

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: P1213752

Luminaire Tested: 4SNLED-LD5-34SL-LC-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213752
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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

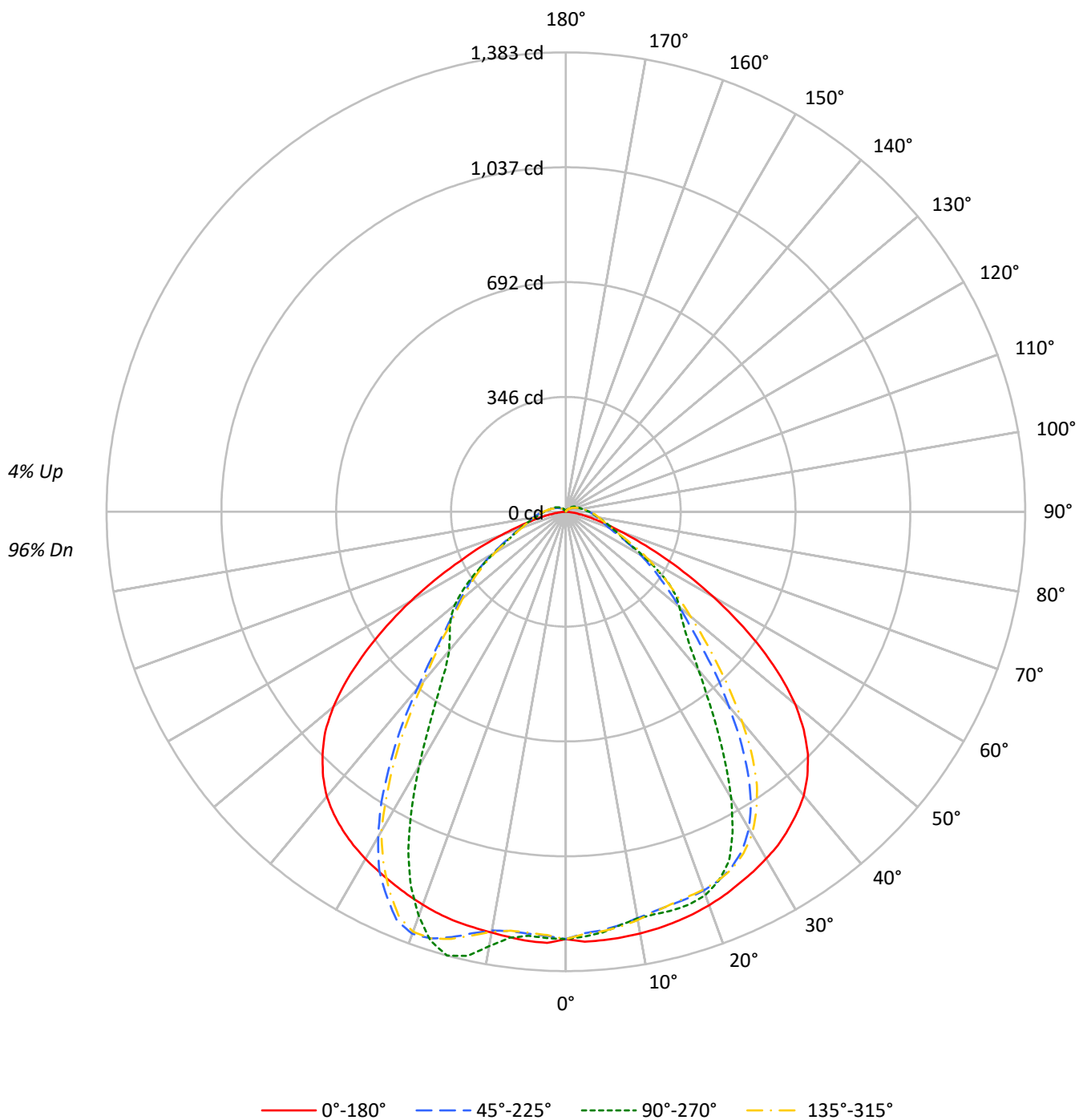
Lumens per Lamp: N/A
Luminaire Lumens: 3067.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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°	10396	10396	10396	10396
5°	10472	9984	10494	10062
10°	10521	9569	10499	10218
15°	10602	9441	10596	10512
20°	10719	9292	10708	9794
25°	10851	8814	10845	8517
30°	11055	7639	11061	6768
35°	11272	6178	11304	5228
40°	11463	4974	11510	4382
45°	11422	4213	11481	4102
50°	10930	3879	11083	3792
55°	9697	3486	9940	3170
60°	7865	2669	8284	2448
65°	5847	2041	6299	1935
70°	3975	1762	4482	1685
75°	2600	1590	3028	1503
80°	1680	1483	1969	1364
85°	861	1479	1134	1351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 11481 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	4.0
10°-20°	363.6	11.9
20°-30°	552.8	18.0
30°-40°	593.0	19.3
40°-50°	514.7	16.8
50°-60°	381.4	12.4
60°-70°	218.5	7.1
70°-80°	121.0	3.9
80°-90°	73.7	2.4
90°-100°	47.9	1.6
100°-110°	32.1	1.0
110°-120°	21.7	0.7
120°-130°	13.3	0.4
130°-140°	7.0	0.2
140°-150°	3.2	0.1
150°-160°	0.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1038.6	33.9
0°-40°	1631.6	53.2
0°-60°	2527.7	82.4
0°-90°	2940.9	95.9
90°-120°	101.7	3.3
90°-150°	125.2	4.1
90°-180°	126.0	4.1
0°-180°	3067.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1286	1286	1286	1286	1286	
5°	1294	1271	1297	1281	1294	123
15°	1278	1242	1277	1383	1278	362
25°	1235	1162	1234	1122	1235	571
35°	1168	791	1171	669	1168	731
45°	1031	507	1036	494	1031	789
55°	719	380	737	346	719	638
65°	326	193	352	183	326	329
75°	93	122	108	116	93	106
85°	13	84	17	77	13	17
90°	0	70	1	65	0	1
95°	1	58	0	55	1	0
105°	1	43	1	41	1	1
115°	1	35	1	32	1	1
125°	1	27	1	22	1	1
135°	1	17	1	14	1	1
145°	1	10	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°	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5
2.5°	1295.8	1292.5	1291.2	1288.5	1290.5	1298.5	1293.2	1284.5	1285.2	1269.9	1277.9
5°	1294.5	1290.5	1288.5	1285.9	1287.2	1294.5	1289.2	1280.5	1279.9	1264.6	1271.9
7.5°	1292.5	1288.5	1285.2	1283.2	1283.9	1289.9	1283.2	1273.2	1271.2	1254.6	1261.3
10°	1289.2	1286.5	1281.9	1278.6	1277.9	1284.5	1273.9	1263.9	1259.3	1242.0	1248.7
12.5°	1284.5	1280.5	1275.9	1269.9	1269.3	1273.2	1264.6	1250.6	1246.0	1232.0	1239.3
15°	1277.9	1273.2	1267.9	1261.3	1258.0	1260.6	1250.0	1237.4	1236.7	1224.7	1234.7
17.5°	1270.6	1263.9	1258.0	1248.7	1244.0	1246.0	1237.4	1226.1	1227.4	1220.1	1231.4
20°	1260.6	1253.3	1244.0	1234.7	1228.1	1231.4	1225.4	1216.8	1218.7	1213.4	1223.4
22.5°	1249.3	1239.3	1228.1	1217.4	1212.1	1216.8	1212.1	1204.8	1205.5	1202.1	1208.1
25°	1234.7	1223.4	1210.1	1196.8	1194.2	1197.5	1194.8	1188.8	1186.2	1180.9	1183.5
27.5°	1221.4	1208.8	1192.2	1178.2	1173.6	1180.2	1174.2	1164.3	1156.9	1149.6	1144.3
30°	1206.1	1190.8	1172.2	1156.3	1152.3	1155.0	1146.3	1131.0	1111.8	1102.5	1087.8
32.5°	1189.5	1169.6	1146.3	1128.4	1125.7	1123.7	1107.8	1085.8	1055.9	1037.3	1014.7
35°	1167.6	1145.6	1117.7	1095.8	1091.8	1080.5	1054.6	1025.4	986.8	954.9	916.4
37.5°	1143.0	1117.1	1087.8	1058.6	1047.3	1024.7	988.2	957.6	899.1	860.6	814.0
40°	1115.1	1083.8	1048.0	1012.7	994.1	957.6	915.7	870.5	814.0	762.2	723.0
42.5°	1076.5	1043.3	1000.8	961.6	929.7	881.2	832.0	768.2	716.4	672.5	632.6
45°	1030.7	990.8	941.6	894.5	853.9	796.1	738.3	674.5	631.3	580.1	552.9
47.5°	971.5	928.3	875.8	823.4	770.2	706.4	645.9	584.8	541.6	505.0	485.1
50°	901.8	861.9	804.1	741.6	683.1	616.7	556.2	510.4	468.5	445.9	430.6
52.5°	815.4	778.2	719.0	651.2	594.8	529.6	474.5	437.3	407.4	390.7	385.4
55°	719.0	686.5	628.0	564.8	507.0	447.2	405.4	372.8	353.5	343.6	344.2
57.5°	616.0	590.8	535.6	479.1	424.6	379.4	341.6	315.7	301.0	300.4	302.4
60°	513.0	494.4	446.6	398.1	350.2	313.7	285.7	267.8	258.5	259.2	258.5
62.5°	414.7	397.4	362.8	323.0	285.1	260.5	235.2	227.9	220.0	219.3	219.3
65°	326.3	313.0	285.1	256.5	227.9	212.0	199.4	190.7	184.7	183.4	184.1
67.5°	245.2	239.9	220.6	201.4	183.4	173.4	162.8	160.8	156.2	156.2	157.5
70°	182.7	178.8	168.1	156.8	149.5	142.9	137.6	137.6	136.9	136.2	139.6
72.5°	132.2	132.9	129.6	120.9	120.3	119.0	117.6	119.6	120.3	122.3	126.3
75°	93.0	95.0	95.0	93.7	96.4	99.7	101.7	105.0	109.0	111.6	116.3
77.5°	65.8	65.8	69.1	73.1	78.4	84.4	89.7	94.4	99.7	103.0	107.0
80°	42.5	44.5	49.8	57.1	64.5	72.4	79.7	85.7	91.0	96.4	99.0
82.5°	25.3	28.6	35.2	44.5	53.8	63.8	71.1	78.4	84.4	89.7	91.7
85°	12.6	17.3	25.3	35.2	45.2	55.8	65.1	71.8	78.4	83.1	85.7
87.5°	4.0	9.3	17.9	27.2	37.9	48.5	58.5	65.8	71.8	75.8	78.4
90°	0.0	4.7	12.6	22.6	32.6	43.2	52.5	60.5	66.5	69.8	71.8
