

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: P1214041

Luminaire Tested: 2SNLED-LD5-27SL-RM-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-27SL-RM-UNV-L950-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

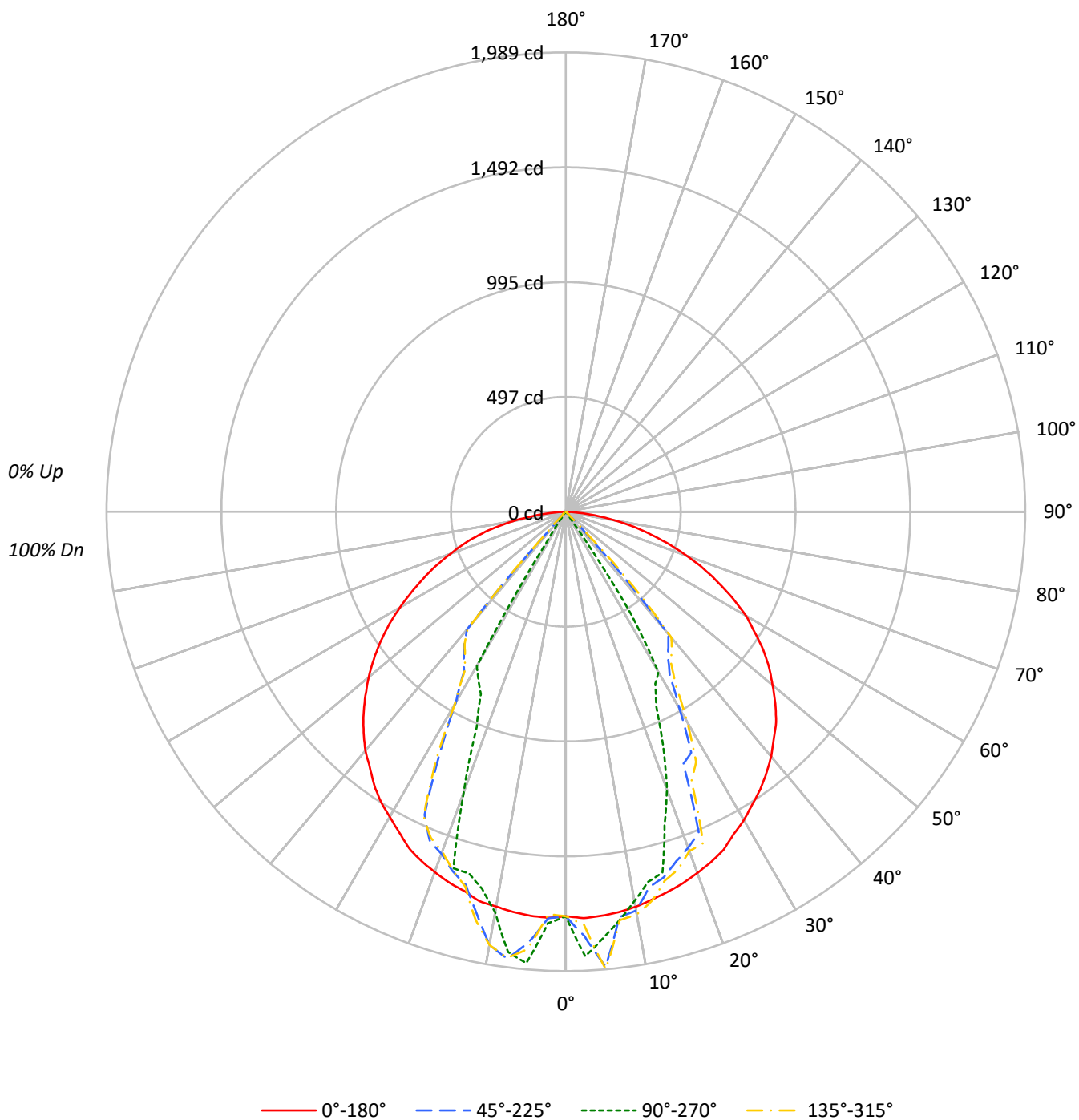
Lumens per Lamp: N/A
Luminaire Lumens: 2490.1 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 21
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



TEST NUMBER: P1214041

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	92	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	82	82	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	74	74	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	67	67	65
5	85	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	61	61	59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	55	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	51	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	44	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	40	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	28303	28303	28303	28303
5°	28340	29108	28332	30825
10°	28196	26340	28178	27100
15°	28040	24585	27970	24649
20°	27990	19364	27911	19603
25°	27984	14014	27849	13225
30°	27766	12294	27472	11818
35°	27748	270	27339	328
40°	27731	59	27067	59
45°	27699	35	26660	27
50°	27339	28	26085	28
55°	27002	20	25341	20
60°	26273	22	24220	22
65°	24634	34	22881	23
70°	22508	37	21427	37
75°	19454	42	19773	42
80°	15166	48	16032	48
85°	8134	56	8296	56

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 29921 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	7.1
10°-20°	479.2	19.2
20°-30°	609.8	24.5
30°-40°	515.1	20.7
40°-50°	336.8	13.5
50°-60°	212.2	8.5
60°-70°	113.0	4.5
70°-80°	41.2	1.7
80°-90°	7.1	0.3
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°	1264.7	50.8
0°-40°	1779.8	71.5
0°-60°	2328.8	93.5
0°-90°	2490.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2490.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1751	1751	1751	1751	1751	
5°	1756	1853	1756	1962	1756	167
15°	1704	1617	1700	1621	1704	482
25°	1615	923	1607	871	1615	743
35°	1468	17	1446	21	1468	918
45°	1288	2	1239	2	1288	990
55°	1044	1	980	1	1044	930
65°	730	2	678	1	730	723
75°	384	2	390	2	384	408
85°	75	2	77	2	75	95
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1761.1	1762.2	1762.7	1763.8	1765.3	1765.9	1766.9	1765.9	1765.9	1765.9	1765.9
5°	1756.4	1758.5	1760.1	1762.2	1765.9	1766.4	1770.6	1771.1	1773.2	1777.4	1780.6
7.5°	1748.5	1750.6	1753.8	1759.0	1764.3	1770.1	1777.4	1785.3	1796.4	1806.9	1820.0
10°	1737.0	1739.6	1743.3	1748.0	1773.8	1777.4	1793.7	1816.3	1822.6	1855.7	1880.4
12.5°	1720.1	1729.1	1738.5	1742.7	1767.4	1806.3	1861.0	1850.0	1837.9	1946.1	1944.6
15°	1703.9	1715.9	1711.2	1745.4	1768.0	1835.8	1812.6	1862.0	1952.4	1930.4	1931.4
17.5°	1686.5	1689.1	1715.4	1743.8	1784.3	1819.0	1847.3	1915.1	1933.0	1934.6	1915.1
20°	1664.4	1677.1	1715.4	1741.2	1809.5	1825.8	1887.3	1922.0	1914.6	1896.7	1863.6
22.5°	1641.8	1680.2	1719.1	1755.4	1803.2	1846.8	1877.3	1893.6	1855.2	1784.8	1746.9
25°	1615.0	1637.6	1688.6	1741.7	1801.6	1826.8	1844.7	1818.4	1768.5	1705.4	1641.8
27.5°	1573.5	1609.8	1674.9	1734.9	1789.0	1819.5	1790.6	1727.5	1647.1	1605.6	1576.7
