

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: **2SNLED-LD5-34HL-LC-UNV-L950-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 (P33518)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNLED-LD5-34HL-LC-UNV-L950-CD1-U  
Description: 2FT LINEAR SNLED LED FIXTURE  
CLEAR LENSED  
Light Source: -  
Ballast/Driver: -

**Summary**

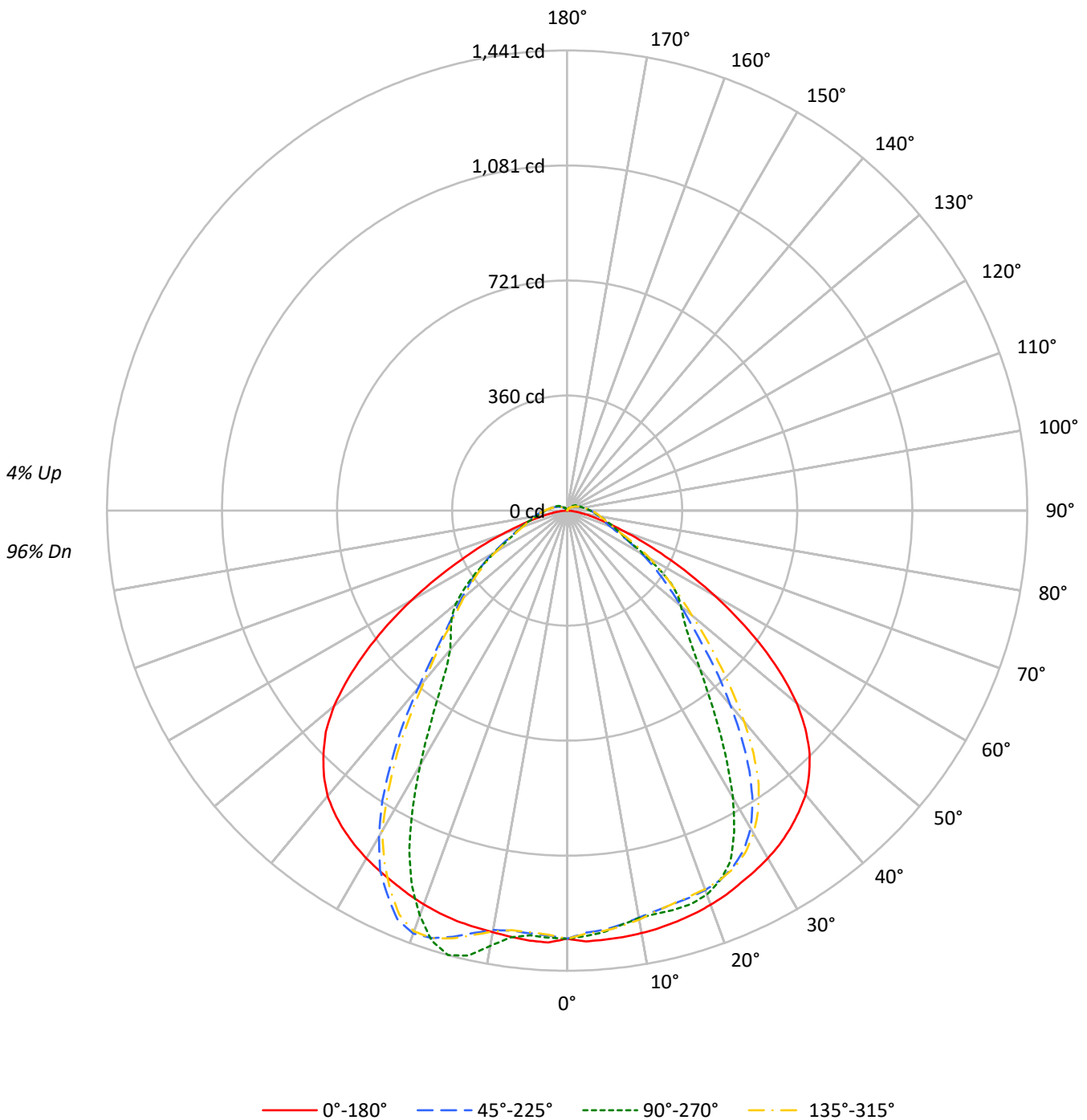
Lumens per Lamp: N/A  
Luminaire Lumens: 3196.0 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 27  
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: 2SNLED-LD5-34HL-LC-UNV-L950-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L950-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	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	82				
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	71				
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	61				
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	54				
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	47				
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	42				
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	38				
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	34				
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	31				
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	28				

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

	0°	90°	180°	270°
0°	21667	21667	21667	21667
5°	21767	20808	21810	20972
10°	21807	19943	21761	21297
15°	21914	19676	21902	21909
20°	22090	19364	22067	20413
25°	22294	18371	22282	17750
30°	22640	15921	22651	14105
35°	22999	12875	23063	10894
40°	23294	10366	23391	9132
45°	23104	8781	23224	8550
50°	21990	8083	22299	7904
55°	19383	7266	19867	6606
60°	15593	5561	16421	5101
65°	11466	4254	12353	4034
70°	7679	3673	8659	3513
75°	4906	3314	5717	3134
80°	3044	3091	3566	2844
85°	1428	3081	1871	2815



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L950-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.3	4.0
10°-20°	378.9	11.9
20°-30°	576.0	18.0
30°-40°	617.9	19.3
40°-50°	536.3	16.8
50°-60°	397.5	12.4
60°-70°	227.7	7.1
70°-80°	126.1	3.9
80°-90°	76.8	2.4
90°-100°	49.9	1.6
100°-110°	33.4	1.0
110°-120°	22.6	0.7
120°-130°	13.9	0.4
130°-140°	7.3	0.2
140°-150°	3.3	0.1
150°-160°	1.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1082.3	33.9
0°-40°	1700.2	53.2
0°-60°	2634.0	82.4
0°-90°	3064.6	95.9
90°-120°	106.0	3.3
90°-150°	130.4	4.1
90°-180°	131.0	4.1
0°-180°	3196.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1341	1341	1341	1341	1341	
5°	1349	1325	1352	1335	1349	129
15°	1332	1294	1331	1441	1332	377
25°	1287	1210	1286	1170	1287	595
35°	1217	824	1220	697	1217	762
45°	1074	528	1080	514	1074	822
55°	749	396	768	360	749	664
65°	340	201	366	190	340	343
75°	97	127	113	120	97	111
85°	13	88	17	80	13	17
90°	0	73	1	68	0	1
95°	1	60	0	58	1	0
105°	1	45	1	43	1	1
115°	1	37	1	33	1	1
125°	1	28	1	23	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



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1350.3	1346.9	1345.5	1342.7	1344.8	1353.1	1347.6	1338.6	1339.3	1323.3	1331.6
5°	1349.0	1344.8	1342.7	1339.9	1341.3	1349.0	1343.4	1334.4	1333.7	1317.8	1325.4
7.5°	1346.9	1342.7	1339.3	1337.2	1337.9	1344.1	1337.2	1326.8	1324.7	1307.4	1314.3
10°	1343.4	1340.6	1335.8	1332.3	1331.6	1338.6	1327.5	1317.1	1312.2	1294.2	1301.2
12.5°	1338.6	1334.4	1329.6	1323.3	1322.6	1326.8	1317.8	1303.2	1298.4	1283.9	1291.5
15°	1331.6	1326.8	1321.3	1314.3	1310.9	1313.6	1302.6	1289.4	1288.7	1276.2	1286.6
17.5°	1324.0	1317.1	1310.9	1301.2	1296.3	1298.4	1289.4	1277.6	1279.0	1271.4	1283.2
20°	1313.6	1306.0	1296.3	1286.6	1279.7	1283.2	1276.9	1267.9	1270.0	1264.5	1274.9
22.5°	1301.9	1291.5	1279.7	1268.6	1263.1	1267.9	1263.1	1255.5	1256.2	1252.7	1258.9
25°	1286.6	1274.9	1261.0	1247.2	1244.4	1247.8	1245.1	1238.8	1236.1	1230.5	1233.3
27.5°	1272.8	1259.6	1242.3	1227.8	1222.9	1229.8	1223.6	1213.2	1205.6	1198.0	1192.5
30°	1256.9	1240.9	1221.5	1204.9	1200.8	1203.5	1194.5	1178.6	1158.5	1148.8	1133.6
