

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: P1213417

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

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-41SL-LC-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

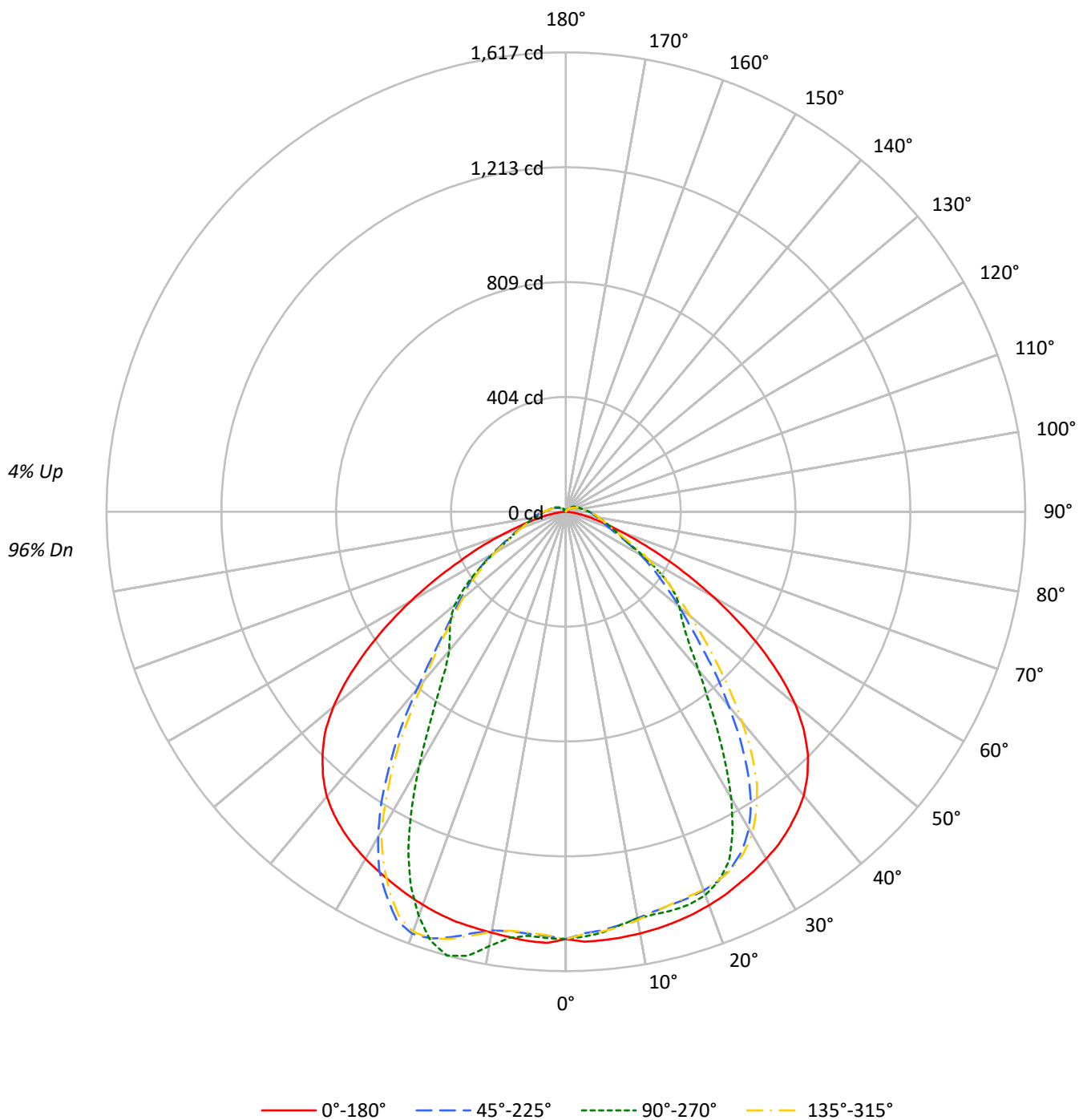
Lumens per Lamp: N/A
Luminaire Lumens: 3586.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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

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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	96
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	84	84	82
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	73	73	71
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	63	63	61
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	56	56	54
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	49	49	47
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	44	44	42
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	40	40	38
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	36	36	34
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	33	33	31
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12155	12155	12155	12155
5°	12245	11674	12270	11765
10°	12301	11188	12275	11948
15°	12396	11039	12390	12291
20°	12532	10864	12520	11452
25°	12687	10306	12681	9958
30°	12926	8932	12933	7913
35°	13179	7223	13216	6112
40°	13402	5815	13458	5124
45°	13355	4926	13424	4797
50°	12780	4535	12958	4434
55°	11338	4076	11622	3705
60°	9196	3120	9685	2861
65°	6837	2387	7365	2264
70°	4650	2061	5242	1970
75°	3042	1860	3540	1758
80°	1965	1733	2305	1594
85°	1011	1730	1325	1579