30°	1541.5	1588.8	1642.4	1700.2	1756.4	1774.3	1700.7	1628.7	1573.5	1532.0	1525.7
32.5°	1502.6	1569.8	1620.8	1676.0	1723.3	1699.6	1628.2	1535.2	1489.4	1473.7	1480.0
35°	1467.9	1518.9	1585.6	1639.7	1673.9	1620.8	1507.8	1450.0	1427.9	1436.9	1425.3
37.5°	1426.4	1493.6	1555.1	1601.9	1590.3	1510.4	1414.8	1378.0	1380.6	1373.3	1351.2
40°	1383.3	1447.4	1511.5	1555.6	1515.2	1393.3	1329.7	1321.8	1323.4	1299.7	1268.2
42.5°	1332.8	1391.1	1455.3	1495.2	1408.0	1312.8	1269.7	1270.8	1257.1	1224.0	1207.2
45°	1287.6	1341.2	1408.0	1411.6	1304.4	1225.1	1212.5	1198.8	1168.3	1157.3	1144.7
47.5°	1229.8	1289.2	1344.4	1324.4	1203.0	1153.6	1144.1	1114.2	1098.9	1090.5	1080.0
50°	1168.3	1228.2	1278.7	1221.9	1107.3	1095.8	1064.8	1041.1	1030.6	1021.7	1012.2
52.5°	1110.0	1159.4	1210.9	1113.1	1033.8	1022.7	987.5	973.9	963.3	953.4	951.3
55°	1043.8	1087.4	1122.6	1009.6	963.3	937.6	912.4	902.9	892.9	888.2	896.1
57.5°	968.6	1018.0	1012.7	907.6	887.1	849.8	840.4	834.1	826.7	829.9	764.2
60°	900.8	938.6	912.9	833.0	798.3	773.1	764.7	760.5	764.7	700.6	616.0
62.5°	817.2	859.8	807.8	745.8	709.0	696.9	689.5	695.3	633.8	563.4	542.9
65°	730.5	776.8	700.0	652.2	629.1	618.6	618.1	569.2	508.7	481.4	481.4
67.5°	647.0	694.8	596.0	556.0	547.1	548.2	517.7	443.6	426.8	408.4	355.3
70°	558.1	600.2	492.4	468.3	463.0	459.3	385.2	365.3	345.3	296.4	292.2
72.5°	469.8	490.3	395.7	390.0	388.9	323.2	308.5	274.3	251.2	245.4	242.8
75°	384.2	377.9	312.7	318.0	268.0	244.9	221.3	201.3	198.1	196.0	48.9
77.5°	303.2	271.7	246.5	214.4	191.8	162.9	158.2	155.0	102.0	36.8	30.0
80°	220.7	176.1	164.0	139.3	118.8	114.0	116.7	35.7	28.4	23.7	20.5
82.5°	140.3	112.5	92.0	80.4	78.3	34.2	25.2	20.5	17.9	15.2	12.6
85°	75.2	49.9	46.2	38.9	23.1	15.8	13.1	10.0	8.4	6.8	6.3
87.5°	23.7	20.0	16.3	13.1	7.9	5.3	4.2	3.7	3.2	2.6	2.6
90°	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):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1764.8	1765.9	1765.3	1766.9	1766.9	1769.0	1770.6	1772.2	1775.3	1776.9	1789.0
5°	1787.4	1790.0	1797.9	1805.3	1814.2	1816.8	1832.1	1835.8	1853.6	1855.7	1914.6
7.5°	1837.9	1847.9	1866.8	1885.7	1904.6	1916.7	1937.7	1950.9	1965.1	1977.7	2024.4
10°	1898.8	1915.7	1934.0	1953.0	1964.0	1987.1	1999.7	2001.8	1998.2	1977.7	1902.0
12.5°	1958.7	1975.6	1967.7	1971.4	1984.5	1943.5	1949.3	1919.9	1940.4	1838.9	1763.8
15°	1950.3	1949.3	1929.8	1866.8	1877.3	1799.0	1767.4	1743.3	1762.7	1752.2	1740.6
17.5°	1925.1	1877.3	1843.7	1768.0	1735.9	1713.8	1714.4	1714.9	1705.4	1715.4	1686.0
20°	1818.4	1764.8	1714.9	1688.1	1678.6	1662.9	1670.7	1662.9	1663.4	1666.5	1621.3
22.5°	1676.5	1660.2	1631.3	1639.7	1636.6	1650.8	1640.3	1624.0	1629.2	1605.6	1571.4
25°	1619.2	1600.3	1599.3	1602.4	1597.7	1591.4	1581.9	1557.2	1555.6	1548.3	1532.5
27.5°	1561.4	1562.5	1565.6	1556.2	1539.4	1526.7	1512.6	1500.5	1505.2	1496.8	1475.2
30°	1521.5	1521.0	1502.0	1493.6	1462.6	1463.1	1459.5	1452.1	1447.4	1447.9	1434.2
32.5°	1464.7	1448.4	1426.9	1416.4	1413.7	1404.3	1396.9	1398.5	1402.2	1389.0	1403.2
35°	1406.4	1372.8	1369.6	1360.7	1352.3	1346.0	1348.6	1338.1	1337.5	1336.0	1220.3
37.5°	1328.1	1311.8	1310.2	1300.8	1295.0	1293.4	1283.4	1285.0	1289.7	1298.1	1040.6
40°	1263.4	1248.7	1245.0	1244.5	1231.9	1230.9	1233.5	1243.5	1250.3	1197.7	991.7
42.5°	1194.1	1195.1	1183.6	1176.2	1177.8	1182.5	1195.1	1160.4	1005.4	958.1	906.6
