

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **4SNLED-LD5-41SL-LN-UNV-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33519)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

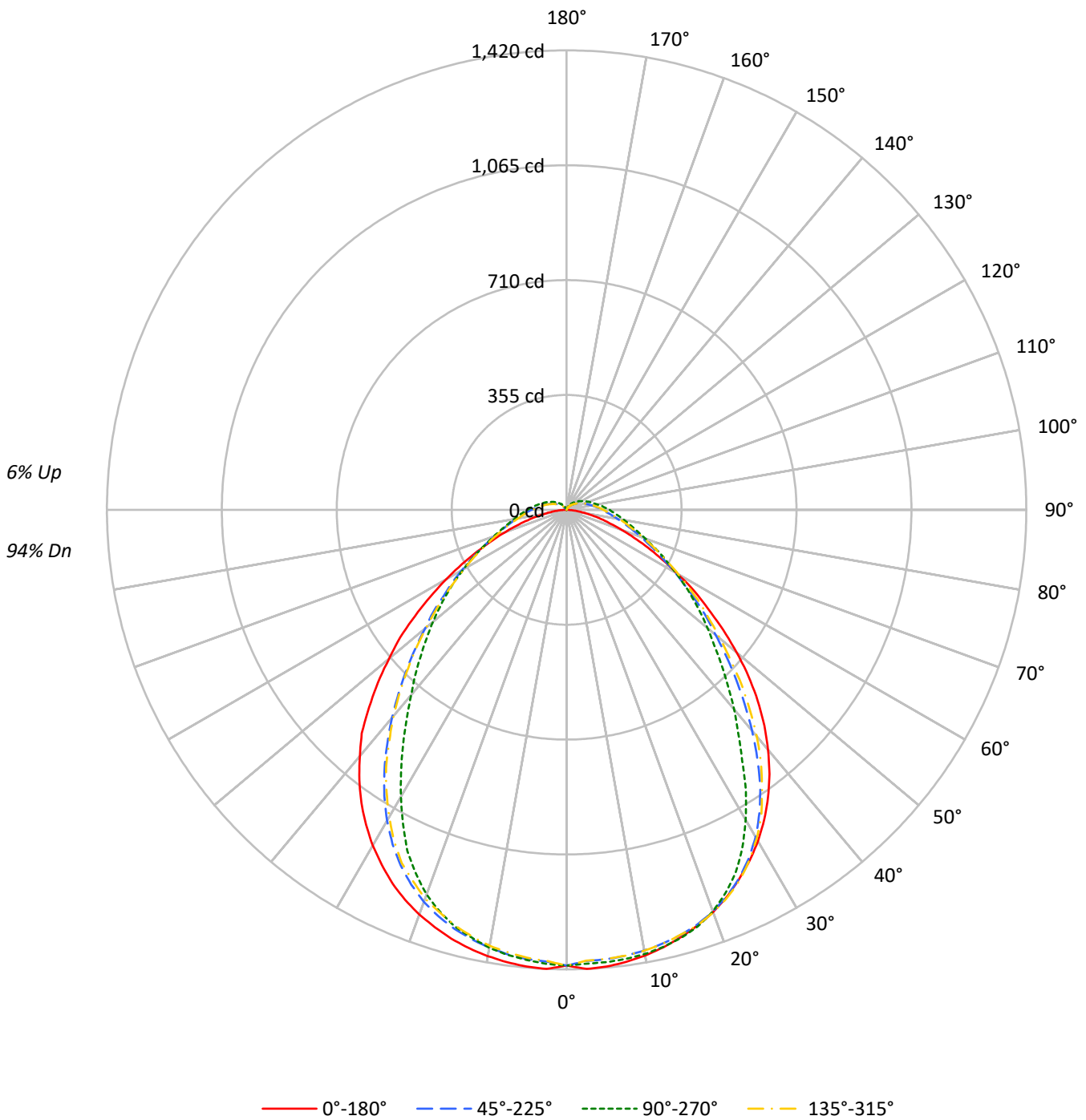
Lumens per Lamp: N/A  
Luminaire Lumens: 3564.0 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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: 25 FT



TEST NUMBER: P#  
CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81	79				
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69	67				
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60	57				
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52	50				
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46	44				
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41	39				
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35				
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33	31				
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30	28				
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27	26				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	11380	11380	11380	11380
5°	11462	11018	11462	10970
10°	11410	10726	11429	10576
15°	11337	10405	11389	10134
20°	11250	9993	11316	9571
25°	11070	9381	11192	8829
30°	10835	8484	10977	7854
35°	10470	7383	10671	6874
40°	9945	6456	10209	5990
45°	9255	5613	9555	5290
50°	8310	4932	8676	4683
55°	7187	4356	7710	4135
60°	6045	3824	6591	3604
65°	4955	3380	5455	3135
70°	3945	3001	4417	2775
75°	3098	2770	3487	2549
80°	2233	2673	2633	2442
85°	1373	2688	1851	2471



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.5	3.7
10°-20°	382.8	10.7
20°-30°	567.4	15.9
30°-40°	630.4	17.7
40°-50°	571.4	16.0
50°-60°	442.8	12.4
60°-70°	300.7	8.4
70°-80°	191.3	5.4
80°-90°	122.3	3.4
90°-100°	82.5	2.3
100°-110°	56.5	1.6
110°-120°	37.7	1.1
120°-130°	23.4	0.7
130°-140°	13.0	0.4
140°-150°	6.1	0.2
150°-160°	2.2	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1083.7	30.4
0°-40°	1714.1	48.1
0°-60°	2728.3	76.6
0°-90°	3342.5	93.8
90°-120°	176.6	5.0
90°-150°	219.1	6.1
90°-180°	221.0	6.2
0°-180°	3564.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1408	1408	1408	1408	1408	
5°	1417	1403	1417	1397	1417	135
15°	1366	1369	1373	1333	1366	386
25°	1260	1236	1274	1164	1260	580
35°	1084	945	1105	880	1084	677
45°	835	676	862	637	835	641
55°	533	475	572	451	533	480
65°	276	319	304	296	276	277
75°	111	213	125	196	111	119
85°	20	153	27	141	20	24
90°	0	132	2	121	0	1
95°	1	113	0	105	1	1
105°	1	83	0	78	1	1
115°	1	63	0	58	1	1
125°	1	46	1	41	1	1
135°	1	32	1	26	1	1
145°	1	21	1	15	1	1
155°	1	12	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: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3
2.5°	1419.9	1418.4	1416.8	1414.5	1416.8	1423.0	1419.1	1410.6	1409.1	1395.1	1401.3
5°	1416.8	1414.5	1412.9	1410.6	1413.7	1421.5	1417.6	1409.8	1407.5	1394.3	1401.3
7.5°	1409.1	1407.5	1405.2	1405.2	1408.3	1416.0	1412.9	1404.4	1402.9	1389.7	1397.4
10°	1398.2	1397.4	1395.9	1395.9	1399.0	1408.3	1404.4	1396.7	1395.1	1382.7	1391.2
12.5°	1384.3	1385.0	1382.7	1382.7	1387.4	1396.7	1393.6	1385.0	1383.5	1372.7	1381.2
15°	1366.5	1367.2	1365.7	1366.5	1371.1	1381.9	1378.1	1370.3	1368.8	1360.3	1367.2
17.5°	1346.3	1347.1	1347.1	1346.3	1351.7	1362.6	1359.5	1352.5	1350.2	1343.2	1351.7
20°	1323.1	1323.1	1323.1	1323.1	1329.3	1340.1	1336.2	1330.8	1326.2	1320.8	1327.7
22.5°	1294.4	1293.6	1294.4	1296.7	1302.9	1311.5	1309.1	1302.9	1296.0	1292.9	1298.3
25°	1259.6	1261.9	1262.7	1265.0	1272.7	1279.7	1277.4	1271.2	1260.3	1258.0	1259.6
27.5°	1223.1	1224.7	1227.0	1226.2	1237.1	1244.1	1239.4	1234.0	1218.5	1216.2	1214.6
30°	1182.1	1184.4	1186.0	1185.2	1193.7	1201.5	1196.8	1189.8	1168.9	1167.4	1155.0
32.5°	1135.6	1137.9	1139.5	1139.5	1151.9	1155.0	1146.5	1136.4	1113.9	1108.5	1097.7
35°	1084.5	1086.8	1087.6	1087.6	1100.0	1099.2	1088.4	1074.4	1049.6	1042.7	1024.1
37.5°	1029.5	1031.0	1031.8	1036.5	1041.9	1037.2	1023.3	1005.5	986.9	967.5	947.4
40°	967.5	969.8	971.4	974.5	979.9	974.5	954.3	932.7	912.5	890.8	870.7