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 13424 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	4.0
10°-20°	425.1	11.9
20°-30°	646.3	18.0
30°-40°	693.3	19.3
40°-50°	601.8	16.8
50°-60°	446.0	12.4
60°-70°	255.5	7.1
70°-80°	141.5	3.9
80°-90°	86.2	2.4
90°-100°	56.0	1.6
100°-110°	37.5	1.0
110°-120°	25.3	0.7
120°-130°	15.5	0.4
130°-140°	8.2	0.2
140°-150°	3.7	0.1
150°-160°	1.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1214.3	33.9
0°-40°	1907.7	53.2
0°-60°	2955.4	82.4
0°-90°	3438.6	95.9
90°-120°	118.9	3.3
90°-150°	146.4	4.1
90°-180°	147.0	4.1
0°-180°	3586.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1504	1504	1504	1504	1504	
5°	1514	1486	1517	1498	1514	144
15°	1494	1452	1493	1617	1494	423
25°	1444	1358	1443	1312	1444	667
35°	1365	925	1369	782	1365	855
45°	1205	593	1211	577	1205	923
55°	841	444	862	404	841	746
65°	382	225	411	214	382	385
75°	109	143	127	135	109	124
85°	15	99	19	90	15	19
90°	0	82	2	76	0	1
95°	1	68	0	64	1	1
105°	1	50	1	48	1	1
115°	1	41	1	37	1	1
125°	1	31	1	26	1	1
135°	1	19	1	16	1	1
145°	1	12	2	9	1	1
155°	2	5	2	5	2	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°	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2
2.5°	1515.1	1511.2	1509.7	1506.6	1508.9	1518.2	1512.0	1501.9	1502.7	1484.8	1494.1
5°	1513.6	1508.9	1506.6	1503.5	1505.0	1513.6	1507.3	1497.2	1496.5	1478.6	1487.1
7.5°	1511.2	1506.6	1502.7	1500.4	1501.1	1508.1	1500.4	1488.7	1486.4	1466.9	1474.7
10°	1507.3	1504.2	1498.8	1494.9	1494.1	1501.9	1489.5	1477.8	1472.4	1452.2	1459.9
12.5°	1501.9	1497.2	1491.8	1484.8	1484.0	1488.7	1478.6	1462.3	1456.8	1440.5	1449.1
15°	1494.1	1488.7	1482.5	1474.7	1470.8	1473.9	1461.5	1446.7	1446.0	1432.0	1443.6
17.5°	1485.6	1477.8	1470.8	1459.9	1454.5	1456.8	1446.7	1433.5	1435.1	1426.5	1439.7
20°	1473.9	1465.4	1454.5	1443.6	1435.9	1439.7	1432.8	1422.7	1425.0	1418.8	1430.4
22.5°	1460.7	1449.1	1435.9	1423.4	1417.2	1422.7	1417.2	1408.7	1409.4	1405.6	1412.6
25°	1443.6	1430.4	1414.9	1399.3	1396.2	1400.1	1397.0	1390.0	1386.9	1380.7	1383.8
27.5°	1428.1	1413.3	1393.9	1377.6	1372.1	1379.9	1372.9	1361.3	1352.7	1344.2	1338.0
30°	1410.2	1392.4	1370.6	1351.9	1347.3	1350.4	1340.3	1322.4	1299.9	1289.0	1271.9
32.5°	1390.8	1367.5	1340.3	1319.3	1316.2	1313.9	1295.2	1269.6	1234.6	1212.9	1186.5
35°	1365.2	1339.5	1306.9	1281.2	1276.6	1263.4	1233.1	1198.9	1153.8	1116.5	1071.5
37.5°	1336.4	1306.1	1271.9	1237.7	1224.5	1198.1	1155.4	1119.6	1051.3	1006.2	951.8
40°	1303.8	1267.3	1225.3	1184.1	1162.4	1119.6	1070.7	1017.8	951.8	891.2	845.4
42.5°	1258.7	1219.9	1170.1	1124.3	1087.0	1030.3	972.8	898.2	837.6	786.3	739.7
45°	1205.1	1158.5	1101.0	1045.8	998.4	930.8	863.2	788.6	738.1	678.3	646.4
47.5°	1135.9	1085.4	1024.1	962.7	900.5	825.9	755.2	683.7	633.2	590.5	567.2
50°	1054.4	1007.7	940.1	867.1	798.7	721.0	650.3	596.7	547.8	521.4	503.5
52.5°	953.4	909.8	840.7	761.4	695.4	619.3	554.8	511.3	476.3	456.9	450.6
55°	840.7	802.6	734.2	660.4	592.8	522.9	474.0	435.9	413.4	401.7	402.5
57.5°	720.3	690.7	626.2	560.2	496.5	443.7	399.4	369.1	352.0	351.2	353.5
60°	599.8	578.1	522.1	465.4	409.5	366.7	334.1	313.1	302.2	303.0	302.2
62.5°	484.8	464.6	424.2	377.6	333.3	304.6	275.1	266.5	257.2	256.4	256.4
65°	381.5	366.0	333.3	299.9	266.5	247.9	233.1	223.0	216.0	214.4	215.2
67.5°	286.7	280.5	258.0	235.4	214.4	202.8	190.4	188.0	182.6	182.6	184.1
70°	213.7	209.0	196.6	183.4	174.8	167.1	160.8	160.8	160.1	159.3	163.2
72.5°	154.6	155.4	151.5	141.4	140.6	139.1	137.5	139.9	140.6	143.0	147.6
75°	108.8	111.1	111.1	109.6	112.7	116.5	118.9	122.8	127.4	130.5	136.0
77.5°	76.9	76.9	80.8	85.5	91.7	98.7	104.9	110.3	116.5	120.4	125.1
80°	49.7	52.1	58.3	66.8	75.4	84.7	93.2	100.2	106.4	112.7	115.8
82.5°	29.5	33.4	41.2	52.1	62.9	74.6	83.1	91.7	98.7	104.9	107.2
85°	14.8	20.2	29.5	41.2	52.8	65.3	76.1	83.9	91.7	97.1	100.2
87.5°	4.7	10.9	21.0	31.9	44.3	56.7	68.4	76.9	83.9	88.6	91.7
90°	0.0	5.4	14.8	26.4	38.1	50.5	61.4	70.7	77.7	81.6	83.9
92.5°	0.0	3.1	11.7	21.8	32.6	45.1	55.9	64.5	70.7	74.6	76.1
95°	0.8	2.3	8.5	17.9	28.7	40.4	50.5	58.3	64.5	68.4	69.2
97.5°	0.8	1.6	7.0	14.8	24.9	35.7	45.8	53.6	58.3	62.2	62.9
100°	0.8	1.6	5.4	13.2	21.8	31.9	41.2	48.2	53.6	56.7	57.5
102.5°	0.8	0.8	4.7	10.9	19.4	28.0	36.5	43.5	48.2	51.3	52.8
105°	0.8	0.8	3.9	9.3	17.1	24.9	32.6	39.6	43.5	46.6	48.2
107.5°	0.8	0.8	3.1	7.8	14.8	21.8	29.5	35.0	39.6	42.7	44.3
110°	0.8	0.8	2.3	7.0	12.4	19.4	25.6	31.1	35.7	38.8	40.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.8	0.8	2.3	6.2	10.9	17.1	22.5	28.0	31.9	35.0	37.3
115°	0.8	0.8	2.3	5.4	10.1	14.8	20.2	24.9	28.7	31.9	34.2
117.5°	0.8	0.8	2.3	4.7	8.5	13.2	17.9	22.5	25.6	28.7	31.1
120°	0.8	0.8	1.6	3.9	7.8	11.7	15.5	19.4	23.3	26.4	28.7
122.5°	0.8	0.8	1.6	3.9	6.2	10.1	14.0	17.1	21.0	23.3	25.6
125°	0.8	0.8	1.6	3.1	5.4	9.3	12.4	15.5	17.9	21.0	23.3
127.5°	0.8	0.8	1.6	3.1	4.7	7.8	10.9	14.0	16.3	18.6	20.2
130°	0.8	0.8	1.6	2.3	3.9	6.2	9.3	11.7	14.8	16.3	17.9
132.5°	0.8	0.8	0.8	2.3	3.1	4.7	7.0	10.1	12.4	14.8	15.5
135°	0.8	0.8	0.8	1.6	3.1	3.9	5.4	7.8	10.1	12.4	14.0
137.5°	0.8	0.8	0.8	1.6	2.3	3.9	4.7	6.2	8.5	10.1	12.4
140°	0.8	0.8	0.8	1.6	2.3	3.1	3.9	5.4	7.0	8.5	10.1
142.5°	0.8	0.8	0.8	1.6	1.6	2.3	3.1	4.7	5.4	7.0	8.5
145°	0.8	0.8	0.8	1.6	1.6	2.3	3.1	3.9	4.7	5.4	7.0
147.5°	0.8	0.8	0.8	1.6	1.6	1.6	2.3	3.1	3.9	4.7	5.4
150°	1.6	1.6	1.6	1.6	1.6	1.6	2.3	2.3	3.1	3.9	4.7
152.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.3	2.3	2.3	3.1	3.9
155°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.3	2.3	3.1	3.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2
2.5°	1491.0	1492.6	1501.9	1501.1	1499.6	1498.0	1498.0	1496.5	1498.0	1501.9	1500.4
5°	1483.3	1485.6	1492.6	1491.8	1490.3	1489.5	1488.7	1486.4	1487.9	1493.4	1491.8
7.5°	1469.3	1471.6	1477.8	1474.7	1472.4	1473.9	1470.0	1467.7	1470.8	1476.3	1475.5
10°	1454.5	1456.1	1463.8	1462.3	1458.4	1459.2	1455.3	1453.7	1457.6	1460.7	1461.5
12.5°	1444.4	1449.8	1456.8	1456.1	1455.3	1456.1	1452.2	1450.6	1453.0	1456.1	1455.3
15°	1442.1	1449.1	1456.8	1456.8	1457.6	1458.4	1454.5	1452.2	1454.5	1456.8	1456.1
17.5°	1439.7	1448.3	1455.3	1454.5	1455.3	1456.8	1450.6	1449.1	1452.2	1455.3	1453.7
20°	1432.0	1439.7	1444.4	1442.9	1442.9	1443.6	1435.9	1435.9	1440.5	1442.9	1443.6
22.5°	1410.2	1419.5	1419.5	1415.7	1415.7	1412.6	1410.2	1405.6	1411.0	1414.9	1418.0
25°	1377.6	1381.5	1376.8	1368.3	1363.6	1359.7	1348.8	1358.2	1358.2	1369.8	1373.7
27.5°	1331.7	1323.2	1310.0	1292.1	1288.2	1275.8	1268.8	1271.1	1275.0	1291.3	1303.8
30°	1256.4	1230.7	1208.2	1200.4	1183.3	1170.9	1158.5	1164.7	1171.7	1181.0	1206.7
32.5°	1156.9	1132.1	1095.5	1082.3	1064.5	1048.9	1034.2	1043.5	1055.9	1062.1	1090.1
35°	1042.7	1013.2	979.8	957.2	938.6	930.0	911.4	924.6	937.8	942.5	966.6
37.5°	921.5	891.2	861.7	842.2	824.4	818.9	806.5	815.8	825.9	832.9	853.1
40°	806.5	778.5	756.0	742.8	730.4	725.7	721.0	724.9	732.7	738.1	753.7
42.5°	707.8	685.3	669.8	662.0	653.4	647.2	648.0	649.6	653.4	665.1	672.1
45°	621.6	608.4	598.3	596.7	591.3	590.5	589.7	592.8	595.2	602.2	607.6
47.5°	552.4	547.0	544.7	547.8	550.1	547.0	548.5	552.4	557.1	557.1	556.3
50°	498.0	499.6	502.7	509.7	514.4	515.9	517.5	522.1	522.9	524.5	522.1
52.5°	453.8	455.3	463.9	474.7	480.2	482.5	485.6	490.3	490.3	491.8	488.7
55°	408.7	411.0	419.6	430.4	435.1	438.2	441.3	444.4	446.8	449.9	447.5
57.5°	359.0	366.0	371.4	374.5	377.6	379.9	382.3	383.1	387.7	388.5	392.4
60°	306.1	307.7	313.1	312.3	310.0	316.2	313.1	318.6	324.0	331.0	331.8
62.5°	255.6	256.4	260.3	258.7	261.8	261.1	263.4	263.4	267.3	270.4	274.3
65°	216.0	216.8	219.9	219.9	219.1	221.4	223.8	225.3	225.3	227.7	230.8
67.5°	186.5	188.8	191.9	193.5	195.0	195.0	197.4	198.1	199.7	200.5	202.0
70°	166.3	169.4	172.5	174.0	174.8	176.4	177.2	177.2	178.7	179.5	181.0
72.5°	151.5	154.6	157.0	157.0	158.5	159.3	159.3	160.1	160.8	162.4	163.9
75°	139.1	141.4	143.0	142.2	142.2	142.2	143.0	143.0	144.5	146.1	147.6
77.5°	127.4	129.8	129.8	128.2	128.2	128.2	128.2	129.0	129.8	131.3	132.9
80°	118.9	118.9	118.1	118.1	116.5	115.8	115.8	116.5	116.5	118.1	120.4
82.5°	109.6	109.6	108.8	108.0	107.2	106.4	106.4	107.2	108.0	108.8	110.3
85°	101.0	101.0	99.5	99.5	98.7	98.7	98.7	98.7	99.5	100.2	101.8
87.5°	92.5	91.7	90.9	90.1	90.1	90.1	90.1	90.1	90.9	92.5	93.2
90°	83.9	83.1	82.4	82.4	81.6	81.6	82.4	82.4	83.1	83.9	84.7
92.5°	76.1	75.4	74.6	74.6	73.8	73.8	74.6	73.8	75.4	75.4	76.1
95°	69.2	68.4	67.6	67.6	67.6	67.6	67.6	67.6	68.4	68.4	69.2
97.5°	62.9	62.2	61.4	61.4	62.2	61.4	62.2	62.2	62.2	62.9	63.7
100°	57.5	56.7	56.7	57.5	56.7	56.7	57.5	57.5	57.5	57.5	58.3
102.5°	52.8	52.8	52.8	52.8	52.8	52.8	53.6	53.6	53.6	53.6	54.4
105°	48.2	48.9	48.9	48.9	49.7	49.7	49.7	50.5	50.5	50.5	50.5
107.5°	45.1	45.8	45.8	46.6	46.6	47.4	47.4	47.4	47.4	48.2	48.2
110°	42.0	42.7	43.5	44.3	44.3	45.1	45.1	45.1	45.1	45.1	45.1