45°	1134.7	1129.4	1123.1	1121.0	1134.7	1125.2	986.5	910.3	891.9	889.8	745.2
47.5°	1072.7	1071.1	1068.5	1070.0	992.3	884.5	853.0	843.0	846.1	844.0	640.1
50°	1010.1	1012.2	1012.2	884.0	811.5	793.6	796.2	805.2	749.4	699.5	596.5
52.5°	956.0	939.7	805.2	758.9	742.6	750.5	731.6	661.7	611.2	581.8	551.8
55°	855.6	735.8	705.8	698.5	704.2	634.3	591.3	546.1	532.9	529.8	512.4
57.5°	673.2	649.1	651.7	622.3	555.5	516.1	498.8	492.4	486.7	482.5	42.0
60°	595.5	602.3	551.3	488.2	461.4	456.2	452.0	446.2	445.1	437.8	26.8
62.5°	545.0	479.3	435.2	419.4	413.1	411.5	403.6	401.0	340.6	46.8	20.0
65°	411.0	384.2	375.8	372.1	365.3	365.3	303.2	47.8	38.9	33.6	17.9
67.5°	335.3	333.2	329.0	324.3	220.7	46.2	40.5	35.2	30.5	26.8	15.8
70°	283.8	282.7	257.5	47.3	39.4	34.7	30.5	27.3	25.2	22.6	14.2
72.5°	232.8	47.3	39.9	34.7	30.0	27.3	24.7	22.1	20.0	18.4	11.6
75°	36.3	32.1	28.4	25.8	23.7	21.0	18.9	17.3	16.8	14.7	7.9
77.5°	26.3	22.6	20.5	18.4	16.3	14.7	12.6	11.0	10.0	8.4	5.8
80°	18.4	16.3	14.7	12.1	10.5	8.9	7.9	6.8	6.3	5.3	2.6
82.5°	10.5	8.9	7.9	6.3	5.8	4.7	4.2	3.7	3.7	2.6	2.6
85°	4.7	4.7	3.7	3.2	2.6	2.6	2.6	2.1	2.1	1.6	1.6
87.5°	2.1	2.1	2.1	2.1	2.1	1.6	1.6	1.6	1.6	1.6	1.1
90°	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):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1805.8	1812.6	1825.8	1839.4	1824.2	1878.9	1874.7	1893.1	1903.0	1907.8	1918.8
5°	1966.6	1997.1	2007.1	1977.1	1959.8	1941.9	1901.5	1871.0	1874.7	1864.7	1828.4
7.5°	1963.5	1898.3	1810.5	1770.6	1767.4	1762.7	1775.3	1782.7	1783.7	1783.2	1782.2
10°	1797.4	1763.8	1758.0	1752.7	1754.8	1735.4	1726.5	1701.2	1714.9	1707.5	1710.2
12.5°	1746.9	1739.1	1708.1	1665.0	1690.7	1671.3	1660.2	1667.6	1659.2	1651.3	1648.7
15°	1717.0	1666.0	1648.7	1638.2	1630.8	1626.6	1630.3	1621.9	1619.2	1617.7	1621.3
17.5°	1655.0	1634.5	1615.6	1587.7	1588.2	1586.7	1597.2	1612.9	1614.0	1533.0	1460.0
20°	1606.1	1589.3	1565.1	1547.8	1571.4	1529.4	1367.0	1289.7	1277.6	1277.6	1279.7
22.5°	1567.2	1529.9	1531.5	1504.1	1282.9	1237.7	1238.7	1243.5	1221.9	1148.3	1140.5
25°	1514.1	1508.3	1393.3	1204.0	1205.6	1170.4	1116.3	1040.1	957.6	957.6	943.9
27.5°	1474.2	1351.7	1183.6	1175.7	1057.4	982.8	936.5	866.6	857.2	848.2	849.3
30°	1440.0	1143.6	1147.8	982.8	895.5	833.5	829.9	818.3	812.5	810.9	805.2
32.5°	1138.4	1113.7	960.7	836.7	802.5	792.5	787.8	774.7	774.1	764.2	694.8
35°	1067.4	977.5	804.1	770.5	760.5	751.0	743.1	498.8	58.9	23.7	20.5
37.5°	986.5	816.7	743.7	728.4	719.0	531.3	53.1	18.4	13.1	9.5	8.4
40°	836.2	729.5	706.3	689.5	284.3	18.4	11.6	8.9	5.3	4.7	4.2
42.5°	705.3	687.4	662.7	201.8	21.0	8.9	5.8	4.2	3.7	3.7	3.2
45°	660.1	644.3	267.0	20.0	13.1	4.2	3.7	3.7	3.2	2.1	2.1
47.5°	618.1	544.0	24.2	12.6	8.4	3.7	3.2	2.1	2.1	2.1	1.6
50°	573.4	30.0	16.8	9.5	5.3	2.1	2.1	2.1	2.1	1.6	1.6
52.5°	107.2	21.0	13.7	8.4	2.6	2.1	2.1	2.1	1.6	1.6	1.6
55°	25.2	16.8	12.6	7.4	2.1	2.1	2.1	1.6	1.6	1.6	1.1
57.5°	18.9	12.6	10.0	6.8	2.1	1.6	1.6	1.6	1.6	1.6	1.1
60°	15.8	8.9	7.9	6.3	1.6	1.6	1.6	1.6	1.6	1.6	1.1
62.5°	11.0	7.4	5.8	4.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	8.9	5.8	4.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
67.5°	7.9	4.7	3.2	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	6.3	1.6	1.6	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	5.3	1.6	1.1	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	5.3	2.6	1.1	1.1	1.6	1.6	2.1	2.1	1.6	1.6	1.6
