

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: P1213397

Luminaire Tested: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

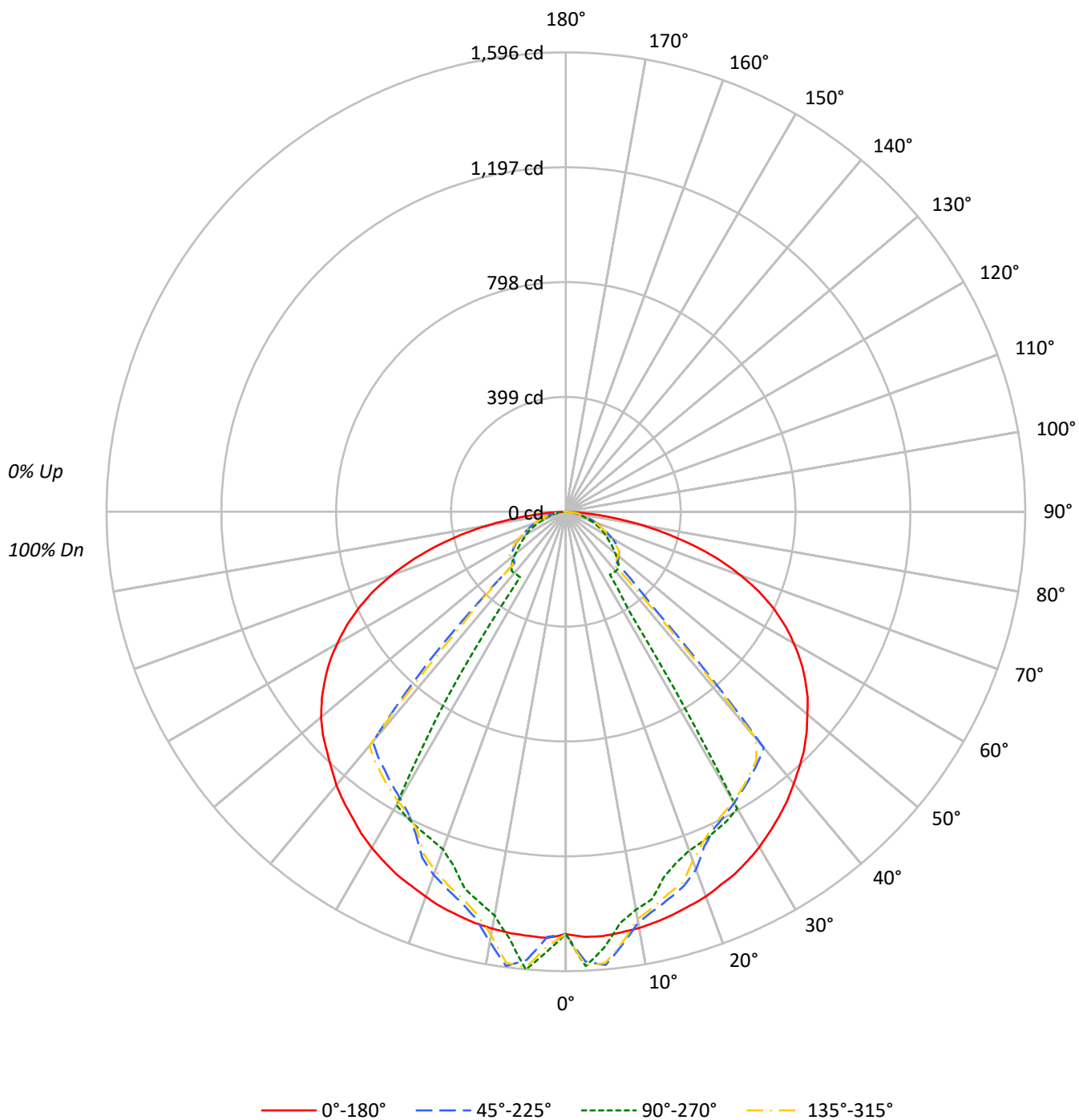
Lumens per Lamp: N/A
Luminaire Lumens: 2938.0 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1213397

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213397

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11856	11856	11856	11856
5°	11972	11946	11967	12537
10°	11984	10800	12000	10966
15°	12011	9992	12038	10309
20°	12098	9478	12098	9442
25°	12203	9296	12220	9210
30°	12326	9132	12356	9024
35°	12470	2080	12496	2169
40°	12669	2163	12746	2233
45°	12973	2151	13018	2229
50°	13276	1945	13455	1998
55°	13684	1727	13793	1752
60°	14030	1535	14061	1554
65°	14279	1339	14243	1318
70°	14074	1079	14030	1040
75°	13066	831	13162	796
80°	10606	590	11029	540
85°	5739	354	6067	272

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 14377 cd/sqm

TEST NUMBER: P1213397

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	4.9
10°-20°	396.9	13.5
20°-30°	587.9	20.0
30°-40°	592.3	20.2
40°-50°	462.7	15.7
50°-60°	357.4	12.2
60°-70°	240.0	8.2
70°-80°	122.4	4.2
80°-90°	34.1	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1129.1	38.4
0°-40°	1721.5	58.6
0°-60°	2541.6	86.5
0°-90°	2938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2938.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1467	1467	1467	1467	1467	
5°	1480	1521	1479	1596	1480	141
15°	1448	1314	1451	1356	1448	409
25°	1388	1225	1390	1214	1388	640
35°	1292	266	1294	278	1292	809
45°	1171	259	1175	268	1171	903
55°	1015	188	1023	191	1015	906
65°	797	126	795	124	797	784
75°	467	64	471	61	467	489
85°	84	20	89	16	84	116
90°	0	0	0	0	0	

TEST NUMBER: P1213397

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1478.6	1484.0	1488.0	1490.7	1492.0	1492.0	1492.7	1493.4	1502.1	1506.2	1508.8
5°	1479.9	1485.3	1493.4	1504.1	1513.6	1521.6	1528.3	1537.8	1547.2	1557.3	1560.6
7.5°	1473.9	1480.6	1496.7	1516.2	1534.4	1547.2	1555.9	1562.0	1566.7	1567.3	1570.7
10°	1468.5	1480.6	1502.8	1528.3	1551.2	1566.7	1566.7	1563.3	1568.0	1549.9	1531.7
12.5°	1459.1	1472.5	1502.8	1536.4	1557.9	1564.0	1561.3	1547.8	1520.3	1498.1	1488.0
15°	1447.7	1465.8	1503.5	1541.1	1559.3	1561.3	1535.7	1501.5	1480.6	1467.2	1450.4
17.5°	1434.9	1459.1	1504.1	1541.8	1548.5	1539.1	1490.7	1469.2	1447.7	1416.1	1393.2
20°	1422.8	1446.3	1498.8	1532.4	1536.4	1494.1	1456.4	1433.5	1397.2	1369.7	1359.6
22.5°	1404.0	1431.5	1494.1	1519.6	1504.1	1455.1	1418.7	1382.4	1349.5	1341.4	1329.3
25°	1388.5	1417.4	1483.3	1504.1	1463.1	1419.4	1377.1	1334.7	1319.2	1307.8	1297.0
27.5°	1367.6	1403.3	1469.2	1475.9	1419.4	1381.1	1319.2	1300.4	1286.3	1273.5	1268.8
30°	1344.8	1388.5	1449.7	1436.9	1383.1	1326.6	1280.9	1263.4	1253.3	1239.9	1234.5
32.5°	1318.6	1366.3	1428.2	1391.9	1344.1	1273.5	1243.9	1230.5	1217.0	1206.9	1173.3
35°	1291.7	1346.8	1402.6	1348.8	1297.0	1233.2	1206.9	1194.8	1182.1	1145.1	1110.1
37.5°	1264.1	1325.3	1371.7	1302.4	1234.5	1191.5	1169.3	1155.8	1126.9	1079.9	1062.4
40°	1232.5	1299.1	1332.0	1254.7	1180.0	1149.1	1128.3	1114.8	1049.6	1028.8	1023.4
42.5°	1200.9	1273.5	1283.6	1208.3	1135.0	1104.1	1086.6	1042.2	997.8	987.1	989.1
45°	1170.6	1245.9	1230.5	1142.4	1087.9	1062.4	1032.8	971.6	948.1	953.5	954.8
47.5°	1134.3	1213.0	1174.7	1076.5	1039.5	1014.0	948.1	911.1	907.7	915.1	919.2
50°	1095.3	1176.0	1115.5	1016.7	987.1	956.8	882.2	863.4	867.4	874.8	879.5
52.5°	1059.0	1134.3	1054.3	960.8	935.3	866.0	815.6	819.0	825.7	834.4	837.1
55°	1014.6	1083.9	989.1	904.4	880.2	789.4	766.5	774.6	781.3	788.7	794.1
57.5°	968.2	1026.1	911.8	841.2	802.2	721.5	723.5	728.9	733.6	742.3	306.6
60°	915.1	960.2	827.0	782.7	705.3	667.7	669.7	679.1	683.8	381.9	211.1
62.5°	860.0	883.5	750.4	716.1	616.6	613.9	623.3	627.3	427.0	201.7	197.7
65°	796.8	792.1	675.1	620.6	556.1	558.8	568.8	548.7	188.9	188.9	187.6
67.5°	726.9	698.6	601.8	513.7	497.6	503.6	514.4	179.5	174.8	176.2	171.5
70°	646.8	607.2	525.8	435.0	440.4	446.5	173.5	162.7	160.7	157.3	147.9
72.5°	562.1	507.7	430.3	377.9	381.2	239.4	152.0	146.6	139.9	133.1	123.0
75°	467.3	396.7	316.0	316.0	320.7	136.5	132.5	123.7	116.3	107.6	101.5
77.5°	366.5	305.3	245.4	254.8	124.4	114.3	106.9	97.5	91.4	86.1	82.7
80°	268.3	213.1	184.9	165.4	96.8	86.7	79.3	74.0	71.3	67.9	63.9
82.5°	176.2	128.4	128.4	78.0	67.9	59.8	57.8	53.8	51.1	49.1	47.1
85°	84.0	74.6	56.5	47.7	42.4	38.3	37.0	35.0	35.0	34.3	33.6
87.5°	30.9	33.6	24.9	24.2	22.9	22.2	22.9	22.9	23.5	22.9	22.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213397

