45.4	45.4	45.4	45.4	45.4	45.4
127.5°	34.8	37.1	39.3	40.1	40.9	41.6	41.6	41.6	42.4	41.6	41.6
130°	31.0	33.3	35.6	36.3	37.1	37.8	38.6	38.6	38.6	38.6	37.8
132.5°	28.0	30.3	31.8	32.5	34.0	34.0	34.8	34.8	34.8	34.8	34.0
135°	25.7	27.2	28.8	29.5	31.0	31.0	31.0	31.8	31.8	31.0	30.3
137.5°	22.7	24.2	25.7	26.5	27.2	28.0	28.0	28.8	28.0	28.0	28.0
140°	21.2	21.9	23.5	24.2	25.0	25.0	25.0	25.7	25.7	25.0	25.0
142.5°	18.2	19.7	21.2	21.9	22.7	22.7	22.7	22.7	22.7	22.7	22.7
145°	15.1	17.4	18.2	19.7	19.7	20.4	20.4	20.4	20.4	20.4	19.7
147.5°	12.9	14.4	16.6	17.4	17.4	18.2	18.2	18.2	18.2	18.2	17.4
150°	9.8	11.3	13.6	15.1	15.1	15.9	15.9	15.9	15.9	15.1	15.1
152.5°	8.3	9.8	10.6	12.1	12.9	12.9	12.9	13.6	12.9	12.9	12.9
155°	7.6	8.3	9.1	9.8	10.6	11.3	11.3	11.3	11.3	10.6	10.6
157.5°	6.1	6.8	7.6	8.3	9.1	9.8	9.8	9.8	9.8	9.8	9.1
160°	4.5	5.3	6.1	6.1	6.8	7.6	8.3	7.6	7.6	7.6	7.6
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: P1213418

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5
2.5°	1372.5	1371.7	1374.0	1370.2	1358.8	1361.9	1360.4	1367.2	1368.7	1370.2	1377.0
5°	1372.5	1371.7	1373.2	1370.2	1358.1	1360.4	1358.8	1365.7	1367.2	1367.9	1374.7
7.5°	1369.4	1368.7	1370.9	1367.2	1354.3	1357.3	1355.1	1361.9	1362.6	1363.4	1369.4
10°	1363.4	1362.6	1364.1	1361.1	1348.3	1351.3	1348.3	1355.1	1355.1	1356.6	1361.1
12.5°	1354.3	1352.8	1355.8	1352.0	1337.7	1341.4	1339.9	1344.5	1345.2	1346.0	1350.5
15°	1341.4	1339.9	1342.2	1339.9	1327.1	1327.8	1325.6	1332.4	1333.1	1331.6	1336.1
17.5°	1322.5	1321.0	1325.6	1324.0	1311.2	1314.2	1313.4	1315.0	1317.2	1313.4	1319.5
20°	1299.1	1300.6	1302.1	1302.9	1293.0	1293.0	1292.3	1295.3	1297.6	1294.5	1299.1
22.5°	1264.3	1268.1	1272.6	1274.1	1267.3	1266.5	1271.1	1269.6	1271.8	1270.3	1273.3
25°	1220.4	1228.0	1232.5	1237.0	1233.2	1234.8	1241.6	1243.1	1243.1	1242.3	1245.4
27.5°	1165.9	1175.7	1184.1	1193.9	1190.1	1193.1	1204.5	1206.0	1209.0	1206.0	1212.1
30°	1100.8	1109.9	1125.8	1140.2	1141.7	1146.2	1162.1	1163.6	1172.0	1168.9	1171.2
32.5°	1035.8	1040.3	1058.5	1072.9	1081.9	1093.3	1110.7	1113.7	1125.1	1127.3	1127.3
35°	954.1	966.9	983.6	1004.0	1015.3	1027.5	1050.9	1055.4	1072.1	1077.4	1083.4
37.5°	885.2	897.3	907.9	929.1	949.5	963.1	982.1	993.4	1010.8	1020.6	1028.2
40°	811.8	821.7	833.0	854.2	871.6	892.0	910.9	924.6	946.5	957.8	967.7
42.5°	742.2	749.8	761.9	777.0	795.2	817.9	836.0	851.9	875.4	891.3	902.6
45°	680.2	684.7	695.3	706.7	722.5	746.0	763.4	783.8	802.7	819.4	833.0
47.5°	621.9	628.0	633.3	640.8	655.2	669.6	690.0	709.7	728.6	746.8	760.4
50°	568.2	568.2	576.5	581.8	591.7	604.5	620.4	634.0	657.5	670.3	687.7
52.5°	516.0	519.0	523.6	526.6	534.2	542.5	555.3	566.7	586.4	598.5	615.1
55°	469.8	472.9	475.1	476.7	481.2	491.0	495.6	504.6	518.3	528.1	542.5
57.5°	426.0	427.5	429.7	430.5	431.3	437.3	441.1	443.4	457.0	466.8	478.9
60°	385.9	385.9	388.1	387.4	386.6	389.6	388.9	391.2	399.5	405.5	410.8
62.5°	348.0	348.0	348.8	347.3	346.5	346.5	343.5	345.8	348.0	348.8	352.6
65°	313.2	317.0	314.0	314.7	310.2	308.7	307.2	302.6	301.9	298.9	300.4
67.5°	282.2	285.2	282.2	282.2	278.4	275.4	271.6	264.1	261.8	255.7	254.2
70°	257.2	255.0	256.5	254.2	249.7	245.9	240.6	234.5	227.0	219.4	214.1
72.5°	233.0	233.0	231.5	229.2	227.0	219.4	213.4	206.6	197.5	187.6	180.1
75°	209.6	210.3	210.3	208.1	204.3	197.5	190.7	180.8	171.0	159.6	149.8
77.5°	192.9	192.9	192.9	189.1	185.4	179.3	171.0	160.4	149.8	136.2	124.8
80°	177.0	176.3	176.3	171.7	168.0	161.2	152.8	142.2	130.9	116.5	103.7
82.5°	164.2	163.4	161.9	158.1	152.8	146.0	137.7	126.4	114.2	101.4	85.5
85°	150.6	149.8	148.3	144.5	139.2	133.2	124.1	112.7	100.6	86.3	71.1
87.5°	138.5	137.7	135.4	133.2	127.1	120.3	111.2	100.6	87.8	74.1	59.0
90°	130.1	128.6	127.1	124.1	118.8	111.2	102.1	90.8	77.9	64.3	49.2
92.5°	120.3	119.5	117.3	114.2	109.7	102.1	93.1	82.5	69.6	56.7	42.4
95°	110.5	109.7	108.2	105.2	100.6	93.8	85.5	74.9	62.8	49.9	37.1
97.5°	101.4	101.4	99.1	96.8	91.5	86.3	77.9	68.1	56.7	45.4	33.3
100°	93.8	93.8	91.5	88.5	84.7	79.4	71.1	62.0	51.4	40.9	28.8
102.5°	87.0	86.3	84.7	81.7	77.9	72.6	65.1	56.7	46.9	36.3	25.7
105°	81.0	80.2	78.7	75.7	72.6	66.6	60.5	52.2	42.4	32.5	22.7
107.5°	74.9	74.1	73.4	70.4	66.6	61.3	55.2	46.9	38.6	29.5	20.4
110°	69.6	68.9	67.3	64.3	60.5	56.0	49.9	43.1	34.8	26.5	18.2