77.5°	3.7	2.6	1.1	1.1	1.6	1.6	2.1	2.1	1.6	1.6	1.6
80°	2.1	2.6	1.1	1.6	1.6	3.2	3.7	2.1	1.6	1.6	1.6
82.5°	2.1	2.6	3.2	3.2	1.6	2.6	3.2	2.6	2.1	1.6	1.6
85°	2.1	1.6	2.1	2.6	1.6	2.6	2.6	2.1	2.1	1.6	1.6
87.5°	1.1	1.6	1.6	2.1	2.1	2.1	2.6	2.1	2.1	2.1	1.6
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: P1214041

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1924.1	1926.2	1893.1	1881.5	1891.5	1889.4	1880.4	1847.3	1843.7	1821.6	1789.5
5°	1838.9	1853.1	1835.8	1865.7	1851.5	1865.7	1908.8	1928.8	1961.4	1981.3	1988.7
7.5°	1779.5	1782.7	1782.7	1785.3	1787.9	1788.5	1785.3	1783.2	1774.3	1763.2	1783.2
10°	1707.5	1711.2	1717.5	1716.5	1715.9	1727.0	1729.6	1752.2	1751.2	1755.4	1770.6
12.5°	1670.2	1641.8	1667.6	1660.8	1670.2	1655.5	1682.8	1678.1	1679.7	1692.3	1724.9
15°	1608.2	1617.1	1623.4	1623.4	1627.1	1624.0	1620.8	1642.4	1655.5	1656.0	1653.9
17.5°	1488.9	1421.1	1490.5	1472.6	1615.0	1618.7	1606.6	1596.6	1596.6	1604.5	1621.3
20°	1278.2	1279.7	1280.3	1287.1	1295.5	1295.0	1295.5	1502.6	1600.8	1578.2	1563.0
22.5°	1120.5	1101.0	1137.3	1134.7	1179.9	1229.8	1277.6	1272.9	1276.1	1422.2	1553.5
25°	898.2	923.4	902.9	911.8	962.8	1022.2	1059.0	1155.2	1259.8	1252.4	1286.6
27.5°	845.6	838.8	848.2	848.2	855.1	863.0	883.5	937.6	1030.6	1128.4	1220.9
30°	795.7	801.5	802.5	812.0	817.2	822.5	825.6	846.1	867.2	935.0	1049.0
32.5°	597.6	524.0	689.5	734.2	772.0	781.0	787.3	795.7	810.9	820.9	878.2
35°	17.3	17.3	18.4	21.0	26.8	180.8	688.5	758.9	768.9	781.5	792.0
37.5°	8.4	6.3	7.4	7.9	9.5	13.1	18.9	58.9	655.4	741.0	752.6
40°	3.7	3.7	3.7	3.7	4.2	5.3	7.9	13.1	20.0	527.1	711.1
42.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.7	4.7	9.5	22.6	373.1
45°	2.1	2.1	1.6	2.1	2.1	2.6	3.2	3.2	4.2	14.2	25.8
47.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.6	3.2	9.5	13.7
50°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	7.4	9.5
52.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	8.4
55°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	2.1	7.4
57.5°	1.1	1.1	1.1	1.1	1.1	1.6	1.1	1.1	1.6	1.6	6.8
60°	1.1	1.1	1.1	1.1	1.1	1.6	1.6	1.6	1.6	1.6	6.3
62.5°	1.6	1.6	1.1	1.6	1.1	1.1	1.6	1.6	1.6	1.6	4.2
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	1.6
67.5°	1.6	1.6	1.6	1.6	1.1	1.6	1.1	1.6	1.6	1.1	1.1
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	1.1	1.1	1.1
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	1.1	1.1	1.1
75°	1.6	1.6	1.6	1.6	1.6	1.6	2.1	2.1	1.1	1.1	1.1
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.6	3.2	2.6	2.6	1.1
80°	1.6	1.6	1.6	1.6	1.6	1.6	2.6	2.6	2.6	2.6	3.7
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.1	2.1	2.1	2.1	2.6
85°	1.6	1.6	1.6	1.6	1.6	1.6	2.1	2.1	2.1	1.6	2.1
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.1	1.6	1.6	1.6
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: P1214041

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1792.1	1774.3	1768.5	1756.4	1755.4	1756.4	1753.8	1750.1	1752.2	1748.5	1745.4
5°	1992.9	1945.1	1914.1	1872.6	1815.3	1802.7	1799.5	1781.6	1775.3	1773.2	1764.8
7.5°	1830.5	1917.8	1970.3	1988.2	1920.9	1905.1	1886.7	1872.0	1857.8	1831.0	1814.7
10°	1758.5	1762.7	1813.2	1872.0	1967.7	1980.8	1990.8	1958.7	1949.8	1881.5	1866.8