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1515.6	1521.0	1525.0	1531.7	1540.5	1547.8	1554.6	1564.0	1578.8	1582.8	1586.2
5°	1560.6	1562.6	1567.3	1572.7	1574.1	1577.4	1576.8	1580.8	1582.8	1587.5	1577.4
7.5°	1563.3	1552.6	1539.8	1528.3	1520.3	1512.9	1508.2	1515.6	1519.6	1523.0	1512.9
10°	1506.8	1494.1	1486.7	1479.9	1471.9	1460.4	1445.0	1448.3	1447.0	1447.0	1443.6
12.5°	1471.2	1453.0	1434.2	1417.4	1410.0	1409.3	1410.0	1417.4	1417.4	1416.7	1412.7
15°	1415.4	1397.9	1388.5	1384.5	1384.5	1382.4	1382.4	1390.5	1388.5	1388.5	1386.5
17.5°	1378.4	1366.3	1359.6	1354.9	1352.9	1356.2	1360.3	1363.6	1364.3	1361.6	1350.8
20°	1348.1	1336.7	1328.6	1330.0	1329.3	1331.3	1333.4	1321.9	1307.8	1289.0	1280.2
22.5°	1316.5	1307.8	1301.8	1301.8	1293.7	1280.9	1262.1	1258.0	1256.0	1247.3	1239.9
25°	1286.3	1276.2	1267.5	1240.6	1223.8	1225.8	1222.4	1215.7	1215.0	1214.3	1217.0
27.5°	1256.0	1229.8	1196.2	1192.2	1185.4	1184.8	1188.8	1192.2	1192.2	1194.8	1198.2
30°	1193.5	1163.2	1157.2	1149.8	1152.5	1161.9	1163.9	1168.6	1170.0	1174.7	1177.4
32.5°	1136.3	1122.9	1117.5	1120.9	1129.6	1137.7	1142.4	1144.4	1147.8	1151.8	1155.2
35°	1089.9	1085.9	1090.6	1098.0	1106.8	1113.5	1117.5	1121.6	1124.9	1128.3	1131.0
37.5°	1055.7	1058.3	1065.1	1074.5	1083.2	1088.6	1092.0	1096.7	1101.4	1105.4	1089.3
40°	1023.4	1030.1	1037.5	1047.6	1055.0	1060.4	1063.7	1069.8	1029.4	466.0	255.5
42.5°	995.1	1002.5	1007.9	1016.0	1024.1	1028.1	998.5	445.8	252.1	250.8	254.2
45°	960.8	966.9	975.6	981.7	989.1	649.5	248.1	250.8	246.8	249.5	250.8
47.5°	925.9	935.3	940.0	897.0	266.9	246.8	244.1	246.8	244.1	247.4	245.4
50°	886.2	897.6	638.8	241.4	239.4	238.0	240.7	239.4	241.4	244.1	238.7
52.5°	845.9	523.8	234.0	232.6	234.0	232.6	237.4	234.0	234.7	232.0	225.3
55°	286.4	226.6	224.6	223.9	227.9	227.9	227.9	222.6	219.2	212.5	207.8
57.5°	219.2	219.2	218.5	219.2	217.9	216.5	210.5	205.8	201.0	191.6	188.9
60°	207.8	207.8	207.8	207.8	201.7	199.0	189.6	185.6	177.5	172.8	170.1
62.5°	198.4	197.0	191.0	188.9	182.2	174.8	169.4	165.4	157.3	154.7	152.6
65°	184.9	180.2	172.8	164.7	161.4	153.3	150.6	144.6	140.5	138.5	137.2
67.5°	162.7	156.0	149.9	144.6	138.5	135.8	132.5	127.8	125.1	123.7	122.4
70°	139.2	134.5	128.4	125.1	121.0	119.0	114.3	113.0	110.9	108.9	106.9
72.5°	116.3	113.6	110.9	106.2	104.9	103.5	98.8	96.2	93.5	90.8	89.4
75°	97.5	95.5	94.1	90.1	88.1	84.0	80.7	78.7	76.7	74.6	73.3
77.5°	80.0	78.7	74.6	71.9	70.6	67.2	65.9	66.6	65.2	62.5	61.2
80°	62.5	61.2	57.8	57.8	56.5	55.1	53.8	52.4	51.1	49.1	47.7
82.5°	47.7	46.4	45.1	43.7	42.4	41.7	41.0	39.7	38.3	37.0	36.3
85°	33.6	32.9	32.3	31.6	30.9	30.3	29.6	28.2	26.9	26.2	25.6
87.5°	22.9	22.2	21.5	20.8	20.2	19.5	18.8	18.2	16.8	16.1	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213397

