

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: P1214111

Luminaire Tested: 4SNLED-LD5-37SL-LN-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214111
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-LD5-37SL-LN-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

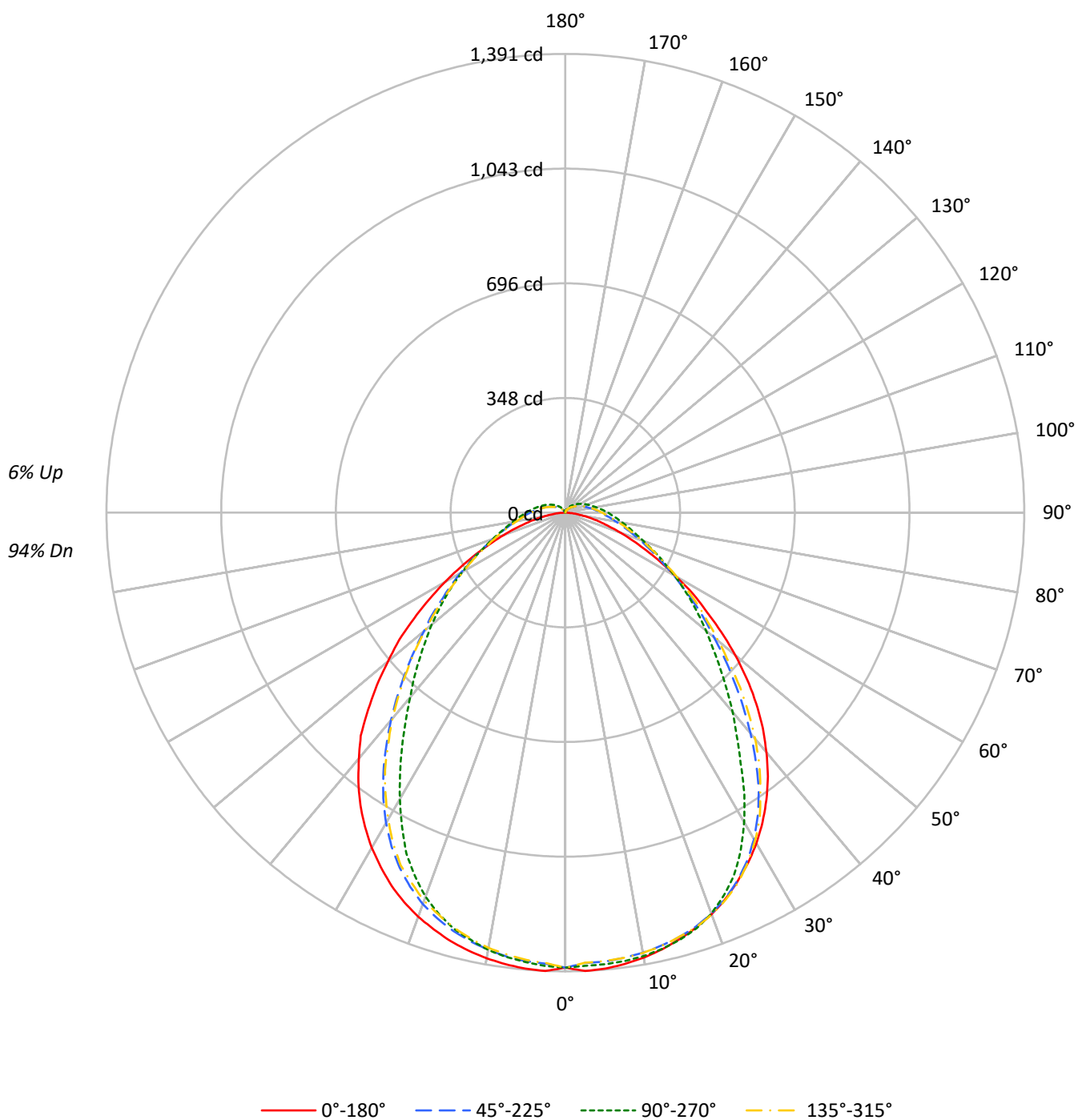
Lumens per Lamp: N/A
Luminaire Lumens: 3492.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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
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°	11150	11150	11150	11150
5°	11230	10795	11230	10748
10°	11180	10508	11198	10362
15°	11108	10194	11158	9929
20°	11022	9791	11087	9377
25°	10846	9192	10966	8651
30°	10616	8312	10755	7695
35°	10258	7234	10456	6735
40°	9745	6326	10002	5870
45°	9067	5499	9362	5184
50°	8141	4832	8500	4589
55°	7043	4268	7554	4051
60°	5923	3746	6458	3531
65°	4856	3313	5346	3071
70°	3864	2939	4328	2719
75°	3034	2714	3417	2497
80°	2190	2619	2581	2393
85°	1346	2634	1817	2420