12.5°	1741.7	1742.2	1748.0	1783.7	1858.9	1867.3	1902.5	1921.4	1944.6	1957.7	1947.2
15°	1665.0	1707.5	1739.1	1742.2	1749.1	1763.8	1774.3	1840.0	1867.8	1942.5	1938.3
17.5°	1629.2	1642.9	1688.6	1725.9	1719.6	1714.4	1722.8	1731.7	1758.5	1833.1	1832.1
20°	1569.8	1613.5	1638.2	1677.1	1712.3	1713.8	1704.4	1699.1	1688.6	1700.7	1711.7
22.5°	1544.6	1551.4	1597.7	1625.0	1665.0	1679.2	1681.3	1681.8	1676.0	1669.7	1666.5
25°	1542.0	1520.4	1544.1	1578.2	1607.7	1622.9	1640.3	1646.0	1643.9	1643.9	1640.8
27.5°	1261.9	1513.6	1501.0	1523.6	1559.3	1569.8	1578.8	1596.6	1607.7	1615.6	1619.2
30°	1201.9	1247.1	1467.4	1470.5	1506.8	1505.7	1515.7	1530.4	1544.6	1563.0	1567.7
32.5°	1063.2	1174.1	1343.3	1417.4	1455.3	1458.9	1464.2	1468.4	1481.5	1502.0	1519.9
35°	851.9	1069.5	1151.0	1392.2	1399.0	1406.4	1409.5	1419.5	1423.7	1432.1	1447.9
37.5°	771.0	884.0	1104.2	1204.0	1334.4	1340.7	1357.5	1361.7	1368.5	1375.4	1387.5
40°	724.2	755.2	919.2	1075.3	1282.4	1286.6	1292.3	1302.9	1303.4	1311.3	1322.3
42.5°	686.9	706.9	754.7	1026.9	1245.6	1245.0	1231.4	1238.2	1241.4	1249.8	1265.0
45°	548.7	663.3	693.7	838.8	991.7	1063.2	1200.4	1177.8	1177.2	1180.4	1196.7
47.5°	27.9	623.8	645.4	692.2	936.5	939.2	957.0	1107.3	1130.5	1123.1	1124.7
50°	18.9	43.1	601.2	622.8	807.3	872.4	885.6	892.4	979.1	1075.8	1060.0
52.5°	14.7	24.7	368.4	578.1	655.9	703.7	788.3	836.7	841.9	880.8	1012.7
55°	13.1	18.9	39.9	533.4	557.6	568.1	617.5	702.1	770.5	791.0	792.5
57.5°	11.6	17.3	27.3	241.2	507.2	509.3	517.7	547.1	608.6	664.8	728.4
60°	10.5	15.2	21.5	41.5	460.9	466.2	467.7	475.6	483.0	521.4	594.4
62.5°	6.3	12.1	18.9	30.0	364.7	418.9	418.3	423.6	430.4	434.6	449.4
65°	5.3	9.5	16.3	25.2	44.7	55.7	338.5	376.3	380.5	386.3	388.9
67.5°	4.7	8.4	12.1	20.0	33.6	38.4	44.1	54.7	298.5	336.4	341.6
70°	4.2	5.8	10.0	16.8	27.3	29.4	33.1	37.8	44.7	55.2	270.1
72.5°	2.6	4.2	6.8	12.1	21.0	23.7	25.8	28.9	32.1	38.4	44.1
75°	1.1	3.2	5.8	8.9	16.3	17.9	19.4	21.5	24.2	28.4	31.5
77.5°	1.1	2.6	4.7	6.3	10.5	12.1	14.2	15.8	17.9	20.0	23.1
80°	3.7	2.1	3.2	4.7	7.4	7.9	8.9	10.0	11.6	13.1	15.2
82.5°	2.6	3.2	3.7	3.2	3.7	4.7	5.3	6.3	6.8	7.9	8.4
85°	2.1	2.1	2.6	2.6	2.6	2.6	2.6	2.6	3.2	3.7	4.7
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.1	2.1
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: P1214041

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1745.4	1744.3	1741.2	1741.2	1740.6	1742.7	1744.3	1745.9	1745.4	1748.5	1745.4
5°	1758.5	1755.9	1751.2	1746.9	1745.4	1746.4	1744.8	1746.4	1744.3	1746.9	1742.2
7.5°	1794.8	1785.8	1767.4	1760.1	1750.6	1750.1	1745.4	1744.3	1741.2	1741.2	1735.4
10°	1858.9	1815.8	1810.5	1788.5	1780.6	1742.2	1750.6	1736.4	1734.9	1728.0	1725.4
12.5°	1911.4	1877.8	1867.8	1848.4	1826.3	1748.5	1765.9	1735.4	1733.8	1720.1	1706.0
15°	1912.5	1931.9	1904.6	1851.0	1846.3	1792.7	1757.5	1746.9	1733.3	1692.3	1699.1
17.5°	1851.0	1895.7	1908.8	1897.3	1863.6	1827.4	1778.0	1756.9	1715.9	1697.5	1684.9
20°	1751.2	1796.4	1852.6	1856.3	1877.3	1851.5	1786.9	1752.7	1703.3	1671.3	1660.8
22.5°	1671.8	1704.9	1769.5	1799.5	1825.3	1834.2	1793.2	1742.7	1681.3	1650.2	1643.9
25°	1629.8	1637.1	1656.6	1691.8	1748.5	1789.5	1795.3	1741.7	1709.6	1641.8	1606.1
27.5°	1614.5	1608.2	1600.3	1618.2	1660.8	1710.7	1743.8	1752.7	1672.8	1608.2	1572.5