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1586.2	1589.5	1586.2	1578.8	1574.1	1572.1	1576.1	1576.1	1578.8	1582.1	1582.8
5°	1561.3	1553.2	1543.8	1534.4	1529.7	1527.0	1519.6	1521.0	1523.0	1524.3	1525.7
7.5°	1499.4	1488.7	1475.9	1463.8	1459.1	1455.1	1446.3	1446.3	1446.3	1447.0	1451.0
10°	1436.2	1431.5	1426.1	1418.1	1412.0	1410.0	1402.6	1404.6	1403.3	1405.3	1410.0
12.5°	1406.6	1401.3	1396.6	1388.5	1381.8	1379.1	1375.7	1377.7	1377.1	1380.4	1384.5
15°	1379.8	1377.1	1371.7	1365.6	1359.6	1354.2	1342.1	1338.1	1335.4	1332.0	1336.7
17.5°	1335.4	1316.5	1303.8	1294.4	1287.6	1282.9	1279.6	1279.6	1281.6	1283.6	1287.6
20°	1274.9	1269.5	1263.4	1253.3	1246.6	1243.9	1241.9	1241.9	1245.3	1248.0	1255.4
22.5°	1233.2	1232.5	1230.5	1225.8	1222.4	1222.4	1223.1	1224.4	1229.1	1233.2	1240.6
25°	1213.7	1216.4	1215.0	1212.3	1210.3	1211.0	1209.6	1211.0	1215.7	1219.7	1225.8
27.5°	1198.2	1202.2	1200.9	1196.9	1193.5	1194.8	1196.9	1195.5	1199.5	1204.3	1209.0
30°	1177.4	1178.0	1180.7	1176.0	1174.7	1176.7	1177.4	1178.7	1182.7	1186.1	1190.1
32.5°	1153.8	1159.2	1158.5	1153.8	1153.8	1155.8	1156.5	1111.5	1027.4	884.9	845.9
35°	1131.0	1137.0	1126.9	950.1	657.6	351.0	271.0	261.6	263.6	264.9	266.3
37.5°	836.5	396.7	252.8	254.8	256.9	258.9	260.9	262.9	264.9	266.9	267.6
40°	251.5	250.8	252.8	255.5	257.5	258.9	261.6	263.6	265.6	267.6	268.3
42.5°	248.8	250.1	252.1	254.8	257.5	260.2	262.2	264.9	266.3	267.6	268.3
45°	247.4	250.1	252.8	254.8	256.9	258.2	259.5	260.2	259.5	259.5	260.9
47.5°	245.4	248.1	248.8	248.1	248.8	248.1	248.1	248.1	246.1	245.4	245.4
50°	238.0	238.0	236.7	234.0	233.3	232.6	231.3	230.6	227.9	227.3	227.3
52.5°	222.6	221.9	219.9	216.5	215.2	213.8	213.1	212.5	209.8	208.4	209.1
55°	204.4	203.1	201.0	197.0	196.3	195.0	194.3	193.6	191.0	192.3	190.3
57.5°	187.6	184.9	182.2	181.5	178.9	178.2	177.5	176.8	174.8	175.5	174.1
60°	167.4	166.8	165.4	162.7	162.7	162.0	162.0	160.7	159.4	158.7	158.7
62.5°	152.6	150.6	149.3	149.3	147.3	147.3	147.3	145.9	144.6	145.2	144.6
65°	136.5	135.8	135.2	133.8	133.8	133.1	133.1	131.8	129.8	130.4	129.1
67.5°	123.0	121.7	120.4	119.7	117.0	115.7	115.0	114.3	111.6	112.3	110.9
70°	106.2	104.2	102.9	101.5	99.5	98.2	98.2	96.8	94.8	95.5	94.1
72.5°	88.8	87.4	86.1	85.4	83.4	82.7	82.0	81.4	79.3	80.0	79.3
75°	74.0	74.0	73.3	72.6	70.6	68.6	67.2	66.6	65.2	65.9	64.5
77.5°	61.2	59.8	58.5	58.5	56.5	55.1	53.8	53.8	53.8	53.1	52.4
80°	47.7	46.4	46.4	45.7	44.4	43.0	42.4	42.4	41.7	41.7	41.0
82.5°	36.3	35.0	34.3	34.3	32.9	32.3	31.6	30.9	30.9	30.9	30.3
85°	25.6	24.2	23.5	23.5	22.2	21.5	21.5	20.8	20.8	20.2	20.2
87.5°	15.5	14.8	14.1	14.1	12.8	12.1	12.1	12.1	11.4	11.4	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213397

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1582.8	1582.8	1578.1	1579.5	1577.4	1580.1	1576.8	1576.8	1580.8	1580.8	1583.5
5°	1526.3	1523.0	1522.3	1521.0	1514.2	1516.9	1513.6	1510.2	1514.9	1514.9	1521.0
7.5°	1449.0	1443.0	1445.6	1441.6	1437.6	1431.5	1433.5	1430.9	1434.2	1438.9	1445.0
10°	1409.3	1404.0	1407.3	1403.3	1405.3	1396.6	1397.2	1397.9	1401.3	1402.6	1408.0
12.5°	1383.8	1382.4	1381.1	1379.8	1381.1	1376.4	1373.7	1374.4	1375.7	1376.4	1380.4
15°	1330.0	1321.3	1323.9	1314.5	1315.2	1315.9	1310.5	1315.9	1315.2	1323.9	1332.0
17.5°	1286.3	1286.3	1281.6	1277.5	1274.9	1274.2	1270.2	1272.8	1270.2	1275.5	1277.5
20°	1256.0	1255.4	1254.7	1252.7	1245.9	1246.6	1248.6	1242.6	1241.9	1241.2	1245.3
22.5°	1241.9	1242.6	1239.9	1239.9	1233.8	1235.2	1235.9	1229.1	1229.8	1227.8	1229.8
25°	1227.1	1228.5	1225.1	1225.1	1223.8	1223.1	1219.7	1221.1	1217.0	1213.7	1217.0
27.5°	1209.6	1212.3	1209.6	1211.0	1208.3	1206.9	1204.9	1203.6	1199.5	1198.9	1200.9
30°	1193.5	1194.8	1194.2	1190.8	1190.1	1186.1	1188.1	1184.1	1180.0	1180.7	1182.1
32.5°	611.9	584.3	450.5	406.8	402.8	417.6	494.9	602.5	780.6	953.5	1077.8
35°	266.9	266.9	266.9	266.3	266.3	265.6	264.9	264.3	263.6	262.9	262.2
37.5°	268.3	268.3	268.3	268.3	267.6	266.9	266.9	265.6	264.9	264.3	263.6
40°	269.0	269.6	269.6	269.6	269.0	269.0	268.3	266.9	266.3	264.9	263.6
42.5°	268.3	269.0	269.0	268.3	268.3	267.6	267.6	266.9	266.3	265.6	264.9
45°	259.5	260.2	258.9	258.9	258.2	258.2	258.2	258.2	258.2	258.9	258.9
47.5°	244.1	244.1	243.4	242.7	242.7	242.1	242.7	242.1	243.4	244.1	245.4
50°	225.9	225.9	224.6	223.9	223.9	223.9	223.9	224.6	225.3	226.6	227.9
52.5°	207.1	207.1	206.4	205.8	205.1	205.1	207.1	206.4	207.1	207.8	209.8
55°	188.9	189.6	188.3	188.3	187.6	187.6	187.6	188.3	188.9	189.6	191.6
57.5°	173.5	173.5	172.1	172.1	172.1	171.5	173.5	172.1	172.8	173.5	174.8
60°	158.0	157.3	157.3	156.7	156.7	156.7	158.0	157.3	157.3	158.0	159.4
62.5°	143.9	143.9	143.2	143.2	142.5	142.5	143.9	143.2	143.2	143.9	144.6
65°	127.8	127.8	127.1	126.4	128.4	126.4	128.4	127.1	128.4	129.1	130.4
67.5°	109.6	109.6	109.6	108.9	108.9	110.3	110.9	109.6	110.3	111.6	112.3
70°	93.5	93.5	92.8	92.8	92.8	94.1	94.8	93.5	94.1	94.8	96.2
72.5°	79.3	78.0	78.0	77.3	78.7	78.7	79.3	78.7	79.3	79.3	80.7
75°	65.2	63.9	63.9	63.9	65.2	64.5	65.2	64.5	65.2	65.2	65.9
77.5°	52.4	51.8	51.1	51.1	52.4	52.4	52.4	51.8	52.4	53.1	53.8
80°	41.0	40.3	39.7	39.7	41.0	41.0	41.0	41.7	41.0	41.7	42.4
82.5°	30.3	29.6	28.9	30.3	30.3	30.3	30.3	30.9	30.3	30.9	31.6
85°	20.2	19.5	18.8	20.2	20.2	20.2	20.2	20.8	20.2	20.8	21.5
87.5°	10.8	10.1	10.1	10.8	10.8	10.8	11.4	11.4	11.4	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213397