92.5°	0.0	2.7	10.0	18.6	27.9	38.5	47.8	55.2	60.5	63.8	65.1
95°	0.7	2.0	7.3	15.3	24.6	34.6	43.2	49.8	55.2	58.5	59.1
97.5°	0.7	1.3	6.0	12.6	21.3	30.6	39.2	45.9	49.8	53.2	53.8
100°	0.7	1.3	4.7	11.3	18.6	27.2	35.2	41.2	45.9	48.5	49.2
102.5°	0.7	0.7	4.0	9.3	16.6	23.9	31.2	37.2	41.2	43.9	45.2
105°	0.7	0.7	3.3	8.0	14.6	21.3	27.9	33.9	37.2	39.9	41.2
107.5°	0.7	0.7	2.7	6.6	12.6	18.6	25.3	29.9	33.9	36.5	37.9
110°	0.7	0.7	2.0	6.0	10.6	16.6	21.9	26.6	30.6	33.2	34.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.7	0.7	2.0	5.3	9.3	14.6	19.3	23.9	27.2	29.9	31.9
115°	0.7	0.7	2.0	4.7	8.6	12.6	17.3	21.3	24.6	27.2	29.2
117.5°	0.7	0.7	2.0	4.0	7.3	11.3	15.3	19.3	21.9	24.6	26.6
120°	0.7	0.7	1.3	3.3	6.6	10.0	13.3	16.6	19.9	22.6	24.6
122.5°	0.7	0.7	1.3	3.3	5.3	8.6	12.0	14.6	17.9	19.9	21.9
125°	0.7	0.7	1.3	2.7	4.7	8.0	10.6	13.3	15.3	17.9	19.9
127.5°	0.7	0.7	1.3	2.7	4.0	6.6	9.3	12.0	14.0	15.9	17.3
130°	0.7	0.7	1.3	2.0	3.3	5.3	8.0	10.0	12.6	14.0	15.3
132.5°	0.7	0.7	0.7	2.0	2.7	4.0	6.0	8.6	10.6	12.6	13.3
135°	0.7	0.7	0.7	1.3	2.7	3.3	4.7	6.6	8.6	10.6	12.0
137.5°	0.7	0.7	0.7	1.3	2.0	3.3	4.0	5.3	7.3	8.6	10.6
140°	0.7	0.7	0.7	1.3	2.0	2.7	3.3	4.7	6.0	7.3	8.6
142.5°	0.7	0.7	0.7	1.3	1.3	2.0	2.7	4.0	4.7	6.0	7.3
145°	0.7	0.7	0.7	1.3	1.3	2.0	2.7	3.3	4.0	4.7	6.0
147.5°	0.7	0.7	0.7	1.3	1.3	1.3	2.0	2.7	3.3	4.0	4.7
150°	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0	2.7	3.3	4.0
152.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0	2.0	2.7	3.3
155°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0	2.7	2.7
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°	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5
2.5°	1275.2	1276.6	1284.5	1283.9	1282.5	1281.2	1281.2	1279.9	1281.2	1284.5	1283.2
5°	1268.6	1270.6	1276.6	1275.9	1274.6	1273.9	1273.2	1271.2	1272.6	1277.2	1275.9
7.5°	1256.6	1258.6	1263.9	1261.3	1259.3	1260.6	1257.3	1255.3	1258.0	1262.6	1261.9
10°	1244.0	1245.3	1252.0	1250.6	1247.3	1248.0	1244.7	1243.3	1246.7	1249.3	1250.0
12.5°	1235.4	1240.0	1246.0	1245.3	1244.7	1245.3	1242.0	1240.7	1242.7	1245.3	1244.7
15°	1233.4	1239.3	1246.0	1246.0	1246.7	1247.3	1244.0	1242.0	1244.0	1246.0	1245.3
17.5°	1231.4	1238.7	1244.7	1244.0	1244.7	1246.0	1240.7	1239.3	1242.0	1244.7	1243.3
20°	1224.7	1231.4	1235.4	1234.0	1234.0	1234.7	1228.1	1228.1	1232.0	1234.0	1234.7
22.5°	1206.1	1214.1	1214.1	1210.8	1210.8	1208.1	1206.1	1202.1	1206.8	1210.1	1212.8
25°	1178.2	1181.5	1177.5	1170.2	1166.2	1162.9	1153.6	1161.6	1161.6	1171.6	1174.9
27.5°	1139.0	1131.7	1120.4	1105.1	1101.8	1091.2	1085.2	1087.2	1090.5	1104.4	1115.1
30°	1074.5	1052.6	1033.3	1026.7	1012.1	1001.4	990.8	996.1	1002.1	1010.1	1032.0
32.5°	989.5	968.2	937.0	925.7	910.4	897.1	884.5	892.5	903.1	908.4	932.3
35°	891.8	866.5	838.0	818.7	802.8	795.4	779.5	790.8	802.1	806.1	826.7
37.5°	788.1	762.2	737.0	720.3	705.1	700.4	689.8	697.8	706.4	712.4	729.7
40°	689.8	665.9	646.6	635.3	624.7	620.7	616.7	620.0	626.7	631.3	644.6
42.5°	605.4	586.1	572.8	566.2	558.9	553.6	554.2	555.5	558.9	568.8	574.8
45°	531.6	520.3	511.7	510.4	505.7	505.0	504.4	507.0	509.0	515.0	519.7
47.5°	472.5	467.8	465.8	468.5	470.5	467.8	469.2	472.5	476.5	476.5	475.8
50°	426.0	427.3	430.0	435.9	439.9	441.2	442.6	446.6	447.2	448.6	446.6
52.5°	388.1	389.4	396.7	406.0	410.7	412.7	415.3	419.3	419.3	420.6	418.0
55°	349.5	351.5	358.8	368.1	372.1	374.8	377.5	380.1	382.1	384.8	382.8
57.5°	307.0	313.0	317.6	320.3	323.0	325.0	326.9	327.6	331.6	332.3	335.6
60°	261.8	263.2	267.8	267.1	265.1	270.5	267.8	272.5	277.1	283.1	283.8
62.5°	218.6	219.3	222.6	221.3	223.9	223.3	225.3	225.3	228.6	231.3	234.6
65°	184.7	185.4	188.1	188.1	187.4	189.4	191.4	192.7	192.7	194.7	197.4
67.5°	159.5	161.5	164.1	165.5	166.8	166.8	168.8	169.5	170.8	171.4	172.8
70°	142.2	144.9	147.5	148.9	149.5	150.8	151.5	151.5	152.8	153.5	154.8
72.5°	129.6	132.2	134.2	134.2	135.6	136.2	136.2	136.9	137.6	138.9	140.2
75°	119.0	120.9	122.3	121.6	121.6	121.6	122.3	122.3	123.6	124.9	126.3
77.5°	109.0	111.0	111.0	109.6	109.6	109.6	109.6	110.3	111.0	112.3	113.6
80°	101.7	101.7	101.0	101.0	99.7	99.0	99.0	99.7	99.7	101.0	103.0
82.5°	93.7	93.7	93.0	92.4	91.7	91.0	91.0	91.7	92.4	93.0	94.4
85°	86.4	86.4	85.1	85.1	84.4	84.4	84.4	84.4	85.1	85.7	87.1
87.5°	79.1	78.4	77.7	77.1	77.1	77.1	77.1	77.1	77.7	79.1	79.7
90°	71.8	71.1	70.4	70.4	69.8	69.8	70.4	70.4	71.1	71.8	72.4
92.5°	65.1	64.5	63.8	63.8	63.1	63.1	63.8	63.1	64.5	64.5	65.1
95°	59.1	58.5	57.8	57.8	57.8	57.8	57.8	57.8	58.5	58.5	59.1
97.5°	53.8	53.2	52.5	52.5	53.2	52.5	53.2	53.2	53.2	53.8	54.5
100°	49.2	48.5	48.5	49.2	48.5	48.5	49.2	49.2	49.2	49.2	49.8
102.5°	45.2	45.2	45.2	45.2	45.2	45.2	45.9	45.9	45.9	45.9	46.5
105°	41.2	41.9	41.9	41.9	42.5	42.5	42.5	43.2	43.2	43.2	43.2
107.5°	38.5	39.2	39.2	39.9	39.9	40.5	40.5	40.5	40.5	41.2	41.2
110°	35.9	36.5	37.2	37.9	37.9	38.5	38.5	38.5	38.5	38.5	38.5