30°	1575.6	1579.3	1567.2	1560.9	1588.8	1640.3	1699.1	1713.8	1652.3	1585.6	1544.6
32.5°	1527.8	1534.1	1536.2	1525.2	1519.4	1555.1	1618.7	1653.9	1650.8	1553.5	1507.8
35°	1467.9	1485.7	1490.5	1491.0	1481.5	1475.8	1512.6	1585.6	1613.5	1538.8	1472.6
37.5°	1404.8	1410.1	1435.8	1442.7	1442.7	1425.3	1452.6	1511.0	1549.9	1505.7	1429.5
40°	1326.0	1342.8	1367.0	1379.1	1391.1	1392.7	1377.5	1418.5	1482.6	1471.6	1389.0
42.5°	1268.7	1279.7	1294.4	1310.7	1335.4	1341.7	1326.0	1333.3	1400.1	1429.0	1336.5
45°	1201.9	1216.7	1220.9	1238.7	1264.5	1282.9	1282.4	1267.1	1320.7	1356.5	1298.1
47.5°	1133.6	1147.8	1155.2	1164.1	1183.0	1206.7	1219.8	1213.0	1223.5	1293.4	1247.1
50°	1063.2	1071.1	1085.8	1095.8	1108.4	1122.1	1153.6	1159.9	1145.2	1200.9	1190.9
52.5°	996.5	999.1	1009.1	1019.1	1035.9	1045.9	1071.1	1090.0	1089.0	1105.2	1128.4
55°	944.4	932.9	935.0	942.8	953.9	969.1	983.3	1012.7	1022.7	1025.9	1062.7
57.5°	737.9	856.7	867.2	866.6	879.8	886.6	899.8	919.2	954.9	947.1	988.0
60°	670.6	683.7	783.1	794.6	799.4	805.7	821.4	839.3	865.6	882.4	900.3
62.5°	511.4	591.3	621.2	709.0	722.6	726.3	736.8	745.2	772.6	810.9	803.6
65°	395.7	429.9	521.4	557.1	631.7	641.2	655.9	664.8	672.7	716.9	719.0
67.5°	342.1	347.4	372.1	440.9	488.2	561.3	570.2	578.1	590.2	621.7	641.2
70°	292.2	298.5	305.3	311.1	372.6	421.0	488.8	491.4	499.3	520.3	564.4
72.5°	55.2	249.6	253.8	257.5	264.4	296.4	361.1	413.6	416.8	426.8	467.2
75°	37.3	43.6	59.9	206.0	212.9	215.0	226.0	291.7	340.0	342.1	360.0
77.5°	26.8	30.0	36.3	43.1	109.8	165.0	167.7	179.7	229.7	265.9	269.1
80°	18.4	20.5	24.2	27.3	33.6	44.1	121.9	125.6	131.9	181.8	191.3
82.5°	10.5	12.1	14.2	17.3	20.0	25.2	32.6	42.0	85.7	91.4	121.4
85°	5.3	5.8	6.8	8.4	10.0	12.1	16.3	20.0	27.3	49.4	51.0
87.5°	2.6	2.6	2.6	2.6	4.2	4.7	5.8	7.4	9.5	14.2	18.4
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: P1214041

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1745.9	1753.3	1759.6	1761.1	1761.1	1762.2	1763.8	1764.8	1765.9	1766.9	1765.9
5°	1742.7	1750.6	1755.9	1757.5	1757.5	1760.6	1763.2	1766.4	1768.0	1768.0	1766.9
7.5°	1734.9	1740.6	1747.5	1751.7	1752.2	1757.5	1762.2	1761.7	1763.8	1764.8	1767.4
10°	1724.4	1724.4	1735.9	1739.1	1741.7	1747.5	1749.1	1752.2	1759.6	1760.6	1767.4
12.5°	1719.1	1713.8	1727.5	1729.1	1738.0	1730.7	1740.1	1743.3	1735.9	1745.9	1732.8
15°	1695.4	1701.8	1699.6	1704.4	1720.1	1711.7	1737.5	1729.1	1748.0	1725.4	1765.3
17.5°	1676.0	1674.9	1683.4	1687.6	1690.7	1708.6	1715.4	1724.9	1732.2	1725.9	1741.7
20°	1661.8	1653.4	1659.7	1664.4	1675.5	1689.1	1693.3	1679.2	1703.9	1745.9	1755.9
22.5°	1635.0	1629.2	1636.6	1636.6	1653.4	1651.3	1667.1	1658.1	1681.3	1730.1	1781.1
25°	1598.7	1599.3	1607.2	1616.6	1619.8	1643.4	1651.8	1663.4	1692.3	1750.6	1781.6
27.5°	1562.0	1558.8	1563.5	1583.0	1599.3	1616.6	1619.2	1658.7	1698.1	1738.0	1765.3
30°	1525.2	1522.0	1525.2	1539.4	1558.8	1570.4	1599.3	1651.8	1688.6	1715.9	1741.7
32.5°	1485.7	1482.6	1490.0	1500.5	1534.6	1536.2	1593.5	1642.9	1671.8	1691.8	1687.0
35°	1443.7	1439.5	1446.3	1462.6	1494.2	1505.7	1565.6	1602.4	1635.0	1644.5	1622.4
37.5°	1393.3	1385.9	1394.3	1416.9	1450.0	1483.6	1533.6	1576.1	1593.5	1568.3	1542.0
40°	1340.7	1335.4	1350.2	1361.7	1400.6	1447.4	1504.7	1534.6	1523.6	1494.7	1465.8