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1587.5	1589.5	1588.9	1584.8	1580.8	1576.1	1572.7	1573.4	1580.1	1582.1	1576.1
5°	1521.0	1533.7	1533.7	1542.5	1537.8	1533.7	1536.4	1551.2	1558.6	1570.0	1574.1
7.5°	1452.4	1458.4	1457.7	1466.5	1465.1	1465.1	1467.2	1486.7	1496.1	1505.5	1508.2
10°	1414.0	1420.1	1419.4	1420.1	1418.1	1413.4	1413.4	1422.1	1430.2	1434.9	1436.2
12.5°	1386.5	1389.8	1389.2	1389.2	1387.8	1383.8	1383.1	1390.5	1399.2	1405.3	1406.0
15°	1345.5	1354.9	1356.9	1365.6	1363.6	1358.2	1359.6	1365.6	1371.0	1376.4	1374.4
17.5°	1284.3	1289.0	1289.6	1293.0	1291.7	1291.7	1299.7	1321.9	1336.7	1349.5	1350.8
20°	1249.3	1252.7	1251.3	1258.7	1255.4	1254.7	1256.7	1266.1	1272.8	1278.9	1289.6
22.5°	1232.5	1235.2	1233.2	1233.8	1227.8	1222.4	1221.1	1228.5	1235.9	1243.9	1243.9
25°	1218.4	1220.4	1219.7	1218.4	1213.7	1206.3	1204.9	1206.3	1209.0	1209.6	1204.9
27.5°	1201.6	1202.9	1202.9	1203.6	1197.5	1190.8	1189.5	1188.1	1190.8	1190.1	1182.7
30°	1184.1	1182.1	1182.7	1183.4	1178.0	1172.0	1169.3	1168.6	1171.3	1170.6	1163.2
32.5°	1142.4	1157.9	1159.2	1160.6	1155.8	1150.5	1147.8	1145.8	1147.1	1146.4	1139.7
35°	261.6	266.3	326.1	738.3	1002.5	1110.1	1121.6	1118.9	1119.5	1119.5	1114.2
37.5°	262.2	261.6	260.9	258.9	256.9	255.5	441.8	942.0	1091.3	1092.0	1087.3
40°	262.2	261.6	260.9	259.5	256.9	254.8	251.5	248.8	254.8	560.8	1026.1
42.5°	263.6	262.2	260.9	259.5	256.9	254.2	251.5	248.1	250.1	248.8	245.4
45°	259.5	258.9	258.9	258.2	256.9	254.2	250.8	246.8	244.8	246.8	243.4
47.5°	246.8	247.4	249.5	250.1	250.1	250.8	248.8	246.1	242.7	244.8	240.7
50°	229.3	230.6	231.3	234.7	236.0	238.7	239.4	239.4	238.7	241.4	238.7
52.5°	210.5	211.8	215.2	216.5	217.9	221.9	223.2	225.3	226.6	230.6	233.3
55°	192.3	193.0	194.3	197.0	199.0	202.4	204.4	206.4	209.8	211.8	219.9
57.5°	175.5	176.2	178.9	179.5	180.9	183.6	185.6	188.3	191.0	192.3	201.7
60°	159.4	160.0	162.0	162.7	163.4	166.1	168.1	170.1	172.1	173.5	180.2
62.5°	145.2	145.2	147.3	147.3	147.9	149.9	151.3	152.6	154.7	155.3	158.7
65°	131.1	131.8	133.1	133.1	133.8	135.2	135.8	136.5	138.5	138.5	141.2
67.5°	113.6	114.3	116.3	117.7	118.3	121.0	121.7	122.4	123.7	124.4	125.7
70°	96.8	97.5	99.5	100.2	100.9	102.9	104.2	106.2	108.3	110.3	111.6
72.5°	81.4	82.0	84.0	84.0	86.1	86.7	88.1	88.8	90.8	92.1	94.1
75°	66.6	67.2	69.3	69.3	71.3	71.9	72.6	73.3	74.6	76.0	77.3
77.5°	54.5	54.5	57.2	58.5	59.8	59.8	60.5	60.5	60.5	61.2	62.5
80°	43.0	43.0	45.1	46.4	47.7	47.7	48.4	49.1	49.8	49.8	50.4
82.5°	32.3	32.3	34.3	35.0	36.3	36.3	36.3	37.0	37.7	37.0	38.3
85°	22.2	22.2	23.5	24.2	25.6	25.6	25.6	26.2	26.9	26.2	26.9
87.5°	12.8	13.4	14.1	14.8	15.5	16.1	16.1	16.1	16.8	16.8	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213397

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1569.4	1561.3	1560.6	1551.2	1548.5	1549.2	1541.8	1539.1	1527.0	1524.3	1511.5
5°	1575.4	1579.5	1577.4	1576.8	1578.8	1577.4	1572.1	1569.4	1567.3	1562.0	1551.2
7.5°	1508.8	1511.5	1513.6	1522.3	1529.7	1542.5	1555.9	1564.7	1571.4	1572.7	1564.0
10°	1440.9	1453.7	1462.5	1475.9	1486.7	1494.1	1502.1	1509.5	1529.0	1548.5	1560.0
12.5°	1406.0	1409.3	1408.7	1416.1	1423.5	1443.0	1461.8	1472.5	1487.3	1496.1	1516.9
15°	1376.4	1377.1	1379.1	1384.5	1388.5	1395.2	1404.0	1420.1	1449.7	1463.1	1474.6
17.5°	1349.5	1349.5	1350.8	1355.5	1360.9	1367.0	1372.4	1379.1	1393.9	1416.1	1444.3
20°	1306.5	1325.3	1327.3	1326.6	1329.3	1340.8	1342.1	1354.2	1361.6	1370.3	1397.9
22.5°	1242.6	1254.0	1270.2	1295.0	1304.4	1309.8	1313.9	1319.2	1330.7	1340.8	1352.2
25°	1207.6	1215.0	1219.7	1227.1	1246.6	1278.2	1284.3	1290.3	1297.7	1305.1	1319.2
27.5°	1176.7	1176.0	1179.4	1186.1	1191.5	1208.3	1237.9	1261.4	1262.8	1273.5	1285.6
30°	1154.5	1150.5	1145.8	1144.4	1151.8	1160.6	1169.3	1206.3	1231.8	1237.2	1250.0
32.5°	1133.7	1126.9	1120.2	1114.8	1110.1	1117.5	1122.9	1139.0	1172.0	1202.9	1209.6
35°	1108.1	1101.4	1093.3	1087.3	1079.9	1079.2	1078.5	1094.0	1104.7	1141.7	1174.0
37.5°	1081.9	1074.5	1067.8	1061.0	1053.6	1048.3	1044.9	1048.9	1059.0	1075.2	1128.9
40°	1054.3	1045.6	1038.8	1033.5	1023.4	1019.3	1012.6	1009.9	1010.6	1024.7	1053.0
42.5°	630.0	1004.6	1007.9	1001.9	993.1	987.7	980.3	977.0	970.3	977.0	993.1
45°	242.7	245.4	734.9	970.9	960.2	953.5	946.7	943.4	936.0	930.6	945.4
47.5°	238.0	240.7	235.3	333.5	916.5	918.5	910.4	907.1	899.7	895.6	891.6
50°	234.7	236.7	232.6	234.0	229.3	839.8	873.4	869.4	861.3	856.6	848.6
52.5°	231.3	231.3	228.6	225.3	223.9	224.6	706.7	831.1	821.7	817.0	806.2
55°	220.5	221.9	224.6	219.2	217.9	217.2	215.2	673.1	778.0	772.6	763.2
57.5°	204.4	207.1	214.5	213.1	213.1	207.8	206.4	206.4	624.7	727.5	718.1
60°	185.6	188.3	196.3	199.0	201.0	199.7	198.4	197.7	195.0	658.3	670.4
62.5°	166.1	168.8	171.5	180.2	182.9	186.3	190.3	188.3	185.6	185.6	619.9
65°	145.2	149.3	150.6	158.7	162.0	168.1	171.5	176.2	174.8	174.1	177.5
67.5°	127.1	131.8	132.5	135.8	141.9	144.6	148.6	157.3	161.4	162.7	164.1
70°	111.6	114.3	116.3	117.7	121.7	122.4	129.8	135.8	141.9	148.6	150.6
72.5°	96.2	98.2	102.2	100.9	102.2	104.9	108.9	113.0	119.0	128.4	134.5
75°	78.7	80.0	82.7	84.0	86.7	88.8	91.4	94.8	100.2	104.9	113.0
77.5°	63.2	63.9	65.9	66.6	69.3	71.3	76.0	78.0	81.4	84.7	89.4
80°	51.1	51.1	51.8	51.8	53.8	55.8	59.2	61.2	65.2	67.9	67.9
82.5°	39.0	39.0	41.0	41.0	42.4	42.4	44.4	44.4	46.4	47.7	49.1
85°	27.6	28.2	29.6	28.9	30.3	29.6	30.9	32.3	32.9	32.3	31.6
87.5°	18.2	18.2	19.5	18.8	19.5	19.5	20.8	20.8	21.5	21.5	20.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213397