TEST NUMBER: P1213752

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	33.2	33.9	34.6	35.9	36.5	36.5	36.5	36.5	37.2	37.2	36.5
115°	30.6	31.9	32.6	33.9	34.6	34.6	35.2	35.2	35.2	35.2	34.6
117.5°	27.9	29.9	30.6	31.9	32.6	32.6	33.2	33.2	33.2	33.2	32.6
120°	25.9	27.2	28.6	29.2	29.9	30.6	30.6	31.2	31.2	31.2	30.6
122.5°	23.9	25.3	26.6	27.2	27.9	28.6	28.6	28.6	28.6	28.6	28.6
125°	21.3	22.6	23.9	24.6	25.3	25.9	25.9	26.6	26.6	26.6	25.9
127.5°	19.3	20.6	21.3	22.6	23.3	23.3	23.9	23.9	23.9	23.9	23.3
130°	16.6	17.9	19.3	19.9	20.6	20.6	21.3	21.3	21.3	21.3	21.3
132.5°	14.6	15.9	16.6	17.9	17.9	18.6	18.6	19.3	19.3	19.3	18.6
135°	13.3	14.0	14.6	15.9	15.9	16.6	16.6	16.6	16.6	16.6	16.6
137.5°	12.0	12.6	13.3	14.0	14.0	14.6	14.6	14.6	14.6	15.3	14.6
140°	10.0	11.3	12.0	12.0	12.6	12.6	12.6	13.3	13.3	13.3	12.6
142.5°	8.6	9.3	10.0	10.6	11.3	11.3	11.3	11.3	12.0	11.3	11.3
145°	6.6	8.0	8.6	9.3	10.0	10.0	10.0	10.0	10.0	10.0	10.0
147.5°	5.3	6.0	7.3	8.0	8.0	8.6	8.6	8.6	8.6	8.6	8.6
150°	4.7	4.7	6.0	6.6	7.3	7.3	7.3	7.3	7.3	7.3	7.3
152.5°	3.3	4.0	4.7	5.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0
155°	3.3	3.3	4.0	4.0	4.7	4.7	4.7	4.7	5.3	4.7	4.7
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: P1213752