42.5°	904.0	911.0	909.4	908.6	911.7	897.0	881.5	856.7	836.6	814.1	794.0
45°	835.1	834.3	838.2	839.7	838.9	826.5	804.8	782.4	762.2	739.0	722.0
47.5°	762.2	761.5	764.6	766.1	761.5	748.3	731.3	705.7	688.7	668.5	655.3
50°	685.6	685.6	690.2	685.6	683.2	670.1	656.1	630.6	617.4	599.6	591.8
52.5°	608.9	615.8	611.2	609.6	607.3	594.1	583.3	562.4	551.5	543.8	534.5
55°	532.9	540.7	537.6	535.3	534.5	523.7	513.6	498.1	491.1	485.7	480.3
57.5°	468.7	467.9	466.3	464.0	464.8	456.3	446.2	437.7	434.6	432.2	433.8
60°	394.3	400.5	398.2	398.9	399.7	398.2	389.6	384.2	385.0	385.8	388.1
62.5°	333.1	338.5	342.4	339.3	340.8	343.2	338.5	337.0	340.1	343.2	346.3
65°	276.5	282.0	285.8	285.1	289.7	294.4	293.6	295.1	302.1	306.0	309.9
67.5°	225.4	230.8	236.3	237.0	244.0	251.0	254.1	259.5	267.2	272.7	277.3
70°	181.3	185.9	192.1	196.0	205.3	214.6	220.0	230.8	235.5	243.2	246.3
72.5°	141.8	145.6	154.2	163.4	171.2	182.8	193.7	203.0	209.9	218.4	222.3
75°	110.8	112.3	121.6	132.5	143.3	156.5	168.1	178.2	187.5	196.0	202.2
77.5°	81.3	83.7	92.2	106.9	119.3	133.2	146.4	157.3	167.3	175.8	184.4
80°	56.5	61.2	70.5	85.2	99.2	114.6	127.0	139.4	150.3	158.8	167.3
82.5°	36.4	40.3	53.4	68.2	82.9	98.4	111.5	123.9	135.6	144.9	152.6
85°	20.1	25.6	38.7	54.2	68.9	84.4	98.4	110.8	122.4	130.9	138.7
87.5°	7.7	15.5	27.9	42.6	57.3	72.0	86.8	98.4	110.0	119.3	126.3
90°	0.0	9.3	20.9	35.6	50.4	65.1	79.0	91.4	102.3	110.8	118.5
92.5°	0.8	6.2	16.3	28.7	42.6	56.5	69.7	82.1	93.0	101.5	108.4
95°	0.8	4.6	13.2	24.8	37.2	50.4	62.7	74.4	84.4	93.0	99.9
97.5°	0.8	3.1	10.8	21.7	32.5	45.7	57.3	68.2	77.5	86.0	91.4
100°	0.8	3.1	9.3	18.6	29.4	41.1	51.9	62.7	71.3	78.2	84.4
102.5°	0.8	2.3	7.7	16.3	26.3	36.4	47.3	57.3	65.1	72.0	78.2
105°	0.8	2.3	7.0	13.9	23.2	33.3	42.6	51.9	60.4	66.6	72.0
107.5°	0.8	1.5	6.2	11.6	20.1	30.2	39.5	47.3	55.0	61.2	66.6
110°	0.8	1.5	5.4	10.8	17.8	27.1	35.6	43.4	50.4	56.5	61.2



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.8	1.5	4.6	10.1	16.3	24.0	32.5	39.5	46.5	51.9	56.5
115°	0.8	1.5	4.6	9.3	14.7	20.9	28.7	36.4	41.8	48.0	51.9
117.5°	0.8	1.5	3.9	7.7	13.9	19.4	26.3	32.5	38.7	44.2	48.0
120°	0.8	1.5	3.9	7.0	12.4	17.8	23.2	29.4	35.6	39.5	43.4
122.5°	0.8	1.5	3.1	7.0	10.8	16.3	20.9	26.3	31.8	36.4	40.3
125°	0.8	1.5	3.1	6.2	10.1	14.7	19.4	23.2	28.7	32.5	36.4
127.5°	0.8	1.5	3.1	5.4	9.3	13.2	17.8	21.7	25.6	29.4	32.5
130°	0.8	1.5	2.3	4.6	8.5	11.6	15.5	20.1	23.2	26.3	29.4
132.5°	0.8	1.5	2.3	4.6	7.0	10.1	13.9	17.8	20.9	24.0	26.3
135°	0.8	1.5	2.3	3.9	6.2	9.3	11.6	15.5	18.6	21.7	24.0
137.5°	0.8	1.5	2.3	3.9	5.4	7.7	10.1	13.2	16.3	18.6	21.7
140°	0.8	1.5	2.3	3.1	4.6	7.0	9.3	10.8	13.9	16.3	18.6
142.5°	0.8	1.5	2.3	3.1	4.6	6.2	7.7	9.3	11.6	13.9	16.3
145°	0.8	1.5	2.3	3.1	3.9	5.4	7.0	8.5	9.3	11.6	13.2
147.5°	0.8	1.5	2.3	3.1	3.1	4.6	6.2	7.0	8.5	9.3	10.8
150°	0.8	1.5	2.3	2.3	3.1	3.9	5.4	6.2	7.0	8.5	9.3
152.5°	0.8	1.5	2.3	2.3	3.1	3.9	4.6	5.4	6.2	7.0	7.7
155°	0.8	1.5	2.3	2.3	2.3	3.1	3.9	4.6	5.4	6.2	7.0
157.5°	1.5	1.5	1.5	2.3	2.3	3.1	3.1	3.9	4.6	4.6	5.4
160°	1.5	1.5	1.5	2.3	2.3	2.3	3.1	3.1	3.9	3.9	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



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3
2.5°	1399.8	1402.1	1409.1	1409.1	1407.5	1406.0	1406.0	1403.6	1405.2	1408.3	1406.7
5°	1399.8	1402.1	1409.1	1409.1	1407.5	1406.0	1405.2	1402.9	1405.2	1408.3	1406.7
7.5°	1395.1	1398.2	1405.2	1405.2	1403.6	1402.9	1401.3	1399.8	1402.1	1405.2	1403.6
10°	1388.9	1392.0	1399.0	1399.0	1397.4	1397.4	1395.1	1393.6	1396.7	1399.0	1398.2
12.5°	1379.6	1383.5	1389.7	1388.9	1387.4	1388.1	1385.8	1382.7	1385.8	1388.1	1388.9
15°	1366.5	1371.1	1377.3	1375.8	1373.4	1375.0	1371.1	1368.8	1371.1	1375.8	1375.0
17.5°	1349.4	1352.5	1357.2	1357.2	1354.8	1353.3	1351.7	1349.4	1351.0	1354.1	1354.8
20°	1325.4	1329.3	1331.6	1329.3	1328.5	1326.2	1323.1	1320.8	1323.9	1328.5	1329.3
22.5°	1293.6	1294.4	1299.8	1294.4	1290.5	1289.8	1286.7	1282.0	1286.7	1290.5	1291.3
25°	1254.1	1258.0	1255.7	1246.4	1246.4	1240.2	1238.6	1236.3	1237.1	1244.1	1247.2