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 9362 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	3.7
10°-20°	375.1	10.7
20°-30°	555.9	15.9
30°-40°	617.6	17.7
40°-50°	559.9	16.0
50°-60°	433.8	12.4
60°-70°	294.6	8.4
70°-80°	187.4	5.4
80°-90°	119.8	3.4
90°-100°	80.8	2.3
100°-110°	55.3	1.6
110°-120°	36.9	1.1
120°-130°	23.0	0.7
130°-140°	12.7	0.4
140°-150°	6.0	0.2
150°-160°	2.2	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1061.8	30.4
0°-40°	1679.5	48.1
0°-60°	2673.2	76.6
0°-90°	3275.0	93.8
90°-120°	173.0	5.0
90°-150°	214.7	6.1
90°-180°	217.0	6.2
0°-180°	3492.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1380	1380	1380	1380	1380	
5°	1388	1374	1388	1368	1388	132
15°	1339	1341	1345	1306	1339	378
25°	1234	1211	1248	1140	1234	568
35°	1063	926	1083	862	1063	663
45°	818	662	845	624	818	628
55°	522	465	560	442	522	470
65°	271	313	298	290	271	272
75°	108	209	122	192	108	117
85°	20	150	27	138	20	24
90°	0	130	2	118	0	1
95°	1	111	0	103	1	1
105°	1	81	0	77	1	1
115°	1	62	0	57	1	1
125°	1	46	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	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8
2.5°	1391.2	1389.7	1388.2	1385.9	1388.2	1394.3	1390.5	1382.1	1380.6	1366.9	1373.0
5°	1388.2	1385.9	1384.4	1382.1	1385.1	1392.7	1388.9	1381.4	1379.1	1366.2	1373.0
7.5°	1380.6	1379.1	1376.8	1376.8	1379.8	1387.4	1384.4	1376.0	1374.5	1361.6	1369.2
10°	1370.0	1369.2	1367.7	1367.7	1370.7	1379.8	1376.0	1368.5	1366.9	1354.8	1363.1
12.5°	1356.3	1357.1	1354.8	1354.8	1359.3	1368.5	1365.4	1357.1	1355.5	1344.9	1353.3
15°	1338.9	1339.6	1338.1	1338.9	1343.4	1354.0	1350.2	1342.6	1341.1	1332.8	1339.6
17.5°	1319.1	1319.9	1319.9	1319.1	1324.4	1335.1	1332.0	1325.2	1322.9	1316.1	1324.4
20°	1296.3	1296.3	1296.3	1296.3	1302.4	1313.0	1309.2	1303.9	1299.4	1294.1	1300.9
22.5°	1268.3	1267.5	1268.3	1270.5	1276.6	1285.0	1282.7	1276.6	1269.8	1266.7	1272.1
25°	1234.1	1236.4	1237.1	1239.4	1247.0	1253.8	1251.6	1245.5	1234.9	1232.6	1234.1
27.5°	1198.4	1200.0	1202.2	1201.5	1212.1	1218.9	1214.4	1209.1	1193.9	1191.6	1190.1
30°	1158.2	1160.5	1162.0	1161.2	1169.6	1177.2	1172.6	1165.8	1145.3	1143.8	1131.6
32.5°	1112.7	1114.9	1116.5	1116.5	1128.6	1131.6	1123.3	1113.4	1091.4	1086.1	1075.5
35°	1062.6	1064.9	1065.6	1065.6	1077.8	1077.0	1066.4	1052.7	1028.4	1021.6	1003.4
37.5°	1008.7	1010.2	1011.0	1015.5	1020.8	1016.3	1002.6	985.2	966.9	948.0	928.2
40°	948.0	950.2	951.8	954.8	960.1	954.8	935.1	913.8	894.1	872.8	853.1
42.5°	885.7	892.6	891.0	890.3	893.3	878.9	863.7	839.4	819.7	797.7	778.0
45°	818.2	817.4	821.2	822.7	822.0	809.8	788.6	766.6	746.8	724.1	707.4
47.5°	746.8	746.1	749.1	750.6	746.1	733.2	716.5	691.4	674.7	655.0	642.1
50°	671.7	671.7	676.3	671.7	669.4	656.5	642.9	617.8	604.9	587.5	579.9
52.5°	596.6	603.4	598.8	597.3	595.0	582.1	571.5	551.0	540.4	532.8	523.7
55°	522.2	529.8	526.7	524.5	523.7	513.1	503.2	488.0	481.2	475.9	470.6
57.5°	459.2	458.4	456.9	454.6	455.4	447.0	437.2	428.8	425.8	423.5	425.0
60°	386.3	392.4	390.1	390.9	391.6	390.1	381.8	376.5	377.2	378.0	380.3
62.5°	326.4	331.7	335.5	332.4	334.0	336.2	331.7	330.2	333.2	336.2	339.3
65°	271.0	276.3	280.1	279.3	283.9	288.4	287.7	289.2	296.0	299.8	303.6
67.5°	220.9	226.2	231.5	232.2	239.1	245.9	248.9	254.3	261.8	267.2	271.7
70°	177.6	182.2	188.2	192.0	201.1	210.2	215.6	226.2	230.7	238.3	241.4
72.5°	138.9	142.7	151.0	160.1	167.7	179.1	189.7	198.9	205.7	214.0	217.8
75°	108.5	110.1	119.2	129.8	140.4	153.3	164.7	174.6	183.7	192.0	198.1
77.5°	79.7	82.0	90.3	104.7	116.9	130.5	143.4	154.1	163.9	172.3	180.6
80°	55.4	60.0	69.1	83.5	97.2	112.3	124.5	136.6	147.2	155.6	163.9
82.5°	35.7	39.5	52.4	66.8	81.2	96.4	109.3	121.4	132.8	141.9	149.5
85°	19.7	25.0	37.9	53.1	67.5	82.7	96.4	108.5	119.9	128.3	135.9
87.5°	7.6	15.2	27.3	41.7	56.2	70.6	85.0	96.4	107.8	116.9	123.7
90°	0.0	9.1	20.5	34.9	49.3	63.8	77.4	89.6	100.2	108.5	116.1
92.5°	0.8	6.1	15.9	28.1	41.7	55.4	68.3	80.5	91.1	99.4	106.3
95°	0.8	4.6	12.9	24.3	36.4	49.3	61.5	72.9	82.7	91.1	97.9
97.5°	0.8	3.0	10.6	21.3	31.9	44.8	56.2	66.8	75.9	84.2	89.6
100°	0.8	3.0	9.1	18.2	28.8	40.2	50.9	61.5	69.8	76.7	82.7
102.5°	0.8	2.3	7.6	15.9	25.8	35.7	46.3	56.2	63.8	70.6	76.7
105°	0.8	2.3	6.8	13.7	22.8	32.6	41.7	50.9	59.2	65.3	70.6
107.5°	0.8	1.5	6.1	11.4	19.7	29.6	38.7	46.3	53.9	60.0	65.3
110°	0.8	1.5	5.3	10.6	17.5	26.6	34.9	42.5	49.3	55.4	60.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.8	1.5	4.6	9.9	15.9	23.5	31.9	38.7	45.5	50.9	55.4
115°	0.8	1.5	4.6	9.1	14.4	20.5	28.1	35.7	41.0	47.1	50.9
117.5°	0.8	1.5	3.8	7.6	13.7	19.0	25.8	31.9	37.9	43.3	47.1
120°	0.8	1.5	3.8	6.8	12.1	17.5	22.8	28.8	34.9	38.7	42.5
122.5°	0.8	1.5	3.0	6.8	10.6	15.9	20.5	25.8	31.1	35.7	39.5
125°	0.8	1.5	3.0	6.1	9.9	14.4	19.0	22.8	28.1	31.9	35.7
127.5°	0.8	1.5	3.0	5.3	9.1	12.9	17.5	21.3	25.0	28.8	31.9
130°	0.8	1.5	2.3	4.6	8.3	11.4	15.2	19.7	22.8	25.8	28.8
132.5°	0.8	1.5	2.3	4.6	6.8	9.9	13.7	17.5	20.5	23.5	25.8
135°	0.8	1.5	2.3	3.8	6.1	9.1	11.4	15.2	18.2	21.3	23.5
137.5°	0.8	1.5	2.3	3.8	5.3	7.6	9.9	12.9	15.9	18.2	21.3
140°	0.8	1.5	2.3	3.0	4.6	6.8	9.1	10.6	13.7	15.9	18.2
142.5°	0.8	1.5	2.3	3.0	4.6	6.1	7.6	9.1	11.4	13.7	15.9
145°	0.8	1.5	2.3	3.0	3.8	5.3	6.8	8.3	9.1	11.4	12.9
147.5°	0.8	1.5	2.3	3.0	3.0	4.6	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	4.6	5.3	6.1	6.8	7.6
155°	0.8	1.5	2.3	2.3	2.3	3.0	3.8	4.6	5.3	6.1	6.8
157.5°	1.5	1.5	1.5	2.3	2.3	3.0	3.0	3.8	4.6	4.6	5.3
160°	1.5	1.5	1.5	2.3	2.3	2.3	3.0	3.0	3.8	3.8	4.6
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8
2.5°	1371.5	1373.8	1380.6	1380.6	1379.1	1377.6	1377.6	1375.3	1376.8	1379.8	1378.3
5°	1371.5	1373.8	1380.6	1380.6	1379.1	1377.6	1376.8	1374.5	1376.8	1379.8	1378.3
7.5°	1366.9	1370.0	1376.8	1376.8	1375.3	1374.5	1373.0	1371.5	1373.8	1376.8	1375.3
10°	1360.9	1363.9	1370.7	1370.7	1369.2	1369.2	1366.9	1365.4	1368.5	1370.7	1370.0
12.5°	1351.8	1355.5	1361.6	1360.9	1359.3	1360.1	1357.8	1354.8	1357.8	1360.1	1360.9
15°	1338.9	1343.4	1349.5	1348.0	1345.7	1347.2	1343.4	1341.1	1343.4	1348.0	1347.2
17.5°	1322.2	1325.2	1329.7	1329.7	1327.5	1325.9	1324.4	1322.2	1323.7	1326.7	1327.5
20°	1298.6	1302.4	1304.7	1302.4	1301.7	1299.4	1296.3	1294.1	1297.1	1301.7	1302.4
22.5°	1267.5	1268.3	1273.6	1268.3	1264.5	1263.7	1260.7	1256.1	1260.7	1264.5	1265.2
25°	1228.8	1232.6	1230.3	1221.2	1221.2	1215.1	1213.6	1211.3	1212.1	1218.9	1222.0
27.5°	1179.5	1181.0	1174.9	1167.3	1160.5	1156.7	1151.4	1152.1	1152.1	1161.2	1164.3
30°	1125.6	1117.2	1111.9	1099.8	1094.5	1085.3	1083.8	1083.8	1082.3	1086.9	1100.5
32.5°	1061.1	1049.7	1041.3	1029.9	1020.8	1011.7	1007.2	1009.5	1008.7	1020.1	1024.6
35°	990.5	983.6	966.2	951.8	946.5	932.8	932.8	926.0	930.5	943.4	948.7
37.5°	916.1	905.5	891.0	875.1	871.3	860.7	856.9	853.1	863.0	865.2	870.6
40°	840.2	830.3	816.7	801.5	801.5	788.6	788.6	788.6	789.3	793.9	803.8
42.5°	768.1	757.5	745.3	734.7	733.2	723.3	723.3	722.6	724.1	727.9	737.0
45°	698.3	689.9	677.0	671.7	672.5	661.8	664.1	661.8	664.9	668.7	671.7
47.5°	633.8	628.4	623.1	615.5	613.3	612.5	608.7	605.7	611.0	611.0	615.5
50°	573.8	570.8	567.7	563.2	563.9	560.9	556.3	556.3	560.1	560.9	563.9
52.5°	521.4	517.6	513.8	514.6	515.4	513.8	511.6	509.3	511.6	513.1	516.9
55°	469.1	466.0	469.8	468.3	469.8	468.3	466.8	465.3	469.1	466.8	470.6
57.5°	422.0	425.0	426.5	423.5	425.8	424.3	425.0	422.8	425.8	427.3	426.5
60°	378.7	383.3	381.0	381.8	384.8	383.3	380.3	382.5	385.6	386.3	385.6
62.5°	339.3	344.6	346.9	345.3	346.1	344.6	346.9	343.8	347.6	349.1	346.9
65°	303.6	309.7	311.2	311.2	311.2	309.7	311.9	312.7	314.2	314.2	312.7
67.5°	273.2	278.5	280.1	281.6	280.1	278.5	278.5	279.3	282.3	283.9	282.3
70°	245.9	251.2	252.0	252.0	252.7	254.3	251.2	252.7	255.0	255.8	255.0
72.5°	222.4	227.7	229.2	228.5	229.2	230.0	230.0	228.5	230.7	232.2	232.2
75°	203.4	206.4	208.0	208.0	208.7	209.5	209.5	208.7	210.2	211.0	211.8
77.5°	186.0	188.2	190.5	190.5	191.3	190.5	192.0	192.0	192.8	193.5	194.3
80°	168.5	171.5	173.0	173.8	175.3	176.1	176.1	176.1	176.8	177.6	177.6
82.5°	154.8	157.1	159.4	161.7	161.7	162.4	162.4	162.4	163.2	163.2	163.9
85°	141.2	144.2	146.5	148.0	148.8	149.5	149.5	150.3	150.3	150.3	151.0
87.5°	129.0	132.8	134.3	135.9	136.6	138.1	138.1	138.1	138.9	138.9	138.9
90°	120.7	124.5	126.0	127.5	128.3	129.0	129.0	129.8	129.8	130.5	130.5
92.5°	110.8	114.6	117.6	117.6	118.4	119.9	119.2	119.2	119.9	120.7	120.7
95°	103.2	106.3	108.5	109.3	110.1	110.1	110.1	110.8	110.1	110.8	110.8
97.5°	94.1	97.2	99.4	100.9	101.7	101.7	101.7	102.5	101.7	102.5	102.5
100°	86.5	89.6	91.8	92.6	94.1	94.1	94.1	94.1	94.1	94.1	94.9
102.5°	80.5	83.5	85.0	85.8	86.5	87.3	87.3	87.3	87.3	88.0	88.0
105°	74.4	77.4	78.9	79.7	80.5	81.2	81.2	81.2	82.0	82.0	81.2
107.5°	69.1	71.3	72.9	74.4	75.1	75.1	75.9	75.9	75.9	75.9	75.9
110°	63.8	66.0	68.3	69.8	69.8	70.6	70.6	71.3	71.3	70.6	71.3