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5
2.5°	1281.2	1280.5	1283.2	1280.5	1267.3	1272.6	1270.6	1277.9	1278.6	1280.5	1287.2
5°	1274.6	1274.6	1277.9	1275.2	1262.6	1267.9	1267.3	1274.6	1275.9	1277.2	1284.5
7.5°	1261.3	1261.9	1266.6	1264.6	1251.3	1259.3	1258.6	1267.3	1269.9	1272.6	1279.2
10°	1248.7	1248.0	1253.3	1251.3	1238.7	1248.0	1247.3	1256.0	1259.9	1264.6	1272.6
12.5°	1242.0	1240.0	1242.0	1240.0	1226.1	1233.4	1234.0	1244.0	1248.7	1254.6	1263.9
15°	1242.0	1238.7	1238.7	1234.7	1218.7	1223.4	1224.1	1230.7	1236.7	1242.7	1254.0
17.5°	1240.7	1237.4	1236.7	1233.4	1216.1	1216.1	1215.4	1220.1	1223.4	1229.4	1241.3
20°	1233.4	1232.0	1231.4	1229.4	1213.4	1210.8	1209.4	1209.4	1211.4	1213.4	1225.4
22.5°	1214.1	1215.4	1216.8	1218.1	1205.5	1200.8	1201.5	1200.1	1198.1	1198.1	1208.1
25°	1178.2	1184.9	1190.2	1196.2	1188.8	1185.5	1189.5	1187.5	1184.2	1181.5	1190.2
27.5°	1121.1	1135.0	1146.3	1160.9	1161.6	1158.9	1169.6	1168.2	1167.6	1163.6	1170.2
30°	1042.0	1063.9	1079.2	1100.5	1118.4	1121.1	1139.0	1141.7	1144.3	1142.3	1149.0
32.5°	946.3	976.2	1002.1	1035.3	1052.6	1067.9	1093.2	1103.8	1114.4	1117.7	1125.0
35°	842.0	875.8	906.4	943.0	970.2	1003.4	1034.0	1050.0	1073.9	1083.2	1093.8
37.5°	742.9	774.8	804.7	841.3	885.2	919.7	957.6	993.5	1026.0	1039.3	1055.3
40°	655.2	681.1	709.7	741.6	781.5	826.7	867.9	917.7	956.3	982.8	1006.1
42.5°	588.8	601.4	626.0	654.6	686.5	732.3	774.2	830.0	876.5	914.4	952.9
45°	529.6	535.6	553.6	568.8	601.4	641.9	686.5	741.0	789.5	838.0	884.5
47.5°	479.1	486.4	495.1	504.4	527.6	561.5	600.1	649.2	697.8	754.2	807.4
50°	445.2	447.2	448.6	452.5	466.5	489.8	521.0	562.9	609.4	669.8	726.3
52.5°	415.3	415.3	411.3	409.4	414.7	429.3	447.2	477.1	525.0	580.8	640.6
55°	383.4	377.5	376.1	369.5	370.8	377.5	386.1	409.4	448.6	496.4	554.2
57.5°	338.9	336.3	336.3	333.6	328.3	331.6	333.6	350.2	378.1	419.3	469.8
60°	287.7	286.4	289.7	290.4	285.7	287.7	287.1	297.0	317.0	350.2	392.1
62.5°	236.6	242.6	243.2	245.9	243.2	242.6	245.9	254.5	264.5	289.7	322.3
65°	198.7	202.0	202.7	206.0	204.7	204.7	207.3	214.0	220.0	237.2	262.5
67.5°	174.1	172.8	173.4	175.4	173.4	172.8	174.8	178.8	183.4	194.0	212.0
70°	154.8	153.5	153.5	153.5	150.8	148.9	149.5	150.8	152.8	158.8	170.1
72.5°	140.2	140.2	138.2	136.2	134.2	132.9	131.6	130.2	129.6	131.6	137.6
75°	126.9	127.6	126.9	124.9	122.3	119.6	117.0	114.3	111.0	109.6	110.3
77.5°	115.0	115.6	116.3	115.6	113.0	109.6	105.7	101.7	97.0	92.4	89.7
80°	104.3	105.7	106.3	105.7	103.7	101.0	96.4	91.7	85.1	79.1	72.4
82.5°	95.0	97.0	97.7	97.7	96.4	93.7	88.4	83.1	75.8	67.8	59.1
85°	87.7	89.0	90.4	90.4	89.7	87.1	81.7	75.8	68.4	59.1	49.8
87.5°	80.4	81.1	82.4	83.7	82.4	79.7	75.1	68.4	61.1	51.8	41.2
90°	73.1	73.8	75.1	76.4	75.8	73.1	69.1	63.1	55.2	45.2	34.6
92.5°	65.8	67.1	67.8	68.4	69.1	67.1	63.8	57.8	49.8	39.9	29.9
95°	60.5	60.5	61.8	62.5	63.1	61.1	58.5	52.5	45.2	35.9	25.9
97.5°	55.2	55.2	56.5	56.5	57.1	55.8	53.2	47.8	40.5	31.9	21.9
100°	49.8	50.5	51.2	51.8	51.8	51.2	48.5	43.2	36.5	28.6	19.3
102.5°	46.5	46.5	47.2	47.2	47.8	46.5	43.9	39.2	32.6	25.3	16.6
105°	43.2	43.2	43.9	43.9	43.2	41.9	39.2	35.2	29.2	21.9	14.6
107.5°	40.5	40.5	40.5	40.5	39.9	38.5	35.9	31.2	25.9	19.9	13.3
110°	38.5	37.9	37.9	37.2	36.5	34.6	31.9	27.9	23.3	17.3	11.3

TEST NUMBER: P1213752

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	36.5	35.9	35.2	34.6	33.2	31.2	28.6	25.3	20.6	15.3	10.0
115°	34.6	33.9	33.2	31.9	30.6	28.6	25.9	22.6	17.9	13.3	8.6
117.5°	32.6	31.9	30.6	29.2	27.9	25.9	23.3	19.9	15.9	12.0	8.0
120°	29.9	29.2	28.6	27.2	25.9	23.3	20.6	17.9	14.0	10.6	6.6
122.5°	27.9	27.2	25.9	25.3	23.3	21.3	18.6	15.9	12.6	9.3	6.0
125°	25.3	24.6	23.9	22.6	21.3	18.6	16.6	14.0	11.3	8.0	4.7
127.5°	23.3	22.6	21.3	19.9	18.6	16.6	14.6	12.6	10.0	6.6	4.7
130°	20.6	19.9	19.3	17.9	16.6	14.6	13.3	10.6	8.6	6.0	4.0
132.5°	17.9	17.9	17.3	15.9	14.6	13.3	11.3	9.3	7.3	5.3	3.3
135°	16.6	15.9	15.3	14.0	13.3	11.3	10.0	8.0	6.0	4.7	2.7
137.5°	14.6	14.0	13.3	12.6	11.3	10.0	8.6	6.6	5.3	4.0	2.7
140°	12.6	12.0	12.0	10.6	10.0	8.6	7.3	6.0	4.7	3.3	2.0
142.5°	11.3	10.6	10.0	9.3	8.6	7.3	6.0	4.7	4.0	2.7	2.0
145°	10.0	9.3	8.6	8.0	7.3	6.0	5.3	4.0	3.3	2.7	2.0
147.5°	8.0	8.0	7.3	6.6	6.0	5.3	4.7	4.0	2.7	2.0	1.3
150°	6.6	6.6	6.0	5.3	5.3	4.7	4.0	3.3	2.7	2.0	1.3
152.5°	6.0	5.3	5.3	4.7	4.7	4.0	3.3	2.7	2.0	2.0	1.3
155°	4.7	4.7	4.7	4.0	4.0	3.3	2.7	2.7	2.0	1.3	1.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213752