27.5°	1203.8	1205.3	1199.1	1191.4	1184.4	1180.5	1175.1	1175.9	1175.9	1185.2	1188.3
30°	1148.8	1140.3	1134.8	1122.4	1117.0	1107.7	1106.2	1106.2	1104.6	1109.3	1123.2
32.5°	1082.9	1071.3	1062.8	1051.2	1041.9	1032.6	1027.9	1030.3	1029.5	1041.1	1045.8
35°	1010.9	1003.9	986.1	971.4	966.0	952.0	952.0	945.1	949.7	962.9	968.3
37.5°	935.0	924.1	909.4	893.2	889.3	878.4	874.6	870.7	880.8	883.1	888.5
40°	857.5	847.5	833.5	818.0	818.0	804.8	804.8	804.8	805.6	810.3	820.3
42.5°	783.9	773.1	760.7	749.8	748.3	738.2	738.2	737.5	739.0	742.9	752.2
45°	712.7	704.1	691.0	685.6	686.3	675.5	677.8	675.5	678.6	682.5	685.6
47.5°	646.8	641.4	636.0	628.2	625.9	625.1	621.3	618.2	623.6	623.6	628.2
50°	585.6	582.5	579.4	574.8	575.6	572.5	567.8	567.8	571.7	572.5	575.6
52.5°	532.2	528.3	524.4	525.2	526.0	524.4	522.1	519.8	522.1	523.7	527.5
55°	478.7	475.6	479.5	477.9	479.5	477.9	476.4	474.9	478.7	476.4	480.3
57.5°	430.7	433.8	435.3	432.2	434.6	433.0	433.8	431.5	434.6	436.1	435.3
60°	386.5	391.2	388.9	389.6	392.7	391.2	388.1	390.4	393.5	394.3	393.5
62.5°	346.3	351.7	354.0	352.5	353.2	351.7	354.0	350.9	354.8	356.3	354.0
65°	309.9	316.1	317.6	317.6	317.6	316.1	318.4	319.1	320.7	320.7	319.1
67.5°	278.9	284.3	285.8	287.4	285.8	284.3	284.3	285.1	288.2	289.7	288.2
70°	251.0	256.4	257.2	257.2	258.0	259.5	256.4	258.0	260.3	261.1	260.3
72.5°	227.0	232.4	233.9	233.2	233.9	234.7	234.7	233.2	235.5	237.0	237.0
75°	207.6	210.7	212.2	212.2	213.0	213.8	213.8	213.0	214.6	215.3	216.1
77.5°	189.8	192.1	194.4	194.4	195.2	194.4	196.0	196.0	196.8	197.5	198.3
80°	172.0	175.1	176.6	177.4	178.9	179.7	179.7	179.7	180.5	181.3	181.3
82.5°	158.0	160.3	162.7	165.0	165.0	165.8	165.8	165.8	166.5	166.5	167.3
85°	144.1	147.2	149.5	151.1	151.8	152.6	152.6	153.4	153.4	153.4	154.2
87.5°	131.7	135.6	137.1	138.7	139.4	141.0	141.0	141.0	141.8	141.8	141.8
90°	123.2	127.0	128.6	130.1	130.9	131.7	131.7	132.5	132.5	133.2	133.2
92.5°	113.1	117.0	120.1	120.1	120.8	122.4	121.6	121.6	122.4	123.2	123.2
95°	105.4	108.4	110.8	111.5	112.3	112.3	112.3	113.1	112.3	113.1	113.1
97.5°	96.1	99.2	101.5	103.0	103.8	103.8	103.8	104.6	103.8	104.6	104.6
100°	88.3	91.4	93.7	94.5	96.1	96.1	96.1	96.1	96.1	96.1	96.8
102.5°	82.1	85.2	86.8	87.5	88.3	89.1	89.1	89.1	89.1	89.9	89.9
105°	75.9	79.0	80.6	81.3	82.1	82.9	82.9	82.9	83.7	83.7	82.9
107.5°	70.5	72.8	74.4	75.9	76.7	76.7	77.5	77.5	77.5	77.5	77.5
110°	65.1	67.4	69.7	71.3	71.3	72.0	72.0	72.8	72.8	72.0	72.8





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	59.6	62.7	64.3	65.8	66.6	67.4	67.4	67.4	67.4	67.4	67.4
115°	55.0	58.1	59.6	61.2	62.0	62.7	62.7	62.7	62.7	62.7	62.7
117.5°	51.1	54.2	55.8	56.5	57.3	58.1	58.9	58.9	58.9	58.9	58.1
120°	47.3	49.6	51.1	52.7	53.4	54.2	54.2	54.2	54.2	54.2	54.2
122.5°	43.4	45.7	47.3	48.8	49.6	50.4	50.4	50.4	50.4	50.4	50.4
125°	39.5	41.8	43.4	44.9	45.7	46.5	46.5	46.5	46.5	46.5	46.5
127.5°	35.6	38.0	40.3	41.1	41.8	42.6	42.6	42.6	43.4	42.6	42.6
130°	31.8	34.1	36.4	37.2	38.0	38.7	39.5	39.5	39.5	39.5	38.7
132.5°	28.7	31.0	32.5	33.3	34.9	34.9	35.6	35.6	35.6	35.6	34.9
135°	26.3	27.9	29.4	30.2	31.8	31.8	31.8	32.5	32.5	31.8	31.0
137.5°	23.2	24.8	26.3	27.1	27.9	28.7	28.7	29.4	28.7	28.7	28.7
140°	21.7	22.5	24.0	24.8	25.6	25.6	25.6	26.3	26.3	25.6	25.6
142.5°	18.6	20.1	21.7	22.5	23.2	23.2	23.2	23.2	23.2	23.2	23.2
145°	15.5	17.8	18.6	20.1	20.1	20.9	20.9	20.9	20.9	20.9	20.1
147.5°	13.2	14.7	17.0	17.8	17.8	18.6	18.6	18.6	18.6	18.6	17.8
150°	10.1	11.6	13.9	15.5	15.5	16.3	16.3	16.3	16.3	15.5	15.5
152.5°	8.5	10.1	10.8	12.4	13.2	13.2	13.2	13.9	13.2	13.2	13.2
155°	7.7	8.5	9.3	10.1	10.8	11.6	11.6	11.6	11.6	10.8	10.8
157.5°	6.2	7.0	7.7	8.5	9.3	10.1	10.1	10.1	10.1	10.1	9.3
160°	4.6	5.4	6.2	6.2	7.0	7.7	8.5	7.7	7.7	7.7	7.7
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: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3
2.5°	1405.2	1404.4	1406.7	1402.9	1391.2	1394.3	1392.8	1399.8	1401.3	1402.9	1409.8
5°	1405.2	1404.4	1406.0	1402.9	1390.5	1392.8	1391.2	1398.2	1399.8	1400.5	1407.5
7.5°	1402.1	1401.3	1403.6	1399.8	1386.6	1389.7	1387.4	1394.3	1395.1	1395.9	1402.1