TEST NUMBER: P1213418

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	65.1	64.3	62.8	59.8	56.7	51.4	46.2	38.6	31.8	24.2	15.9
115°	60.5	59.8	58.3	55.2	51.4	46.9	41.6	35.6	28.0	21.2	14.4
117.5°	56.0	55.2	53.7	51.4	47.7	43.1	37.8	31.8	25.0	19.7	12.9
120°	52.2	50.7	49.2	46.9	43.1	39.3	34.0	28.8	22.7	17.4	11.3
122.5°	48.4	46.9	45.4	43.1	39.3	35.6	30.3	25.7	21.2	15.9	10.6
125°	43.9	43.1	41.6	39.3	35.6	31.8	28.0	23.5	18.9	14.4	9.1
127.5°	40.1	39.3	37.8	34.8	31.8	28.8	25.0	21.2	16.6	12.1	8.3
130°	37.1	35.6	34.0	31.8	29.5	26.5	22.7	18.9	15.1	10.6	7.6
132.5°	33.3	31.8	30.3	28.8	26.5	23.5	20.4	16.6	13.6	9.8	6.8
135°	30.3	28.8	27.2	25.7	23.5	21.2	18.2	15.1	12.1	9.1	6.1
137.5°	26.5	25.7	25.0	23.5	21.2	18.9	16.6	12.9	10.6	8.3	5.3
140°	24.2	23.5	22.7	20.4	18.9	16.6	14.4	11.3	9.1	6.8	4.5
142.5°	21.9	21.2	19.7	18.2	16.6	15.1	12.1	10.6	8.3	6.1	4.5
145°	18.9	18.2	17.4	15.9	14.4	12.1	10.6	9.1	7.6	5.3	3.8
147.5°	17.4	16.6	15.1	13.6	12.1	10.6	9.8	8.3	6.1	4.5	3.0
150°	14.4	13.6	12.9	11.3	10.6	9.8	8.3	6.8	5.3	3.8	3.0
152.5°	12.1	11.3	10.6	10.6	9.1	8.3	6.8	6.1	4.5	3.8	2.3
155°	10.6	10.6	9.8	9.1	7.6	6.8	6.1	4.5	3.8	3.0	2.3
157.5°	9.1	8.3	7.6	7.6	6.8	6.1	4.5	3.8	3.0	3.0	2.3
160°	7.6	6.8	6.8	6.1	5.3	4.5	3.8	3.8	3.0	2.3	2.3
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: P1213418