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5
2.5°	1288.5	1280.5	1287.2	1299.2	1297.8	1296.5	1295.2	1297.8	1306.5	1301.8	1294.5
5°	1286.5	1278.6	1285.9	1297.2	1296.5	1294.5	1293.2	1295.8	1304.5	1299.8	1291.8
7.5°	1282.5	1275.2	1280.5	1291.8	1291.8	1290.5	1289.2	1291.8	1299.8	1295.8	1287.9
10°	1275.9	1270.6	1275.9	1286.5	1287.2	1284.5	1283.2	1286.5	1294.5	1292.5	1285.9
12.5°	1270.6	1265.3	1271.2	1281.9	1282.5	1279.9	1277.9	1281.9	1292.5	1293.8	1291.8
15°	1263.3	1258.6	1265.9	1277.2	1277.2	1275.2	1275.2	1280.5	1295.2	1301.1	1304.5
17.5°	1252.6	1249.3	1258.0	1269.3	1269.9	1268.6	1269.3	1279.9	1299.2	1313.8	1323.1
20°	1239.3	1238.0	1247.3	1259.3	1261.3	1261.9	1265.3	1281.2	1307.8	1327.7	1337.0
22.5°	1223.4	1224.1	1234.7	1247.3	1250.0	1252.0	1258.6	1281.2	1314.4	1335.7	1339.7
25°	1205.5	1207.4	1218.7	1234.0	1237.4	1241.3	1252.6	1281.9	1316.4	1330.4	1323.7
27.5°	1186.2	1190.2	1204.8	1220.7	1224.7	1231.4	1246.0	1277.9	1307.1	1307.8	1283.2
30°	1166.2	1170.9	1188.2	1206.8	1213.4	1220.1	1238.0	1268.6	1284.5	1263.3	1220.1
32.5°	1143.7	1150.3	1167.6	1190.2	1198.1	1206.8	1224.7	1250.6	1244.7	1198.8	1137.0
35°	1115.1	1124.4	1144.3	1170.9	1178.2	1189.5	1202.1	1208.1	1181.5	1116.4	1046.6
37.5°	1079.9	1093.8	1117.1	1147.6	1155.6	1162.9	1166.2	1149.6	1096.5	1026.0	953.6
40°	1039.3	1060.6	1085.8	1119.7	1127.7	1127.7	1115.7	1080.5	1013.4	921.0	840.6
42.5°	990.1	1016.1	1048.0	1081.9	1089.8	1080.5	1051.9	990.1	913.7	810.7	725.7
45°	930.3	964.9	1000.8	1036.0	1040.0	1019.4	968.2	889.8	795.4	699.7	618.7
47.5°	859.2	904.4	943.6	983.5	978.2	943.6	875.2	786.1	686.5	596.1	531.0
50°	779.5	832.7	876.5	914.4	903.1	855.2	774.8	681.8	582.8	505.7	451.9
52.5°	694.4	755.6	799.4	830.0	814.7	757.6	669.2	580.1	499.1	428.6	392.7
55°	606.1	667.9	713.0	737.0	717.0	655.2	568.2	487.1	410.7	364.8	343.6
57.5°	520.3	578.1	620.7	639.9	614.7	552.9	472.5	404.0	348.9	310.3	299.7
60°	437.9	485.1	525.6	540.3	513.0	455.9	386.8	332.3	291.7	265.1	259.8
62.5°	361.5	400.0	431.9	443.2	416.7	372.1	312.3	271.8	243.2	229.9	223.3
65°	298.4	321.0	353.5	351.5	335.6	294.4	250.5	222.0	203.3	194.7	190.7
67.5°	234.6	255.2	275.8	278.4	258.5	229.9	201.4	180.8	170.8	166.1	164.1
70°	181.4	196.7	209.3	206.0	195.4	177.4	159.5	148.2	144.2	142.2	142.2
72.5°	140.9	148.9	154.8	150.8	144.2	134.9	126.3	121.6	122.3	123.6	124.9
75°	109.0	111.0	112.3	108.3	107.0	101.0	100.3	101.0	105.0	109.0	111.0
77.5°	83.7	81.1	79.1	75.1	75.8	75.1	78.4	83.7	89.7	95.7	101.0
80°	64.5	58.5	53.8	49.8	51.8	55.2	61.8	69.8	77.7	84.4	91.0
82.5°	49.8	41.2	34.6	30.6	34.6	39.9	48.5	58.5	67.8	75.1	82.4
85°	38.5	28.6	20.6	16.6	20.6	28.6	37.9	49.2	59.1	67.1	74.4
87.5°	29.9	20.6	11.3	6.6	11.3	19.9	30.6	41.2	51.2	60.5	67.8
90°	23.9	14.0	5.3	1.3	6.0	14.0	23.9	34.6	44.5	54.5	61.8
92.5°	19.3	10.0	2.7	0.0	3.3	10.6	19.9	29.9	39.9	49.2	56.5
95°	15.9	8.0	2.0	0.0	2.7	8.0	15.9	25.9	35.2	44.5	50.5
97.5°	13.3	6.0	1.3	0.0	1.3	6.6	13.3	21.9	31.2	39.9	45.9
100°	11.3	5.3	1.3	0.0	1.3	5.3	11.3	19.3	27.2	35.2	41.2
102.5°	9.3	4.0	0.7	0.7	0.7	4.0	10.0	16.6	23.9	31.2	37.2
105°	8.6	3.3	0.7	0.7	0.7	3.3	8.6	14.6	21.3	27.9	33.2
107.5°	7.3	2.7	0.7	0.7	0.7	2.7	7.3	12.6	19.3	25.3	29.9
110°	6.0	2.7	0.7	0.7	0.7	2.7	6.0	11.3	16.6	21.9	26.6