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1506.8	1496.7	1490.7	1483.3	1481.3	1479.3	1482.0	1482.0	1477.9	1474.6	1468.5
5°	1541.8	1531.0	1519.6	1507.5	1496.1	1484.0	1479.3	1478.6	1471.2	1467.2	1465.1
7.5°	1560.0	1554.6	1541.8	1525.0	1507.5	1486.0	1476.6	1471.2	1463.8	1462.5	1462.5
10°	1562.0	1555.9	1549.2	1537.1	1516.9	1488.7	1470.5	1459.8	1453.0	1457.7	1466.5
12.5°	1542.5	1553.9	1547.8	1539.8	1523.6	1489.4	1463.1	1447.0	1445.0	1457.1	1479.9
15°	1492.7	1526.3	1543.1	1535.1	1522.3	1488.0	1451.0	1432.2	1432.2	1457.1	1486.7
17.5°	1455.1	1481.3	1522.3	1529.0	1514.2	1485.3	1439.6	1417.4	1423.5	1459.8	1491.4
20°	1424.1	1440.3	1479.9	1517.6	1503.5	1479.3	1422.8	1399.9	1412.0	1455.7	1498.1
22.5°	1375.7	1408.0	1432.2	1488.0	1492.7	1467.8	1406.0	1378.4	1402.6	1455.7	1494.7
25°	1328.6	1367.6	1393.2	1447.7	1476.6	1453.7	1390.5	1355.5	1392.5	1453.7	1492.0
27.5°	1295.7	1313.9	1360.3	1399.2	1452.4	1434.9	1369.7	1330.7	1379.8	1443.0	1476.6
30°	1260.7	1272.8	1318.6	1355.5	1420.1	1413.4	1348.1	1303.1	1363.6	1432.9	1436.2
32.5°	1222.4	1235.9	1259.4	1313.2	1375.0	1393.2	1323.9	1275.5	1346.1	1417.4	1389.2
35°	1183.4	1193.5	1212.3	1270.2	1322.6	1362.9	1294.4	1243.9	1334.0	1393.9	1344.1
37.5°	1144.4	1155.2	1171.3	1219.7	1267.5	1334.7	1268.8	1212.3	1311.8	1352.2	1297.0
40°	1107.4	1113.5	1130.3	1160.6	1221.7	1305.8	1239.9	1179.4	1289.0	1299.1	1233.2
42.5°	1039.5	1069.8	1085.2	1109.4	1170.0	1266.1	1206.3	1144.4	1263.4	1245.9	1169.3
45°	966.2	1032.1	1038.8	1063.1	1124.2	1223.8	1174.7	1110.1	1239.2	1200.2	1108.8
47.5°	906.4	954.1	993.1	1013.3	1069.8	1174.0	1145.1	1081.2	1202.9	1142.4	1049.6
50°	853.3	878.8	949.4	964.2	1004.6	1114.2	1110.1	1047.6	1152.5	1069.8	991.8
52.5°	801.5	819.6	883.5	915.1	948.1	1049.6	1068.4	1014.6	1097.3	997.2	933.3
55°	756.4	762.5	797.5	864.0	893.6	984.4	1022.7	976.3	1027.4	927.9	876.8
57.5°	710.0	704.7	730.2	815.6	837.1	917.8	974.3	937.3	970.9	857.3	818.3
60°	661.6	654.2	665.0	721.5	777.3	851.9	917.1	894.3	902.4	787.4	753.1
62.5°	611.2	603.8	600.4	636.1	718.8	784.0	859.3	846.5	818.3	723.5	672.4
65°	558.8	551.4	546.0	560.1	654.2	695.9	794.8	791.4	726.2	656.3	566.2
67.5°	170.1	501.6	490.2	489.5	551.4	615.9	724.8	719.5	633.4	584.3	487.5
70°	153.3	406.8	432.3	426.3	453.2	534.6	644.8	640.8	543.3	468.7	431.0
72.5°	140.5	143.9	381.9	375.2	381.2	454.5	561.4	550.7	460.6	369.8	372.5
75°	120.4	126.4	131.8	316.7	308.6	376.5	470.7	453.9	379.9	305.3	311.3
77.5°	98.2	105.6	109.6	230.6	249.5	268.3	375.9	353.7	261.6	244.1	116.3
80°	73.3	79.3	86.1	92.1	189.6	187.6	279.0	256.9	182.2	152.0	90.8
82.5°	53.8	55.8	59.8	66.6	75.3	125.7	179.5	158.0	126.4	69.3	62.5
85°	33.6	36.3	38.3	40.3	45.7	75.3	88.8	70.6	53.1	42.4	39.7
87.5°	21.5	21.5	20.8	21.5	22.2	26.9	30.3	28.9	22.9	21.5	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213397

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1461.8	1452.4	1452.4	1449.7	1451.7	1451.7	1451.0	1451.7	1456.4	1459.1	1463.8
5°	1461.1	1458.4	1464.5	1471.9	1480.6	1491.4	1494.1	1503.5	1512.2	1523.6	1535.7
7.5°	1469.9	1479.3	1490.7	1502.8	1520.3	1533.1	1544.5	1555.9	1564.0	1574.7	1581.5
10°	1482.6	1501.5	1521.0	1536.4	1555.2	1566.0	1573.4	1574.7	1563.3	1545.2	1530.4
12.5°	1500.8	1523.0	1541.1	1555.9	1564.7	1560.6	1539.1	1516.9	1504.1	1485.3	1459.1
15°	1516.2	1536.4	1555.2	1549.2	1525.7	1503.5	1486.7	1460.4	1434.9	1417.4	1406.0
17.5°	1523.0	1542.5	1535.7	1504.1	1482.0	1456.4	1422.1	1401.9	1385.1	1371.7	1365.0
20°	1527.0	1523.6	1487.3	1464.5	1421.4	1397.9	1375.7	1356.9	1344.1	1337.4	1336.0
22.5°	1516.2	1475.2	1444.3	1403.3	1371.7	1352.2	1334.7	1319.2	1310.5	1305.1	1301.8
25°	1480.6	1432.9	1387.1	1354.9	1328.0	1311.2	1297.7	1284.9	1274.2	1271.5	1264.8
27.5°	1430.9	1391.9	1331.3	1306.5	1282.9	1274.9	1260.1	1247.3	1237.9	1229.8	1208.3
30°	1389.8	1328.0	1284.3	1261.4	1247.3	1237.9	1221.1	1207.6	1191.5	1161.9	1149.8
32.5°	1339.4	1278.2	1236.5	1223.8	1206.3	1198.2	1179.4	1149.8	1124.9	1112.8	1112.1
35°	1274.2	1223.8	1193.5	1182.1	1167.9	1154.5	1115.5	1088.6	1076.5	1077.8	1087.9
37.5°	1219.7	1174.7	1155.2	1139.0	1122.9	1088.6	1055.7	1042.9	1046.2	1053.0	1057.7
40°	1164.6	1130.3	1108.1	1095.3	1059.0	1025.4	1007.9	1012.6	1018.7	1023.4	1029.4
42.5°	1110.8	1086.6	1064.4	1039.5	989.8	971.6	975.6	981.7	987.1	993.8	999.8
45°	1059.7	1038.2	1012.6	956.1	931.3	936.0	942.0	946.7	954.8	959.5	965.6
47.5°	1011.3	988.4	943.4	893.6	890.9	900.3	905.7	911.8	917.8	905.7	499.6
50°	956.8	933.3	864.7	845.9	851.9	860.7	867.4	873.4	778.0	309.3	238.0
52.5°	903.0	843.2	799.5	804.9	810.9	821.0	825.7	613.2	244.1	232.6	233.3
55°	843.2	766.5	753.8	760.5	765.9	775.9	514.4	225.3	223.9	223.2	228.6
57.5°	749.0	702.7	708.0	714.8	720.1	508.3	219.2	217.9	218.5	219.2	219.9
60°	665.0	654.9	661.0	667.0	472.0	211.8	207.8	208.4	211.1	209.1	203.7
62.5°	598.4	606.5	612.6	536.6	201.0	199.0	201.0	199.0	194.3	191.0	184.2
65°	547.3	555.4	560.1	188.9	188.3	191.0	188.9	182.2	174.8	165.4	163.4
67.5°	493.5	501.6	179.5	174.8	177.5	174.1	166.1	158.0	152.6	144.6	141.2
70°	437.7	187.6	162.7	162.0	157.3	152.0	143.2	135.2	128.4	125.1	121.7
72.5°	316.0	148.6	146.6	141.2	133.1	125.7	118.3	113.6	110.3	108.3	106.2
75°	131.8	129.1	123.0	113.6	105.6	102.2	96.8	93.5	92.1	88.1	86.7
77.5°	110.3	104.9	96.2	89.4	84.7	82.7	78.7	74.6	72.6	71.9	69.3
80°	84.7	77.3	73.3	69.9	68.6	63.9	59.2	57.2	55.8	55.1	53.1
82.5°	57.8	55.1	52.4	47.7	47.7	45.7	43.7	42.4	41.0	41.0	39.7
85°	37.7	35.6	35.0	32.9	32.9	31.6	30.9	30.3	29.6	28.9	28.2
87.5°	21.5	21.5	22.2	21.5	21.5	20.8	20.2	19.5	18.8	18.8	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213397