32.5°	1239.5	1218.8	1194.5	1175.8	1173.1	1171.0	1154.4	1131.5	1100.4	1081.0	1057.4
35°	1216.7	1193.8	1164.8	1141.9	1137.7	1126.0	1099.0	1068.5	1028.3	995.1	954.9
37.5°	1191.1	1164.1	1133.6	1103.1	1091.3	1067.8	1029.7	997.9	936.9	896.8	848.3
40°	1162.0	1129.4	1092.0	1055.3	1035.9	997.9	954.2	907.1	848.3	794.3	753.4
42.5°	1121.8	1087.2	1042.9	1002.0	968.8	918.2	867.0	800.5	746.5	700.8	659.2
45°	1074.0	1032.5	981.2	932.1	889.8	829.6	769.3	702.9	657.9	604.5	576.1
47.5°	1012.4	967.4	912.7	858.0	802.6	736.1	673.1	609.4	564.4	526.3	505.5
50°	939.7	898.1	837.9	772.8	711.9	642.6	579.6	531.8	488.2	464.7	448.7
52.5°	849.7	810.9	749.3	678.6	619.8	551.9	494.4	455.7	424.5	407.2	401.6
55°	749.3	715.3	654.4	588.6	528.4	466.0	422.4	388.5	368.4	358.0	358.7
57.5°	641.9	615.6	558.1	499.3	442.5	395.4	355.9	328.9	313.7	313.0	315.1
60°	534.6	515.2	465.3	414.8	364.9	326.9	297.8	279.1	269.4	270.1	269.4
62.5°	432.1	414.1	378.1	336.5	297.1	271.5	245.1	237.5	229.2	228.5	228.5
65°	340.0	326.2	297.1	267.3	237.5	220.9	207.7	198.7	192.5	191.1	191.8
67.5°	255.5	250.0	229.9	209.8	191.1	180.7	169.7	167.6	162.7	162.7	164.1
70°	190.4	186.3	175.2	163.4	155.8	148.9	143.3	143.3	142.7	142.0	145.4
72.5°	137.8	138.5	135.0	126.0	125.3	124.0	122.6	124.6	125.3	127.4	131.6
75°	96.9	99.0	99.0	97.6	100.4	103.9	105.9	109.4	113.6	116.3	121.2
77.5°	68.6	68.6	72.0	76.2	81.7	87.9	93.5	98.3	103.9	107.3	111.5
80°	44.3	46.4	51.9	59.6	67.2	75.5	83.1	89.3	94.9	100.4	103.2
82.5°	26.3	29.8	36.7	46.4	56.1	66.5	74.1	81.7	87.9	93.5	95.6
85°	13.2	18.0	26.3	36.7	47.1	58.2	67.9	74.8	81.7	86.6	89.3
87.5°	4.2	9.7	18.7	28.4	39.5	50.6	60.9	68.6	74.8	78.9	81.7
90°	0.0	4.8	13.2	23.5	33.9	45.0	54.7	63.0	69.2	72.7	74.8
92.5°	0.0	2.8	10.4	19.4	29.1	40.2	49.9	57.5	63.0	66.5	67.9
95°	0.7	2.1	7.6	15.9	25.6	36.0	45.0	51.9	57.5	60.9	61.6
97.5°	0.7	1.4	6.2	13.2	22.2	31.9	40.9	47.8	51.9	55.4	56.1
100°	0.7	1.4	4.8	11.8	19.4	28.4	36.7	42.9	47.8	50.6	51.2
102.5°	0.7	0.7	4.2	9.7	17.3	24.9	32.5	38.8	42.9	45.7	47.1
105°	0.7	0.7	3.5	8.3	15.2	22.2	29.1	35.3	38.8	41.5	42.9
107.5°	0.7	0.7	2.8	6.9	13.2	19.4	26.3	31.2	35.3	38.1	39.5
110°	0.7	0.7	2.1	6.2	11.1	17.3	22.9	27.7	31.9	34.6	36.0



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.7	0.7	2.1	5.5	9.7	15.2	20.1	24.9	28.4	31.2	33.2
115°	0.7	0.7	2.1	4.8	9.0	13.2	18.0	22.2	25.6	28.4	30.5
117.5°	0.7	0.7	2.1	4.2	7.6	11.8	15.9	20.1	22.9	25.6	27.7
120°	0.7	0.7	1.4	3.5	6.9	10.4	13.8	17.3	20.8	23.5	25.6
122.5°	0.7	0.7	1.4	3.5	5.5	9.0	12.5	15.2	18.7	20.8	22.9
125°	0.7	0.7	1.4	2.8	4.8	8.3	11.1	13.8	15.9	18.7	20.8
127.5°	0.7	0.7	1.4	2.8	4.2	6.9	9.7	12.5	14.5	16.6	18.0
130°	0.7	0.7	1.4	2.1	3.5	5.5	8.3	10.4	13.2	14.5	15.9
132.5°	0.7	0.7	0.7	2.1	2.8	4.2	6.2	9.0	11.1	13.2	13.8
135°	0.7	0.7	0.7	1.4	2.8	3.5	4.8	6.9	9.0	11.1	12.5
137.5°	0.7	0.7	0.7	1.4	2.1	3.5	4.2	5.5	7.6	9.0	11.1
140°	0.7	0.7	0.7	1.4	2.1	2.8	3.5	4.8	6.2	7.6	9.0
142.5°	0.7	0.7	0.7	1.4	1.4	2.1	2.8	4.2	4.8	6.2	7.6
145°	0.7	0.7	0.7	1.4	1.4	2.1	2.8	3.5	4.2	4.8	6.2
147.5°	0.7	0.7	0.7	1.4	1.4	1.4	2.1	2.8	3.5	4.2	4.8
150°	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.8	3.5	4.2
152.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.8	3.5
155°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.8	2.8
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: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1328.9	1330.3	1338.6	1337.9	1336.5	1335.1	1335.1	1333.7	1335.1	1338.6	1337.2
5°	1321.9	1324.0	1330.3	1329.6	1328.2	1327.5	1326.8	1324.7	1326.1	1330.9	1329.6
7.5°	1309.5	1311.6	1317.1	1314.3	1312.2	1313.6	1310.2	1308.1	1310.9	1315.7	1315.0
10°	1296.3	1297.7	1304.6	1303.2	1299.8	1300.5	1297.0	1295.6	1299.1	1301.9	1302.6
12.5°	1287.3	1292.2	1298.4	1297.7	1297.0	1297.7	1294.2	1292.9	1294.9	1297.7	1297.0
15°	1285.2	1291.5	1298.4	1298.4	1299.1	1299.8	1296.3	1294.2	1296.3	1298.4	1297.7
17.5°	1283.2	1290.8	1297.0	1296.3	1297.0	1298.4	1292.9	1291.5	1294.2	1297.0	1295.6