TEST NUMBER: P1213752

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	5.3	2.0	0.7	0.7	0.7	2.0	5.3	10.0	14.6	19.9	23.9
115°	4.7	2.0	0.7	0.7	0.7	2.0	4.7	8.6	12.6	17.3	21.3
117.5°	4.0	2.0	0.7	0.7	0.7	1.3	4.0	7.3	11.3	15.3	19.3
120°	3.3	1.3	0.7	0.7	0.7	1.3	3.3	6.6	10.0	13.3	16.6
122.5°	3.3	1.3	0.7	0.7	0.7	1.3	2.7	5.3	8.6	11.3	14.6
125°	2.7	1.3	0.7	0.7	0.7	0.7	2.7	4.7	7.3	10.0	12.6
127.5°	2.7	1.3	0.7	0.7	0.7	0.7	2.0	4.0	6.0	8.6	11.3
130°	2.0	1.3	0.7	0.7	0.7	0.7	1.3	3.3	5.3	7.3	9.3
132.5°	2.0	1.3	0.7	0.7	0.7	0.7	1.3	2.7	4.0	6.0	8.0
135°	2.0	0.7	0.7	0.7	0.7	0.7	0.7	2.0	3.3	4.7	6.0
137.5°	1.3	0.7	0.7	0.7	0.7	0.7	0.7	1.3	2.7	3.3	5.3
140°	1.3	0.7	0.7	0.7	0.7	0.7	0.7	1.3	2.0	2.7	4.0
142.5°	1.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	2.0	3.3
145°	1.3	0.7	0.7	1.3	1.3	0.7	0.7	1.3	1.3	2.0	2.7
147.5°	1.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	2.0
150°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0
152.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
155°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213752

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5
2.5°	1293.2	1277.9	1285.9	1283.2	1285.9	1292.5	1291.8	1289.9	1291.2	1287.9	1284.5
5°	1290.5	1275.2	1283.2	1279.9	1283.2	1289.9	1288.5	1286.5	1288.5	1284.5	1281.2
7.5°	1287.2	1273.2	1282.5	1281.9	1287.9	1296.5	1297.2	1297.2	1301.8	1295.8	1293.2
10°	1287.2	1279.9	1292.5	1297.2	1312.4	1323.7	1325.1	1327.7	1335.7	1334.4	1327.7
12.5°	1301.1	1299.8	1318.4	1329.7	1343.7	1359.6	1368.3	1370.9	1376.2	1372.3	1369.6
15°	1319.1	1325.7	1346.3	1359.0	1374.2	1386.2	1388.2	1389.5	1393.5	1387.5	1382.9
17.5°	1343.0	1347.0	1363.6	1368.9	1378.9	1380.9	1378.2	1371.6	1371.6	1358.3	1354.3
20°	1354.3	1352.3	1359.0	1350.3	1346.3	1334.4	1323.1	1310.5	1309.8	1295.8	1294.5
22.5°	1344.3	1331.1	1317.1	1295.8	1286.5	1269.3	1254.0	1246.7	1242.0	1224.1	1219.4
25°	1309.1	1276.6	1256.0	1230.7	1208.1	1188.2	1173.6	1158.3	1143.7	1129.0	1122.4
27.5°	1248.0	1217.4	1184.2	1149.0	1117.7	1087.2	1062.6	1047.3	1033.3	1014.1	1004.1
30°	1172.9	1130.4	1093.8	1059.9	1008.8	971.5	950.9	920.4	909.7	901.1	882.5
32.5°	1084.5	1033.3	983.5	937.7	885.2	850.6	823.4	800.8	794.1	771.5	766.2
35°	986.8	919.7	863.2	818.0	780.2	738.3	715.7	700.4	687.1	671.8	669.2
37.5°	871.9	811.4	747.6	707.7	677.8	641.9	624.7	614.0	608.0	596.7	594.8
40°	756.2	695.8	651.9	612.0	593.4	574.2	561.5	556.9	554.2	550.2	546.2
42.5°	651.2	598.1	566.8	540.3	532.3	523.0	519.7	522.3	519.7	518.3	517.7
45°	562.2	521.7	499.7	491.8	489.8	487.1	489.8	494.4	495.1	493.7	493.7
47.5°	481.1	461.8	452.5	453.9	457.2	459.2	463.8	469.8	471.2	467.8	469.2
50°	428.0	416.7	414.7	420.0	427.3	430.0	435.3	439.9	439.3	437.9	436.6
52.5°	378.1	374.8	380.1	385.4	393.4	394.7	396.7	398.7	398.1	395.4	394.1
55°	336.3	338.9	343.6	345.6	351.5	350.9	351.5	351.5	348.9	347.5	345.6
57.5°	298.4	299.0	301.7	302.4	305.7	304.4	303.7	302.4	298.4	297.7	295.7
60°	259.8	258.5	264.5	259.8	262.5	259.8	259.2	255.8	251.9	251.2	249.9
62.5°	223.3	220.6	224.6	222.6	223.9	221.3	220.0	216.0	212.6	212.0	211.3
65°	190.7	189.4	193.4	192.7	194.0	190.7	189.4	186.7	184.1	183.4	182.7
67.5°	163.5	166.8	168.8	168.8	170.1	169.5	166.1	165.5	164.8	162.1	162.1
70°	143.5	145.5	149.5	150.2	149.5	150.8	148.2	147.5	146.9	145.5	144.9
72.5°	127.6	130.2	134.2	134.9	134.2	134.2	132.9	132.2	132.2	130.2	130.2
75°	115.0	118.3	121.6	121.6	121.6	120.3	119.0	119.0	117.6	117.0	115.6
77.5°	104.3	108.3	111.0	110.3	109.6	108.3	108.3	106.3	104.3	104.3	103.0
80°	96.4	99.0	101.0	100.3	99.7	97.7	97.0	95.0	93.7	91.7	91.7
82.5°	87.7	91.0	92.4	91.7	90.4	88.4	87.7	86.4	85.1	84.4	83.1
85°	80.4	83.7	84.4	83.1	81.7	80.4	79.7	79.1	78.4	77.1	77.1
87.5°	73.1	76.4	76.4	75.8	74.4	73.8	73.1	72.4	71.8	71.1	70.4
90°	67.1	69.8	69.8	69.1	68.4	67.8	67.1	66.5	65.8	65.1	65.1
92.5°	61.1	63.8	63.8	63.1	62.5	61.8	61.8	61.1	60.5	59.8	59.1
95°	55.8	58.5	58.5	58.5	57.8	57.1	57.1	56.5	55.8	55.8	55.2
97.5°	50.5	53.2	53.2	53.2	52.5	51.8	51.8	51.2	51.2	51.2	50.5
100°	45.9	47.8	48.5	48.5	47.8	47.8	47.8	47.2	47.2	47.2	46.5
102.5°	41.2	43.2	44.5	44.5	44.5	43.9	43.9	43.9	43.9	43.9	43.2
105°	37.2	39.2	40.5	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
107.5°	33.9	35.9	37.2	37.9	38.5	38.5	39.2	39.2	39.2	39.2	39.2
110°	30.6	32.6	34.6	35.2	35.9	36.5	36.5	37.2	36.5	36.5	36.5