TEST NUMBER: P1214111

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	58.4	61.5	63.0	64.5	65.3	66.0	66.0	66.0	66.0	66.0	66.0
115°	53.9	56.9	58.4	60.0	60.7	61.5	61.5	61.5	61.5	61.5	61.5
117.5°	50.1	53.1	54.6	55.4	56.2	56.9	57.7	57.7	57.7	57.7	56.9
120°	46.3	48.6	50.1	51.6	52.4	53.1	53.1	53.1	53.1	53.1	53.1
122.5°	42.5	44.8	46.3	47.8	48.6	49.3	49.3	49.3	49.3	49.3	49.3
125°	38.7	41.0	42.5	44.0	44.8	45.5	45.5	45.5	45.5	45.5	45.5
127.5°	34.9	37.2	39.5	40.2	41.0	41.7	41.7	41.7	42.5	41.7	41.7
130°	31.1	33.4	35.7	36.4	37.2	37.9	38.7	38.7	38.7	38.7	37.9
132.5°	28.1	30.4	31.9	32.6	34.2	34.2	34.9	34.9	34.9	34.9	34.2
135°	25.8	27.3	28.8	29.6	31.1	31.1	31.1	31.9	31.9	31.1	30.4
137.5°	22.8	24.3	25.8	26.6	27.3	28.1	28.1	28.8	28.1	28.1	28.1
140°	21.3	22.0	23.5	24.3	25.0	25.0	25.0	25.8	25.8	25.0	25.0
142.5°	18.2	19.7	21.3	22.0	22.8	22.8	22.8	22.8	22.8	22.8	22.8
145°	15.2	17.5	18.2	19.7	19.7	20.5	20.5	20.5	20.5	20.5	19.7
147.5°	12.9	14.4	16.7	17.5	17.5	18.2	18.2	18.2	18.2	18.2	17.5
150°	9.9	11.4	13.7	15.2	15.2	15.9	15.9	15.9	15.9	15.2	15.2
152.5°	8.3	9.9	10.6	12.1	12.9	12.9	12.9	13.7	12.9	12.9	12.9
155°	7.6	8.3	9.1	9.9	10.6	11.4	11.4	11.4	11.4	10.6	10.6
157.5°	6.1	6.8	7.6	8.3	9.1	9.9	9.9	9.9	9.9	9.9	9.1
160°	4.6	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: P1214111