10°	1395.9	1395.1	1396.7	1393.6	1380.4	1383.5	1380.4	1387.4	1387.4	1388.9	1393.6
12.5°	1386.6	1385.0	1388.1	1384.3	1369.6	1373.4	1371.9	1376.5	1377.3	1378.1	1382.7
15°	1373.4	1371.9	1374.2	1371.9	1358.7	1359.5	1357.2	1364.1	1364.9	1363.4	1368.0
17.5°	1354.1	1352.5	1357.2	1355.6	1342.4	1345.5	1344.8	1346.3	1348.6	1344.8	1351.0
20°	1330.0	1331.6	1333.1	1333.9	1323.9	1323.9	1323.1	1326.2	1328.5	1325.4	1330.0
22.5°	1294.4	1298.3	1302.9	1304.5	1297.5	1296.7	1301.4	1299.8	1302.2	1300.6	1303.7
25°	1249.5	1257.2	1261.9	1266.5	1262.7	1264.2	1271.2	1272.7	1272.7	1271.9	1275.0
27.5°	1193.7	1203.8	1212.3	1222.4	1218.5	1221.6	1233.2	1234.8	1237.9	1234.8	1241.0
30°	1127.1	1136.4	1152.7	1167.4	1168.9	1173.6	1189.8	1191.4	1199.9	1196.8	1199.1
32.5°	1060.5	1065.1	1083.7	1098.4	1107.7	1119.3	1137.2	1140.3	1151.9	1154.2	1154.2
35°	976.8	990.0	1007.0	1027.9	1039.6	1052.0	1076.0	1080.6	1097.7	1103.1	1109.3
37.5°	906.3	918.7	929.6	951.3	972.2	986.1	1005.5	1017.1	1034.9	1045.0	1052.7
40°	831.2	841.3	852.9	874.6	892.4	913.3	932.7	946.6	969.1	980.7	990.8
42.5°	759.9	767.7	780.1	795.5	814.1	837.4	856.0	872.2	896.3	912.5	924.1
45°	696.4	701.0	711.9	723.5	739.8	763.8	781.6	802.5	821.9	838.9	852.9
47.5°	636.7	642.9	648.4	656.1	670.8	685.6	706.5	726.6	746.0	764.6	778.5
50°	581.8	581.8	590.3	595.7	605.8	618.9	635.2	649.1	673.2	686.3	704.1
52.5°	528.3	531.4	536.0	539.1	546.9	555.4	568.6	580.2	600.3	612.7	629.8
55°	481.0	484.1	486.5	488.0	492.7	502.7	507.4	516.7	530.6	540.7	555.4
57.5°	436.1	437.7	440.0	440.8	441.5	447.7	451.6	453.9	467.9	477.9	490.3
60°	395.1	395.1	397.4	396.6	395.8	398.9	398.2	400.5	409.0	415.2	420.6
62.5°	356.3	356.3	357.1	355.6	354.8	354.8	351.7	354.0	356.3	357.1	361.0
65°	320.7	324.6	321.5	322.2	317.6	316.1	314.5	309.9	309.1	306.0	307.5
67.5°	288.9	292.0	288.9	288.9	285.1	282.0	278.1	270.3	268.0	261.8	260.3
70°	263.4	261.1	262.6	260.3	255.6	251.8	246.3	240.1	232.4	224.6	219.2
72.5°	238.6	238.6	237.0	234.7	232.4	224.6	218.4	211.5	202.2	192.1	184.4
75°	214.6	215.3	215.3	213.0	209.2	202.2	195.2	185.1	175.1	163.4	153.4
77.5°	197.5	197.5	197.5	193.7	189.8	183.6	175.1	164.2	153.4	139.4	127.8
80°	181.3	180.5	180.5	175.8	172.0	165.0	156.5	145.6	134.0	119.3	106.1
82.5°	168.1	167.3	165.8	161.9	156.5	149.5	141.0	129.4	117.0	103.8	87.5
85°	154.2	153.4	151.8	148.0	142.5	136.3	127.0	115.4	103.0	88.3	72.8
87.5°	141.8	141.0	138.7	136.3	130.1	123.2	113.9	103.0	89.9	75.9	60.4
90°	133.2	131.7	130.1	127.0	121.6	113.9	104.6	93.0	79.8	65.8	50.4
92.5°	123.2	122.4	120.1	117.0	112.3	104.6	95.3	84.4	71.3	58.1	43.4
95°	113.1	112.3	110.8	107.7	103.0	96.1	87.5	76.7	64.3	51.1	38.0
97.5°	103.8	103.8	101.5	99.2	93.7	88.3	79.8	69.7	58.1	46.5	34.1
100°	96.1	96.1	93.7	90.6	86.8	81.3	72.8	63.5	52.7	41.8	29.4
102.5°	89.1	88.3	86.8	83.7	79.8	74.4	66.6	58.1	48.0	37.2	26.3
105°	82.9	82.1	80.6	77.5	74.4	68.2	62.0	53.4	43.4	33.3	23.2
107.5°	76.7	75.9	75.1	72.0	68.2	62.7	56.5	48.0	39.5	30.2	20.9
110°	71.3	70.5	68.9	65.8	62.0	57.3	51.1	44.2	35.6	27.1	18.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	66.6	65.8	64.3	61.2	58.1	52.7	47.3	39.5	32.5	24.8	16.3
115°	62.0	61.2	59.6	56.5	52.7	48.0	42.6	36.4	28.7	21.7	14.7
117.5°	57.3	56.5	55.0	52.7	48.8	44.2	38.7	32.5	25.6	20.1	13.2
120°	53.4	51.9	50.4	48.0	44.2	40.3	34.9	29.4	23.2	17.8	11.6
122.5°	49.6	48.0	46.5	44.2	40.3	36.4	31.0	26.3	21.7	16.3	10.8
125°	44.9	44.2	42.6	40.3	36.4	32.5	28.7	24.0	19.4	14.7	9.3
127.5°	41.1	40.3	38.7	35.6	32.5	29.4	25.6	21.7	17.0	12.4	8.5
130°	38.0	36.4	34.9	32.5	30.2	27.1	23.2	19.4	15.5	10.8	7.7
132.5°	34.1	32.5	31.0	29.4	27.1	24.0	20.9	17.0	13.9	10.1	7.0
135°	31.0	29.4	27.9	26.3	24.0	21.7	18.6	15.5	12.4	9.3	6.2
137.5°	27.1	26.3	25.6	24.0	21.7	19.4	17.0	13.2	10.8	8.5	5.4
140°	24.8	24.0	23.2	20.9	19.4	17.0	14.7	11.6	9.3	7.0	4.6
142.5°	22.5	21.7	20.1	18.6	17.0	15.5	12.4	10.8	8.5	6.2	4.6
145°	19.4	18.6	17.8	16.3	14.7	12.4	10.8	9.3	7.7	5.4	3.9
147.5°	17.8	17.0	15.5	13.9	12.4	10.8	10.1	8.5	6.2	4.6	3.1
150°	14.7	13.9	13.2	11.6	10.8	10.1	8.5	7.0	5.4	3.9	3.1