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5
2.5°	1377.8	1369.4	1377.0	1386.8	1386.8	1385.3	1383.8	1386.8	1394.4	1391.4	1382.3
5°	1375.5	1367.2	1374.0	1383.8	1383.8	1381.5	1380.0	1382.3	1390.6	1386.8	1378.5
7.5°	1370.9	1363.4	1367.9	1377.0	1377.0	1374.7	1373.2	1376.2	1383.1	1379.3	1370.2
10°	1362.6	1354.3	1359.6	1367.9	1367.2	1365.7	1363.4	1367.2	1373.2	1367.9	1357.3
12.5°	1352.0	1343.7	1348.3	1355.8	1355.1	1352.0	1350.5	1352.8	1358.1	1355.1	1343.7
15°	1337.7	1329.3	1333.1	1340.7	1338.4	1336.1	1333.1	1333.9	1340.7	1335.4	1323.3
17.5°	1320.3	1311.2	1314.2	1321.0	1318.7	1316.5	1312.7	1313.4	1321.0	1313.4	1300.6
20°	1299.1	1289.2	1291.5	1299.8	1296.0	1292.3	1288.5	1288.5	1296.0	1287.7	1273.3
22.5°	1276.4	1266.5	1268.1	1274.1	1271.1	1264.3	1260.5	1262.8	1266.5	1255.9	1240.8
25°	1248.4	1235.5	1237.8	1243.8	1241.6	1232.5	1228.7	1230.2	1228.7	1220.4	1204.5
27.5°	1215.8	1202.2	1203.7	1207.5	1204.5	1196.2	1191.6	1192.4	1189.4	1178.8	1160.6
30°	1175.0	1168.2	1167.4	1169.7	1165.2	1156.8	1151.5	1150.0	1149.3	1134.1	1112.2
32.5°	1133.4	1127.3	1123.5	1126.6	1121.3	1113.0	1103.9	1103.9	1096.3	1081.9	1063.0
35°	1091.0	1081.2	1077.4	1079.7	1073.6	1063.0	1055.4	1051.7	1040.3	1022.2	1001.7
37.5°	1036.5	1029.7	1025.2	1027.5	1020.6	1013.1	998.7	994.9	982.8	957.8	932.1
40°	977.5	972.2	967.7	970.0	962.4	951.0	938.2	932.1	918.5	890.5	870.1
42.5°	914.0	911.7	906.4	914.7	899.6	888.2	875.4	865.5	851.9	821.7	798.2
45°	846.6	851.9	839.8	842.1	832.3	822.4	808.8	794.4	780.8	752.1	725.6
47.5°	775.5	779.3	771.0	772.5	761.9	752.8	740.7	722.5	707.4	682.4	659.0
50°	702.1	700.6	700.6	699.1	690.8	679.4	667.3	650.7	635.5	612.8	593.2
52.5°	624.2	627.2	628.7	632.5	621.9	615.1	596.2	581.8	570.5	547.0	530.4
55°	549.3	559.9	556.9	558.4	546.3	541.0	525.8	514.5	497.8	484.2	473.6
57.5°	481.2	483.5	485.0	487.2	482.0	471.4	459.3	450.2	437.3	426.0	418.4
60°	415.4	415.4	416.1	419.9	414.6	405.5	396.5	389.6	380.6	373.8	369.2
62.5°	353.3	358.6	359.4	356.4	349.5	345.0	339.0	335.2	329.1	326.8	325.3
65°	295.8	295.8	295.8	297.3	293.6	290.5	286.7	286.0	288.3	285.2	286.7
67.5°	247.4	245.1	243.6	244.4	242.9	241.4	240.6	242.9	247.4	247.4	251.2
70°	205.8	201.3	198.2	198.2	198.2	199.0	201.3	205.8	213.4	216.4	221.7
72.5°	171.7	161.9	157.4	157.4	158.1	161.2	168.0	176.3	183.1	189.1	196.0
75°	139.2	129.4	122.6	121.8	123.3	127.9	137.7	145.3	156.6	164.9	173.3
77.5°	112.7	100.6	92.3	91.5	93.8	100.6	112.7	122.6	135.4	144.5	153.6
80°	90.0	76.4	69.6	65.1	68.9	77.2	90.8	102.9	115.0	127.1	138.5
82.5°	71.9	59.0	48.4	43.9	48.4	59.8	72.6	87.0	99.1	112.0	123.3
85°	56.7	43.1	31.0	26.5	31.8	43.9	58.3	72.6	86.3	99.1	110.5
87.5°	44.6	31.0	18.9	12.9	19.7	32.5	46.2	60.5	74.9	87.8	99.1
90°	34.8	21.9	10.6	1.5	11.3	23.5	37.1	50.7	65.1	77.9	89.3
92.5°	29.5	16.6	6.1	0.0	6.8	17.4	30.3	43.9	56.7	69.6	81.0
95°	25.0	13.6	4.5	0.0	4.5	13.6	25.0	37.1	49.9	62.8	74.1
97.5°	21.2	10.6	3.0	0.0	3.0	10.6	20.4	32.5	43.9	56.0	66.6
100°	18.2	9.1	2.3	0.0	2.3	8.3	17.4	28.0	39.3	50.7	60.5
102.5°	15.9	7.6	1.5	0.0	1.5	6.8	14.4	24.2	34.0	44.6	54.5
105°	13.6	6.1	1.5	0.0	0.8	5.3	12.1	21.2	30.3	40.1	49.2
107.5°	12.1	5.3	1.5	0.0	0.8	4.5	10.6	18.2	27.2	35.6	43.9
110°	10.6	4.5	1.5	0.0	0.8	3.0	9.1	15.9	23.5	31.8	40.1