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8
2.5°	1376.8	1376.0	1378.3	1374.5	1363.1	1366.2	1364.7	1371.5	1373.0	1374.5	1381.4
5°	1376.8	1376.0	1377.6	1374.5	1362.4	1364.7	1363.1	1370.0	1371.5	1372.2	1379.1
7.5°	1373.8	1373.0	1375.3	1371.5	1358.6	1361.6	1359.3	1366.2	1366.9	1367.7	1373.8
10°	1367.7	1366.9	1368.5	1365.4	1352.5	1355.5	1352.5	1359.3	1359.3	1360.9	1365.4
12.5°	1358.6	1357.1	1360.1	1356.3	1341.9	1345.7	1344.2	1348.7	1349.5	1350.2	1354.8
15°	1345.7	1344.2	1346.4	1344.2	1331.3	1332.0	1329.7	1336.6	1337.3	1335.8	1340.4
17.5°	1326.7	1325.2	1329.7	1328.2	1315.3	1318.4	1317.6	1319.1	1321.4	1317.6	1323.7
20°	1303.2	1304.7	1306.2	1307.0	1297.1	1297.1	1296.3	1299.4	1301.7	1298.6	1303.2
22.5°	1268.3	1272.1	1276.6	1278.1	1271.3	1270.5	1275.1	1273.6	1275.9	1274.3	1277.4
25°	1224.2	1231.8	1236.4	1240.9	1237.1	1238.7	1245.5	1247.0	1247.0	1246.3	1249.3
27.5°	1169.6	1179.5	1187.8	1197.7	1193.9	1196.9	1208.3	1209.8	1212.9	1209.8	1215.9
30°	1104.3	1113.4	1129.4	1143.8	1145.3	1149.9	1165.8	1167.3	1175.7	1172.6	1174.9
32.5°	1039.1	1043.6	1061.8	1076.2	1085.3	1096.7	1114.2	1117.2	1128.6	1130.9	1130.9
35°	957.1	970.0	986.7	1007.2	1018.6	1030.7	1054.2	1058.8	1075.5	1080.8	1086.9
37.5°	888.0	900.2	910.8	932.0	952.5	966.2	985.2	996.5	1014.0	1023.9	1031.5
40°	814.4	824.3	835.6	856.9	874.4	894.8	913.8	927.5	949.5	960.9	970.7
42.5°	744.6	752.2	764.3	779.5	797.7	820.5	838.7	854.6	878.1	894.1	905.5
45°	682.3	686.9	697.5	708.9	724.8	748.4	765.8	786.3	805.3	822.0	835.6
47.5°	623.9	630.0	635.3	642.9	657.3	671.7	692.2	711.9	730.9	749.1	762.8
50°	570.0	570.0	578.3	583.7	593.5	606.4	622.4	636.0	659.6	672.5	689.9
52.5°	517.6	520.7	525.2	528.3	535.8	544.2	557.1	568.5	588.2	600.4	617.1
55°	471.3	474.4	476.6	478.2	482.7	492.6	497.1	506.2	519.9	529.8	544.2
57.5°	427.3	428.8	431.1	431.9	432.6	438.7	442.5	444.8	458.4	468.3	480.4
60°	387.1	387.1	389.4	388.6	387.8	390.9	390.1	392.4	400.7	406.8	412.1
62.5°	349.1	349.1	349.9	348.4	347.6	347.6	344.6	346.9	349.1	349.9	353.7
65°	314.2	318.0	315.0	315.7	311.2	309.7	308.1	303.6	302.8	299.8	301.3
67.5°	283.1	286.1	283.1	283.1	279.3	276.3	272.5	264.9	262.6	256.5	255.0
70°	258.1	255.8	257.3	255.0	250.5	246.7	241.4	235.3	227.7	220.1	214.8
72.5°	233.8	233.8	232.2	230.0	227.7	220.1	214.0	207.2	198.1	188.2	180.6
75°	210.2	211.0	211.0	208.7	204.9	198.1	191.3	181.4	171.5	160.1	150.3
77.5°	193.5	193.5	193.5	189.7	186.0	179.9	171.5	160.9	150.3	136.6	125.2
80°	177.6	176.8	176.8	172.3	168.5	161.7	153.3	142.7	131.3	116.9	104.0
82.5°	164.7	163.9	162.4	158.6	153.3	146.5	138.1	126.8	114.6	101.7	85.8
85°	151.0	150.3	148.8	145.0	139.7	133.6	124.5	113.1	100.9	86.5	71.3
87.5°	138.9	138.1	135.9	133.6	127.5	120.7	111.6	100.9	88.0	74.4	59.2
90°	130.5	129.0	127.5	124.5	119.2	111.6	102.5	91.1	78.2	64.5	49.3
92.5°	120.7	119.9	117.6	114.6	110.1	102.5	93.4	82.7	69.8	56.9	42.5
95°	110.8	110.1	108.5	105.5	100.9	94.1	85.8	75.1	63.0	50.1	37.2
97.5°	101.7	101.7	99.4	97.2	91.8	86.5	78.2	68.3	56.9	45.5	33.4
100°	94.1	94.1	91.8	88.8	85.0	79.7	71.3	62.2	51.6	41.0	28.8
102.5°	87.3	86.5	85.0	82.0	78.2	72.9	65.3	56.9	47.1	36.4	25.8
105°	81.2	80.5	78.9	75.9	72.9	66.8	60.7	52.4	42.5	32.6	22.8
107.5°	75.1	74.4	73.6	70.6	66.8	61.5	55.4	47.1	38.7	29.6	20.5
110°	69.8	69.1	67.5	64.5	60.7	56.2	50.1	43.3	34.9	26.6	18.2