TEST NUMBER: P1213417

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	38.8	39.6	40.4	42.0	42.7	42.7	42.7	42.7	43.5	43.5	42.7
115°	35.7	37.3	38.1	39.6	40.4	40.4	41.2	41.2	41.2	41.2	40.4
117.5°	32.6	35.0	35.7	37.3	38.1	38.1	38.8	38.8	38.8	38.8	38.1
120°	30.3	31.9	33.4	34.2	35.0	35.7	35.7	36.5	36.5	36.5	35.7
122.5°	28.0	29.5	31.1	31.9	32.6	33.4	33.4	33.4	33.4	33.4	33.4
125°	24.9	26.4	28.0	28.7	29.5	30.3	30.3	31.1	31.1	31.1	30.3
127.5°	22.5	24.1	24.9	26.4	27.2	27.2	28.0	28.0	28.0	28.0	27.2
130°	19.4	21.0	22.5	23.3	24.1	24.1	24.9	24.9	24.9	24.9	24.9
132.5°	17.1	18.6	19.4	21.0	21.0	21.8	21.8	22.5	22.5	22.5	21.8
135°	15.5	16.3	17.1	18.6	18.6	19.4	19.4	19.4	19.4	19.4	19.4
137.5°	14.0	14.8	15.5	16.3	16.3	17.1	17.1	17.1	17.1	17.9	17.1
140°	11.7	13.2	14.0	14.0	14.8	14.8	14.8	15.5	15.5	15.5	14.8
142.5°	10.1	10.9	11.7	12.4	13.2	13.2	13.2	13.2	14.0	13.2	13.2
145°	7.8	9.3	10.1	10.9	11.7	11.7	11.7	11.7	11.7	11.7	11.7
147.5°	6.2	7.0	8.5	9.3	9.3	10.1	10.1	10.1	10.1	10.1	10.1
150°	5.4	5.4	7.0	7.8	8.5	8.5	8.5	8.5	8.5	8.5	8.5
152.5°	3.9	4.7	5.4	6.2	7.0	7.0	7.0	7.0	7.0	7.0	7.0
155°	3.9	3.9	4.7	4.7	5.4	5.4	5.4	5.4	6.2	5.4	5.4
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: P1213417