TEST NUMBER: P1213418

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	9.1	3.8	0.8	0.0	0.0	2.3	7.6	13.6	20.4	28.8	35.6
115°	8.3	3.8	0.8	0.0	0.0	1.5	6.1	12.1	18.2	25.7	31.8
117.5°	7.6	3.0	0.8	0.0	0.8	1.5	5.3	10.6	15.9	21.9	28.8
120°	6.8	3.0	0.8	0.0	0.8	0.8	3.8	9.1	13.6	19.7	25.0
122.5°	6.1	3.0	0.8	0.0	0.8	0.8	3.0	7.6	12.1	17.4	21.9
125°	5.3	2.3	1.5	0.8	0.8	0.8	2.3	6.1	10.6	14.4	19.7
127.5°	5.3	2.3	1.5	0.8	0.8	0.8	1.5	5.3	8.3	12.9	17.4
130°	4.5	2.3	1.5	0.8	0.8	0.8	0.8	3.8	7.6	10.6	14.4
132.5°	3.8	2.3	1.5	0.8	0.8	0.8	0.8	2.3	5.3	9.1	12.1
135°	3.8	2.3	1.5	0.8	0.8	0.8	0.8	1.5	3.8	6.8	9.8
137.5°	3.0	1.5	1.5	0.8	0.8	0.8	0.8	0.8	3.0	5.3	7.6
140°	3.0	1.5	1.5	0.8	0.8	0.8	0.8	0.8	2.3	3.8	6.1
142.5°	2.3	1.5	1.5	0.8	0.8	0.8	0.8	0.8	1.5	3.0	4.5
145°	2.3	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	1.5	3.0
147.5°	2.3	2.3	1.5	0.8	0.8	0.8	0.8	0.8	0.8	1.5	2.3
150°	2.3	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
152.5°	2.3	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
155°	2.3	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5
157.5°	2.3	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
160°	2.3	1.5	1.5	0.8	1.5	0.8	1.5	1.5	1.5	1.5	1.5
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: P1213418