20°	1276.2	1283.2	1287.3	1285.9	1285.9	1286.6	1279.7	1279.7	1283.9	1285.9	1286.6
22.5°	1256.9	1265.2	1265.2	1261.7	1261.7	1258.9	1256.9	1252.7	1257.5	1261.0	1263.8
25°	1227.8	1231.2	1227.1	1219.5	1215.3	1211.8	1202.1	1210.5	1210.5	1220.8	1224.3
27.5°	1186.9	1179.3	1167.5	1151.6	1148.1	1137.1	1130.8	1132.9	1136.4	1150.9	1162.0
30°	1119.7	1096.9	1076.8	1069.9	1054.6	1043.6	1032.5	1038.0	1044.3	1052.6	1075.4
32.5°	1031.1	1008.9	976.4	964.6	948.7	934.8	921.7	930.0	941.1	946.6	971.5
35°	929.3	903.0	873.2	853.1	836.5	828.9	812.3	824.1	835.8	840.0	861.4
37.5°	821.3	794.3	768.0	750.6	734.7	729.9	718.8	727.1	736.1	742.3	760.3
40°	718.8	693.9	673.8	662.0	650.9	646.8	642.6	646.1	653.0	657.9	671.7
42.5°	630.8	610.8	596.9	590.0	582.4	576.8	577.5	578.9	582.4	592.8	599.0
45°	554.0	542.2	533.2	531.8	527.0	526.3	525.6	528.4	530.4	536.7	541.5
47.5°	492.4	487.5	485.4	488.2	490.3	487.5	488.9	492.4	496.5	496.5	495.8
50°	443.9	445.3	448.0	454.3	458.4	459.8	461.2	465.3	466.0	467.4	465.3
52.5°	404.4	405.8	413.4	423.1	428.0	430.0	432.8	437.0	437.0	438.3	435.6
55°	364.2	366.3	373.9	383.6	387.8	390.6	393.3	396.1	398.2	400.9	398.9
57.5°	319.9	326.2	331.0	333.8	336.5	338.6	340.7	341.4	345.5	346.2	349.7
60°	272.8	274.2	279.1	278.4	276.3	281.8	279.1	283.9	288.8	295.0	295.7
62.5°	227.8	228.5	232.0	230.6	233.4	232.7	234.8	234.8	238.2	241.0	244.4
65°	192.5	193.2	196.0	196.0	195.3	197.4	199.4	200.8	200.8	202.9	205.7
67.5°	166.2	168.3	171.0	172.4	173.8	173.8	175.9	176.6	178.0	178.7	180.0
70°	148.2	151.0	153.7	155.1	155.8	157.2	157.9	157.9	159.3	160.0	161.3
72.5°	135.0	137.8	139.9	139.9	141.3	142.0	142.0	142.7	143.3	144.7	146.1
75°	124.0	126.0	127.4	126.7	126.7	126.7	127.4	127.4	128.8	130.2	131.6
77.5°	113.6	115.6	115.6	114.3	114.3	114.3	114.3	115.0	115.6	117.0	118.4
80°	105.9	105.9	105.3	105.3	103.9	103.2	103.2	103.9	103.9	105.3	107.3
82.5°	97.6	97.6	96.9	96.3	95.6	94.9	94.9	95.6	96.3	96.9	98.3
85°	90.0	90.0	88.6	88.6	87.9	87.9	87.9	87.9	88.6	89.3	90.7
87.5°	82.4	81.7	81.0	80.3	80.3	80.3	80.3	80.3	81.0	82.4	83.1
90°	74.8	74.1	73.4	73.4	72.7	72.7	73.4	73.4	74.1	74.8	75.5
92.5°	67.9	67.2	66.5	66.5	65.8	65.8	66.5	65.8	67.2	67.2	67.9
95°	61.6	60.9	60.2	60.2	60.2	60.2	60.2	60.2	60.9	60.9	61.6
97.5°	56.1	55.4	54.7	54.7	55.4	54.7	55.4	55.4	55.4	56.1	56.8
100°	51.2	50.6	50.6	51.2	50.6	50.6	51.2	51.2	51.2	51.2	51.9
102.5°	47.1	47.1	47.1	47.1	47.1	47.1	47.8	47.8	47.8	47.8	48.5
105°	42.9	43.6	43.6	43.6	44.3	44.3	44.3	45.0	45.0	45.0	45.0
107.5°	40.2	40.9	40.9	41.5	41.5	42.2	42.2	42.2	42.2	42.9	42.9
110°	37.4	38.1	38.8	39.5	39.5	40.2	40.2	40.2	40.2	40.2	40.2





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	34.6	35.3	36.0	37.4	38.1	38.1	38.1	38.1	38.8	38.8	38.1
115°	31.9	33.2	33.9	35.3	36.0	36.0	36.7	36.7	36.7	36.7	36.0
117.5°	29.1	31.2	31.9	33.2	33.9	33.9	34.6	34.6	34.6	34.6	33.9
120°	27.0	28.4	29.8	30.5	31.2	31.9	31.9	32.5	32.5	32.5	31.9
122.5°	24.9	26.3	27.7	28.4	29.1	29.8	29.8	29.8	29.8	29.8	29.8
125°	22.2	23.5	24.9	25.6	26.3	27.0	27.0	27.7	27.7	27.7	27.0
127.5°	20.1	21.5	22.2	23.5	24.2	24.2	24.9	24.9	24.9	24.9	24.2
130°	17.3	18.7	20.1	20.8	21.5	21.5	22.2	22.2	22.2	22.2	22.2
132.5°	15.2	16.6	17.3	18.7	18.7	19.4	19.4	20.1	20.1	20.1	19.4
135°	13.8	14.5	15.2	16.6	16.6	17.3	17.3	17.3	17.3	17.3	17.3
137.5°	12.5	13.2	13.8	14.5	14.5	15.2	15.2	15.2	15.2	15.9	15.2
140°	10.4	11.8	12.5	12.5	13.2	13.2	13.2	13.8	13.8	13.8	13.2
142.5°	9.0	9.7	10.4	11.1	11.8	11.8	11.8	11.8	12.5	11.8	11.8
145°	6.9	8.3	9.0	9.7	10.4	10.4	10.4	10.4	10.4	10.4	10.4
147.5°	5.5	6.2	7.6	8.3	8.3	9.0	9.0	9.0	9.0	9.0	9.0
150°	4.8	4.8	6.2	6.9	7.6	7.6	7.6	7.6	7.6	7.6	7.6
152.5°	3.5	4.2	4.8	5.5	6.2	6.2	6.2	6.2	6.2	6.2	6.2
155°	3.5	3.5	4.2	4.2	4.8	4.8	4.8	4.8	5.5	4.8	4.8
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: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1335.1	1334.4	1337.2	1334.4	1320.6	1326.1	1324.0	1331.6	1332.3	1334.4	1341.3
5°	1328.2	1328.2	1331.6	1328.9	1315.7	1321.3	1320.6	1328.2	1329.6	1330.9	1338.6