TEST NUMBER: P1214111

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	65.3	64.5	63.0	60.0	56.9	51.6	46.3	38.7	31.9	24.3	15.9
115°	60.7	60.0	58.4	55.4	51.6	47.1	41.7	35.7	28.1	21.3	14.4
117.5°	56.2	55.4	53.9	51.6	47.8	43.3	37.9	31.9	25.0	19.7	12.9
120°	52.4	50.9	49.3	47.1	43.3	39.5	34.2	28.8	22.8	17.5	11.4
122.5°	48.6	47.1	45.5	43.3	39.5	35.7	30.4	25.8	21.3	15.9	10.6
125°	44.0	43.3	41.7	39.5	35.7	31.9	28.1	23.5	19.0	14.4	9.1
127.5°	40.2	39.5	37.9	34.9	31.9	28.8	25.0	21.3	16.7	12.1	8.3
130°	37.2	35.7	34.2	31.9	29.6	26.6	22.8	19.0	15.2	10.6	7.6
132.5°	33.4	31.9	30.4	28.8	26.6	23.5	20.5	16.7	13.7	9.9	6.8
135°	30.4	28.8	27.3	25.8	23.5	21.3	18.2	15.2	12.1	9.1	6.1
137.5°	26.6	25.8	25.0	23.5	21.3	19.0	16.7	12.9	10.6	8.3	5.3
140°	24.3	23.5	22.8	20.5	19.0	16.7	14.4	11.4	9.1	6.8	4.6
142.5°	22.0	21.3	19.7	18.2	16.7	15.2	12.1	10.6	8.3	6.1	4.6
145°	19.0	18.2	17.5	15.9	14.4	12.1	10.6	9.1	7.6	5.3	3.8
147.5°	17.5	16.7	15.2	13.7	12.1	10.6	9.9	8.3	6.1	4.6	3.0
150°	14.4	13.7	12.9	11.4	10.6	9.9	8.3	6.8	5.3	3.8	3.0
152.5°	12.1	11.4	10.6	10.6	9.1	8.3	6.8	6.1	4.6	3.8	2.3
155°	10.6	10.6	9.9	9.1	7.6	6.8	6.1	4.6	3.8	3.0	2.3
157.5°	9.1	8.3	7.6	7.6	6.8	6.1	4.6	3.8	3.0	3.0	2.3
160°	7.6	6.8	6.8	6.1	5.3	4.6	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: P1214111

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8
2.5°	1382.1	1373.8	1381.4	1391.2	1391.2	1389.7	1388.2	1391.2	1398.8	1395.8	1386.7
5°	1379.8	1371.5	1378.3	1388.2	1388.2	1385.9	1384.4	1386.7	1395.0	1391.2	1382.9
7.5°	1375.3	1367.7	1372.2	1381.4	1381.4	1379.1	1377.6	1380.6	1387.4	1383.6	1374.5
10°	1366.9	1358.6	1363.9	1372.2	1371.5	1370.0	1367.7	1371.5	1377.6	1372.2	1361.6
12.5°	1356.3	1348.0	1352.5	1360.1	1359.3	1356.3	1354.8	1357.1	1362.4	1359.3	1348.0
15°	1341.9	1333.5	1337.3	1344.9	1342.6	1340.4	1337.3	1338.1	1344.9	1339.6	1327.5
17.5°	1324.4	1315.3	1318.4	1325.2	1322.9	1320.6	1316.8	1317.6	1325.2	1317.6	1304.7
20°	1303.2	1293.3	1295.6	1303.9	1300.1	1296.3	1292.6	1292.6	1300.1	1291.8	1277.4
22.5°	1280.4	1270.5	1272.1	1278.1	1275.1	1268.3	1264.5	1266.7	1270.5	1259.9	1244.7
25°	1252.3	1239.4	1241.7	1247.8	1245.5	1236.4	1232.6	1234.1	1232.6	1224.2	1208.3
27.5°	1219.7	1206.0	1207.5	1211.3	1208.3	1200.0	1195.4	1196.2	1193.1	1182.5	1164.3
30°	1178.7	1171.9	1171.1	1173.4	1168.8	1160.5	1155.2	1153.7	1152.9	1137.7	1115.7
32.5°	1137.0	1130.9	1127.1	1130.1	1124.8	1116.5	1107.4	1107.4	1099.8	1085.3	1066.4
35°	1094.5	1084.6	1080.8	1083.1	1077.0	1066.4	1058.8	1055.0	1043.6	1025.4	1004.9
37.5°	1039.8	1033.0	1028.4	1030.7	1023.9	1016.3	1001.9	998.1	985.9	960.9	935.1
40°	980.6	975.3	970.7	973.0	965.4	954.0	941.1	935.1	921.4	893.3	872.8
42.5°	916.9	914.6	909.3	917.6	902.4	891.0	878.1	868.3	854.6	824.3	800.7
45°	849.3	854.6	842.5	844.8	834.9	825.0	811.4	796.9	783.3	754.4	727.9
47.5°	778.0	781.8	773.4	774.9	764.3	755.2	743.0	724.8	709.7	684.6	661.1
50°	704.3	702.8	702.8	701.3	693.0	681.6	669.4	652.7	637.5	614.8	595.0
52.5°	626.2	629.2	630.7	634.5	623.9	617.1	598.1	583.7	572.3	548.7	532.0
55°	551.0	561.6	558.6	560.1	548.0	542.7	527.5	516.1	499.4	485.8	475.1
57.5°	482.7	485.0	486.5	488.8	483.5	472.8	460.7	451.6	438.7	427.3	419.7
60°	416.7	416.7	417.4	421.2	415.9	406.8	397.7	390.9	381.8	374.9	370.4
62.5°	354.4	359.8	360.5	357.5	350.7	346.1	340.0	336.2	330.2	327.9	326.4
65°	296.8	296.8	296.8	298.3	294.5	291.5	287.7	286.9	289.2	286.1	287.7
67.5°	248.2	245.9	244.4	245.2	243.6	242.1	241.4	243.6	248.2	248.2	252.0
70°	206.4	201.9	198.9	198.9	198.9	199.6	201.9	206.4	214.0	217.1	222.4
72.5°	172.3	162.4	157.9	157.9	158.6	161.7	168.5	176.8	183.7	189.7	196.6
75°	139.7	129.8	123.0	122.2	123.7	128.3	138.1	145.7	157.1	165.5	173.8
77.5°	113.1	100.9	92.6	91.8	94.1	100.9	113.1	123.0	135.9	145.0	154.1
80°	90.3	76.7	69.8	65.3	69.1	77.4	91.1	103.2	115.4	127.5	138.9
82.5°	72.1	59.2	48.6	44.0	48.6	60.0	72.9	87.3	99.4	112.3	123.7
85°	56.9	43.3	31.1	26.6	31.9	44.0	58.4	72.9	86.5	99.4	110.8
87.5°	44.8	31.1	19.0	12.9	19.7	32.6	46.3	60.7	75.1	88.0	99.4
90°	34.9	22.0	10.6	1.5	11.4	23.5	37.2	50.9	65.3	78.2	89.6
92.5°	29.6	16.7	6.1	0.0	6.8	17.5	30.4	44.0	56.9	69.8	81.2
95°	25.0	13.7	4.6	0.0	4.6	13.7	25.0	37.2	50.1	63.0	74.4
97.5°	21.3	10.6	3.0	0.0	3.0	10.6	20.5	32.6	44.0	56.2	66.8
100°	18.2	9.1	2.3	0.0	2.3	8.3	17.5	28.1	39.5	50.9	60.7
102.5°	15.9	7.6	1.5	0.0	1.5	6.8	14.4	24.3	34.2	44.8	54.6
105°	13.7	6.1	1.5	0.0	0.8	5.3	12.1	21.3	30.4	40.2	49.3
107.5°	12.1	5.3	1.5	0.0	0.8	4.6	10.6	18.2	27.3	35.7	44.0
110°	10.6	4.6	1.5	0.0	0.8	3.0	9.1	15.9	23.5	31.9	40.2