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5
2.5°	1379.3	1364.9	1372.5	1370.2	1373.2	1379.3	1378.5	1377.0	1377.0	1374.7	1371.7
5°	1374.7	1361.1	1367.9	1364.1	1367.9	1373.2	1372.5	1370.2	1371.7	1367.9	1364.1
7.5°	1365.7	1353.5	1359.6	1356.6	1359.6	1364.9	1362.6	1361.9	1363.4	1357.3	1355.1
10°	1355.1	1341.4	1348.3	1344.5	1348.3	1352.0	1350.5	1347.5	1350.5	1344.5	1342.2
12.5°	1338.4	1327.1	1331.6	1330.1	1332.4	1336.1	1333.1	1330.8	1332.4	1327.1	1322.5
15°	1320.3	1308.9	1312.7	1310.4	1311.9	1316.5	1311.2	1310.4	1308.9	1303.6	1302.1
17.5°	1296.8	1286.2	1290.0	1286.2	1288.5	1287.0	1286.2	1282.4	1282.4	1276.4	1271.8
20°	1268.1	1259.0	1256.7	1253.7	1256.7	1253.7	1249.1	1246.1	1245.4	1239.3	1235.5
22.5°	1234.8	1224.2	1225.7	1217.4	1218.1	1213.6	1206.0	1203.0	1200.0	1193.1	1187.9
25°	1194.7	1184.1	1176.5	1171.2	1164.4	1163.6	1153.8	1146.2	1145.5	1137.2	1136.4
27.5°	1149.3	1137.2	1131.1	1118.2	1109.9	1103.1	1094.8	1087.2	1083.4	1074.4	1068.3
30°	1097.1	1083.4	1068.3	1059.2	1046.4	1041.1	1026.7	1017.6	1014.6	1004.8	1000.2
32.5°	1038.0	1023.7	1011.6	994.2	979.8	972.2	957.8	948.8	945.0	934.4	928.3
35°	973.7	957.8	943.5	926.8	915.5	902.6	885.2	876.1	867.8	864.0	859.5
37.5°	906.4	889.0	872.4	855.7	845.9	830.7	815.6	809.6	799.7	795.9	791.4
40°	836.8	819.4	803.5	787.6	776.3	762.6	749.0	746.8	736.2	732.4	729.4
42.5°	767.9	749.8	731.6	720.3	712.0	698.3	689.3	687.0	677.9	675.6	675.6
45°	705.9	683.2	668.1	658.2	651.4	640.1	632.5	631.0	623.4	621.9	621.9
47.5°	639.3	618.1	606.8	600.7	594.7	586.4	581.8	581.8	574.3	572.7	572.0
50°	577.3	557.6	549.3	543.2	542.5	536.4	532.6	531.1	531.1	525.8	526.6
52.5°	518.3	508.4	501.6	497.8	493.3	489.5	486.5	486.5	484.2	480.4	482.0
55°	463.8	452.4	453.2	450.2	447.9	445.6	446.4	441.9	441.1	438.1	440.3
57.5°	409.3	409.3	407.8	405.5	401.8	403.3	403.3	403.3	399.5	397.2	399.5
60°	363.2	365.4	361.7	363.9	362.4	363.2	361.7	361.7	359.4	358.6	359.4
62.5°	322.3	326.1	324.6	327.6	326.1	326.8	328.4	325.3	323.8	322.3	323.8
65°	286.0	290.5	289.8	292.0	292.8	293.6	294.3	292.8	291.3	289.8	289.0
67.5°	254.2	258.8	261.8	262.5	263.3	265.6	264.8	263.3	261.8	259.5	258.8
70°	225.5	231.5	235.3	236.8	239.8	238.3	238.3	237.6	236.1	233.8	233.0
72.5°	201.3	208.1	211.8	213.4	216.4	216.4	215.6	214.9	213.4	211.1	210.3
75°	180.1	186.1	191.4	194.4	196.7	196.7	196.0	195.2	193.7	192.2	191.4
77.5°	163.4	168.7	173.3	177.0	178.6	179.3	178.6	177.0	177.0	176.3	175.5
80°	146.8	152.8	157.4	161.2	163.4	163.4	162.7	163.4	161.9	161.2	160.4
82.5°	132.4	139.2	144.5	148.3	149.8	150.6	149.8	150.6	149.0	149.0	149.0
85°	119.5	126.4	132.4	135.4	137.7	138.5	138.5	138.5	137.7	137.7	137.7
87.5°	108.9	115.8	121.8	124.8	127.1	127.9	127.9	128.6	127.1	127.1	127.1
90°	99.1	105.9	112.0	115.0	117.3	118.8	118.8	119.5	118.8	118.0	118.0
92.5°	90.0	97.6	103.7	106.7	108.9	111.2	111.2	112.0	110.5	110.5	110.5
95°	82.5	90.0	95.3	99.1	101.4	102.9	103.7	103.7	102.9	102.9	102.9
97.5°	75.7	82.5	87.8	91.5	93.8	94.6	95.3	96.1	95.3	95.3	95.3
100°	68.9	75.7	81.0	84.0	87.0	87.8	88.5	89.3	89.3	88.5	88.5
102.5°	62.8	69.6	74.1	77.9	80.2	81.7	82.5	82.5	82.5	82.5	82.5
105°	56.7	63.6	68.1	71.9	74.1	75.7	76.4	77.2	77.2	76.4	76.4
107.5°	51.4	57.5	62.8	65.8	68.9	70.4	71.1	71.1	71.9	71.1	71.1
110°	46.2	53.0	57.5	60.5	63.6	65.1	65.8	66.6	66.6	66.6	66.6