TEST NUMBER: P1213752

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	27.2	29.9	31.2	32.6	33.2	33.9	34.6	34.6	34.6	34.6	34.6
115°	24.6	27.2	28.6	29.9	31.2	31.9	31.9	32.6	32.6	32.6	31.9
117.5°	21.9	24.6	25.9	27.2	27.9	29.2	29.9	29.9	29.9	29.9	29.2
120°	19.9	21.9	23.3	24.6	25.9	26.6	27.2	27.2	27.2	27.2	27.2
122.5°	17.3	19.3	21.3	22.6	23.3	23.9	24.6	24.6	24.6	24.6	24.6
125°	15.3	17.3	18.6	19.9	20.6	21.9	21.9	21.9	21.9	21.9	21.9
127.5°	13.3	15.3	16.6	17.9	18.6	19.3	19.9	19.9	19.9	19.9	19.9
130°	11.3	13.3	14.6	15.9	16.6	17.3	17.3	17.9	17.9	17.9	17.9
132.5°	10.0	11.3	12.6	14.0	14.6	15.3	15.3	15.9	15.9	15.9	15.9
135°	8.0	10.0	10.6	12.0	12.6	13.3	13.3	14.0	14.0	14.0	14.0
137.5°	6.6	8.0	9.3	10.6	11.3	11.3	12.0	12.0	12.6	12.6	12.6
140°	5.3	6.0	8.0	8.6	9.3	10.0	10.6	10.6	10.6	10.6	10.6
142.5°	4.0	5.3	6.0	7.3	8.0	8.6	9.3	9.3	9.3	9.3	9.3
145°	3.3	4.0	4.7	6.0	6.6	7.3	8.0	8.0	8.0	8.0	8.0
147.5°	2.7	3.3	4.0	4.7	5.3	6.0	6.6	6.6	6.6	6.6	6.6
150°	2.0	2.7	3.3	3.3	4.0	4.7	5.3	6.0	6.0	6.0	6.0
152.5°	2.0	2.0	2.7	2.7	3.3	4.0	4.7	4.7	4.7	4.7	4.7
155°	1.3	2.0	2.0	2.0	2.7	2.7	3.3	4.0	4.0	4.0	4.0
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: P1213752

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5
2.5°	1286.5	1289.2	1287.9	1285.9	1285.2	1288.5	1285.2	1269.9	1275.9	1276.6	1281.2
5°	1284.5	1286.5	1285.2	1283.9	1281.9	1285.9	1281.9	1265.9	1271.9	1272.6	1277.2
7.5°	1297.8	1298.5	1298.5	1295.2	1289.9	1291.8	1286.5	1268.6	1271.9	1271.9	1275.2
10°	1331.1	1332.4	1334.4	1325.7	1319.1	1313.8	1306.5	1284.5	1283.9	1278.6	1278.6
12.5°	1374.2	1370.9	1367.6	1363.6	1358.3	1351.7	1341.0	1315.1	1306.5	1297.8	1289.2
15°	1386.9	1385.5	1384.9	1382.9	1379.6	1377.6	1369.6	1343.7	1331.1	1320.4	1305.1
17.5°	1353.6	1356.3	1364.9	1365.6	1369.6	1377.6	1376.2	1358.3	1347.0	1342.3	1323.7
20°	1293.8	1294.5	1305.1	1309.8	1327.1	1340.4	1350.3	1348.3	1345.7	1351.0	1337.0
22.5°	1222.1	1226.7	1238.0	1245.3	1261.9	1277.2	1293.2	1301.8	1315.8	1337.7	1335.0
25°	1124.4	1130.4	1146.3	1158.3	1181.5	1204.8	1226.1	1241.3	1258.0	1299.8	1313.8
27.5°	1007.4	1016.7	1037.3	1049.3	1081.9	1105.8	1136.3	1166.2	1189.5	1237.4	1265.9
30°	884.5	892.5	914.4	931.0	958.9	991.5	1030.0	1072.6	1111.1	1159.6	1195.5
32.5°	769.5	778.2	796.1	810.7	842.0	869.2	911.7	964.2	1000.1	1067.2	1115.1
35°	669.2	677.2	689.8	702.4	728.3	756.2	792.8	844.0	889.8	959.6	1020.1
37.5°	598.7	600.1	607.4	614.7	634.0	655.2	683.8	729.0	771.5	846.6	913.1
40°	548.2	548.2	552.2	554.2	562.9	575.5	593.4	628.6	663.9	721.0	802.1
42.5°	517.0	515.7	515.7	516.3	515.7	521.7	532.3	548.9	580.1	627.3	690.4
45°	493.7	491.1	489.1	484.4	481.8	481.8	482.4	488.4	506.4	536.9	588.1
47.5°	467.8	467.2	463.8	458.5	453.9	450.6	445.2	443.2	448.6	465.8	500.4
50°	437.9	434.6	431.3	427.3	422.0	418.7	408.7	409.4	404.7	412.7	430.6
52.5°	394.1	391.4	390.1	386.8	384.8	383.4	375.5	367.5	365.5	366.8	373.5
55°	345.6	346.9	341.6	344.2	343.6	337.6	334.3	328.3	326.3	325.6	328.9
57.5°	295.1	296.4	293.1	295.7	295.7	292.4	290.4	290.4	285.7	281.8	286.4
60°	249.2	246.5	248.5	251.9	251.9	249.9	248.5	248.5	245.2	243.9	247.2
62.5°	212.0	209.3	211.3	214.6	215.3	214.0	212.6	212.6	208.7	208.7	211.3
65°	183.4	184.1	183.4	186.1	186.1	186.7	185.4	184.1	179.4	181.4	180.8
67.5°	162.8	162.1	162.1	164.8	164.1	165.5	164.1	162.1	158.8	156.2	155.5
70°	145.5	144.9	144.9	146.2	146.9	146.9	146.2	144.9	140.2	137.6	135.6
72.5°	130.2	129.6	130.2	130.9	131.6	132.2	131.6	130.2	126.3	122.9	119.6
75°	116.3	115.6	117.6	117.6	118.3	118.3	119.0	118.3	115.0	111.0	107.0
77.5°	102.3	103.0	105.0	105.7	107.0	107.7	108.3	108.3	105.0	101.7	96.4
80°	91.0	92.4	93.7	94.4	95.7	97.7	98.4	99.0	96.4	93.0	87.1
82.5°	83.1	83.7	85.1	85.7	87.7	88.4	89.0	90.4	89.0	85.7	79.1
85°	76.4	77.1	78.4	78.4	79.7	81.1	81.7	82.4	81.7	78.4	71.8
87.5°	70.4	71.1	71.8	72.4	73.1	73.8	74.4	75.1	74.4	71.1	65.1
90°	65.1	65.1	65.8	65.8	66.5	67.1	68.4	68.4	67.8	65.1	59.1
92.5°	59.1	59.8	59.8	60.5	61.1	61.8	62.5	62.5	61.8	59.1	53.8
95°	55.2	55.2	55.8	55.8	56.5	56.5	57.1	57.1	56.5	53.8	48.5
97.5°	50.5	50.5	50.5	50.5	51.2	51.2	51.8	51.8	51.2	48.5	43.9
100°	46.5	46.5	46.5	46.5	46.5	47.2	47.2	47.2	46.5	43.9	39.2
102.5°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	41.9	39.9	35.2
105°	41.2	41.2	41.2	40.5	40.5	40.5	39.9	39.9	37.9	35.9	31.9
107.5°	38.5	38.5	38.5	37.9	37.9	37.2	36.5	36.5	34.6	32.6	28.6
110°	36.5	36.5	36.5	35.9	35.2	34.6	33.9	33.2	31.2	28.6	25.3