7.5°	1314.3	1315.0	1319.9	1317.8	1303.9	1312.2	1311.6	1320.6	1323.3	1326.1	1333.0
10°	1301.2	1300.5	1306.0	1303.9	1290.8	1300.5	1299.8	1308.8	1312.9	1317.8	1326.1
12.5°	1294.2	1292.2	1294.2	1292.2	1277.6	1285.2	1285.9	1296.3	1301.2	1307.4	1317.1
15°	1294.2	1290.8	1290.8	1286.6	1270.0	1274.9	1275.5	1282.5	1288.7	1294.9	1306.7
17.5°	1292.9	1289.4	1288.7	1285.2	1267.2	1267.2	1266.5	1271.4	1274.9	1281.1	1293.6
20°	1285.2	1283.9	1283.2	1281.1	1264.5	1261.7	1260.3	1260.3	1262.4	1264.5	1276.9
22.5°	1265.2	1266.5	1267.9	1269.3	1256.2	1251.3	1252.0	1250.6	1248.5	1248.5	1258.9
25°	1227.8	1234.7	1240.2	1246.5	1238.8	1235.4	1239.5	1237.5	1234.0	1231.2	1240.2
27.5°	1168.2	1182.8	1194.5	1209.8	1210.5	1207.7	1218.8	1217.4	1216.7	1212.5	1219.5
30°	1085.8	1108.7	1124.6	1146.7	1165.4	1168.2	1186.9	1189.7	1192.5	1190.4	1197.3
32.5°	986.1	1017.3	1044.3	1078.9	1096.9	1112.8	1139.1	1150.2	1161.3	1164.8	1172.4
35°	877.4	912.7	944.5	982.6	1011.0	1045.6	1077.5	1094.1	1119.0	1128.7	1139.8
37.5°	774.2	807.4	838.6	876.7	922.4	958.4	997.9	1035.3	1069.2	1083.0	1099.7
40°	682.8	709.8	739.6	772.8	814.4	861.4	904.4	956.3	996.5	1024.2	1048.4
42.5°	613.5	626.7	652.3	682.1	715.3	763.1	806.7	864.9	913.4	952.9	993.0
45°	551.9	558.1	576.8	592.8	626.7	668.9	715.3	772.1	822.7	873.2	921.7
47.5°	499.3	506.9	515.9	525.6	549.8	585.1	625.3	676.6	727.1	786.0	841.4
50°	464.0	466.0	467.4	471.6	486.1	510.4	542.9	586.5	635.0	698.0	756.9
52.5°	432.8	432.8	428.6	426.6	432.1	447.3	466.0	497.2	547.1	605.2	667.6
55°	399.6	393.3	391.9	385.0	386.4	393.3	402.3	426.6	467.4	517.3	577.5
57.5°	353.2	350.4	350.4	347.6	342.1	345.5	347.6	364.9	394.0	437.0	489.6
60°	299.8	298.5	301.9	302.6	297.8	299.8	299.2	309.5	330.3	364.9	408.6
62.5°	246.5	252.8	253.4	256.2	253.4	252.8	256.2	265.2	275.6	301.9	335.9
65°	207.1	210.5	211.2	214.7	213.3	213.3	216.1	223.0	229.2	247.2	273.5
67.5°	181.4	180.0	180.7	182.8	180.7	180.0	182.1	186.3	191.1	202.2	220.9
70°	161.3	160.0	160.0	160.0	157.2	155.1	155.8	157.2	159.3	165.5	177.3
72.5°	146.1	146.1	144.0	142.0	139.9	138.5	137.1	135.7	135.0	137.1	143.3
75°	132.3	133.0	132.3	130.2	127.4	124.6	121.9	119.1	115.6	114.3	115.0
77.5°	119.8	120.5	121.2	120.5	117.7	114.3	110.1	105.9	101.1	96.3	93.5
80°	108.7	110.1	110.8	110.1	108.0	105.3	100.4	95.6	88.6	82.4	75.5
82.5°	99.0	101.1	101.8	101.8	100.4	97.6	92.1	86.6	78.9	70.6	61.6
85°	91.4	92.8	94.2	94.2	93.5	90.7	85.2	78.9	71.3	61.6	51.9
87.5°	83.8	84.5	85.9	87.3	85.9	83.1	78.3	71.3	63.7	54.0	42.9
90°	76.2	76.9	78.3	79.6	78.9	76.2	72.0	65.8	57.5	47.1	36.0
92.5°	68.6	69.9	70.6	71.3	72.0	69.9	66.5	60.2	51.9	41.5	31.2
95°	63.0	63.0	64.4	65.1	65.8	63.7	60.9	54.7	47.1	37.4	27.0
97.5°	57.5	57.5	58.9	58.9	59.6	58.2	55.4	49.9	42.2	33.2	22.9
100°	51.9	52.6	53.3	54.0	54.0	53.3	50.6	45.0	38.1	29.8	20.1
102.5°	48.5	48.5	49.2	49.2	49.9	48.5	45.7	40.9	33.9	26.3	17.3
105°	45.0	45.0	45.7	45.7	45.0	43.6	40.9	36.7	30.5	22.9	15.2
107.5°	42.2	42.2	42.2	42.2	41.5	40.2	37.4	32.5	27.0	20.8	13.8
110°	40.2	39.5	39.5	38.8	38.1	36.0	33.2	29.1	24.2	18.0	11.8



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	38.1	37.4	36.7	36.0	34.6	32.5	29.8	26.3	21.5	15.9	10.4
115°	36.0	35.3	34.6	33.2	31.9	29.8	27.0	23.5	18.7	13.8	9.0
117.5°	33.9	33.2	31.9	30.5	29.1	27.0	24.2	20.8	16.6	12.5	8.3
120°	31.2	30.5	29.8	28.4	27.0	24.2	21.5	18.7	14.5	11.1	6.9
122.5°	29.1	28.4	27.0	26.3	24.2	22.2	19.4	16.6	13.2	9.7	6.2
125°	26.3	25.6	24.9	23.5	22.2	19.4	17.3	14.5	11.8	8.3	4.8
127.5°	24.2	23.5	22.2	20.8	19.4	17.3	15.2	13.2	10.4	6.9	4.8
130°	21.5	20.8	20.1	18.7	17.3	15.2	13.8	11.1	9.0	6.2	4.2
132.5°	18.7	18.7	18.0	16.6	15.2	13.8	11.8	9.7	7.6	5.5	3.5
135°	17.3	16.6	15.9	14.5	13.8	11.8	10.4	8.3	6.2	4.8	2.8
137.5°	15.2	14.5	13.8	13.2	11.8	10.4	9.0	6.9	5.5	4.2	2.8
140°	13.2	12.5	12.5	11.1	10.4	9.0	7.6	6.2	4.8	3.5	2.1
142.5°	11.8	11.1	10.4	9.7	9.0	7.6	6.2	4.8	4.2	2.8	2.1
145°	10.4	9.7	9.0	8.3	7.6	6.2	5.5	4.2	3.5	2.8	2.1
147.5°	8.3	8.3	7.6	6.9	6.2	5.5	4.8	4.2	2.8	2.1	1.4
150°	6.9	6.9	6.2	5.5	5.5	4.8	4.2	3.5	2.8	2.1	1.4