TEST NUMBER: P1213418

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	42.4	47.7	52.2	55.2	58.3	59.8	60.5	61.3	62.0	61.3	61.3
115°	37.8	43.1	47.7	50.7	53.0	54.5	56.0	56.7	56.7	57.5	56.7
117.5°	34.0	38.6	43.1	46.2	48.4	50.7	51.4	52.2	53.0	52.2	52.2
120°	30.3	34.8	38.6	41.6	43.9	46.2	46.9	47.7	48.4	47.7	47.7
122.5°	27.2	31.0	34.8	37.8	40.1	41.6	43.1	43.1	43.9	43.9	43.9
125°	24.2	28.0	31.0	34.0	36.3	37.8	38.6	39.3	39.3	40.1	40.1
127.5°	21.2	24.2	28.0	30.3	32.5	34.0	34.8	35.6	35.6	36.3	36.3
130°	18.2	21.2	24.2	26.5	28.8	30.3	31.0	31.8	32.5	32.5	32.5
132.5°	15.9	18.9	21.2	23.5	25.0	26.5	28.0	28.8	28.8	28.8	28.8
135°	12.9	15.9	18.2	20.4	21.9	23.5	24.2	25.7	25.7	25.7	25.7
137.5°	10.6	13.6	15.9	17.4	18.9	20.4	21.2	21.9	22.7	22.7	22.7
140°	8.3	10.6	12.9	15.1	16.6	17.4	18.9	18.9	19.7	19.7	19.7
142.5°	6.1	8.3	9.8	12.1	13.6	15.1	15.9	16.6	16.6	16.6	16.6
145°	4.5	6.1	7.6	9.1	11.3	12.1	12.9	13.6	14.4	14.4	14.4
147.5°	3.0	4.5	5.3	6.8	8.3	9.8	10.6	11.3	12.1	12.1	12.1
150°	2.3	3.0	4.5	5.3	6.1	7.6	9.1	9.1	9.8	9.8	9.1
152.5°	1.5	2.3	3.0	3.8	4.5	5.3	6.8	6.8	7.6	7.6	7.6
155°	1.5	1.5	1.5	2.3	3.0	3.8	4.5	5.3	5.3	5.3	5.3
157.5°	1.5	1.5	1.5	1.5	1.5	2.3	3.0	3.8	3.8	3.8	3.8
160°	1.5	1.5	0.8	0.8	1.5	1.5	1.5	1.5	2.3	2.3	2.3
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: P1213418

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5
2.5°	1374.0	1375.5	1375.5	1374.0	1373.2	1376.2	1372.5	1358.1	1362.6	1364.1	1368.7
5°	1367.2	1368.7	1368.7	1368.7	1367.2	1370.2	1366.4	1352.0	1357.3	1359.6	1362.6
7.5°	1357.3	1358.1	1359.6	1358.8	1357.3	1361.9	1358.1	1343.7	1347.5	1351.3	1355.1
10°	1344.5	1344.5	1345.2	1346.7	1345.2	1349.0	1345.2	1332.4	1336.1	1338.4	1343.0
12.5°	1327.1	1328.6	1329.3	1328.6	1327.8	1330.8	1329.3	1317.2	1318.7	1323.3	1327.8
15°	1303.6	1303.6	1307.4	1305.9	1305.9	1308.9	1310.4	1296.8	1299.1	1305.9	1310.4
17.5°	1274.9	1275.6	1278.6	1280.2	1279.4	1284.7	1285.5	1274.9	1274.1	1282.4	1287.0
20°	1237.8	1239.3	1243.1	1246.1	1246.1	1252.2	1254.4	1247.6	1248.4	1257.5	1259.0
22.5°	1192.4	1192.4	1199.2	1203.7	1207.5	1211.3	1218.1	1212.1	1212.1	1224.2	1231.0
25°	1136.4	1141.7	1144.0	1153.0	1158.3	1168.9	1175.0	1175.7	1176.5	1187.9	1192.4
27.5°	1074.4	1075.9	1082.7	1093.3	1099.3	1109.2	1120.5	1122.8	1126.6	1141.7	1148.5
30°	1004.0	1008.5	1011.6	1026.7	1035.0	1047.9	1062.3	1067.6	1070.6	1091.0	1099.3
32.5°	932.1	933.6	946.5	954.8	964.7	978.3	994.9	1004.8	1010.8	1032.0	1044.1
35°	860.2	863.3	873.9	884.5	894.3	907.9	925.3	938.9	949.5	968.4	984.3
37.5°	794.4	802.0	804.3	814.9	822.4	836.0	848.1	867.8	878.4	898.1	918.5
40°	735.4	737.7	739.2	749.8	755.1	767.9	785.3	798.2	812.6	827.0	851.2
42.5°	677.2	678.7	680.9	687.0	693.0	702.1	715.0	727.8	743.0	764.2	780.0
45°	623.4	624.9	626.5	630.2	635.5	643.9	652.2	661.3	676.4	694.6	711.2
47.5°	573.5	576.5	576.5	577.3	581.1	587.9	593.9	605.3	613.6	623.4	642.3
50°	525.8	528.1	528.9	528.9	531.1	535.7	537.2	544.7	552.3	561.4	575.0
52.5°	481.2	481.2	480.4	483.5	483.5	486.5	487.2	491.8	497.1	506.9	513.0
55°	438.8	438.8	441.1	439.6	439.6	441.1	440.3	441.1	445.6	451.7	457.0
57.5°	398.0	397.2	399.5	398.0	397.2	398.7	400.2	397.2	398.0	404.0	404.0
60°	357.1	357.9	360.1	358.6	358.6	358.6	357.1	355.6	354.1	357.9	359.4
62.5°	324.6	322.3	324.6	322.3	323.8	323.1	321.6	318.5	319.3	317.8	316.3
65°	290.5	290.5	291.3	289.0	290.5	290.5	288.3	287.5	283.0	281.5	277.7
67.5°	261.0	261.0	261.8	260.3	260.3	261.0	258.8	256.5	251.9	249.7	244.4
70°	235.3	235.3	235.3	234.5	234.5	234.5	233.0	230.0	225.5	221.7	214.9
72.5°	211.8	212.6	211.8	211.8	214.1	211.8	209.6	206.6	202.8	195.2	189.1
75°	192.9	193.7	192.9	192.9	192.9	192.2	191.4	186.9	182.3	176.3	167.2
77.5°	176.3	176.3	177.0	176.3	176.3	175.5	173.3	169.5	164.2	158.9	148.3
80°	160.4	161.2	161.9	162.7	161.2	160.4	158.1	155.1	148.3	142.2	131.6
82.5°	149.0	148.3	149.0	149.8	148.3	147.5	145.3	141.5	136.2	127.9	117.3
85°	137.7	136.9	136.9	137.7	136.9	135.4	133.2	129.4	124.1	115.8	105.2
87.5°	126.4	127.1	127.9	127.1	126.4	124.8	122.6	118.8	112.7	105.9	94.6
90°	118.0	118.0	118.0	118.0	117.3	115.8	113.5	108.9	103.7	95.3	85.5
92.5°	110.5	110.5	110.5	110.5	109.7	107.4	105.2	101.4	95.3	87.0	77.9
95°	102.9	103.7	102.9	102.9	101.4	100.6	96.8	93.1	87.8	79.4	69.6
97.5°	94.6	95.3	94.6	94.6	93.8	92.3	90.0	85.5	80.2	72.6	63.6
100°	88.5	88.5	87.8	87.8	87.0	85.5	82.5	78.7	73.4	65.8	56.7
102.5°	81.7	82.5	81.7	81.7	80.2	78.7	76.4	72.6	67.3	59.8	51.4
105°	76.4	76.4	75.7	75.7	74.1	72.6	70.4	65.8	61.3	54.5	46.2
107.5°	71.1	71.1	70.4	70.4	68.9	67.3	64.3	60.5	56.0	49.2	41.6
110°	65.8	65.8	65.8	65.1	63.6	61.3	59.0	55.2	50.7	44.6	37.1