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2
2.5°	1498.0	1497.2	1500.4	1497.2	1481.7	1487.9	1485.6	1494.1	1494.9	1497.2	1505.0
5°	1490.3	1490.3	1494.1	1491.0	1476.3	1482.5	1481.7	1490.3	1491.8	1493.4	1501.9
7.5°	1474.7	1475.5	1480.9	1478.6	1463.1	1472.4	1471.6	1481.7	1484.8	1487.9	1495.7
10°	1459.9	1459.2	1465.4	1463.1	1448.3	1459.2	1458.4	1468.5	1473.2	1478.6	1487.9
12.5°	1452.2	1449.8	1452.2	1449.8	1433.5	1442.1	1442.9	1454.5	1459.9	1466.9	1477.8
15°	1452.2	1448.3	1448.3	1443.6	1425.0	1430.4	1431.2	1439.0	1446.0	1453.0	1466.2
17.5°	1450.6	1446.7	1446.0	1442.1	1421.9	1421.9	1421.1	1426.5	1430.4	1437.4	1451.4
20°	1442.1	1440.5	1439.7	1437.4	1418.8	1415.7	1414.1	1414.1	1416.4	1418.8	1432.8
22.5°	1419.5	1421.1	1422.7	1424.2	1409.4	1404.0	1404.8	1403.2	1400.9	1400.9	1412.6
25°	1377.6	1385.4	1391.6	1398.6	1390.0	1386.1	1390.8	1388.5	1384.6	1381.5	1391.6
27.5°	1310.8	1327.1	1340.3	1357.4	1358.2	1355.1	1367.5	1365.9	1365.2	1360.5	1368.3
30°	1218.3	1243.9	1261.8	1286.7	1307.7	1310.8	1331.7	1334.9	1338.0	1335.6	1343.4
32.5°	1106.4	1141.4	1171.7	1210.5	1230.7	1248.6	1278.1	1290.6	1303.0	1306.9	1315.4
35°	984.4	1024.1	1059.8	1102.5	1134.4	1173.2	1209.0	1227.6	1255.6	1266.5	1278.9
37.5°	868.7	906.0	940.9	983.7	1034.9	1075.3	1119.6	1161.6	1199.7	1215.2	1233.8
40°	766.1	796.4	829.8	867.1	913.7	966.6	1014.7	1073.0	1118.1	1149.2	1176.3
42.5°	688.4	703.2	731.9	765.3	802.6	856.2	905.2	970.4	1024.8	1069.1	1114.2
45°	619.3	626.2	647.2	665.1	703.2	750.6	802.6	866.3	923.1	979.8	1034.2
47.5°	560.2	568.8	578.9	589.7	616.9	656.5	701.6	759.1	815.8	881.9	944.0
50°	520.6	522.9	524.5	529.1	545.4	572.6	609.2	658.1	712.5	783.2	849.2
52.5°	485.6	485.6	481.0	478.6	484.8	501.9	522.9	557.9	613.8	679.1	749.0
55°	448.3	441.3	439.8	432.0	433.6	441.3	451.4	478.6	524.5	580.4	648.0
57.5°	396.3	393.2	393.2	390.0	383.8	387.7	390.0	409.5	442.1	490.3	549.3
60°	336.4	334.9	338.8	339.5	334.1	336.4	335.7	347.3	370.6	409.5	458.4
62.5°	276.6	283.6	284.4	287.5	284.4	283.6	287.5	297.6	309.2	338.8	376.8
65°	232.3	236.2	237.0	240.9	239.3	239.3	242.4	250.2	257.2	277.4	306.9
67.5°	203.6	202.0	202.8	205.1	202.8	202.0	204.3	209.0	214.4	226.9	247.9
70°	181.0	179.5	179.5	179.5	176.4	174.0	174.8	176.4	178.7	185.7	198.9
72.5°	163.9	163.9	161.6	159.3	157.0	155.4	153.8	152.3	151.5	153.8	160.8
75°	148.4	149.2	148.4	146.1	143.0	139.9	136.7	133.6	129.8	128.2	129.0
77.5°	134.4	135.2	136.0	135.2	132.1	128.2	123.5	118.9	113.4	108.0	104.9
80°	122.0	123.5	124.3	123.5	121.2	118.1	112.7	107.2	99.5	92.5	84.7
82.5°	111.1	113.4	114.2	114.2	112.7	109.6	103.3	97.1	88.6	79.3	69.2
85°	102.6	104.1	105.7	105.7	104.9	101.8	95.6	88.6	80.0	69.2	58.3
87.5°	94.0	94.8	96.3	97.9	96.3	93.2	87.8	80.0	71.5	60.6	48.2
90°	85.5	86.2	87.8	89.4	88.6	85.5	80.8	73.8	64.5	52.8	40.4
92.5°	76.9	78.5	79.3	80.0	80.8	78.5	74.6	67.6	58.3	46.6	35.0
95°	70.7	70.7	72.3	73.0	73.8	71.5	68.4	61.4	52.8	42.0	30.3
97.5°	64.5	64.5	66.0	66.0	66.8	65.3	62.2	55.9	47.4	37.3	25.6
100°	58.3	59.1	59.8	60.6	60.6	59.8	56.7	50.5	42.7	33.4	22.5
102.5°	54.4	54.4	55.2	55.2	55.9	54.4	51.3	45.8	38.1	29.5	19.4
105°	50.5	50.5	51.3	51.3	50.5	48.9	45.8	41.2	34.2	25.6	17.1
107.5°	47.4	47.4	47.4	47.4	46.6	45.1	42.0	36.5	30.3	23.3	15.5
110°	45.1	44.3	44.3	43.5	42.7	40.4	37.3	32.6	27.2	20.2	13.2

TEST NUMBER: P1213417

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	42.7	42.0	41.2	40.4	38.8	36.5	33.4	29.5	24.1	17.9	11.7
115°	40.4	39.6	38.8	37.3	35.7	33.4	30.3	26.4	21.0	15.5	10.1
117.5°	38.1	37.3	35.7	34.2	32.6	30.3	27.2	23.3	18.6	14.0	9.3
120°	35.0	34.2	33.4	31.9	30.3	27.2	24.1	21.0	16.3	12.4	7.8
122.5°	32.6	31.9	30.3	29.5	27.2	24.9	21.8	18.6	14.8	10.9	7.0
125°	29.5	28.7	28.0	26.4	24.9	21.8	19.4	16.3	13.2	9.3	5.4
127.5°	27.2	26.4	24.9	23.3	21.8	19.4	17.1	14.8	11.7	7.8	5.4
130°	24.1	23.3	22.5	21.0	19.4	17.1	15.5	12.4	10.1	7.0	4.7
132.5°	21.0	21.0	20.2	18.6	17.1	15.5	13.2	10.9	8.5	6.2	3.9
135°	19.4	18.6	17.9	16.3	15.5	13.2	11.7	9.3	7.0	5.4	3.1
137.5°	17.1	16.3	15.5	14.8	13.2	11.7	10.1	7.8	6.2	4.7	3.1
140°	14.8	14.0	14.0	12.4	11.7	10.1	8.5	7.0	5.4	3.9	2.3
142.5°	13.2	12.4	11.7	10.9	10.1	8.5	7.0	5.4	4.7	3.1	2.3
145°	11.7	10.9	10.1	9.3	8.5	7.0	6.2	4.7	3.9	3.1	2.3
147.5°	9.3	9.3	8.5	7.8	7.0	6.2	5.4	4.7	3.1	2.3	1.6
150°	7.8	7.8	7.0	6.2	6.2	5.4	4.7	3.9	3.1	2.3	1.6
152.5°	7.0	6.2	6.2	5.4	5.4	4.7	3.9	3.1	2.3	2.3	1.6
155°	5.4	5.4	5.4	4.7	4.7	3.9	3.1	3.1	2.3	1.6	1.6
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: P1213417