152.5°	12.4	11.6	10.8	10.8	9.3	8.5	7.0	6.2	4.6	3.9	2.3
155°	10.8	10.8	10.1	9.3	7.7	7.0	6.2	4.6	3.9	3.1	2.3
157.5°	9.3	8.5	7.7	7.7	7.0	6.2	4.6	3.9	3.1	3.1	2.3
160°	7.7	7.0	7.0	6.2	5.4	4.6	3.9	3.9	3.1	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: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3
2.5°	1410.6	1402.1	1409.8	1419.9	1419.9	1418.4	1416.8	1419.9	1427.7	1424.6	1415.3
5°	1408.3	1399.8	1406.7	1416.8	1416.8	1414.5	1412.9	1415.3	1423.8	1419.9	1411.4
7.5°	1403.6	1395.9	1400.5	1409.8	1409.8	1407.5	1406.0	1409.1	1416.0	1412.2	1402.9
10°	1395.1	1386.6	1392.0	1400.5	1399.8	1398.2	1395.9	1399.8	1406.0	1400.5	1389.7
12.5°	1384.3	1375.8	1380.4	1388.1	1387.4	1384.3	1382.7	1385.0	1390.5	1387.4	1375.8
15°	1369.6	1361.0	1364.9	1372.7	1370.3	1368.0	1364.9	1365.7	1372.7	1367.2	1354.8
17.5°	1351.7	1342.4	1345.5	1352.5	1350.2	1347.9	1344.0	1344.8	1352.5	1344.8	1331.6
20°	1330.0	1320.0	1322.3	1330.8	1326.9	1323.1	1319.2	1319.2	1326.9	1318.4	1303.7
22.5°	1306.8	1296.7	1298.3	1304.5	1301.4	1294.4	1290.5	1292.9	1296.7	1285.9	1270.4
25°	1278.1	1265.0	1267.3	1273.5	1271.2	1261.9	1258.0	1259.6	1258.0	1249.5	1233.2
27.5°	1244.8	1230.9	1232.4	1236.3	1233.2	1224.7	1220.0	1220.8	1217.7	1206.9	1188.3
30°	1203.0	1196.0	1195.3	1197.6	1192.9	1184.4	1179.0	1177.4	1176.7	1161.2	1138.7
32.5°	1160.4	1154.2	1150.3	1153.4	1148.0	1139.5	1130.2	1130.2	1122.4	1107.7	1088.4
35°	1117.0	1107.0	1103.1	1105.4	1099.2	1088.4	1080.6	1076.7	1065.1	1046.5	1025.6
37.5°	1061.2	1054.3	1049.6	1052.0	1045.0	1037.2	1022.5	1018.6	1006.3	980.7	954.3
40°	1000.8	995.4	990.8	993.1	985.3	973.7	960.5	954.3	940.4	911.7	890.8
42.5°	935.8	933.4	928.0	936.5	921.0	909.4	896.3	886.2	872.2	841.3	817.2
45°	866.8	872.2	859.8	862.2	852.1	842.0	828.1	813.4	799.4	770.0	742.9
47.5°	794.0	797.9	789.4	790.9	780.1	770.8	758.4	739.8	724.3	698.7	674.7
50°	718.9	717.3	717.3	715.8	707.2	695.6	683.2	666.2	650.7	627.5	607.3
52.5°	639.1	642.2	643.7	647.6	636.7	629.8	610.4	595.7	584.1	560.1	543.0
55°	562.4	573.2	570.1	571.7	559.3	553.9	538.4	526.8	509.7	495.8	484.9
57.5°	492.7	495.0	496.5	498.9	493.4	482.6	470.2	460.9	447.7	436.1	428.4
60°	425.3	425.3	426.0	429.9	424.5	415.2	405.9	398.9	389.6	382.7	378.0
62.5°	361.8	367.2	368.0	364.9	357.9	353.2	347.0	343.2	337.0	334.6	333.1
65°	302.9	302.9	302.9	304.4	300.6	297.5	293.6	292.8	295.1	292.0	293.6
67.5°	253.3	251.0	249.4	250.2	248.7	247.1	246.3	248.7	253.3	253.3	257.2
70°	210.7	206.1	203.0	203.0	203.0	203.7	206.1	210.7	218.4	221.5	227.0
72.5°	175.8	165.8	161.1	161.1	161.9	165.0	172.0	180.5	187.5	193.7	200.6
75°	142.5	132.5	125.5	124.7	126.3	130.9	141.0	148.7	160.3	168.9	177.4
77.5°	115.4	103.0	94.5	93.7	96.1	103.0	115.4	125.5	138.7	148.0	157.3
80°	92.2	78.2	71.3	66.6	70.5	79.0	93.0	105.4	117.7	130.1	141.8
82.5°	73.6	60.4	49.6	44.9	49.6	61.2	74.4	89.1	101.5	114.6	126.3
85°	58.1	44.2	31.8	27.1	32.5	44.9	59.6	74.4	88.3	101.5	113.1
87.5°	45.7	31.8	19.4	13.2	20.1	33.3	47.3	62.0	76.7	89.9	101.5
90°	35.6	22.5	10.8	1.5	11.6	24.0	38.0	51.9	66.6	79.8	91.4
92.5°	30.2	17.0	6.2	0.0	7.0	17.8	31.0	44.9	58.1	71.3	82.9
95°	25.6	13.9	4.6	0.0	4.6	13.9	25.6	38.0	51.1	64.3	75.9
97.5°	21.7	10.8	3.1	0.0	3.1	10.8	20.9	33.3	44.9	57.3	68.2
100°	18.6	9.3	2.3	0.0	2.3	8.5	17.8	28.7	40.3	51.9	62.0
102.5°	16.3	7.7	1.5	0.0	1.5	7.0	14.7	24.8	34.9	45.7	55.8
105°	13.9	6.2	1.5	0.0	0.8	5.4	12.4	21.7	31.0	41.1	50.4
107.5°	12.4	5.4	1.5	0.0	0.8	4.6	10.8	18.6	27.9	36.4	44.9
110°	10.8	4.6	1.5	0.0	0.8	3.1	9.3	16.3	24.0	32.5	41.1



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	9.3	3.9	0.8	0.0	0.0	2.3	7.7	13.9	20.9	29.4	36.4
115°	8.5	3.9	0.8	0.0	0.0	1.5	6.2	12.4	18.6	26.3	32.5
117.5°	7.7	3.1	0.8	0.0	0.8	1.5	5.4	10.8	16.3	22.5	29.4
120°	7.0	3.1	0.8	0.0	0.8	0.8	3.9	9.3	13.9	20.1	25.6
122.5°	6.2	3.1	0.8	0.0	0.8	0.8	3.1	7.7	12.4	17.8	22.5
125°	5.4	2.3	1.5	0.8	0.8	0.8	2.3	6.2	10.8	14.7	20.1
127.5°	5.4	2.3	1.5	0.8	0.8	0.8	1.5	5.4	8.5	13.2	17.8
130°	4.6	2.3	1.5	0.8	0.8	0.8	0.8	3.9	7.7	10.8	14.7
132.5°	3.9	2.3	1.5	0.8	0.8	0.8	0.8	2.3	5.4	9.3	12.4