TEST NUMBER: P1214111

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L950-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	13.7	20.5	28.8	35.7
115°	8.3	3.8	0.8	0.0	0.0	1.5	6.1	12.1	18.2	25.8	31.9
117.5°	7.6	3.0	0.8	0.0	0.8	1.5	5.3	10.6	15.9	22.0	28.8
120°	6.8	3.0	0.8	0.0	0.8	0.8	3.8	9.1	13.7	19.7	25.0
122.5°	6.1	3.0	0.8	0.0	0.8	0.8	3.0	7.6	12.1	17.5	22.0
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	17.5
130°	4.6	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	9.9
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	4.6
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: P1214111

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8
2.5°	1383.6	1369.2	1376.8	1374.5	1377.6	1383.6	1382.9	1381.4	1381.4	1379.1	1376.0
5°	1379.1	1365.4	1372.2	1368.5	1372.2	1377.6	1376.8	1374.5	1376.0	1372.2	1368.5
7.5°	1370.0	1357.8	1363.9	1360.9	1363.9	1369.2	1366.9	1366.2	1367.7	1361.6	1359.3
10°	1359.3	1345.7	1352.5	1348.7	1352.5	1356.3	1354.8	1351.8	1354.8	1348.7	1346.4
12.5°	1342.6	1331.3	1335.8	1334.3	1336.6	1340.4	1337.3	1335.1	1336.6	1331.3	1326.7
15°	1324.4	1313.0	1316.8	1314.6	1316.1	1320.6	1315.3	1314.6	1313.0	1307.7	1306.2
17.5°	1300.9	1290.3	1294.1	1290.3	1292.6	1291.0	1290.3	1286.5	1286.5	1280.4	1275.9
20°	1272.1	1263.0	1260.7	1257.6	1260.7	1257.6	1253.1	1250.0	1249.3	1243.2	1239.4
22.5°	1238.7	1228.0	1229.6	1221.2	1222.0	1217.4	1209.8	1206.8	1203.8	1196.9	1191.6
25°	1198.4	1187.8	1180.2	1174.9	1168.1	1167.3	1157.5	1149.9	1149.1	1140.8	1140.0
27.5°	1152.9	1140.8	1134.7	1121.8	1113.4	1106.6	1098.3	1090.7	1086.9	1077.8	1071.7
30°	1100.5	1086.9	1071.7	1062.6	1049.7	1044.4	1029.9	1020.8	1017.8	1007.9	1003.4
32.5°	1041.3	1026.9	1014.8	997.3	982.9	975.3	960.9	951.8	948.0	937.3	931.3
35°	976.8	960.9	946.5	929.8	918.4	905.5	888.0	878.9	870.6	866.8	862.2
37.5°	909.3	891.8	875.1	858.4	848.5	833.4	818.2	812.1	802.2	798.5	793.9
40°	839.4	822.0	806.0	790.1	778.7	765.1	751.4	749.1	738.5	734.7	731.7
42.5°	770.4	752.2	733.9	722.6	714.2	700.5	691.4	689.2	680.1	677.8	677.8
45°	708.1	685.4	670.2	660.3	653.5	642.1	634.5	633.0	625.4	623.9	623.9
47.5°	641.3	620.1	608.7	602.6	596.6	588.2	583.7	583.7	576.1	574.6	573.8
50°	579.1	559.4	551.0	545.0	544.2	538.1	534.3	532.8	532.8	527.5	528.3
52.5°	519.9	510.0	503.2	499.4	494.9	491.1	488.0	488.0	485.8	482.0	483.5
55°	465.3	453.9	454.6	451.6	449.3	447.0	447.8	443.2	442.5	439.5	441.7
57.5°	410.6	410.6	409.1	406.8	403.0	404.5	404.5	404.5	400.7	398.5	400.7
60°	364.3	366.6	362.8	365.1	363.6	364.3	362.8	362.8	360.5	359.8	360.5
62.5°	323.3	327.1	325.6	328.6	327.1	327.9	329.4	326.4	324.8	323.3	324.8
65°	286.9	291.5	290.7	293.0	293.7	294.5	295.2	293.7	292.2	290.7	289.9
67.5°	255.0	259.6	262.6	263.4	264.1	266.4	265.6	264.1	262.6	260.3	259.6
70°	226.2	232.2	236.0	237.6	240.6	239.1	239.1	238.3	236.8	234.5	233.8
72.5°	201.9	208.7	212.5	214.0	217.1	217.1	216.3	215.6	214.0	211.8	211.0
75°	180.6	186.7	192.0	195.1	197.3	197.3	196.6	195.8	194.3	192.8	192.0
77.5°	163.9	169.3	173.8	177.6	179.1	179.9	179.1	177.6	177.6	176.8	176.1
80°	147.2	153.3	157.9	161.7	163.9	163.9	163.2	163.9	162.4	161.7	160.9
82.5°	132.8	139.7	145.0	148.8	150.3	151.0	150.3	151.0	149.5	149.5	149.5
85°	119.9	126.8	132.8	135.9	138.1	138.9	138.9	138.9	138.1	138.1	138.1
87.5°	109.3	116.1	122.2	125.2	127.5	128.3	128.3	129.0	127.5	127.5	127.5
90°	99.4	106.3	112.3	115.4	117.6	119.2	119.2	119.9	119.2	118.4	118.4
92.5°	90.3	97.9	104.0	107.0	109.3	111.6	111.6	112.3	110.8	110.8	110.8
95°	82.7	90.3	95.6	99.4	101.7	103.2	104.0	104.0	103.2	103.2	103.2
97.5°	75.9	82.7	88.0	91.8	94.1	94.9	95.6	96.4	95.6	95.6	95.6
100°	69.1	75.9	81.2	84.2	87.3	88.0	88.8	89.6	89.6	88.8	88.8
102.5°	63.0	69.8	74.4	78.2	80.5	82.0	82.7	82.7	82.7	82.7	82.7
105°	56.9	63.8	68.3	72.1	74.4	75.9	76.7	77.4	77.4	76.7	76.7
107.5°	51.6	57.7	63.0	66.0	69.1	70.6	71.3	71.3	72.1	71.3	71.3
110°	46.3	53.1	57.7	60.7	63.8	65.3	66.0	66.8	66.8	66.8	66.8