152.5°	6.2	5.5	5.5	4.8	4.8	4.2	3.5	2.8	2.1	2.1	1.4
155°	4.8	4.8	4.8	4.2	4.2	3.5	2.8	2.8	2.1	1.4	1.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1342.7	1334.4	1341.3	1353.8	1352.4	1351.0	1349.6	1352.4	1361.4	1356.6	1349.0
5°	1340.6	1332.3	1339.9	1351.7	1351.0	1349.0	1347.6	1350.3	1359.3	1354.5	1346.2
7.5°	1336.5	1328.9	1334.4	1346.2	1346.2	1344.8	1343.4	1346.2	1354.5	1350.3	1342.0
10°	1329.6	1324.0	1329.6	1340.6	1341.3	1338.6	1337.2	1340.6	1349.0	1346.9	1339.9
12.5°	1324.0	1318.5	1324.7	1335.8	1336.5	1333.7	1331.6	1335.8	1346.9	1348.3	1346.2
15°	1316.4	1311.6	1319.2	1330.9	1330.9	1328.9	1328.9	1334.4	1349.6	1355.9	1359.3
17.5°	1305.3	1301.9	1310.9	1322.6	1323.3	1321.9	1322.6	1333.7	1353.8	1369.0	1378.7
20°	1291.5	1290.1	1299.8	1312.2	1314.3	1315.0	1318.5	1335.1	1362.8	1383.6	1393.3
22.5°	1274.9	1275.5	1286.6	1299.8	1302.6	1304.6	1311.6	1335.1	1369.7	1391.9	1396.0
25°	1256.2	1258.2	1270.0	1285.9	1289.4	1293.6	1305.3	1335.8	1371.8	1386.3	1379.4
27.5°	1236.1	1240.2	1255.5	1272.1	1276.2	1283.2	1298.4	1331.6	1362.1	1362.8	1337.2
30°	1215.3	1220.1	1238.2	1257.5	1264.5	1271.4	1290.1	1321.9	1338.6	1316.4	1271.4
32.5°	1191.8	1198.7	1216.7	1240.2	1248.5	1257.5	1276.2	1303.2	1297.0	1249.2	1184.8
35°	1162.0	1171.7	1192.5	1220.1	1227.8	1239.5	1252.7	1258.9	1231.2	1163.4	1090.7
37.5°	1125.3	1139.8	1164.1	1195.9	1204.2	1211.8	1215.3	1198.0	1142.6	1069.2	993.7
40°	1083.0	1105.2	1131.5	1166.8	1175.1	1175.1	1162.7	1126.0	1056.0	959.8	876.0
42.5°	1031.8	1058.8	1092.0	1127.4	1135.7	1126.0	1096.2	1031.8	952.2	844.8	756.2
45°	969.5	1005.5	1042.9	1079.6	1083.7	1062.3	1008.9	927.2	828.9	729.2	644.7
47.5°	895.4	942.5	983.3	1024.9	1019.3	983.3	912.0	819.2	715.3	621.2	553.3
50°	812.3	867.7	913.4	952.9	941.1	891.2	807.4	710.5	607.3	527.0	470.9
52.5°	723.6	787.3	833.1	864.9	849.0	789.4	697.3	604.5	520.1	446.6	409.3
55°	631.5	695.9	743.0	768.0	747.2	682.8	592.1	507.6	428.0	380.2	358.0
57.5°	542.2	602.5	646.8	666.9	640.5	576.1	492.4	421.0	363.6	323.4	312.3
60°	456.3	505.5	547.8	563.0	534.6	475.0	403.0	346.2	304.0	276.3	270.8
62.5°	376.7	416.9	450.1	461.9	434.2	387.8	325.5	283.2	253.4	239.6	232.7
65°	310.9	334.5	368.4	366.3	349.7	306.8	261.1	231.3	211.9	202.9	198.7
67.5°	244.4	265.9	287.4	290.1	269.4	239.6	209.8	188.4	178.0	173.1	171.0
70°	189.0	205.0	218.1	214.7	203.6	184.9	166.2	154.4	150.3	148.2	148.2
72.5°	146.8	155.1	161.3	157.2	150.3	140.6	131.6	126.7	127.4	128.8	130.2
75°	113.6	115.6	117.0	112.9	111.5	105.3	104.6	105.3	109.4	113.6	115.6
77.5°	87.3	84.5	82.4	78.3	78.9	78.3	81.7	87.3	93.5	99.7	105.3
80°	67.2	60.9	56.1	51.9	54.0	57.5	64.4	72.7	81.0	87.9	94.9
82.5°	51.9	42.9	36.0	31.9	36.0	41.5	50.6	60.9	70.6	78.3	85.9
85°	40.2	29.8	21.5	17.3	21.5	29.8	39.5	51.2	61.6	69.9	77.6
87.5°	31.2	21.5	11.8	6.9	11.8	20.8	31.9	42.9	53.3	63.0	70.6
90°	24.9	14.5	5.5	1.4	6.2	14.5	24.9	36.0	46.4	56.8	64.4
92.5°	20.1	10.4	2.8	0.0	3.5	11.1	20.8	31.2	41.5	51.2	58.9
95°	16.6	8.3	2.1	0.0	2.8	8.3	16.6	27.0	36.7	46.4	52.6
97.5°	13.8	6.2	1.4	0.0	1.4	6.9	13.8	22.9	32.5	41.5	47.8
100°	11.8	5.5	1.4	0.0	1.4	5.5	11.8	20.1	28.4	36.7	42.9
102.5°	9.7	4.2	0.7	0.7	0.7	4.2	10.4	17.3	24.9	32.5	38.8
105°	9.0	3.5	0.7	0.7	0.7	3.5	9.0	15.2	22.2	29.1	34.6
107.5°	7.6	2.8	0.7	0.7	0.7	2.8	7.6	13.2	20.1	26.3	31.2
110°	6.2	2.8	0.7	0.7	0.7	2.8	6.2	11.8	17.3	22.9	27.7



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	5.5	2.1	0.7	0.7	0.7	2.1	5.5	10.4	15.2	20.8	24.9
115°	4.8	2.1	0.7	0.7	0.7	2.1	4.8	9.0	13.2	18.0	22.2
117.5°	4.2	2.1	0.7	0.7	0.7	1.4	4.2	7.6	11.8	15.9	20.1
120°	3.5	1.4	0.7	0.7	0.7	1.4	3.5	6.9	10.4	13.8	17.3
122.5°	3.5	1.4	0.7	0.7	0.7	1.4	2.8	5.5	9.0	11.8	15.2
125°	2.8	1.4	0.7	0.7	0.7	0.7	2.8	4.8	7.6	10.4	13.2
127.5°	2.8	1.4	0.7	0.7	0.7	0.7	2.1	4.2	6.2	9.0	11.8
130°	2.1	1.4	0.7	0.7	0.7	0.7	1.4	3.5	5.5	7.6	9.7
132.5°	2.1	1.4	0.7	0.7	0.7	0.7	1.4	2.8	4.2	6.2	8.3
135°	2.1	0.7	0.7	0.7	0.7	0.7	0.7	2.1	3.5	4.8	6.2
137.5°	1.4	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.8	3.5	5.5