135°	3.9	2.3	1.5	0.8	0.8	0.8	0.8	1.5	3.9	7.0	10.1
137.5°	3.1	1.5	1.5	0.8	0.8	0.8	0.8	0.8	3.1	5.4	7.7
140°	3.1	1.5	1.5	0.8	0.8	0.8	0.8	0.8	2.3	3.9	6.2
142.5°	2.3	1.5	1.5	0.8	0.8	0.8	0.8	0.8	1.5	3.1	4.6
145°	2.3	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	1.5	3.1
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: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3
2.5°	1412.2	1397.4	1405.2	1402.9	1406.0	1412.2	1411.4	1409.8	1409.8	1407.5	1404.4
5°	1407.5	1393.6	1400.5	1396.7	1400.5	1406.0	1405.2	1402.9	1404.4	1400.5	1396.7
7.5°	1398.2	1385.8	1392.0	1388.9	1392.0	1397.4	1395.1	1394.3	1395.9	1389.7	1387.4
10°	1387.4	1373.4	1380.4	1376.5	1380.4	1384.3	1382.7	1379.6	1382.7	1376.5	1374.2
12.5°	1370.3	1358.7	1363.4	1361.8	1364.1	1368.0	1364.9	1362.6	1364.1	1358.7	1354.1
15°	1351.7	1340.1	1344.0	1341.7	1343.2	1347.9	1342.4	1341.7	1340.1	1334.7	1333.1
17.5°	1327.7	1316.9	1320.8	1316.9	1319.2	1317.7	1316.9	1313.0	1313.0	1306.8	1302.2
20°	1298.3	1289.0	1286.7	1283.6	1286.7	1283.6	1278.9	1275.8	1275.0	1268.9	1265.0
22.5°	1264.2	1253.4	1254.9	1246.4	1247.2	1242.5	1234.8	1231.7	1228.6	1221.6	1216.2
25°	1223.1	1212.3	1204.6	1199.1	1192.2	1191.4	1181.3	1173.6	1172.8	1164.3	1163.5
27.5°	1176.7	1164.3	1158.1	1144.9	1136.4	1129.4	1120.9	1113.1	1109.3	1100.0	1093.8
30°	1123.2	1109.3	1093.8	1084.5	1071.3	1065.9	1051.2	1041.9	1038.8	1028.7	1024.1
32.5°	1062.8	1048.1	1035.7	1017.9	1003.2	995.4	980.7	971.4	967.5	956.7	950.5
35°	997.0	980.7	966.0	948.9	937.3	924.1	906.3	897.0	888.5	884.6	880.0
37.5°	928.0	910.2	893.2	876.1	866.0	850.5	835.1	828.9	818.8	814.9	810.3
40°	856.7	838.9	822.7	806.4	794.8	780.8	766.9	764.6	753.7	749.8	746.7
42.5°	786.3	767.7	749.1	737.5	728.9	715.0	705.7	703.4	694.1	691.7	691.7
45°	722.7	699.5	684.0	673.9	667.0	655.3	647.6	646.0	638.3	636.7	636.7
47.5°	654.6	632.9	621.3	615.1	608.9	600.3	595.7	595.7	587.9	586.4	585.6
50°	591.0	570.9	562.4	556.2	555.4	549.2	545.3	543.8	543.8	538.4	539.1
52.5°	530.6	520.6	513.6	509.7	505.1	501.2	498.1	498.1	495.8	491.9	493.4
55°	474.9	463.2	464.0	460.9	458.6	456.3	457.0	452.4	451.6	448.5	450.8
57.5°	419.1	419.1	417.5	415.2	411.3	412.9	412.9	412.9	409.0	406.7	409.0
60°	371.8	374.1	370.3	372.6	371.0	371.8	370.3	370.3	368.0	367.2	368.0
62.5°	330.0	333.9	332.3	335.4	333.9	334.6	336.2	333.1	331.5	330.0	331.5
65°	292.8	297.5	296.7	299.0	299.8	300.6	301.3	299.8	298.2	296.7	295.9
67.5°	260.3	264.9	268.0	268.8	269.6	271.9	271.1	269.6	268.0	265.7	264.9
70°	230.8	237.0	240.9	242.5	245.6	244.0	244.0	243.2	241.7	239.4	238.6
72.5°	206.1	213.0	216.9	218.4	221.5	221.5	220.8	220.0	218.4	216.1	215.3
75°	184.4	190.6	196.0	199.1	201.4	201.4	200.6	199.9	198.3	196.8	196.0
77.5°	167.3	172.7	177.4	181.3	182.8	183.6	182.8	181.3	181.3	180.5	179.7
80°	150.3	156.5	161.1	165.0	167.3	167.3	166.5	167.3	165.8	165.0	164.2
82.5°	135.6	142.5	148.0	151.8	153.4	154.2	153.4	154.2	152.6	152.6	152.6
85°	122.4	129.4	135.6	138.7	141.0	141.8	141.8	141.8	141.0	141.0	141.0
87.5°	111.5	118.5	124.7	127.8	130.1	130.9	130.9	131.7	130.1	130.1	130.1
90°	101.5	108.4	114.6	117.7	120.1	121.6	121.6	122.4	121.6	120.8	120.8
92.5°	92.2	99.9	106.1	109.2	111.5	113.9	113.9	114.6	113.1	113.1	113.1
95°	84.4	92.2	97.6	101.5	103.8	105.4	106.1	106.1	105.4	105.4	105.4
97.5°	77.5	84.4	89.9	93.7	96.1	96.8	97.6	98.4	97.6	97.6	97.6
100°	70.5	77.5	82.9	86.0	89.1	89.9	90.6	91.4	91.4	90.6	90.6
102.5°	64.3	71.3	75.9	79.8	82.1	83.7	84.4	84.4	84.4	84.4	84.4
105°	58.1	65.1	69.7	73.6	75.9	77.5	78.2	79.0	79.0	78.2	78.2
107.5°	52.7	58.9	64.3	67.4	70.5	72.0	72.8	72.8	73.6	72.8	72.8
110°	47.3	54.2	58.9	62.0	65.1	66.6	67.4	68.2	68.2	68.2	68.2



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	43.4	48.8	53.4	56.5	59.6	61.2	62.0	62.7	63.5	62.7	62.7
115°	38.7	44.2	48.8	51.9	54.2	55.8	57.3	58.1	58.1	58.9	58.1
117.5°	34.9	39.5	44.2	47.3	49.6	51.9	52.7	53.4	54.2	53.4	53.4
120°	31.0	35.6	39.5	42.6	44.9	47.3	48.0	48.8	49.6	48.8	48.8
122.5°	27.9	31.8	35.6	38.7	41.1	42.6	44.2	44.2	44.9	44.9	44.9