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1469.9	1476.6	1477.9	1500.8	1513.6	1512.9	1508.8	1521.0	1513.6	1509.5	1513.6
5°	1547.8	1555.9	1562.6	1587.5	1596.3	1600.3	1599.6	1606.3	1601.0	1596.3	1596.3
7.5°	1586.2	1588.9	1591.6	1585.5	1581.5	1574.7	1564.7	1549.9	1542.5	1534.4	1524.3
10°	1523.0	1514.2	1517.6	1505.5	1495.4	1488.0	1478.6	1466.5	1456.4	1449.0	1437.6
12.5°	1445.6	1445.0	1446.3	1448.3	1438.2	1432.2	1424.8	1416.1	1408.7	1400.6	1391.2
15°	1398.6	1399.2	1404.6	1402.6	1399.2	1395.9	1387.8	1385.1	1378.4	1369.7	1364.3
17.5°	1365.0	1368.3	1373.7	1371.0	1365.6	1362.3	1356.2	1350.2	1344.1	1337.4	1329.3
20°	1335.4	1338.7	1342.1	1338.7	1328.6	1323.9	1315.9	1297.0	1283.6	1270.2	1258.0
22.5°	1303.1	1305.1	1302.4	1291.7	1266.1	1254.0	1244.6	1239.2	1227.8	1220.4	1213.0
25°	1262.8	1251.3	1233.8	1221.7	1211.7	1206.3	1202.2	1201.6	1200.2	1198.9	1195.5
27.5°	1196.9	1192.8	1183.4	1178.7	1179.4	1181.4	1182.1	1184.1	1182.1	1179.4	1176.7
30°	1147.8	1149.8	1150.5	1151.8	1155.2	1157.2	1157.9	1160.6	1159.2	1157.2	1155.8
32.5°	1116.8	1121.6	1124.2	1128.3	1130.3	1133.7	1133.7	1137.7	1133.7	1133.0	1131.6
35°	1091.3	1095.3	1096.7	1102.7	1104.7	1108.1	1108.1	1111.5	1108.1	1073.8	847.9
37.5°	1065.7	1069.8	1072.5	1077.8	1078.5	1080.5	997.2	729.5	470.7	364.4	278.4
40°	1035.5	1040.2	1042.9	1044.9	734.3	466.0	320.7	260.9	260.9	262.9	264.9
42.5°	1003.2	1006.6	701.3	408.1	254.2	253.5	255.5	257.5	259.5	262.2	264.9
45°	788.7	398.1	252.8	246.8	248.8	251.5	254.2	256.9	260.2	262.9	264.3
47.5°	258.9	242.7	246.1	243.4	246.8	250.1	252.8	255.5	256.2	256.9	256.2
50°	239.4	239.4	241.4	241.4	244.1	245.4	245.4	245.4	242.7	242.1	240.0
52.5°	231.3	236.7	234.0	235.3	234.0	232.0	230.0	227.9	223.9	222.6	219.9
55°	227.3	229.3	222.6	220.5	217.9	212.5	209.8	207.1	203.7	202.4	199.0
57.5°	217.9	213.1	205.8	202.4	197.7	192.3	189.6	187.6	184.2	182.9	180.9
60°	200.4	191.0	186.3	182.2	176.8	172.1	170.1	168.8	166.1	165.4	163.4
62.5°	178.9	170.8	166.8	161.4	157.3	154.7	152.6	152.0	149.3	149.3	147.9
65°	155.3	151.3	147.9	142.5	140.5	137.8	137.2	136.5	135.2	134.5	133.1
67.5°	136.5	133.8	129.1	126.4	125.1	123.0	121.7	120.4	117.7	116.3	114.3
70°	119.7	117.7	113.0	110.9	108.3	104.9	102.9	101.5	99.5	98.2	96.2
72.5°	103.5	97.5	94.1	92.1	90.1	86.7	86.1	84.7	82.7	82.0	80.0
75°	83.4	78.7	76.7	75.3	73.3	71.3	71.3	71.3	69.3	68.6	67.9
77.5°	66.6	63.9	62.5	61.2	60.5	59.2	57.2	56.5	54.5	54.5	53.8
80°	51.1	49.8	48.4	47.7	47.1	45.7	44.4	43.7	41.7	41.7	41.0
82.5°	37.7	37.0	36.3	35.6	35.0	34.3	32.3	31.6	30.3	30.3	29.6
85°	26.9	26.2	24.9	24.2	24.2	23.5	21.5	20.8	19.5	19.5	19.5
87.5°	16.8	16.1	15.5	14.8	14.1	13.4	12.1	11.4	11.4	10.1	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213397

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1505.5	1516.9	1515.6	1523.6	1525.7	1529.7	1531.0	1531.7	1521.6	1529.7	1530.4
5°	1594.2	1596.3	1597.6	1601.0	1604.3	1605.0	1601.6	1597.6	1599.0	1596.3	1589.5
7.5°	1523.0	1512.9	1510.9	1508.2	1506.8	1505.5	1499.4	1504.8	1498.8	1496.1	1486.7
10°	1435.6	1426.1	1425.5	1425.5	1427.5	1426.8	1425.5	1422.8	1428.2	1424.8	1422.8
12.5°	1389.8	1386.5	1388.5	1387.1	1392.5	1393.9	1392.5	1392.5	1391.2	1388.5	1389.8
15°	1362.3	1359.6	1361.6	1359.6	1363.6	1364.3	1360.9	1362.9	1359.6	1356.2	1354.9
17.5°	1326.0	1319.9	1315.2	1308.5	1309.1	1307.8	1303.8	1303.8	1300.4	1291.7	1292.3
20°	1256.0	1250.0	1247.3	1247.3	1250.7	1252.0	1251.3	1252.7	1249.3	1248.0	1242.6
22.5°	1212.3	1211.7	1213.0	1216.4	1221.7	1229.1	1229.8	1229.8	1229.8	1229.1	1222.4
25°	1196.9	1196.9	1198.2	1202.9	1206.9	1212.3	1213.7	1215.0	1213.7	1213.7	1207.6
27.5°	1179.4	1178.0	1180.7	1185.4	1190.1	1194.2	1197.5	1198.2	1196.2	1196.2	1198.2
30°	1157.9	1157.2	1160.6	1165.3	1169.3	1173.3	1176.7	1179.4	1176.7	1176.7	1174.7
32.5°	1135.7	1135.7	1137.0	1108.8	1028.1	925.9	927.9	868.7	827.7	775.9	844.5
35°	708.7	515.7	443.1	375.2	327.5	296.5	295.9	285.8	281.1	277.7	277.0
37.5°	267.6	269.0	271.6	273.0	275.0	276.4	277.0	277.0	277.0	277.0	276.4
40°	266.9	269.6	271.6	273.7	275.7	277.0	277.0	277.7	278.4	278.4	278.4
42.5°	267.6	270.3	273.0	275.0	276.4	277.0	277.7	278.4	278.4	278.4	278.4
45°	266.9	268.3	268.3	269.0	269.0	269.0	269.6	269.6	269.0	268.3	269.6
47.5°	256.9	256.9	254.8	254.2	253.5	252.1	252.8	252.1	251.5	250.8	252.1
50°	239.4	236.7	235.3	234.0	233.3	232.0	232.6	232.0	231.3	230.0	232.0
52.5°	218.5	217.9	215.2	213.8	213.1	213.8	212.5	211.8	211.1	210.5	211.1
55°	198.4	195.7	195.0	193.6	193.0	193.6	193.0	192.3	191.6	191.0	191.6
57.5°	180.2	178.2	177.5	176.2	176.2	176.2	176.2	175.5	174.8	174.1	174.8
60°	162.7	161.4	160.7	160.7	160.0	160.0	160.0	159.4	158.7	158.7	159.4
62.5°	147.9	147.9	145.9	145.2	145.2	145.9	145.2	144.6	143.9	143.2	144.6
65°	132.5	129.8	129.1	127.8	126.4	127.1	126.4	125.7	125.1	124.4	125.7
67.5°	113.6	113.0	110.3	108.9	108.3	108.9	108.3	107.6	106.9	106.2	107.6
70°	95.5	95.5	92.8	92.1	91.4	91.4	90.8	90.8	90.1	89.4	90.8
72.5°	79.3	79.3	78.7	77.3	76.7	76.0	75.3	74.6	74.6	75.3	75.3
75°	65.9	64.5	61.9	62.5	61.9	61.2	61.2	60.5	59.8	61.2	60.5
77.5°	51.8	51.1	49.1	49.8	49.1	48.4	48.4	47.7	47.1	47.7	47.7
80°	39.0	39.0	38.3	37.7	37.7	37.0	36.3	36.3	35.6	36.3	36.3
82.5°	28.2	28.2	27.6	26.9	26.2	26.2	25.6	25.6	25.6	25.6	25.6
85°	18.2	17.5	17.5	16.1	16.1	16.1	15.5	15.5	15.5	15.5	15.5
87.5°	8.7	8.7	8.1	8.1	7.4	6.7	6.7	6.1	6.1	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213397