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2
2.5°	1506.6	1497.2	1505.0	1519.0	1517.4	1515.9	1514.3	1517.4	1527.5	1522.1	1513.6
5°	1504.2	1494.9	1503.5	1516.7	1515.9	1513.6	1512.0	1515.1	1525.2	1519.8	1510.5
7.5°	1499.6	1491.0	1497.2	1510.5	1510.5	1508.9	1507.3	1510.5	1519.8	1515.1	1505.8
10°	1491.8	1485.6	1491.8	1504.2	1505.0	1501.9	1500.4	1504.2	1513.6	1511.2	1503.5
12.5°	1485.6	1479.4	1486.4	1498.8	1499.6	1496.5	1494.1	1498.8	1511.2	1512.8	1510.5
15°	1477.0	1471.6	1480.1	1493.4	1493.4	1491.0	1491.0	1497.2	1514.3	1521.3	1525.2
17.5°	1464.6	1460.7	1470.8	1484.0	1484.8	1483.3	1484.0	1496.5	1519.0	1536.1	1547.0
20°	1449.1	1447.5	1458.4	1472.4	1474.7	1475.5	1479.4	1498.0	1529.1	1552.4	1563.3
22.5°	1430.4	1431.2	1443.6	1458.4	1461.5	1463.8	1471.6	1498.0	1536.9	1561.7	1566.4
25°	1409.4	1411.8	1425.0	1442.9	1446.7	1451.4	1464.6	1498.8	1539.2	1555.5	1547.7
27.5°	1386.9	1391.6	1408.7	1427.3	1432.0	1439.7	1456.8	1494.1	1528.3	1529.1	1500.4
30°	1363.6	1369.0	1389.2	1411.0	1418.8	1426.5	1447.5	1483.3	1501.9	1477.0	1426.5
32.5°	1337.2	1345.0	1365.2	1391.6	1400.9	1411.0	1432.0	1462.3	1455.3	1401.7	1329.4
35°	1303.8	1314.7	1338.0	1369.0	1377.6	1390.8	1405.6	1412.6	1381.5	1305.3	1223.7
37.5°	1262.6	1278.9	1306.1	1341.8	1351.2	1359.7	1363.6	1344.2	1282.0	1199.7	1115.0
40°	1215.2	1240.1	1269.6	1309.2	1318.5	1318.5	1304.6	1263.4	1184.9	1076.9	982.9
42.5°	1157.7	1188.0	1225.3	1264.9	1274.2	1263.4	1230.0	1157.7	1068.3	947.9	848.5
45°	1087.8	1128.2	1170.1	1211.3	1216.0	1191.9	1132.1	1040.4	930.0	818.2	723.4
47.5°	1004.6	1057.5	1103.3	1149.9	1143.7	1103.3	1023.3	919.2	802.6	697.0	620.8
50°	911.4	973.6	1024.8	1069.1	1055.9	1000.0	906.0	797.2	681.4	591.3	528.3
52.5°	811.9	883.4	934.7	970.4	952.6	885.8	782.4	678.3	583.5	501.2	459.2
55°	708.6	780.9	833.7	861.7	838.4	766.1	664.3	569.5	480.2	426.6	401.7
57.5°	608.4	676.0	725.7	748.2	718.7	646.4	552.4	472.4	407.9	362.9	350.4
60°	512.0	567.2	614.6	631.7	599.8	533.0	452.2	388.5	341.1	310.0	303.8
62.5°	422.7	467.7	505.0	518.2	487.2	435.1	365.2	317.8	284.4	268.8	261.1
65°	348.9	375.3	413.4	411.0	392.4	344.2	292.9	259.5	237.8	227.7	223.0
67.5°	274.3	298.4	322.4	325.6	302.2	268.8	235.4	211.3	199.7	194.2	191.9
70°	212.1	230.0	244.7	240.9	228.4	207.5	186.5	173.3	168.6	166.3	166.3
72.5°	164.7	174.0	181.0	176.4	168.6	157.7	147.6	142.2	143.0	144.5	146.1
75°	127.4	129.8	131.3	126.6	125.1	118.1	117.3	118.1	122.8	127.4	129.8
77.5°	97.9	94.8	92.5	87.8	88.6	87.8	91.7	97.9	104.9	111.9	118.1
80°	75.4	68.4	62.9	58.3	60.6	64.5	72.3	81.6	90.9	98.7	106.4
82.5°	58.3	48.2	40.4	35.7	40.4	46.6	56.7	68.4	79.3	87.8	96.3
85°	45.1	33.4	24.1	19.4	24.1	33.4	44.3	57.5	69.2	78.5	87.0
87.5°	35.0	24.1	13.2	7.8	13.2	23.3	35.7	48.2	59.8	70.7	79.3
90°	28.0	16.3	6.2	1.6	7.0	16.3	28.0	40.4	52.1	63.7	72.3
92.5°	22.5	11.7	3.1	0.0	3.9	12.4	23.3	35.0	46.6	57.5	66.0
95°	18.6	9.3	2.3	0.0	3.1	9.3	18.6	30.3	41.2	52.1	59.1
97.5°	15.5	7.0	1.6	0.0	1.6	7.8	15.5	25.6	36.5	46.6	53.6
100°	13.2	6.2	1.6	0.0	1.6	6.2	13.2	22.5	31.9	41.2	48.2
102.5°	10.9	4.7	0.8	0.8	0.8	4.7	11.7	19.4	28.0	36.5	43.5
105°	10.1	3.9	0.8	0.8	0.8	3.9	10.1	17.1	24.9	32.6	38.8
107.5°	8.5	3.1	0.8	0.8	0.8	3.1	8.5	14.8	22.5	29.5	35.0
110°	7.0	3.1	0.8	0.8	0.8	3.1	7.0	13.2	19.4	25.6	31.1