TEST NUMBER: P1213418

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	62.0	61.3	60.5	59.8	58.3	56.7	53.7	49.9	45.4	40.1	33.3
115°	56.7	56.7	56.0	55.2	53.7	51.4	49.2	46.2	41.6	35.6	29.5
117.5°	52.2	52.2	51.4	50.7	49.2	46.9	44.6	41.6	37.1	31.8	26.5
120°	47.7	47.7	46.9	46.2	44.6	42.4	40.9	37.1	33.3	28.0	23.5
122.5°	43.9	43.1	43.1	41.6	40.9	38.6	36.3	33.3	29.5	25.0	20.4
125°	39.3	39.3	38.6	37.8	37.1	34.8	32.5	29.5	25.7	21.9	18.2
127.5°	35.6	35.6	34.8	34.0	33.3	31.0	28.8	26.5	22.7	18.9	15.1
130°	31.8	31.8	31.0	30.3	29.5	27.2	25.7	22.7	19.7	16.6	12.9
132.5°	28.8	28.8	28.0	27.2	25.7	24.2	22.7	19.7	17.4	14.4	11.3
135°	25.7	25.0	25.0	24.2	22.7	21.2	19.7	17.4	14.4	12.1	9.1
137.5°	22.7	21.9	21.2	20.4	19.7	18.2	16.6	15.1	12.9	9.8	7.6
140°	19.7	18.9	18.9	18.2	16.6	15.9	14.4	12.1	10.6	8.3	6.1
142.5°	16.6	16.6	15.9	15.1	14.4	13.6	12.1	10.6	8.3	6.8	4.5
145°	14.4	13.6	13.6	12.9	12.1	10.6	9.8	8.3	6.8	5.3	3.8
147.5°	11.3	11.3	11.3	10.6	9.8	9.1	8.3	6.8	5.3	3.8	2.3
150°	9.1	9.1	9.1	8.3	7.6	6.8	6.1	5.3	3.8	2.3	1.5
152.5°	7.6	7.6	6.8	6.8	6.1	5.3	4.5	3.8	2.3	1.5	1.5
155°	5.3	5.3	5.3	4.5	4.5	3.8	3.0	2.3	1.5	1.5	1.5
157.5°	3.8	3.8	3.8	3.0	3.0	2.3	2.3	1.5	1.5	1.5	1.5
160°	2.3	2.3	2.3	2.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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: P1213418