140°	1.4	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	2.8	4.2
142.5°	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	3.5
145°	1.4	0.7	0.7	1.4	1.4	0.7	0.7	1.4	1.4	2.1	2.8
147.5°	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.1
150°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1
152.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
155°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1347.6	1331.6	1339.9	1337.2	1339.9	1346.9	1346.2	1344.1	1345.5	1342.0	1338.6
5°	1344.8	1328.9	1337.2	1333.7	1337.2	1344.1	1342.7	1340.6	1342.7	1338.6	1335.1
7.5°	1341.3	1326.8	1336.5	1335.8	1342.0	1351.0	1351.7	1351.7	1356.6	1350.3	1347.6
10°	1341.3	1333.7	1346.9	1351.7	1367.6	1379.4	1380.8	1383.6	1391.9	1390.5	1383.6
12.5°	1355.9	1354.5	1373.9	1385.7	1400.2	1416.8	1425.8	1428.6	1434.1	1430.0	1427.2
15°	1374.6	1381.5	1403.0	1416.1	1432.0	1444.5	1446.6	1448.0	1452.1	1445.9	1441.1
17.5°	1399.5	1403.7	1421.0	1426.5	1436.9	1439.0	1436.2	1429.3	1429.3	1415.4	1411.3
20°	1411.3	1409.2	1416.1	1407.1	1403.0	1390.5	1378.7	1365.6	1364.9	1350.3	1349.0
22.5°	1400.9	1387.0	1372.5	1350.3	1340.6	1322.6	1306.7	1299.1	1294.2	1275.5	1270.7
25°	1364.2	1330.3	1308.8	1282.5	1258.9	1238.2	1222.9	1207.0	1191.8	1176.5	1169.6
27.5°	1300.5	1268.6	1234.0	1197.3	1164.8	1132.9	1107.3	1091.3	1076.8	1056.7	1046.3
30°	1222.2	1177.9	1139.8	1104.5	1051.2	1012.4	990.9	959.1	948.0	939.0	919.6
32.5°	1130.1	1076.8	1024.9	977.1	922.4	886.4	858.0	834.4	827.5	804.0	798.4
35°	1028.3	958.4	899.5	852.4	813.0	769.3	745.8	729.9	716.0	700.1	697.3
37.5°	908.5	845.5	779.0	737.5	706.3	668.9	650.9	639.9	633.6	621.8	619.8
40°	788.0	725.0	679.3	637.8	618.4	598.3	585.1	580.3	577.5	573.4	569.2
42.5°	678.6	623.2	590.7	563.0	554.7	545.0	541.5	544.3	541.5	540.1	539.4
45°	585.8	543.6	520.7	512.4	510.4	507.6	510.4	515.2	515.9	514.5	514.5
47.5°	501.4	481.3	471.6	473.0	476.4	478.5	483.4	489.6	491.0	487.5	488.9
50°	446.0	434.2	432.1	437.6	445.3	448.0	453.6	458.4	457.7	456.3	455.0
52.5°	394.0	390.6	396.1	401.6	409.9	411.3	413.4	415.5	414.8	412.0	410.6
55°	350.4	353.2	358.0	360.1	366.3	365.6	366.3	366.3	363.6	362.2	360.1
57.5°	310.9	311.6	314.4	315.1	318.5	317.2	316.5	315.1	310.9	310.2	308.2
60°	270.8	269.4	275.6	270.8	273.5	270.8	270.1	266.6	262.4	261.8	260.4
62.5°	232.7	229.9	234.1	232.0	233.4	230.6	229.2	225.1	221.6	220.9	220.2
65°	198.7	197.4	201.5	200.8	202.2	198.7	197.4	194.6	191.8	191.1	190.4
67.5°	170.4	173.8	175.9	175.9	177.3	176.6	173.1	172.4	171.7	169.0	169.0
70°	149.6	151.7	155.8	156.5	155.8	157.2	154.4	153.7	153.0	151.7	151.0
72.5°	133.0	135.7	139.9	140.6	139.9	139.9	138.5	137.8	137.8	135.7	135.7
75°	119.8	123.3	126.7	126.7	126.7	125.3	124.0	124.0	122.6	121.9	120.5
77.5°	108.7	112.9	115.6	115.0	114.3	112.9	112.9	110.8	108.7	108.7	107.3
80°	100.4	103.2	105.3	104.6	103.9	101.8	101.1	99.0	97.6	95.6	95.6
82.5°	91.4	94.9	96.3	95.6	94.2	92.1	91.4	90.0	88.6	87.9	86.6
85°	83.8	87.3	87.9	86.6	85.2	83.8	83.1	82.4	81.7	80.3	80.3
87.5°	76.2	79.6	79.6	78.9	77.6	76.9	76.2	75.5	74.8	74.1	73.4
90°	69.9	72.7	72.7	72.0	71.3	70.6	69.9	69.2	68.6	67.9	67.9
92.5°	63.7	66.5	66.5	65.8	65.1	64.4	64.4	63.7	63.0	62.3	61.6
95°	58.2	60.9	60.9	60.9	60.2	59.6	59.6	58.9	58.2	58.2	57.5
97.5°	52.6	55.4	55.4	55.4	54.7	54.0	54.0	53.3	53.3	53.3	52.6
100°	47.8	49.9	50.6	50.6	49.9	49.9	49.9	49.2	49.2	49.2	48.5
102.5°	42.9	45.0	46.4	46.4	46.4	45.7	45.7	45.7	45.7	45.7	45.0
105°	38.8	40.9	42.2	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
107.5°	35.3	37.4	38.8	39.5	40.2	40.2	40.9	40.9	40.9	40.9	40.9
110°	31.9	33.9	36.0	36.7	37.4	38.1	38.1	38.8	38.1	38.1	38.1



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	28.4	31.2	32.5	33.9	34.6	35.3	36.0	36.0	36.0	36.0	36.0
115°	25.6	28.4	29.8	31.2	32.5	33.2	33.2	33.9	33.9	33.9	33.2
117.5°	22.9	25.6	27.0	28.4	29.1	30.5	31.2	31.2	31.2	31.2	30.5
120°	20.8	22.9	24.2	25.6	27.0	27.7	28.4	28.4	28.4	28.4	28.4
122.5°	18.0	20.1	22.2	23.5	24.2	24.9	25.6	25.6	25.6	25.6	25.6