125°	24.8	28.7	31.8	34.9	37.2	38.7	39.5	40.3	40.3	41.1	41.1
127.5°	21.7	24.8	28.7	31.0	33.3	34.9	35.6	36.4	36.4	37.2	37.2
130°	18.6	21.7	24.8	27.1	29.4	31.0	31.8	32.5	33.3	33.3	33.3
132.5°	16.3	19.4	21.7	24.0	25.6	27.1	28.7	29.4	29.4	29.4	29.4
135°	13.2	16.3	18.6	20.9	22.5	24.0	24.8	26.3	26.3	26.3	26.3
137.5°	10.8	13.9	16.3	17.8	19.4	20.9	21.7	22.5	23.2	23.2	23.2
140°	8.5	10.8	13.2	15.5	17.0	17.8	19.4	19.4	20.1	20.1	20.1
142.5°	6.2	8.5	10.1	12.4	13.9	15.5	16.3	17.0	17.0	17.0	17.0
145°	4.6	6.2	7.7	9.3	11.6	12.4	13.2	13.9	14.7	14.7	14.7
147.5°	3.1	4.6	5.4	7.0	8.5	10.1	10.8	11.6	12.4	12.4	12.4
150°	2.3	3.1	4.6	5.4	6.2	7.7	9.3	9.3	10.1	10.1	9.3
152.5°	1.5	2.3	3.1	3.9	4.6	5.4	7.0	7.0	7.7	7.7	7.7
155°	1.5	1.5	1.5	2.3	3.1	3.9	4.6	5.4	5.4	5.4	5.4
157.5°	1.5	1.5	1.5	1.5	1.5	2.3	3.1	3.9	3.9	3.9	3.9
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: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3
2.5°	1406.7	1408.3	1408.3	1406.7	1406.0	1409.1	1405.2	1390.5	1395.1	1396.7	1401.3
5°	1399.8	1401.3	1401.3	1401.3	1399.8	1402.9	1399.0	1384.3	1389.7	1392.0	1395.1
7.5°	1389.7	1390.5	1392.0	1391.2	1389.7	1394.3	1390.5	1375.8	1379.6	1383.5	1387.4
10°	1376.5	1376.5	1377.3	1378.8	1377.3	1381.2	1377.3	1364.1	1368.0	1370.3	1375.0
12.5°	1358.7	1360.3	1361.0	1360.3	1359.5	1362.6	1361.0	1348.6	1350.2	1354.8	1359.5
15°	1334.7	1334.7	1338.6	1337.0	1337.0	1340.1	1341.7	1327.7	1330.0	1337.0	1341.7
17.5°	1305.3	1306.0	1309.1	1310.7	1309.9	1315.3	1316.1	1305.3	1304.5	1313.0	1317.7
20°	1267.3	1268.9	1272.7	1275.8	1275.8	1282.0	1284.3	1277.4	1278.1	1287.4	1289.0
22.5°	1220.8	1220.8	1227.8	1232.4	1236.3	1240.2	1247.2	1241.0	1241.0	1253.4	1260.3
25°	1163.5	1168.9	1171.2	1180.5	1186.0	1196.8	1203.0	1203.8	1204.6	1216.2	1220.8
27.5°	1100.0	1101.5	1108.5	1119.3	1125.5	1135.6	1147.2	1149.6	1153.4	1168.9	1175.9
30°	1027.9	1032.6	1035.7	1051.2	1059.7	1072.9	1087.6	1093.0	1096.1	1117.0	1125.5
32.5°	954.3	955.9	969.1	977.6	987.7	1001.6	1018.6	1028.7	1034.9	1056.6	1069.0
35°	880.8	883.9	894.7	905.5	915.6	929.6	947.4	961.3	972.2	991.5	1007.8
37.5°	813.4	821.1	823.4	834.3	842.0	856.0	868.4	888.5	899.4	919.5	940.4
40°	752.9	755.3	756.8	767.7	773.1	786.3	804.1	817.2	832.0	846.7	871.5
42.5°	693.3	694.8	697.2	703.4	709.6	718.9	732.0	745.2	760.7	782.4	798.6
45°	638.3	639.8	641.4	645.3	650.7	659.2	667.7	677.0	692.5	711.1	728.2
47.5°	587.2	590.3	590.3	591.0	594.9	601.9	608.1	619.7	628.2	638.3	657.7
50°	538.4	540.7	541.5	541.5	543.8	548.4	550.0	557.7	565.5	574.8	588.7
52.5°	492.7	492.7	491.9	495.0	495.0	498.1	498.9	503.5	508.9	519.0	525.2
55°	449.3	449.3	451.6	450.1	450.1	451.6	450.8	451.6	456.3	462.5	467.9
57.5°	407.5	406.7	409.0	407.5	406.7	408.2	409.8	406.7	407.5	413.7	413.7
60°	365.6	366.4	368.7	367.2	367.2	367.2	365.6	364.1	362.5	366.4	368.0
62.5°	332.3	330.0	332.3	330.0	331.5	330.8	329.2	326.1	326.9	325.3	323.8
65°	297.5	297.5	298.2	295.9	297.5	297.5	295.1	294.4	289.7	288.2	284.3
67.5°	267.2	267.2	268.0	266.5	266.5	267.2	264.9	262.6	258.0	255.6	250.2
70°	240.9	240.9	240.9	240.1	240.1	240.1	238.6	235.5	230.8	227.0	220.0
72.5°	216.9	217.7	216.9	216.9	219.2	216.9	214.6	211.5	207.6	199.9	193.7
75°	197.5	198.3	197.5	197.5	197.5	196.8	196.0	191.3	186.7	180.5	171.2
77.5°	180.5	180.5	181.3	180.5	180.5	179.7	177.4	173.5	168.1	162.7	151.8
80°	164.2	165.0	165.8	166.5	165.0	164.2	161.9	158.8	151.8	145.6	134.8
82.5°	152.6	151.8	152.6	153.4	151.8	151.1	148.7	144.9	139.4	130.9	120.1
85°	141.0	140.2	140.2	141.0	140.2	138.7	136.3	132.5	127.0	118.5	107.7
87.5°	129.4	130.1	130.9	130.1	129.4	127.8	125.5	121.6	115.4	108.4	96.8
90°	120.8	120.8	120.8	120.8	120.1	118.5	116.2	111.5	106.1	97.6	87.5
92.5°	113.1	113.1	113.1	113.1	112.3	110.0	107.7	103.8	97.6	89.1	79.8
95°	105.4	106.1	105.4	105.4	103.8	103.0	99.2	95.3	89.9	81.3	71.3
97.5°	96.8	97.6	96.8	96.8	96.1	94.5	92.2	87.5	82.1	74.4	65.1
100°	90.6	90.6	89.9	89.9	89.1	87.5	84.4	80.6	75.1	67.4	58.1
102.5°	83.7	84.4	83.7	83.7	82.1	80.6	78.2	74.4	68.9	61.2	52.7
105°	78.2	78.2	77.5	77.5	75.9	74.4	72.0	67.4	62.7	55.8	47.3