TEST NUMBER: P1213417

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	6.2	2.3	0.8	0.8	0.8	2.3	6.2	11.7	17.1	23.3	28.0
115°	5.4	2.3	0.8	0.8	0.8	2.3	5.4	10.1	14.8	20.2	24.9
117.5°	4.7	2.3	0.8	0.8	0.8	1.6	4.7	8.5	13.2	17.9	22.5
120°	3.9	1.6	0.8	0.8	0.8	1.6	3.9	7.8	11.7	15.5	19.4
122.5°	3.9	1.6	0.8	0.8	0.8	1.6	3.1	6.2	10.1	13.2	17.1
125°	3.1	1.6	0.8	0.8	0.8	0.8	3.1	5.4	8.5	11.7	14.8
127.5°	3.1	1.6	0.8	0.8	0.8	0.8	2.3	4.7	7.0	10.1	13.2
130°	2.3	1.6	0.8	0.8	0.8	0.8	1.6	3.9	6.2	8.5	10.9
132.5°	2.3	1.6	0.8	0.8	0.8	0.8	1.6	3.1	4.7	7.0	9.3
135°	2.3	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.9	5.4	7.0
137.5°	1.6	0.8	0.8	0.8	0.8	0.8	0.8	1.6	3.1	3.9	6.2
140°	1.6	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.3	3.1	4.7
142.5°	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.3	3.9
145°	1.6	0.8	0.8	1.6	1.6	0.8	0.8	1.6	1.6	2.3	3.1
147.5°	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.3
150°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.3
152.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
155°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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: P1213417

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2
2.5°	1512.0	1494.1	1503.5	1500.4	1503.5	1511.2	1510.5	1508.1	1509.7	1505.8	1501.9
5°	1508.9	1491.0	1500.4	1496.5	1500.4	1508.1	1506.6	1504.2	1506.6	1501.9	1498.0
7.5°	1505.0	1488.7	1499.6	1498.8	1505.8	1515.9	1516.7	1516.7	1522.1	1515.1	1512.0
10°	1505.0	1496.5	1511.2	1516.7	1534.5	1547.7	1549.3	1552.4	1561.7	1560.2	1552.4
12.5°	1521.3	1519.8	1541.5	1554.7	1571.1	1589.7	1599.8	1602.9	1609.1	1604.5	1601.4
15°	1542.3	1550.1	1574.2	1588.9	1606.8	1620.8	1623.1	1624.7	1629.3	1622.3	1616.9
17.5°	1570.3	1574.9	1594.4	1600.6	1612.2	1614.6	1611.5	1603.7	1603.7	1588.2	1583.5
20°	1583.5	1581.2	1588.9	1578.8	1574.2	1560.2	1547.0	1532.2	1531.4	1515.1	1513.6
22.5°	1571.8	1556.3	1540.0	1515.1	1504.2	1484.0	1466.2	1457.6	1452.2	1431.2	1425.8
25°	1530.7	1492.6	1468.5	1439.0	1412.6	1389.2	1372.1	1354.3	1337.2	1320.1	1312.3
27.5°	1459.2	1423.4	1384.6	1343.4	1306.9	1271.1	1242.4	1224.5	1208.2	1185.7	1174.0
30°	1371.4	1321.6	1278.9	1239.3	1179.5	1135.9	1111.9	1076.1	1063.7	1053.6	1031.8
32.5°	1268.0	1208.2	1149.9	1096.3	1034.9	994.5	962.7	936.3	928.5	902.1	895.9
35°	1153.8	1075.3	1009.3	956.5	912.2	863.2	836.8	818.9	803.4	785.5	782.4
37.5°	1019.4	948.7	874.1	827.5	792.5	750.6	730.4	717.9	710.9	697.7	695.4
40°	884.2	813.5	762.2	715.6	693.8	671.3	656.5	651.1	648.0	643.3	638.7
42.5°	761.4	699.3	662.8	631.7	622.4	611.5	607.6	610.7	607.6	606.0	605.3
45°	657.3	609.9	584.3	575.0	572.6	569.5	572.6	578.1	578.9	577.3	577.3
47.5°	562.5	540.0	529.1	530.7	534.6	536.9	542.3	549.3	550.9	547.0	548.5
50°	500.4	487.2	484.8	491.1	499.6	502.7	508.9	514.4	513.6	512.0	510.5
52.5°	442.1	438.2	444.4	450.6	460.0	461.5	463.9	466.2	465.4	462.3	460.7
55°	393.2	396.3	401.7	404.0	411.0	410.2	411.0	411.0	407.9	406.4	404.0
57.5°	348.9	349.6	352.7	353.5	357.4	355.9	355.1	353.5	348.9	348.1	345.8
60°	303.8	302.2	309.2	303.8	306.9	303.8	303.0	299.1	294.5	293.7	292.1
62.5°	261.1	258.0	262.6	260.3	261.8	258.7	257.2	252.5	248.6	247.9	247.1
65°	223.0	221.4	226.1	225.3	226.9	223.0	221.4	218.3	215.2	214.4	213.7
67.5°	191.1	195.0	197.4	197.4	198.9	198.1	194.2	193.5	192.7	189.6	189.6
70°	167.8	170.2	174.8	175.6	174.8	176.4	173.3	172.5	171.7	170.2	169.4
72.5°	149.2	152.3	157.0	157.7	157.0	157.0	155.4	154.6	154.6	152.3	152.3
75°	134.4	138.3	142.2	142.2	142.2	140.6	139.1	139.1	137.5	136.7	135.2
77.5°	122.0	126.6	129.8	129.0	128.2	126.6	126.6	124.3	122.0	122.0	120.4
80°	112.7	115.8	118.1	117.3	116.5	114.2	113.4	111.1	109.6	107.2	107.2
82.5°	102.6	106.4	108.0	107.2	105.7	103.3	102.6	101.0	99.5	98.7	97.1
85°	94.0	97.9	98.7	97.1	95.6	94.0	93.2	92.5	91.7	90.1	90.1
87.5°	85.5	89.4	89.4	88.6	87.0	86.2	85.5	84.7	83.9	83.1	82.4
90°	78.5	81.6	81.6	80.8	80.0	79.3	78.5	77.7	76.9	76.1	76.1
92.5°	71.5	74.6	74.6	73.8	73.0	72.3	72.3	71.5	70.7	69.9	69.2
95°	65.3	68.4	68.4	68.4	67.6	66.8	66.8	66.0	65.3	65.3	64.5
97.5°	59.1	62.2	62.2	62.2	61.4	60.6	60.6	59.8	59.8	59.8	59.1
100°	53.6	55.9	56.7	56.7	55.9	55.9	55.9	55.2	55.2	55.2	54.4
102.5°	48.2	50.5	52.1	52.1	52.1	51.3	51.3	51.3	51.3	51.3	50.5
105°	43.5	45.8	47.4	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
107.5°	39.6	42.0	43.5	44.3	45.1	45.1	45.8	45.8	45.8	45.8	45.8
110°	35.7	38.1	40.4	41.2	42.0	42.7	42.7	43.5	42.7	42.7	42.7