125°	15.9	18.0	19.4	20.8	21.5	22.9	22.9	22.9	22.9	22.9	22.9
127.5°	13.8	15.9	17.3	18.7	19.4	20.1	20.8	20.8	20.8	20.8	20.8
130°	11.8	13.8	15.2	16.6	17.3	18.0	18.0	18.7	18.7	18.7	18.7
132.5°	10.4	11.8	13.2	14.5	15.2	15.9	15.9	16.6	16.6	16.6	16.6
135°	8.3	10.4	11.1	12.5	13.2	13.8	13.8	14.5	14.5	14.5	14.5
137.5°	6.9	8.3	9.7	11.1	11.8	11.8	12.5	12.5	13.2	13.2	13.2
140°	5.5	6.2	8.3	9.0	9.7	10.4	11.1	11.1	11.1	11.1	11.1
142.5°	4.2	5.5	6.2	7.6	8.3	9.0	9.7	9.7	9.7	9.7	9.7
145°	3.5	4.2	4.8	6.2	6.9	7.6	8.3	8.3	8.3	8.3	8.3
147.5°	2.8	3.5	4.2	4.8	5.5	6.2	6.9	6.9	6.9	6.9	6.9
150°	2.1	2.8	3.5	3.5	4.2	4.8	5.5	6.2	6.2	6.2	6.2
152.5°	2.1	2.1	2.8	2.8	3.5	4.2	4.8	4.8	4.8	4.8	4.8
155°	1.4	2.1	2.1	2.1	2.8	2.8	3.5	4.2	4.2	4.2	4.2
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: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1340.6	1343.4	1342.0	1339.9	1339.3	1342.7	1339.3	1323.3	1329.6	1330.3	1335.1
5°	1338.6	1340.6	1339.3	1337.9	1335.8	1339.9	1335.8	1319.2	1325.4	1326.1	1330.9
7.5°	1352.4	1353.1	1353.1	1349.6	1344.1	1346.2	1340.6	1321.9	1325.4	1325.4	1328.9
10°	1387.0	1388.4	1390.5	1381.5	1374.6	1369.0	1361.4	1338.6	1337.9	1332.3	1332.3
12.5°	1432.0	1428.6	1425.1	1421.0	1415.4	1408.5	1397.4	1370.4	1361.4	1352.4	1343.4
15°	1445.2	1443.8	1443.1	1441.1	1437.6	1435.5	1427.2	1400.2	1387.0	1376.0	1360.0
17.5°	1410.6	1413.4	1422.4	1423.0	1427.2	1435.5	1434.1	1415.4	1403.7	1398.8	1379.4
20°	1348.3	1349.0	1360.0	1364.9	1382.9	1396.7	1407.1	1405.0	1402.3	1407.8	1393.3
22.5°	1273.5	1278.3	1290.1	1297.7	1315.0	1330.9	1347.6	1356.6	1371.1	1394.0	1391.2
25°	1171.7	1177.9	1194.5	1207.0	1231.2	1255.5	1277.6	1293.6	1310.9	1354.5	1369.0
27.5°	1049.8	1059.5	1081.0	1093.4	1127.4	1152.3	1184.1	1215.3	1239.5	1289.4	1319.2
30°	921.7	930.0	952.9	970.2	999.2	1033.2	1073.3	1117.7	1157.8	1208.4	1245.8
32.5°	801.9	810.9	829.6	844.8	877.4	905.8	950.1	1004.8	1042.2	1112.1	1162.0
35°	697.3	705.6	718.8	732.0	759.0	788.0	826.1	879.4	927.2	999.9	1063.0
37.5°	623.9	625.3	632.9	640.5	660.6	682.8	712.6	759.7	804.0	882.2	951.5
40°	571.3	571.3	575.5	577.5	586.5	599.7	618.4	655.1	691.8	751.3	835.8
42.5°	538.7	537.4	537.4	538.1	537.4	543.6	554.7	572.0	604.5	653.7	719.5
45°	514.5	511.7	509.7	504.8	502.0	502.0	502.7	509.0	527.7	559.5	612.8
47.5°	487.5	486.8	483.4	477.8	473.0	469.5	464.0	461.9	467.4	485.4	521.4
50°	456.3	452.9	449.4	445.3	439.7	436.3	425.9	426.6	421.7	430.0	448.7
52.5°	410.6	407.9	406.5	403.0	400.9	399.6	391.3	382.9	380.9	382.2	389.2
55°	360.1	361.5	355.9	358.7	358.0	351.8	348.3	342.1	340.0	339.3	342.8
57.5°	307.5	308.8	305.4	308.2	308.2	304.7	302.6	302.6	297.8	293.6	298.5
60°	259.7	256.9	259.0	262.4	262.4	260.4	259.0	259.0	255.5	254.1	257.6
62.5°	220.9	218.1	220.2	223.7	224.4	223.0	221.6	221.6	217.4	217.4	220.2
65°	191.1	191.8	191.1	193.9	193.9	194.6	193.2	191.8	187.0	189.0	188.4
67.5°	169.7	169.0	169.0	171.7	171.0	172.4	171.0	169.0	165.5	162.7	162.0
70°	151.7	151.0	151.0	152.3	153.0	153.0	152.3	151.0	146.1	143.3	141.3
72.5°	135.7	135.0	135.7	136.4	137.1	137.8	137.1	135.7	131.6	128.1	124.6
75°	121.2	120.5	122.6	122.6	123.3	123.3	124.0	123.3	119.8	115.6	111.5
77.5°	106.6	107.3	109.4	110.1	111.5	112.2	112.9	112.9	109.4	105.9	100.4
80°	94.9	96.3	97.6	98.3	99.7	101.8	102.5	103.2	100.4	96.9	90.7
82.5°	86.6	87.3	88.6	89.3	91.4	92.1	92.8	94.2	92.8	89.3	82.4
85°	79.6	80.3	81.7	81.7	83.1	84.5	85.2	85.9	85.2	81.7	74.8
87.5°	73.4	74.1	74.8	75.5	76.2	76.9	77.6	78.3	77.6	74.1	67.9
90°	67.9	67.9	68.6	68.6	69.2	69.9	71.3	71.3	70.6	67.9	61.6
92.5°	61.6	62.3	62.3	63.0	63.7	64.4	65.1	65.1	64.4	61.6	56.1
95°	57.5	57.5	58.2	58.2	58.9	58.9	59.6	59.6	58.9	56.1	50.6
97.5°	52.6	52.6	52.6	52.6	53.3	53.3	54.0	54.0	53.3	50.6	45.7
100°	48.5	48.5	48.5	48.5	48.5	49.2	49.2	49.2	48.5	45.7	40.9
102.5°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	43.6	41.5	36.7
105°	42.9	42.9	42.9	42.2	42.2	42.2	41.5	41.5	39.5	37.4	33.2
107.5°	40.2	40.2	40.2	39.5	39.5	38.8	38.1	38.1	36.0	33.9	29.8
110°	38.1	38.1	38.1	37.4	36.7	36.0	35.3	34.6	32.5	29.8	26.3