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5
2.5°	1366.4	1365.7	1371.7	1371.7	1364.9	1375.5	1386.8
5°	1361.9	1361.1	1367.2	1367.2	1361.1	1371.7	1383.8
7.5°	1352.8	1353.5	1359.6	1361.1	1353.5	1363.4	1376.2
10°	1343.0	1342.2	1349.0	1350.5	1344.5	1353.5	1365.7
12.5°	1327.1	1327.1	1333.9	1336.1	1330.1	1340.7	1352.0
15°	1310.4	1310.4	1315.0	1318.7	1313.4	1323.3	1334.6
17.5°	1289.2	1288.5	1293.0	1297.6	1292.3	1302.9	1315.0
20°	1262.0	1262.0	1267.3	1272.6	1268.8	1278.6	1292.3
22.5°	1233.2	1230.2	1239.3	1243.1	1240.8	1250.7	1264.3
25°	1196.9	1196.2	1205.3	1210.6	1207.5	1218.1	1230.2
27.5°	1157.6	1156.8	1165.9	1172.7	1171.2	1181.0	1194.7
30°	1109.9	1113.7	1122.0	1133.4	1129.6	1140.2	1154.6
32.5°	1060.0	1063.8	1073.6	1085.7	1086.5	1094.8	1109.2
35°	1000.2	1010.1	1016.9	1032.8	1035.8	1044.1	1059.2
37.5°	937.4	948.8	963.1	975.3	981.3	988.1	1005.5
40°	867.1	883.7	899.6	914.0	921.5	928.3	945.0
42.5°	803.5	816.4	831.5	845.9	859.5	865.5	882.9
45°	731.6	746.8	760.4	777.8	791.4	798.2	815.6
47.5°	661.3	676.4	694.6	706.7	721.0	727.8	744.5
50°	593.9	607.5	622.7	637.1	649.2	655.2	669.6
52.5°	527.3	541.7	556.1	565.2	578.0	582.6	594.7
55°	468.3	478.2	491.0	496.3	509.2	512.2	520.5
57.5°	411.6	418.4	422.9	432.0	441.1	447.9	457.7
60°	360.1	363.2	366.2	371.5	379.1	381.3	385.1
62.5°	314.0	313.2	319.3	320.8	321.6	329.1	325.3
65°	273.1	273.9	268.6	266.3	269.3	271.6	270.1
67.5°	239.1	234.5	230.0	224.7	220.2	222.4	220.2
70°	205.8	202.0	194.4	186.9	183.9	179.3	177.0
72.5°	179.3	170.2	162.7	152.8	147.5	142.2	138.5
75°	158.9	146.0	135.4	124.8	117.3	109.7	108.2
77.5°	137.7	125.6	113.5	102.1	90.8	82.5	79.4
80°	121.1	109.7	95.3	81.7	69.6	59.0	55.2
82.5°	105.9	93.8	79.4	65.1	51.4	40.1	35.6
85°	93.1	80.2	65.8	51.4	37.8	25.7	19.7
87.5°	83.2	68.9	54.5	40.9	26.5	14.4	7.6
90°	74.1	60.5	46.9	32.5	18.9	7.6	0.0
92.5°	65.8	53.0	39.3	26.5	14.4	4.5	0.8
95°	58.3	46.9	33.3	21.2	10.6	3.0	0.8
97.5°	52.2	40.9	28.8	17.4	8.3	2.3	0.8
100°	46.9	35.6	25.0	14.4	6.8	1.5	0.8
102.5°	41.6	31.8	21.2	12.1	5.3	0.8	0.8
105°	37.1	28.0	18.2	10.6	4.5	0.8	0.8
107.5°	33.3	25.0	15.9	9.1	3.0	0.8	0.8
110°	29.5	21.2	13.6	7.6	2.3	0.8	0.8

TEST NUMBER: P1213418

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	26.5	18.9	12.1	6.1	1.5	0.8	0.8
115°	23.5	16.6	10.6	5.3	1.5	0.8	0.8
117.5°	20.4	14.4	9.1	3.8	0.8	0.8	0.8
120°	18.2	12.9	7.6	3.0	0.8	0.8	0.8
122.5°	15.9	10.6	6.1	2.3	0.8	0.8	0.8
125°	13.6	9.1	5.3	1.5	0.8	0.8	0.8
127.5°	11.3	7.6	3.8	1.5	0.8	0.8	0.8
130°	9.8	6.1	3.0	0.8	0.8	0.8	0.8
132.5°	8.3	4.5	2.3	0.8	0.8	0.8	0.8
135°	6.8	3.8	1.5	0.8	0.8	0.8	0.8
137.5°	5.3	3.0	1.5	0.8	0.8	0.8	0.8
140°	3.8	2.3	0.8	0.8	0.8	0.8	0.8
142.5°	3.0	1.5	0.8	0.8	0.8	0.8	0.8
145°	2.3	1.5	0.8	0.8	0.8	0.8	0.8
147.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8
150°	1.5	1.5	0.8	0.8	1.5	0.8	0.8
152.5°	1.5	0.8	0.8	0.8	1.5	0.8	0.8
155°	1.5	1.5	1.5	1.5	1.5	1.5	0.8
157.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5
160°	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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)