TEST NUMBER: P1213417

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	31.9	35.0	36.5	38.1	38.8	39.6	40.4	40.4	40.4	40.4	40.4
115°	28.7	31.9	33.4	35.0	36.5	37.3	37.3	38.1	38.1	38.1	37.3
117.5°	25.6	28.7	30.3	31.9	32.6	34.2	35.0	35.0	35.0	35.0	34.2
120°	23.3	25.6	27.2	28.7	30.3	31.1	31.9	31.9	31.9	31.9	31.9
122.5°	20.2	22.5	24.9	26.4	27.2	28.0	28.7	28.7	28.7	28.7	28.7
125°	17.9	20.2	21.8	23.3	24.1	25.6	25.6	25.6	25.6	25.6	25.6
127.5°	15.5	17.9	19.4	21.0	21.8	22.5	23.3	23.3	23.3	23.3	23.3
130°	13.2	15.5	17.1	18.6	19.4	20.2	20.2	21.0	21.0	21.0	21.0
132.5°	11.7	13.2	14.8	16.3	17.1	17.9	17.9	18.6	18.6	18.6	18.6
135°	9.3	11.7	12.4	14.0	14.8	15.5	15.5	16.3	16.3	16.3	16.3
137.5°	7.8	9.3	10.9	12.4	13.2	13.2	14.0	14.0	14.8	14.8	14.8
140°	6.2	7.0	9.3	10.1	10.9	11.7	12.4	12.4	12.4	12.4	12.4
142.5°	4.7	6.2	7.0	8.5	9.3	10.1	10.9	10.9	10.9	10.9	10.9
145°	3.9	4.7	5.4	7.0	7.8	8.5	9.3	9.3	9.3	9.3	9.3
147.5°	3.1	3.9	4.7	5.4	6.2	7.0	7.8	7.8	7.8	7.8	7.8
150°	2.3	3.1	3.9	3.9	4.7	5.4	6.2	7.0	7.0	7.0	7.0
152.5°	2.3	2.3	3.1	3.1	3.9	4.7	5.4	5.4	5.4	5.4	5.4
155°	1.6	2.3	2.3	2.3	3.1	3.1	3.9	4.7	4.7	4.7	4.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213417

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2
2.5°	1504.2	1507.3	1505.8	1503.5	1502.7	1506.6	1502.7	1484.8	1491.8	1492.6	1498.0
5°	1501.9	1504.2	1502.7	1501.1	1498.8	1503.5	1498.8	1480.1	1487.1	1487.9	1493.4
7.5°	1517.4	1518.2	1518.2	1514.3	1508.1	1510.5	1504.2	1483.3	1487.1	1487.1	1491.0
10°	1556.3	1557.8	1560.2	1550.1	1542.3	1536.1	1527.5	1501.9	1501.1	1494.9	1494.9
12.5°	1606.8	1602.9	1599.0	1594.4	1588.2	1580.4	1567.9	1537.6	1527.5	1517.4	1507.3
15°	1621.6	1620.0	1619.2	1616.9	1613.0	1610.7	1601.4	1571.1	1556.3	1543.9	1526.0
17.5°	1582.7	1585.8	1595.9	1596.7	1601.4	1610.7	1609.1	1588.2	1574.9	1569.5	1547.7
20°	1512.8	1513.6	1526.0	1531.4	1551.6	1567.2	1578.8	1576.5	1573.4	1579.6	1563.3
22.5°	1428.9	1434.3	1447.5	1456.1	1475.5	1493.4	1512.0	1522.1	1538.4	1564.1	1561.0
25°	1314.7	1321.6	1340.3	1354.3	1381.5	1408.7	1433.5	1451.4	1470.8	1519.8	1536.1
27.5°	1177.9	1188.8	1212.9	1226.9	1264.9	1292.9	1328.6	1363.6	1390.8	1446.7	1480.1
30°	1034.2	1043.5	1069.1	1088.6	1121.2	1159.3	1204.3	1254.0	1299.1	1355.8	1397.8
32.5°	899.7	909.8	930.8	947.9	984.4	1016.3	1066.0	1127.4	1169.4	1247.8	1303.8
35°	782.4	791.7	806.5	821.3	851.6	884.2	926.9	986.8	1040.4	1122.0	1192.7
37.5°	700.1	701.6	710.2	718.7	741.2	766.1	799.5	852.3	902.1	989.9	1067.6
40°	641.0	641.0	645.7	648.0	658.1	672.9	693.8	735.0	776.2	843.0	937.8
42.5°	604.5	602.9	602.9	603.7	602.9	609.9	622.4	641.8	678.3	733.5	807.3
45°	577.3	574.2	571.9	566.4	563.3	563.3	564.1	571.1	592.1	627.8	687.6
47.5°	547.0	546.2	542.3	536.1	530.7	526.8	520.6	518.2	524.5	544.7	585.1
50°	512.0	508.1	504.3	499.6	493.4	489.5	477.8	478.6	473.2	482.5	503.5
52.5°	460.7	457.6	456.1	452.2	449.9	448.3	439.0	429.7	427.3	428.9	436.7
55°	404.0	405.6	399.4	402.5	401.7	394.7	390.8	383.8	381.5	380.7	384.6
57.5°	345.0	346.5	342.6	345.8	345.8	341.9	339.5	339.5	334.1	329.4	334.9
60°	291.4	288.3	290.6	294.5	294.5	292.1	290.6	290.6	286.7	285.2	289.0
62.5°	247.9	244.7	247.1	251.0	251.7	250.2	248.6	248.6	244.0	244.0	247.1
65°	214.4	215.2	214.4	217.6	217.6	218.3	216.8	215.2	209.8	212.1	211.3
67.5°	190.4	189.6	189.6	192.7	191.9	193.5	191.9	189.6	185.7	182.6	181.8
70°	170.2	169.4	169.4	170.9	171.7	171.7	170.9	169.4	163.9	160.8	158.5
72.5°	152.3	151.5	152.3	153.1	153.8	154.6	153.8	152.3	147.6	143.7	139.9
75°	136.0	135.2	137.5	137.5	138.3	138.3	139.1	138.3	134.4	129.8	125.1
77.5°	119.7	120.4	122.8	123.5	125.1	125.9	126.6	126.6	122.8	118.9	112.7
80°	106.4	108.0	109.6	110.3	111.9	114.2	115.0	115.8	112.7	108.8	101.8
82.5°	97.1	97.9	99.5	100.2	102.6	103.3	104.1	105.7	104.1	100.2	92.5
85°	89.4	90.1	91.7	91.7	93.2	94.8	95.6	96.3	95.6	91.7	83.9
87.5°	82.4	83.1	83.9	84.7	85.5	86.2	87.0	87.8	87.0	83.1	76.1
90°	76.1	76.1	76.9	76.9	77.7	78.5	80.0	80.0	79.3	76.1	69.2
92.5°	69.2	69.9	69.9	70.7	71.5	72.3	73.0	73.0	72.3	69.2	62.9
95°	64.5	64.5	65.3	65.3	66.0	66.0	66.8	66.8	66.0	62.9	56.7
97.5°	59.1	59.1	59.1	59.1	59.8	59.8	60.6	60.6	59.8	56.7	51.3
100°	54.4	54.4	54.4	54.4	54.4	55.2	55.2	55.2	54.4	51.3	45.8
102.5°	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	48.9	46.6	41.2
105°	48.2	48.2	48.2	47.4	47.4	47.4	46.6	46.6	44.3	42.0	37.3
107.5°	45.1	45.1	45.1	44.3	44.3	43.5	42.7	42.7	40.4	38.1	33.4
110°	42.7	42.7	42.7	42.0	41.2	40.4	39.6	38.8	36.5	33.4	29.5