TEST NUMBER: P1213752

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	34.6	34.6	33.9	33.9	33.2	32.6	31.2	30.6	28.6	25.9	22.6
115°	31.9	31.9	31.9	31.2	30.6	29.9	29.2	27.9	25.9	23.3	19.9
117.5°	29.2	29.2	29.2	28.6	27.9	27.2	26.6	25.3	23.3	20.6	17.9
120°	26.6	26.6	26.6	25.9	25.3	24.6	23.9	22.6	20.6	18.6	15.3
122.5°	24.6	24.6	23.9	23.3	22.6	21.9	21.3	19.9	18.6	15.9	13.3
125°	21.9	21.9	21.3	21.3	20.6	19.9	19.3	17.9	15.9	14.0	12.0
127.5°	19.9	19.3	19.3	19.3	18.6	17.9	16.6	15.9	14.0	12.0	10.0
130°	17.3	17.3	17.3	16.6	16.6	15.9	14.6	13.3	12.0	10.6	8.6
132.5°	15.3	15.3	15.3	15.3	14.6	14.0	12.6	12.0	10.6	8.6	7.3
135°	14.0	14.0	13.3	13.3	12.6	12.0	11.3	10.0	8.6	7.3	6.0
137.5°	12.0	12.0	12.0	11.3	11.3	10.6	9.3	8.6	8.0	6.6	5.3
140°	10.6	10.6	10.0	10.0	9.3	9.3	8.6	7.3	6.6	5.3	4.7
142.5°	9.3	9.3	8.6	8.6	8.0	8.0	7.3	6.6	5.3	4.7	3.3
145°	8.0	8.0	7.3	7.3	7.3	6.6	6.0	5.3	4.7	4.0	3.3
147.5°	6.6	6.6	6.6	6.0	6.0	5.3	5.3	4.7	4.0	3.3	2.7
150°	6.0	6.0	5.3	5.3	5.3	4.7	4.0	4.0	3.3	2.7	2.0
152.5°	4.7	4.7	4.7	4.7	4.0	4.0	3.3	3.3	2.7	2.0	2.0
155°	4.0	4.0	4.0	3.3	3.3	3.3	2.7	2.7	2.0	2.0	1.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213752

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5	1286.5
2.5°	1279.2	1278.6	1284.5	1283.9	1275.9	1287.9	1295.8
5°	1275.9	1275.2	1280.5	1281.9	1273.2	1285.9	1294.5
7.5°	1273.2	1272.6	1278.6	1280.5	1271.9	1283.2	1292.5
10°	1273.9	1270.6	1275.9	1277.2	1269.3	1281.2	1289.2
12.5°	1278.6	1270.6	1272.6	1272.6	1265.3	1275.9	1284.5
15°	1289.9	1273.2	1270.6	1268.6	1259.3	1269.3	1277.9
17.5°	1302.5	1279.9	1270.6	1263.9	1252.6	1261.3	1270.6
20°	1315.1	1287.2	1271.9	1261.3	1246.0	1254.0	1260.6
22.5°	1321.1	1293.8	1273.2	1257.3	1238.0	1242.0	1249.3
25°	1313.1	1291.2	1270.6	1251.3	1228.1	1228.7	1234.7
27.5°	1283.9	1277.9	1264.6	1245.3	1220.1	1216.8	1221.4
30°	1234.0	1250.6	1251.3	1237.4	1210.8	1204.1	1206.1
32.5°	1164.3	1201.5	1223.4	1220.7	1197.5	1188.2	1189.5
35°	1083.8	1130.4	1178.2	1194.2	1177.5	1170.2	1167.6
37.5°	987.5	1050.0	1113.8	1153.0	1150.3	1145.6	1143.0
40°	881.2	956.3	1032.0	1094.5	1113.8	1113.8	1115.1
42.5°	767.5	855.2	938.3	1017.4	1062.6	1072.6	1076.5
45°	657.9	746.3	836.6	927.7	988.2	1019.4	1030.7
47.5°	558.2	647.3	733.0	832.7	913.1	953.6	971.5
50°	473.1	539.6	630.0	729.0	816.7	866.5	901.8
52.5°	402.7	454.5	533.6	626.0	714.4	782.8	815.4
55°	343.6	378.8	445.9	525.6	610.0	681.1	719.0
57.5°	293.7	321.6	367.5	433.9	505.0	575.5	616.0
60°	249.9	269.1	300.4	352.9	413.3	473.8	513.0
62.5°	212.0	224.6	245.2	283.8	330.9	378.1	414.7
65°	182.7	188.1	199.4	223.3	259.2	295.1	326.3
67.5°	154.2	157.5	166.1	180.8	198.7	224.6	245.2
70°	132.9	132.9	133.6	142.2	151.5	168.1	182.7
72.5°	115.6	113.6	109.6	111.6	113.6	122.9	132.2
75°	101.7	97.0	90.4	87.7	86.4	87.7	93.0
77.5°	89.7	83.1	75.1	68.4	63.1	61.1	65.8
80°	79.7	71.8	62.5	53.8	45.2	40.5	42.5
82.5°	71.8	61.8	51.8	41.9	31.9	25.3	25.3
85°	63.1	53.8	43.2	32.6	22.6	14.0	12.6
87.5°	57.1	47.2	35.9	25.9	15.9	7.3	4.0
90°	51.2	41.2	30.6	20.6	11.3	3.3	0.0
92.5°	45.9	36.5	26.6	16.6	8.0	2.0	0.0
95°	41.2	32.6	22.6	14.0	6.6	1.3	0.7
97.5°	36.5	28.6	19.9	11.3	4.7	1.3	0.7
100°	33.2	25.3	17.3	9.3	4.0	0.7	0.7
102.5°	29.2	22.6	14.6	8.0	3.3	0.7	0.7
105°	25.9	19.9	12.6	6.6	2.7	0.7	0.7
107.5°	23.3	17.3	11.3	6.0	2.7	0.7	0.7
110°	20.6	15.3	10.0	5.3	2.0	0.7	0.7



TEST NUMBER: P1213752

CATALOG NUMBER: 4SNLED-LD5-34SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	18.6	13.3	8.6	4.7	1.3	0.7	0.7
115°	15.9	12.0	7.3	4.0	1.3	0.7	0.7
117.5°	14.0	10.0	6.6	3.3	1.3	0.7	0.7
120°	12.0	8.6	5.3	2.7	0.7	0.7	0.7
122.5°	10.6	7.3	4.7	2.7	0.7	0.7	0.7
125°	9.3	6.6	4.0	2.0	0.7	0.7	0.7
127.5°	8.0	5.3	3.3	1.3	0.7	0.7	0.7
130°	6.6	4.7	2.7	1.3	0.7	0.7	0.7
132.5°	5.3	4.0	2.7	1.3	0.7	0.7	0.7
135°	4.7	3.3	2.0	1.3	0.7	0.7	0.7
137.5°	4.0	2.7	1.3	1.3	1.3	0.7	0.7
140°	3.3	2.0	1.3	1.3	1.3	1.3	0.7
142.5°	2.7	2.0	1.3	1.3	1.3	1.3	0.7
145°	2.0	1.3	1.3	1.3	1.3	1.3	0.7
147.5°	2.0	1.3	1.3	1.3	1.3	1.3	0.7
150°	1.3	1.3	1.3	1.3	1.3	1.3	1.3
152.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3
155°	1.3	1.3	1.3	1.3	1.3	1.3	1.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)