107.5°	72.8	72.8	72.0	72.0	70.5	68.9	65.8	62.0	57.3	50.4	42.6
110°	67.4	67.4	67.4	66.6	65.1	62.7	60.4	56.5	51.9	45.7	38.0





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	63.5	62.7	62.0	61.2	59.6	58.1	55.0	51.1	46.5	41.1	34.1
115°	58.1	58.1	57.3	56.5	55.0	52.7	50.4	47.3	42.6	36.4	30.2
117.5°	53.4	53.4	52.7	51.9	50.4	48.0	45.7	42.6	38.0	32.5	27.1
120°	48.8	48.8	48.0	47.3	45.7	43.4	41.8	38.0	34.1	28.7	24.0
122.5°	44.9	44.2	44.2	42.6	41.8	39.5	37.2	34.1	30.2	25.6	20.9
125°	40.3	40.3	39.5	38.7	38.0	35.6	33.3	30.2	26.3	22.5	18.6
127.5°	36.4	36.4	35.6	34.9	34.1	31.8	29.4	27.1	23.2	19.4	15.5
130°	32.5	32.5	31.8	31.0	30.2	27.9	26.3	23.2	20.1	17.0	13.2
132.5°	29.4	29.4	28.7	27.9	26.3	24.8	23.2	20.1	17.8	14.7	11.6
135°	26.3	25.6	25.6	24.8	23.2	21.7	20.1	17.8	14.7	12.4	9.3
137.5°	23.2	22.5	21.7	20.9	20.1	18.6	17.0	15.5	13.2	10.1	7.7
140°	20.1	19.4	19.4	18.6	17.0	16.3	14.7	12.4	10.8	8.5	6.2
142.5°	17.0	17.0	16.3	15.5	14.7	13.9	12.4	10.8	8.5	7.0	4.6
145°	14.7	13.9	13.9	13.2	12.4	10.8	10.1	8.5	7.0	5.4	3.9
147.5°	11.6	11.6	11.6	10.8	10.1	9.3	8.5	7.0	5.4	3.9	2.3
150°	9.3	9.3	9.3	8.5	7.7	7.0	6.2	5.4	3.9	2.3	1.5
152.5°	7.7	7.7	7.0	7.0	6.2	5.4	4.6	3.9	2.3	1.5	1.5
155°	5.4	5.4	5.4	4.6	4.6	3.9	3.1	2.3	1.5	1.5	1.5
157.5°	3.9	3.9	3.9	3.1	3.1	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: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3
2.5°	1399.0	1398.2	1404.4	1404.4	1397.4	1408.3	1419.9
5°	1394.3	1393.6	1399.8	1399.8	1393.6	1404.4	1416.8
7.5°	1385.0	1385.8	1392.0	1393.6	1385.8	1395.9	1409.1
10°	1375.0	1374.2	1381.2	1382.7	1376.5	1385.8	1398.2
12.5°	1358.7	1358.7	1365.7	1368.0	1361.8	1372.7	1384.3
15°	1341.7	1341.7	1346.3	1350.2	1344.8	1354.8	1366.5
17.5°	1320.0	1319.2	1323.9	1328.5	1323.1	1333.9	1346.3
20°	1292.1	1292.1	1297.5	1302.9	1299.1	1309.1	1323.1
22.5°	1262.7	1259.6	1268.9	1272.7	1270.4	1280.5	1294.4
25°	1225.5	1224.7	1234.0	1239.4	1236.3	1247.2	1259.6
27.5°	1185.2	1184.4	1193.7	1200.7	1199.1	1209.2	1223.1
30°	1136.4	1140.3	1148.8	1160.4	1156.5	1167.4	1182.1
32.5°	1085.3	1089.1	1099.2	1111.6	1112.4	1120.9	1135.6
35°	1024.1	1034.1	1041.1	1057.4	1060.5	1069.0	1084.5
37.5°	959.8	971.4	986.1	998.5	1004.7	1011.7	1029.5
40°	887.7	904.8	921.0	935.8	943.5	950.5	967.5
42.5°	822.7	835.8	851.3	866.0	880.0	886.2	904.0
45°	749.1	764.6	778.5	796.3	810.3	817.2	835.1
47.5°	677.0	692.5	711.1	723.5	738.2	745.2	762.2
50°	608.1	622.0	637.5	652.2	664.6	670.8	685.6
52.5°	539.9	554.6	569.4	578.7	591.8	596.5	608.9
55°	479.5	489.6	502.7	508.2	521.3	524.4	532.9
57.5°	421.4	428.4	433.0	442.3	451.6	458.6	468.7
60°	368.7	371.8	374.9	380.3	388.1	390.4	394.3
62.5°	321.5	320.7	326.9	328.4	329.2	337.0	333.1
65°	279.6	280.4	275.0	272.7	275.8	278.1	276.5
67.5°	244.8	240.1	235.5	230.1	225.4	227.7	225.4
70°	210.7	206.8	199.1	191.3	188.2	183.6	181.3
72.5°	183.6	174.3	166.5	156.5	151.1	145.6	141.8
75°	162.7	149.5	138.7	127.8	120.1	112.3	110.8
77.5°	141.0	128.6	116.2	104.6	93.0	84.4	81.3
80°	123.9	112.3	97.6	83.7	71.3	60.4	56.5
82.5°	108.4	96.1	81.3	66.6	52.7	41.1	36.4
85°	95.3	82.1	67.4	52.7	38.7	26.3	20.1
87.5°	85.2	70.5	55.8	41.8	27.1	14.7	7.7
90°	75.9	62.0	48.0	33.3	19.4	7.7	0.0
92.5°	67.4	54.2	40.3	27.1	14.7	4.6	0.8
95°	59.6	48.0	34.1	21.7	10.8	3.1	0.8
97.5°	53.4	41.8	29.4	17.8	8.5	2.3	0.8
100°	48.0	36.4	25.6	14.7	7.0	1.5	0.8
102.5°	42.6	32.5	21.7	12.4	5.4	0.8	0.8
105°	38.0	28.7	18.6	10.8	4.6	0.8	0.8
107.5°	34.1	25.6	16.3	9.3	3.1	0.8	0.8
110°	30.2	21.7	13.9	7.7	2.3	0.8	0.8



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	27.1	19.4	12.4	6.2	1.5	0.8	0.8
115°	24.0	17.0	10.8	5.4	1.5	0.8	0.8
117.5°	20.9	14.7	9.3	3.9	0.8	0.8	0.8
120°	18.6	13.2	7.7	3.1	0.8	0.8	0.8
122.5°	16.3	10.8	6.2	2.3	0.8	0.8	0.8
125°	13.9	9.3	5.4	1.5	0.8	0.8	0.8
127.5°	11.6	7.7	3.9	1.5	0.8	0.8	0.8
130°	10.1	6.2	3.1	0.8	0.8	0.8	0.8
132.5°	8.5	4.6	2.3	0.8	0.8	0.8	0.8
135°	7.0	3.9	1.5	0.8	0.8	0.8	0.8
137.5°	5.4	3.1	1.5	0.8	0.8	0.8	0.8
140°	3.9	2.3	0.8	0.8	0.8	0.8	0.8
142.5°	3.1	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)