TEST NUMBER: P1213417

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	40.4	40.4	39.6	39.6	38.8	38.1	36.5	35.7	33.4	30.3	26.4
115°	37.3	37.3	37.3	36.5	35.7	35.0	34.2	32.6	30.3	27.2	23.3
117.5°	34.2	34.2	34.2	33.4	32.6	31.9	31.1	29.5	27.2	24.1	21.0
120°	31.1	31.1	31.1	30.3	29.5	28.7	28.0	26.4	24.1	21.8	17.9
122.5°	28.7	28.7	28.0	27.2	26.4	25.6	24.9	23.3	21.8	18.6	15.5
125°	25.6	25.6	24.9	24.9	24.1	23.3	22.5	21.0	18.6	16.3	14.0
127.5°	23.3	22.5	22.5	22.5	21.8	21.0	19.4	18.6	16.3	14.0	11.7
130°	20.2	20.2	20.2	19.4	19.4	18.6	17.1	15.5	14.0	12.4	10.1
132.5°	17.9	17.9	17.9	17.9	17.1	16.3	14.8	14.0	12.4	10.1	8.5
135°	16.3	16.3	15.5	15.5	14.8	14.0	13.2	11.7	10.1	8.5	7.0
137.5°	14.0	14.0	14.0	13.2	13.2	12.4	10.9	10.1	9.3	7.8	6.2
140°	12.4	12.4	11.7	11.7	10.9	10.9	10.1	8.5	7.8	6.2	5.4
142.5°	10.9	10.9	10.1	10.1	9.3	9.3	8.5	7.8	6.2	5.4	3.9
145°	9.3	9.3	8.5	8.5	8.5	7.8	7.0	6.2	5.4	4.7	3.9
147.5°	7.8	7.8	7.8	7.0	7.0	6.2	6.2	5.4	4.7	3.9	3.1
150°	7.0	7.0	6.2	6.2	6.2	5.4	4.7	4.7	3.9	3.1	2.3
152.5°	5.4	5.4	5.4	5.4	4.7	4.7	3.9	3.9	3.1	2.3	2.3
155°	4.7	4.7	4.7	3.9	3.9	3.9	3.1	3.1	2.3	2.3	1.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2
2.5°	1495.7	1494.9	1501.9	1501.1	1491.8	1505.8	1515.1
5°	1491.8	1491.0	1497.2	1498.8	1488.7	1503.5	1513.6
7.5°	1488.7	1487.9	1494.9	1497.2	1487.1	1500.4	1511.2
10°	1489.5	1485.6	1491.8	1493.4	1484.0	1498.0	1507.3
12.5°	1494.9	1485.6	1487.9	1487.9	1479.4	1491.8	1501.9
15°	1508.1	1488.7	1485.6	1483.3	1472.4	1484.0	1494.1
17.5°	1522.9	1496.5	1485.6	1477.8	1464.6	1474.7	1485.6
20°	1537.6	1505.0	1487.1	1474.7	1456.8	1466.2	1473.9
22.5°	1544.6	1512.8	1488.7	1470.0	1447.5	1452.2	1460.7
25°	1535.3	1509.7	1485.6	1463.1	1435.9	1436.6	1443.6
27.5°	1501.1	1494.1	1478.6	1456.1	1426.5	1422.7	1428.1
30°	1442.9	1462.3	1463.1	1446.7	1415.7	1407.9	1410.2
32.5°	1361.3	1404.8	1430.4	1427.3	1400.1	1389.2	1390.8
35°	1267.3	1321.6	1377.6	1396.2	1376.8	1368.3	1365.2
37.5°	1154.6	1227.6	1302.2	1348.1	1345.0	1339.5	1336.4
40°	1030.3	1118.1	1206.7	1279.7	1302.2	1302.2	1303.8
42.5°	897.4	1000.0	1097.1	1189.6	1242.4	1254.0	1258.7
45°	769.2	872.6	978.2	1084.7	1155.4	1191.9	1205.1
47.5°	652.7	756.8	857.0	973.6	1067.6	1115.0	1135.9
50°	553.2	630.9	736.6	852.3	954.9	1013.2	1054.4
52.5°	470.9	531.5	623.9	731.9	835.3	915.3	953.4
55°	401.7	442.9	521.4	614.6	713.3	796.4	840.7
57.5°	343.4	376.1	429.7	507.4	590.5	672.9	720.3
60°	292.1	314.7	351.2	412.6	483.3	554.0	599.8
62.5°	247.9	262.6	286.7	331.8	386.9	442.1	484.8
65°	213.7	219.9	233.1	261.1	303.0	345.0	381.5
67.5°	180.3	184.1	194.2	211.3	232.3	262.6	286.7
70°	155.4	155.4	156.2	166.3	177.2	196.6	213.7
72.5°	135.2	132.9	128.2	130.5	132.9	143.7	154.6
75°	118.9	113.4	105.7	102.6	101.0	102.6	108.8
77.5°	104.9	97.1	87.8	80.0	73.8	71.5	76.9
80°	93.2	83.9	73.0	62.9	52.8	47.4	49.7
82.5°	83.9	72.3	60.6	48.9	37.3	29.5	29.5
85°	73.8	62.9	50.5	38.1	26.4	16.3	14.8
87.5°	66.8	55.2	42.0	30.3	18.6	8.5	4.7
90°	59.8	48.2	35.7	24.1	13.2	3.9	0.0
92.5°	53.6	42.7	31.1	19.4	9.3	2.3	0.0
95°	48.2	38.1	26.4	16.3	7.8	1.6	0.8
97.5°	42.7	33.4	23.3	13.2	5.4	1.6	0.8
100°	38.8	29.5	20.2	10.9	4.7	0.8	0.8
102.5°	34.2	26.4	17.1	9.3	3.9	0.8	0.8
105°	30.3	23.3	14.8	7.8	3.1	0.8	0.8
107.5°	27.2	20.2	13.2	7.0	3.1	0.8	0.8
110°	24.1	17.9	11.7	6.2	2.3	0.8	0.8

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	21.8	15.5	10.1	5.4	1.6	0.8	0.8
115°	18.6	14.0	8.5	4.7	1.6	0.8	0.8
117.5°	16.3	11.7	7.8	3.9	1.6	0.8	0.8
120°	14.0	10.1	6.2	3.1	0.8	0.8	0.8
122.5°	12.4	8.5	5.4	3.1	0.8	0.8	0.8
125°	10.9	7.8	4.7	2.3	0.8	0.8	0.8
127.5°	9.3	6.2	3.9	1.6	0.8	0.8	0.8
130°	7.8	5.4	3.1	1.6	0.8	0.8	0.8
132.5°	6.2	4.7	3.1	1.6	0.8	0.8	0.8
135°	5.4	3.9	2.3	1.6	0.8	0.8	0.8
137.5°	4.7	3.1	1.6	1.6	1.6	0.8	0.8
140°	3.9	2.3	1.6	1.6	1.6	1.6	0.8
142.5°	3.1	2.3	1.6	1.6	1.6	1.6	0.8
145°	2.3	1.6	1.6	1.6	1.6	1.6	0.8
147.5°	2.3	1.6	1.6	1.6	1.6	1.6	0.8
150°	1.6	1.6	1.6	1.6	1.6	1.6	1.6
152.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6
155°	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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)