42.5°	1293.9	1282.9	1296.0	1318.1	1362.2	1415.3	1461.6	1478.4	1452.1	1409.5	1375.9
45°	1236.6	1223.5	1239.3	1268.7	1316.0	1376.4	1412.7	1406.9	1362.2	1325.5	1279.2
47.5°	1176.7	1161.0	1176.7	1211.9	1265.0	1329.1	1355.4	1329.1	1272.9	1226.6	1189.3
50°	1117.9	1099.5	1114.7	1167.8	1219.8	1269.2	1268.7	1217.7	1184.1	1133.6	1101.0
52.5°	1059.5	1033.2	1048.5	1106.3	1158.3	1214.6	1173.0	1125.7	1085.3	1041.1	1030.6
55°	987.5	959.1	979.6	1063.7	1103.7	1136.8	1070.6	1029.0	989.1	967.0	953.9
57.5°	919.2	888.2	906.1	1005.4	1034.8	1043.2	982.3	923.4	899.8	892.4	873.5
60°	848.8	813.6	830.4	945.0	965.4	931.3	871.4	825.6	820.9	806.2	791.5
62.5°	781.5	742.6	753.1	869.8	879.3	817.2	762.1	750.0	738.4	723.7	715.8
65°	704.2	663.8	678.5	789.9	781.0	701.1	670.1	667.5	652.2	640.1	651.7
67.5°	633.3	585.5	606.0	702.7	662.2	597.0	584.4	578.1	566.0	572.9	451.5
70°	555.5	503.5	531.3	608.6	548.7	505.6	500.9	491.4	491.9	391.0	329.5
72.5°	468.8	423.6	464.1	505.6	434.1	421.5	414.7	413.6	333.7	271.2	255.9
75°	392.6	346.9	390.5	406.3	345.8	337.4	336.9	278.5	219.2	209.2	204.4
77.5°	306.4	271.2	312.7	289.1	265.4	255.9	229.7	172.4	165.0	158.2	59.4
80°	206.5	209.2	233.3	199.2	189.2	161.3	127.2	121.9	105.1	42.0	33.1
82.5°	125.6	157.7	148.7	124.6	121.9	87.8	80.4	41.0	30.5	24.2	21.0
85°	65.2	79.9	76.7	67.8	50.5	45.2	25.2	19.4	15.8	12.1	10.0
87.5°	22.1	29.4	28.4	22.6	17.3	13.7	8.9	7.4	5.3	4.2	3.7
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: P1214041

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1764.8	1764.8	1763.8	1764.8	1765.3	1764.3	1764.3	1765.3	1765.9	1766.4	1769.0
5°	1767.4	1768.5	1770.1	1773.2	1773.8	1780.1	1782.7	1784.3	1785.8	1786.4	1782.7
7.5°	1773.2	1776.9	1780.1	1779.5	1775.9	1765.9	1762.7	1760.1	1764.8	1776.9	1791.1
10°	1778.5	1761.7	1730.1	1773.2	1760.1	1772.2	1807.9	1815.8	1840.0	1874.1	1884.1
12.5°	1742.2	1788.5	1798.5	1750.1	1839.4	1806.3	1845.8	1880.4	1890.4	1925.1	1904.1
15°	1781.1	1803.7	1819.0	1867.3	1862.0	1890.4	1901.5	1894.6	1896.2	1905.1	1928.8
17.5°	1780.6	1825.8	1835.8	1868.4	1890.4	1891.0	1887.8	1884.6	1893.1	1899.9	1885.7
20°	1811.1	1825.8	1845.2	1858.4	1862.6	1867.8	1877.8	1869.9	1854.2	1838.9	1832.6
22.5°	1795.8	1828.9	1845.8	1847.9	1845.2	1828.9	1814.2	1792.1	1784.8	1776.9	1779.5
25°	1799.0	1814.2	1812.1	1803.7	1792.7	1762.2	1754.8	1745.4	1731.2	1697.0	1666.0
27.5°	1776.4	1768.5	1759.0	1738.5	1718.6	1702.3	1683.9	1653.4	1628.2	1591.4	1577.7
30°	1738.5	1707.0	1683.9	1671.8	1652.3	1625.0	1597.2	1559.9	1527.8	1520.4	1513.6
32.5°	1666.0	1635.0	1616.1	1586.7	1553.5	1521.0	1488.9	1474.2	1467.4	1468.4	1462.1
35°	1591.9	1564.6	1536.2	1492.1	1467.4	1434.8	1423.2	1420.1	1413.7	1406.9	1399.6
37.5°	1513.1	1481.0	1438.4	1412.2	1387.5	1374.3	1368.5	1363.8	1352.8	1340.7	1332.3
40°	1436.9	1379.1	1355.4	1329.7	1322.3	1316.5	1308.1	1296.5	1281.3	1279.2	1275.5
42.5°	1334.9	1293.4	1272.9	1267.6	1258.7	1248.7	1241.4	1228.8	1222.4	1226.6	1229.8
45°	1238.2	1217.2	1210.4	1204.0	1187.2	1173.0	1168.3	1164.1	1169.4	1192.5	1137.3
47.5°	1159.9	1151.5	1143.1	1132.6	1116.8	1106.3	1111.0	1115.2	1120.0	950.2	867.2
50°	1092.1	1080.5	1067.4	1055.8	1046.4	1045.3	1070.0	995.9	834.1	829.9	745.8
52.5°	1018.0	1000.7	992.8	985.9	990.1	1005.9	832.5	772.6	741.0	643.8	600.7
55°	938.1	922.9	922.9	929.2	906.6	734.7	725.8	627.5	568.1	551.3	544.5