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1518.3	1527.0	1519.6	1523.0	1523.6	1535.1	1534.4	1537.1	1532.4	1527.0	1519.6
5°	1595.6	1591.6	1586.2	1599.0	1592.2	1600.3	1603.0	1608.4	1608.4	1607.7	1601.6
7.5°	1496.7	1488.0	1494.7	1499.4	1501.5	1496.1	1506.8	1518.9	1529.0	1535.1	1535.7
10°	1419.4	1422.1	1421.4	1423.5	1428.2	1427.5	1434.2	1440.9	1443.6	1447.7	1449.0
12.5°	1383.1	1382.4	1383.8	1388.5	1391.2	1390.5	1397.2	1401.3	1402.6	1403.3	1402.6
15°	1354.2	1349.5	1352.9	1353.5	1355.5	1355.5	1363.6	1369.7	1372.4	1373.7	1372.4
17.5°	1299.7	1288.3	1299.1	1299.1	1306.5	1305.1	1317.9	1328.0	1333.4	1337.4	1337.4
20°	1245.9	1240.6	1244.6	1243.3	1248.6	1248.0	1256.0	1262.8	1267.5	1270.8	1274.9
22.5°	1224.4	1225.8	1219.7	1220.4	1220.4	1219.7	1223.8	1227.1	1228.5	1230.5	1229.1
25°	1210.3	1211.7	1209.6	1206.3	1204.9	1206.3	1208.3	1212.3	1213.0	1211.7	1206.9
27.5°	1196.2	1192.2	1195.5	1189.5	1188.1	1190.8	1193.5	1194.2	1194.8	1194.8	1190.8
30°	1174.7	1171.3	1174.7	1172.0	1169.3	1172.0	1174.0	1174.0	1175.3	1176.0	1171.3
32.5°	821.0	827.7	936.6	1002.5	1095.3	1142.4	1151.1	1151.1	1152.5	1152.5	1148.4
35°	279.7	280.4	303.2	328.8	383.3	450.5	538.6	584.3	739.0	923.9	1102.7
37.5°	276.4	275.7	275.0	274.3	273.7	273.0	271.6	271.0	275.0	326.1	442.4
40°	277.7	277.0	275.7	275.0	274.3	273.0	272.3	271.0	269.6	268.3	266.9
42.5°	277.7	277.0	276.4	275.7	275.0	274.3	273.0	271.6	270.3	268.3	266.3
45°	268.3	268.3	269.0	269.0	269.6	269.6	269.6	269.0	269.0	268.3	265.6
47.5°	250.8	250.8	252.8	252.8	254.2	255.5	255.5	256.9	258.9	260.2	260.9
50°	230.6	230.6	232.6	233.3	234.7	236.7	238.7	239.4	241.4	244.1	246.8
52.5°	210.5	210.5	212.5	212.5	213.8	215.8	217.9	218.5	221.2	223.9	227.3
55°	191.6	191.6	193.0	193.6	194.3	195.7	197.7	197.7	200.4	202.4	205.8
57.5°	174.8	176.2	176.2	176.2	176.8	178.2	179.5	179.5	181.5	183.6	186.3
60°	158.7	160.0	160.0	160.0	160.7	161.4	162.7	162.7	164.1	165.4	168.1
62.5°	143.9	145.2	145.2	145.9	145.9	146.6	147.9	147.3	148.6	149.3	151.3
65°	125.1	126.4	127.1	127.8	128.4	129.8	131.8	131.1	133.1	134.5	136.5
67.5°	106.9	108.3	108.3	108.9	109.6	110.9	112.3	112.3	114.3	115.7	118.3
70°	90.1	91.4	91.4	92.1	92.8	94.1	95.5	94.8	96.8	98.2	100.2
72.5°	74.6	76.0	76.0	76.7	76.7	78.0	79.3	80.7	80.7	82.0	83.4
75°	60.5	61.2	61.9	61.9	62.5	63.2	64.5	65.9	66.6	67.2	68.6
77.5°	47.7	48.4	49.1	49.1	49.8	50.4	51.1	53.8	55.1	55.8	55.8
80°	36.3	37.0	37.0	37.0	37.7	38.3	39.7	39.7	42.4	42.4	43.0
82.5°	25.6	26.2	26.2	26.2	26.9	28.2	28.9	29.6	30.9	31.6	31.6
85°	15.5	16.1	16.1	16.1	16.8	17.5	18.8	19.5	20.2	20.2	20.8
87.5°	6.1	6.7	7.4	7.4	8.1	8.7	9.4	10.1	10.8	10.8	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213397