TEST NUMBER: P1214111

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	42.5	47.8	52.4	55.4	58.4	60.0	60.7	61.5	62.2	61.5	61.5
115°	37.9	43.3	47.8	50.9	53.1	54.6	56.2	56.9	56.9	57.7	56.9
117.5°	34.2	38.7	43.3	46.3	48.6	50.9	51.6	52.4	53.1	52.4	52.4
120°	30.4	34.9	38.7	41.7	44.0	46.3	47.1	47.8	48.6	47.8	47.8
122.5°	27.3	31.1	34.9	37.9	40.2	41.7	43.3	43.3	44.0	44.0	44.0
125°	24.3	28.1	31.1	34.2	36.4	37.9	38.7	39.5	39.5	40.2	40.2
127.5°	21.3	24.3	28.1	30.4	32.6	34.2	34.9	35.7	35.7	36.4	36.4
130°	18.2	21.3	24.3	26.6	28.8	30.4	31.1	31.9	32.6	32.6	32.6
132.5°	15.9	19.0	21.3	23.5	25.0	26.6	28.1	28.8	28.8	28.8	28.8
135°	12.9	15.9	18.2	20.5	22.0	23.5	24.3	25.8	25.8	25.8	25.8
137.5°	10.6	13.7	15.9	17.5	19.0	20.5	21.3	22.0	22.8	22.8	22.8
140°	8.3	10.6	12.9	15.2	16.7	17.5	19.0	19.0	19.7	19.7	19.7
142.5°	6.1	8.3	9.9	12.1	13.7	15.2	15.9	16.7	16.7	16.7	16.7
145°	4.6	6.1	7.6	9.1	11.4	12.1	12.9	13.7	14.4	14.4	14.4
147.5°	3.0	4.6	5.3	6.8	8.3	9.9	10.6	11.4	12.1	12.1	12.1
150°	2.3	3.0	4.6	5.3	6.1	7.6	9.1	9.1	9.9	9.9	9.1
152.5°	1.5	2.3	3.0	3.8	4.6	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	4.6	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: P1214111

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8
2.5°	1378.3	1379.8	1379.8	1378.3	1377.6	1380.6	1376.8	1362.4	1366.9	1368.5	1373.0
5°	1371.5	1373.0	1373.0	1373.0	1371.5	1374.5	1370.7	1356.3	1361.6	1363.9	1366.9
7.5°	1361.6	1362.4	1363.9	1363.1	1361.6	1366.2	1362.4	1348.0	1351.8	1355.5	1359.3
10°	1348.7	1348.7	1349.5	1351.0	1349.5	1353.3	1349.5	1336.6	1340.4	1342.6	1347.2
12.5°	1331.3	1332.8	1333.5	1332.8	1332.0	1335.1	1333.5	1321.4	1322.9	1327.5	1332.0
15°	1307.7	1307.7	1311.5	1310.0	1310.0	1313.0	1314.6	1300.9	1303.2	1310.0	1314.6
17.5°	1278.9	1279.6	1282.7	1284.2	1283.4	1288.8	1289.5	1278.9	1278.1	1286.5	1291.0
20°	1241.7	1243.2	1247.0	1250.0	1250.0	1256.1	1258.4	1251.6	1252.3	1261.4	1263.0
22.5°	1196.2	1196.2	1203.0	1207.5	1211.3	1215.1	1222.0	1215.9	1215.9	1228.0	1234.9
25°	1140.0	1145.3	1147.6	1156.7	1162.0	1172.6	1178.7	1179.5	1180.2	1191.6	1196.2
27.5°	1077.8	1079.3	1086.1	1096.7	1102.8	1112.7	1124.1	1126.3	1130.1	1145.3	1152.1
30°	1007.2	1011.7	1014.8	1029.9	1038.3	1051.2	1065.6	1070.9	1074.0	1094.5	1102.8
32.5°	935.1	936.6	949.5	957.8	967.7	981.4	998.1	1007.9	1014.0	1035.3	1047.4
35°	863.0	866.0	876.6	887.3	897.1	910.8	928.2	941.9	952.5	971.5	987.4
37.5°	796.9	804.5	806.8	817.4	825.0	838.7	850.8	870.6	881.2	900.9	921.4
40°	737.7	740.0	741.5	752.2	757.5	770.4	787.8	800.7	815.2	829.6	853.9
42.5°	679.3	680.8	683.1	689.2	695.2	704.3	717.2	730.1	745.3	766.6	782.5
45°	625.4	626.9	628.4	632.2	637.5	645.9	654.2	663.4	678.5	696.7	713.4
47.5°	575.3	578.3	578.3	579.1	582.9	589.7	595.8	607.2	615.5	625.4	644.4
50°	527.5	529.8	530.5	530.5	532.8	537.4	538.9	546.5	554.1	563.2	576.8
52.5°	482.7	482.7	482.0	485.0	485.0	488.0	488.8	493.3	498.7	508.5	514.6
55°	440.2	440.2	442.5	441.0	441.0	442.5	441.7	442.5	447.0	453.1	458.4
57.5°	399.2	398.5	400.7	399.2	398.5	400.0	401.5	398.5	399.2	405.3	405.3
60°	358.2	359.0	361.3	359.8	359.8	359.8	358.2	356.7	355.2	359.0	360.5
62.5°	325.6	323.3	325.6	323.3	324.8	324.1	322.6	319.5	320.3	318.8	317.3
65°	291.5	291.5	292.2	289.9	291.5	291.5	289.2	288.4	283.9	282.3	278.5
67.5°	261.8	261.8	262.6	261.1	261.1	261.8	259.6	257.3	252.7	250.5	245.2
70°	236.0	236.0	236.0	235.3	235.3	235.3	233.8	230.7	226.2	222.4	215.6
72.5°	212.5	213.3	212.5	212.5	214.8	212.5	210.2	207.2	203.4	195.8	189.7
75°	193.5	194.3	193.5	193.5	193.5	192.8	192.0	187.5	182.9	176.8	167.7
77.5°	176.8	176.8	177.6	176.8	176.8	176.1	173.8	170.0	164.7	159.4	148.8
80°	160.9	161.7	162.4	163.2	161.7	160.9	158.6	155.6	148.8	142.7	132.1
82.5°	149.5	148.8	149.5	150.3	148.8	148.0	145.7	141.9	136.6	128.3	117.6
85°	138.1	137.4	137.4	138.1	137.4	135.9	133.6	129.8	124.5	116.1	105.5
87.5°	126.8	127.5	128.3	127.5	126.8	125.2	123.0	119.2	113.1	106.3	94.9
90°	118.4	118.4	118.4	118.4	117.6	116.1	113.8	109.3	104.0	95.6	85.8
92.5°	110.8	110.8	110.8	110.8	110.1	107.8	105.5	101.7	95.6	87.3	78.2
95°	103.2	104.0	103.2	103.2	101.7	100.9	97.2	93.4	88.0	79.7	69.8
97.5°	94.9	95.6	94.9	94.9	94.1	92.6	90.3	85.8	80.5	72.9	63.8
100°	88.8	88.8	88.0	88.0	87.3	85.8	82.7	78.9	73.6	66.0	56.9
102.5°	82.0	82.7	82.0	82.0	80.5	78.9	76.7	72.9	67.5	60.0	51.6
105°	76.7	76.7	75.9	75.9	74.4	72.9	70.6	66.0	61.5	54.6	46.3
107.5°	71.3	71.3	70.6	70.6	69.1	67.5	64.5	60.7	56.2	49.3	41.7
110°	66.0	66.0	66.0	65.3	63.8	61.5	59.2	55.4	50.9	44.8	37.2