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	36.0	36.0	35.3	35.3	34.6	33.9	32.5	31.9	29.8	27.0	23.5
115°	33.2	33.2	33.2	32.5	31.9	31.2	30.5	29.1	27.0	24.2	20.8
117.5°	30.5	30.5	30.5	29.8	29.1	28.4	27.7	26.3	24.2	21.5	18.7
120°	27.7	27.7	27.7	27.0	26.3	25.6	24.9	23.5	21.5	19.4	15.9
122.5°	25.6	25.6	24.9	24.2	23.5	22.9	22.2	20.8	19.4	16.6	13.8
125°	22.9	22.9	22.2	22.2	21.5	20.8	20.1	18.7	16.6	14.5	12.5
127.5°	20.8	20.1	20.1	20.1	19.4	18.7	17.3	16.6	14.5	12.5	10.4
130°	18.0	18.0	18.0	17.3	17.3	16.6	15.2	13.8	12.5	11.1	9.0
132.5°	15.9	15.9	15.9	15.9	15.2	14.5	13.2	12.5	11.1	9.0	7.6
135°	14.5	14.5	13.8	13.8	13.2	12.5	11.8	10.4	9.0	7.6	6.2
137.5°	12.5	12.5	12.5	11.8	11.8	11.1	9.7	9.0	8.3	6.9	5.5
140°	11.1	11.1	10.4	10.4	9.7	9.7	9.0	7.6	6.9	5.5	4.8
142.5°	9.7	9.7	9.0	9.0	8.3	8.3	7.6	6.9	5.5	4.8	3.5
145°	8.3	8.3	7.6	7.6	7.6	6.9	6.2	5.5	4.8	4.2	3.5
147.5°	6.9	6.9	6.9	6.2	6.2	5.5	5.5	4.8	4.2	3.5	2.8
150°	6.2	6.2	5.5	5.5	5.5	4.8	4.2	4.2	3.5	2.8	2.1
152.5°	4.8	4.8	4.8	4.8	4.2	4.2	3.5	3.5	2.8	2.1	2.1
155°	4.2	4.2	4.2	3.5	3.5	3.5	2.8	2.8	2.1	2.1	1.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1333.0	1332.3	1338.6	1337.9	1329.6	1342.0	1350.3
5°	1329.6	1328.9	1334.4	1335.8	1326.8	1339.9	1349.0
7.5°	1326.8	1326.1	1332.3	1334.4	1325.4	1337.2	1346.9
10°	1327.5	1324.0	1329.6	1330.9	1322.6	1335.1	1343.4
12.5°	1332.3	1324.0	1326.1	1326.1	1318.5	1329.6	1338.6
15°	1344.1	1326.8	1324.0	1321.9	1312.2	1322.6	1331.6
17.5°	1357.3	1333.7	1324.0	1317.1	1305.3	1314.3	1324.0
20°	1370.4	1341.3	1325.4	1314.3	1298.4	1306.7	1313.6
22.5°	1376.6	1348.3	1326.8	1310.2	1290.1	1294.2	1301.9
25°	1368.3	1345.5	1324.0	1303.9	1279.7	1280.4	1286.6
27.5°	1337.9	1331.6	1317.8	1297.7	1271.4	1267.9	1272.8
30°	1285.9	1303.2	1303.9	1289.4	1261.7	1254.8	1256.9
32.5°	1213.2	1252.0	1274.9	1272.1	1247.8	1238.2	1239.5
35°	1129.4	1177.9	1227.8	1244.4	1227.1	1219.5	1216.7
37.5°	1029.0	1094.1	1160.6	1201.5	1198.7	1193.8	1191.1
40°	918.2	996.5	1075.4	1140.5	1160.6	1160.6	1162.0
42.5°	799.8	891.2	977.8	1060.2	1107.3	1117.7	1121.8
45°	685.6	777.7	871.8	966.7	1029.7	1062.3	1074.0
47.5°	581.7	674.5	763.8	867.7	951.5	993.7	1012.4
50°	493.0	562.3	656.5	759.7	851.1	903.0	939.7
52.5°	419.6	473.7	556.1	652.3	744.4	815.7	849.7
55°	358.0	394.7	464.7	547.8	635.7	709.8	749.3
57.5°	306.1	335.2	382.9	452.2	526.3	599.7	641.9
60°	260.4	280.5	313.0	367.7	430.7	493.7	534.6
62.5°	220.9	234.1	255.5	295.7	344.9	394.0	432.1
65°	190.4	196.0	207.7	232.7	270.1	307.5	340.0
67.5°	160.7	164.1	173.1	188.4	207.1	234.1	255.5
70°	138.5	138.5	139.2	148.2	157.9	175.2	190.4
72.5°	120.5	118.4	114.3	116.3	118.4	128.1	137.8
75°	105.9	101.1	94.2	91.4	90.0	91.4	96.9
77.5°	93.5	86.6	78.3	71.3	65.8	63.7	68.6
80°	83.1	74.8	65.1	56.1	47.1	42.2	44.3
82.5°	74.8	64.4	54.0	43.6	33.2	26.3	26.3
85°	65.8	56.1	45.0	33.9	23.5	14.5	13.2
87.5°	59.6	49.2	37.4	27.0	16.6	7.6	4.2
90°	53.3	42.9	31.9	21.5	11.8	3.5	0.0
92.5°	47.8	38.1	27.7	17.3	8.3	2.1	0.0
95°	42.9	33.9	23.5	14.5	6.9	1.4	0.7
97.5°	38.1	29.8	20.8	11.8	4.8	1.4	0.7
100°	34.6	26.3	18.0	9.7	4.2	0.7	0.7
102.5°	30.5	23.5	15.2	8.3	3.5	0.7	0.7
105°	27.0	20.8	13.2	6.9	2.8	0.7	0.7
107.5°	24.2	18.0	11.8	6.2	2.8	0.7	0.7
110°	21.5	15.9	10.4	5.5	2.1	0.7	0.7



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	19.4	13.8	9.0	4.8	1.4	0.7	0.7
115°	16.6	12.5	7.6	4.2	1.4	0.7	0.7
117.5°	14.5	10.4	6.9	3.5	1.4	0.7	0.7
120°	12.5	9.0	5.5	2.8	0.7	0.7	0.7
122.5°	11.1	7.6	4.8	2.8	0.7	0.7	0.7
125°	9.7	6.9	4.2	2.1	0.7	0.7	0.7
127.5°	8.3	5.5	3.5	1.4	0.7	0.7	0.7
130°	6.9	4.8	2.8	1.4	0.7	0.7	0.7
132.5°	5.5	4.2	2.8	1.4	0.7	0.7	0.7
135°	4.8	3.5	2.1	1.4	0.7	0.7	0.7
137.5°	4.2	2.8	1.4	1.4	1.4	0.7	0.7
140°	3.5	2.1	1.4	1.4	1.4	1.4	0.7
142.5°	2.8	2.1	1.4	1.4	1.4	1.4	0.7
145°	2.1	1.4	1.4	1.4	1.4	1.4	0.7
147.5°	2.1	1.4	1.4	1.4	1.4	1.4	0.7
150°	1.4	1.4	1.4	1.4	1.4	1.4	1.4
152.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4
155°	1.4	1.4	1.4	1.4	1.4	1.4	1.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)