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1511.5	1516.2	1511.5	1514.2	1517.6	1511.5	1497.4	1492.0	1490.0	1482.0	1476.6
5°	1595.6	1595.6	1593.6	1599.0	1598.3	1588.9	1574.1	1567.3	1560.6	1551.9	1545.2
7.5°	1535.7	1541.1	1544.5	1565.3	1578.8	1580.1	1589.5	1591.6	1594.2	1591.6	1587.5
10°	1449.7	1447.7	1457.1	1476.6	1488.0	1494.1	1512.2	1521.0	1528.3	1543.1	1558.6
12.5°	1401.3	1404.0	1408.0	1422.1	1432.9	1430.2	1437.6	1443.6	1452.4	1467.2	1489.4
15°	1369.0	1371.7	1375.7	1386.5	1393.2	1389.8	1393.9	1397.9	1404.0	1411.4	1424.8
17.5°	1334.0	1338.7	1343.4	1354.9	1360.9	1360.3	1363.6	1365.0	1367.0	1371.7	1381.1
20°	1279.6	1294.4	1303.8	1319.2	1328.0	1326.6	1332.7	1334.7	1337.4	1342.1	1346.1
22.5°	1229.8	1233.8	1238.5	1255.4	1270.2	1288.3	1292.3	1297.7	1304.4	1309.1	1313.2
25°	1201.6	1198.9	1200.9	1212.3	1220.4	1221.7	1227.8	1245.3	1263.4	1271.5	1280.9
27.5°	1184.8	1182.1	1181.4	1186.8	1188.1	1184.8	1183.4	1188.8	1202.2	1215.7	1243.9
30°	1166.6	1163.2	1160.6	1165.3	1167.3	1162.6	1153.8	1149.1	1157.2	1160.6	1172.0
32.5°	1145.1	1141.7	1140.4	1143.1	1144.4	1140.4	1131.0	1125.6	1124.2	1121.6	1124.2
35°	1120.9	1117.5	1115.5	1116.2	1118.9	1115.5	1107.4	1100.7	1097.3	1089.9	1084.6
37.5°	577.6	818.3	1062.4	1087.9	1090.6	1089.9	1081.9	1074.5	1071.1	1062.4	1059.7
40°	264.3	295.2	443.1	578.9	835.1	1061.0	1053.6	1046.2	1040.2	1037.5	1027.4
42.5°	263.6	264.3	264.9	261.6	324.1	552.0	814.9	1017.3	1013.3	1006.6	999.2
45°	263.6	260.2	262.9	258.9	260.2	259.5	323.4	521.8	928.6	970.3	966.9
47.5°	260.9	258.9	261.6	258.2	254.2	256.2	253.5	256.9	400.7	679.8	931.3
50°	248.8	250.1	254.8	254.2	250.8	253.5	248.8	252.8	249.5	273.7	527.2
52.5°	230.6	233.3	238.0	242.1	243.4	246.8	245.4	246.8	244.1	244.8	245.4
55°	209.1	212.5	216.5	222.6	225.3	230.6	234.7	236.7	240.0	239.4	234.0
57.5°	188.9	192.3	195.7	201.7	207.8	210.5	217.9	221.9	230.6	228.6	227.3
60°	170.1	172.8	176.2	177.5	184.9	189.6	196.3	200.4	211.8	214.5	218.5
62.5°	153.3	154.7	157.3	159.4	164.1	168.8	172.1	178.9	184.9	193.6	199.7
65°	137.8	139.2	141.2	142.5	143.2	149.9	152.0	159.4	161.4	170.8	176.2
67.5°	120.4	123.0	125.7	127.1	128.4	132.5	133.8	137.2	141.9	145.9	152.6
70°	102.2	104.2	106.9	108.9	111.6	114.3	118.3	120.4	123.7	126.4	131.8
72.5°	85.4	87.4	88.8	90.8	92.8	94.8	98.2	102.9	105.6	110.3	111.6
75°	69.3	71.3	72.6	74.0	76.0	77.3	78.7	83.4	86.1	90.1	94.1
77.5°	57.2	57.2	58.5	62.5	61.9	61.9	63.2	65.9	67.9	70.6	74.6
80°	44.4	45.1	45.7	49.1	49.8	50.4	49.8	51.8	53.8	54.5	57.2
82.5°	32.9	33.6	33.6	35.6	37.7	37.7	37.7	38.3	40.3	41.0	42.4
85°	22.2	22.9	23.5	24.2	25.6	26.2	26.9	26.9	28.2	28.9	29.6
87.5°	12.1	13.4	14.1	14.8	15.5	16.1	16.8	17.5	18.2	18.8	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213397

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1474.6	1471.2	1469.2	1463.8	1462.5	1453.7	1455.1	1453.7	1453.7	1455.7	1462.5
5°	1537.8	1521.6	1517.6	1506.2	1496.7	1480.6	1470.5	1465.1	1457.1	1453.7	1458.4
7.5°	1580.8	1568.7	1558.6	1548.5	1535.1	1516.2	1502.1	1486.0	1472.5	1459.8	1456.4
10°	1573.4	1586.8	1586.8	1580.8	1568.0	1549.2	1532.4	1512.2	1488.7	1468.5	1456.4
12.5°	1510.9	1534.4	1553.2	1567.3	1580.1	1567.3	1550.5	1534.4	1508.2	1478.6	1456.4
15°	1442.3	1466.5	1490.0	1519.6	1550.5	1563.3	1562.6	1543.8	1520.3	1489.4	1458.4
17.5°	1393.9	1410.7	1423.5	1455.7	1493.4	1526.3	1548.5	1549.9	1527.0	1499.4	1459.1
20°	1357.6	1369.7	1380.4	1398.6	1431.5	1471.9	1512.9	1535.7	1531.7	1501.5	1461.1
22.5°	1324.6	1333.4	1342.1	1355.5	1381.8	1408.0	1455.7	1502.8	1523.0	1498.1	1459.1
25°	1291.7	1301.1	1307.8	1317.2	1338.1	1359.6	1393.2	1451.7	1496.7	1495.4	1455.1
27.5°	1252.7	1265.4	1273.5	1286.3	1300.4	1316.5	1339.4	1394.5	1459.1	1482.0	1444.3
30°	1205.6	1224.4	1236.5	1250.7	1262.8	1276.9	1295.0	1328.6	1408.7	1455.7	1432.9
32.5°	1137.7	1171.3	1198.2	1211.7	1225.1	1237.2	1253.3	1281.6	1346.8	1420.1	1420.1
35°	1089.3	1104.7	1128.9	1167.9	1184.8	1196.9	1211.7	1233.8	1275.5	1377.7	1399.2
37.5°	1051.6	1057.7	1069.8	1108.1	1139.7	1159.2	1174.0	1188.1	1229.1	1319.9	1372.4
40°	1023.4	1021.4	1020.0	1038.2	1083.2	1114.2	1131.0	1145.1	1176.7	1250.7	1336.7
42.5°	990.4	988.4	981.7	986.4	1008.6	1060.4	1085.9	1101.4	1127.6	1178.0	1297.7
45°	956.1	952.8	950.1	945.4	953.5	982.4	1034.8	1057.7	1072.5	1117.5	1248.6
47.5°	921.2	916.5	913.1	909.1	904.4	917.8	967.6	1008.6	1034.1	1062.4	1189.5
50°	871.4	877.5	873.4	868.7	864.7	862.0	882.9	950.1	981.7	1004.6	1117.5
52.5°	410.8	798.8	832.4	827.7	822.3	817.6	822.3	873.4	930.6	948.7	1030.8
55°	234.0	355.7	740.3	782.7	778.0	771.2	767.2	784.7	870.1	894.3	951.4
57.5°	225.3	225.9	326.8	705.3	731.6	725.5	720.8	724.8	797.5	838.5	882.2
60°	217.9	217.9	217.9	312.0	674.4	676.4	670.4	663.7	695.3	775.9	812.3
62.5°	201.7	205.8	207.8	207.8	308.0	624.7	618.6	616.6	617.9	700.6	742.3
65°	180.9	190.3	194.3	197.0	197.0	323.4	565.5	562.1	557.4	589.0	671.7
67.5°	158.0	167.4	176.2	181.5	182.2	188.3	337.5	506.3	499.6	500.3	596.4
70°	134.5	142.5	152.0	160.0	167.4	170.8	176.2	420.2	442.4	433.0	511.0
72.5°	116.3	119.7	126.4	134.5	143.2	151.3	156.0	167.4	383.9	373.9	388.6
75°	96.8	99.5	104.2	109.6	116.3	125.7	133.8	141.9	203.7	313.3	311.3
77.5°	75.3	80.0	85.4	88.8	92.1	98.8	109.6	117.7	125.7	211.8	249.5
80°	57.8	61.2	63.9	67.2	71.3	76.0	80.0	89.4	98.8	106.2	191.0
82.5°	43.0	45.1	47.1	48.4	49.8	52.4	59.8	63.2	69.3	76.0	90.1
85°	30.3	31.6	32.9	33.6	34.3	35.0	37.7	38.3	44.4	45.7	54.5
87.5°	19.5	20.2	21.5	22.2	22.2	22.9	23.5	23.5	23.5	22.2	26.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213397

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1467.2	1467.2
2.5°	1467.8	1478.6
5°	1465.8	1479.9
7.5°	1460.4	1473.9
10°	1452.4	1468.5
12.5°	1443.6	1459.1
15°	1436.2	1447.7
17.5°	1428.2	1434.9
20°	1417.4	1422.8
22.5°	1406.6	1404.0
25°	1394.5	1388.5
27.5°	1379.1	1367.6
30°	1365.0	1344.8
32.5°	1351.5	1318.6
35°	1333.4	1291.7
37.5°	1314.5	1264.1
40°	1292.3	1232.5
42.5°	1268.8	1200.9
45°	1239.2	1170.6
47.5°	1213.0	1134.3
50°	1176.7	1095.3
52.5°	1132.3	1059.0
55°	1079.9	1014.6
57.5°	1023.4	968.2
60°	962.9	915.1
62.5°	889.6	860.0
65°	803.5	796.8
67.5°	691.2	726.9
70°	566.8	646.8
72.5°	474.0	562.1
75°	388.6	467.3
77.5°	308.0	366.5
80°	192.3	268.3
82.5°	129.1	176.2
85°	78.0	84.0
87.5°	30.3	30.9
90°	0.0	0.0

(END OF REPORT)