TEST NUMBER: P1214111

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	62.2	61.5	60.7	60.0	58.4	56.9	53.9	50.1	45.5	40.2	33.4
115°	56.9	56.9	56.2	55.4	53.9	51.6	49.3	46.3	41.7	35.7	29.6
117.5°	52.4	52.4	51.6	50.9	49.3	47.1	44.8	41.7	37.2	31.9	26.6
120°	47.8	47.8	47.1	46.3	44.8	42.5	41.0	37.2	33.4	28.1	23.5
122.5°	44.0	43.3	43.3	41.7	41.0	38.7	36.4	33.4	29.6	25.0	20.5
125°	39.5	39.5	38.7	37.9	37.2	34.9	32.6	29.6	25.8	22.0	18.2
127.5°	35.7	35.7	34.9	34.2	33.4	31.1	28.8	26.6	22.8	19.0	15.2
130°	31.9	31.9	31.1	30.4	29.6	27.3	25.8	22.8	19.7	16.7	12.9
132.5°	28.8	28.8	28.1	27.3	25.8	24.3	22.8	19.7	17.5	14.4	11.4
135°	25.8	25.0	25.0	24.3	22.8	21.3	19.7	17.5	14.4	12.1	9.1
137.5°	22.8	22.0	21.3	20.5	19.7	18.2	16.7	15.2	12.9	9.9	7.6
140°	19.7	19.0	19.0	18.2	16.7	15.9	14.4	12.1	10.6	8.3	6.1
142.5°	16.7	16.7	15.9	15.2	14.4	13.7	12.1	10.6	8.3	6.8	4.6
145°	14.4	13.7	13.7	12.9	12.1	10.6	9.9	8.3	6.8	5.3	3.8
147.5°	11.4	11.4	11.4	10.6	9.9	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	4.6	3.8	2.3	1.5	1.5
155°	5.3	5.3	5.3	4.6	4.6	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: P1214111

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8
2.5°	1370.7	1370.0	1376.0	1376.0	1369.2	1379.8	1391.2
5°	1366.2	1365.4	1371.5	1371.5	1365.4	1376.0	1388.2
7.5°	1357.1	1357.8	1363.9	1365.4	1357.8	1367.7	1380.6
10°	1347.2	1346.4	1353.3	1354.8	1348.7	1357.8	1370.0
12.5°	1331.3	1331.3	1338.1	1340.4	1334.3	1344.9	1356.3
15°	1314.6	1314.6	1319.1	1322.9	1317.6	1327.5	1338.9
17.5°	1293.3	1292.6	1297.1	1301.7	1296.3	1307.0	1319.1
20°	1266.0	1266.0	1271.3	1276.6	1272.8	1282.7	1296.3
22.5°	1237.1	1234.1	1243.2	1247.0	1244.7	1254.6	1268.3
25°	1200.7	1200.0	1209.1	1214.4	1211.3	1222.0	1234.1
27.5°	1161.2	1160.5	1169.6	1176.4	1174.9	1184.8	1198.4
30°	1113.4	1117.2	1125.6	1137.0	1133.2	1143.8	1158.2
32.5°	1063.3	1067.1	1077.0	1089.1	1089.9	1098.3	1112.7
35°	1003.4	1013.2	1020.1	1036.0	1039.1	1047.4	1062.6
37.5°	940.4	951.8	966.2	978.3	984.4	991.2	1008.7
40°	869.8	886.5	902.4	916.9	924.4	931.3	948.0
42.5°	806.0	818.9	834.1	848.5	862.2	868.3	885.7
45°	733.9	749.1	762.8	780.2	793.9	800.7	818.2
47.5°	663.4	678.5	696.7	708.9	723.3	730.1	746.8
50°	595.8	609.5	624.6	639.1	651.2	657.3	671.7
52.5°	529.0	543.4	557.9	567.0	579.9	584.4	596.6
55°	469.8	479.7	492.6	497.9	510.8	513.8	522.2
57.5°	412.9	419.7	424.3	433.4	442.5	449.3	459.2
60°	361.3	364.3	367.3	372.7	380.3	382.5	386.3
62.5°	315.0	314.2	320.3	321.8	322.6	330.2	326.4
65°	274.0	274.8	269.4	267.2	270.2	272.5	271.0
67.5°	239.8	235.3	230.7	225.4	220.9	223.1	220.9
70°	206.4	202.6	195.1	187.5	184.4	179.9	177.6
72.5°	179.9	170.8	163.2	153.3	148.0	142.7	138.9
75°	159.4	146.5	135.9	125.2	117.6	110.1	108.5
77.5°	138.1	126.0	113.8	102.5	91.1	82.7	79.7
80°	121.4	110.1	95.6	82.0	69.8	59.2	55.4
82.5°	106.3	94.1	79.7	65.3	51.6	40.2	35.7
85°	93.4	80.5	66.0	51.6	37.9	25.8	19.7
87.5°	83.5	69.1	54.6	41.0	26.6	14.4	7.6
90°	74.4	60.7	47.1	32.6	19.0	7.6	0.0
92.5°	66.0	53.1	39.5	26.6	14.4	4.6	0.8
95°	58.4	47.1	33.4	21.3	10.6	3.0	0.8
97.5°	52.4	41.0	28.8	17.5	8.3	2.3	0.8
100°	47.1	35.7	25.0	14.4	6.8	1.5	0.8
102.5°	41.7	31.9	21.3	12.1	5.3	0.8	0.8
105°	37.2	28.1	18.2	10.6	4.6	0.8	0.8
107.5°	33.4	25.0	15.9	9.1	3.0	0.8	0.8
110°	29.6	21.3	13.7	7.6	2.3	0.8	0.8

TEST NUMBER: P1214111

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	26.6	19.0	12.1	6.1	1.5	0.8	0.8
115°	23.5	16.7	10.6	5.3	1.5	0.8	0.8
117.5°	20.5	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°	13.7	9.1	5.3	1.5	0.8	0.8	0.8
127.5°	11.4	7.6	3.8	1.5	0.8	0.8	0.8
130°	9.9	6.1	3.0	0.8	0.8	0.8	0.8
132.5°	8.3	4.6	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)