57.5°	858.2	856.7	865.6	791.5	666.9	639.6	537.6	516.1	506.6	504.5	493.5
60°	785.2	799.9	669.6	616.0	535.5	483.0	468.3	465.6	455.7	452.0	442.0
62.5°	726.8	602.8	561.3	458.3	431.5	424.6	416.8	413.1	404.2	356.9	104.6
65°	525.0	496.1	402.6	385.2	383.1	373.1	370.0	332.7	78.3	52.6	44.7
67.5°	396.3	351.6	339.5	336.4	326.4	306.4	90.9	52.0	44.7	38.9	34.2
70°	304.3	296.4	287.5	280.1	82.5	51.5	44.7	37.8	32.6	28.9	26.3
72.5°	249.1	243.9	141.9	54.1	44.1	37.3	33.1	28.9	25.2	23.1	21.0
75°	195.0	54.1	44.7	37.3	32.1	27.3	24.2	21.5	19.4	17.9	16.3
77.5°	44.1	35.7	30.5	25.8	23.1	20.5	18.4	15.8	14.2	12.6	10.5
80°	27.3	23.7	20.0	18.4	15.8	13.1	11.6	10.5	8.4	7.9	6.8
82.5°	17.9	14.2	12.6	10.5	8.4	7.9	6.8	5.3	4.7	4.2	3.7
85°	7.9	6.8	5.8	4.7	3.7	3.2	2.6	2.1	2.1	2.1	2.1
87.5°	2.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	1.1
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: P1214041

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1770.1	1779.5	1788.5	1785.8	1776.4	1761.7	1757.5	1751.7	1755.9	1764.8	1768.5
5°	1782.7	1777.4	1796.4	1824.2	1869.4	1873.6	1905.1	1912.5	1937.7	1953.5	1953.0
7.5°	1800.6	1875.2	1906.2	1939.8	1955.1	1951.4	1956.1	1952.4	1946.7	1944.0	1940.9
10°	1891.5	1948.2	1959.8	1959.8	1936.2	1904.1	1890.4	1866.8	1819.5	1820.5	1812.6
12.5°	1944.6	1964.5	1937.2	1914.1	1819.0	1782.2	1742.2	1723.3	1712.3	1695.4	1701.8
15°	1916.7	1888.3	1872.0	1797.4	1739.1	1672.8	1673.9	1662.3	1650.2	1651.3	1643.4
17.5°	1875.7	1853.1	1737.5	1686.0	1657.6	1631.9	1627.1	1611.9	1604.0	1601.4	1600.8
20°	1819.5	1738.0	1651.8	1639.2	1605.0	1575.6	1570.9	1575.6	1599.8	1556.7	1410.6
22.5°	1753.8	1636.6	1611.4	1575.6	1552.5	1540.9	1569.8	1438.4	1239.8	1264.0	1238.2
25°	1642.4	1591.4	1548.3	1521.0	1518.3	1447.4	1206.2	1180.9	1053.2	984.9	908.2
27.5°	1560.9	1538.8	1493.6	1488.9	1454.7	1183.6	1057.9	919.2	868.2	860.3	843.5
30°	1511.5	1480.0	1452.6	1333.3	1161.0	952.8	848.8	829.3	820.4	810.9	796.2
32.5°	1452.1	1422.2	1435.3	1121.0	925.5	820.4	799.4	785.2	768.9	762.6	709.5
35°	1391.7	1378.0	1121.5	942.3	795.7	770.5	754.7	740.0	588.6	142.4	48.4
37.5°	1327.0	1323.9	1008.0	782.0	745.2	721.6	676.9	139.8	33.1	22.6	16.8
40°	1276.6	1008.5	796.7	733.2	703.2	665.9	93.5	23.1	14.7	8.9	5.8
42.5°	1242.9	907.1	713.2	688.0	622.8	68.8	23.7	10.0	5.8	4.7	3.7
45°	958.1	716.3	666.4	640.1	78.8	23.7	13.7	4.7	3.7	3.2	2.1
47.5°	884.0	650.6	621.2	139.8	26.3	12.6	9.5	3.2	2.1	2.1	2.1
50°	669.6	601.2	494.5	34.2	16.8	8.9	6.8	2.1	2.1	2.1	1.6
52.5°	587.0	555.0	53.1	22.6	13.1	6.8	4.2	1.6	1.6	1.6	1.6
55°	536.6	352.1	31.5	17.3	11.0	6.3	2.6	1.6	1.6	1.6	1.1
57.5°	490.9	47.3	23.1	14.7	10.0	5.8	1.6	1.6	1.6	1.6	1.1
60°	416.2	34.2	18.9	13.1	9.5	5.3	1.6	1.6	1.6	1.6	1.6
62.5°	54.1	26.8	16.3	11.6	6.8	4.2	1.1	1.6	1.6	1.6	1.6
65°	39.4	21.0	14.7	7.9	4.2	1.6	1.1	1.6	1.6	1.6	1.6
67.5°	30.5	17.3	11.0	6.8	3.7	1.1	1.1	1.6	1.6	1.6	1.6
70°	24.2	14.7	8.9	5.8	3.2	1.1	1.1	1.6	1.6	1.6	1.6
72.5°	18.9	10.5	6.3	3.2	2.1	1.1	1.1	1.6	1.6	1.6	1.6
75°	14.2	8.4	4.7	2.6	1.1	1.1	1.1	1.6	1.6	1.6	1.6
77.5°	9.5	5.3	3.7	2.1	2.1	2.1	2.6	2.6	1.6	1.6	1.6
80°	6.3	3.7	2.6	2.6	2.6	2.1	2.6	2.6	1.6	2.6	1.6
82.5°	3.2	2.6	2.6	2.1	2.1	1.6	2.1	2.1	2.1	2.1	1.6
85°	2.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.1	2.1	1.6
87.5°	1.1	1.1	1.1	1.1	1.6	1.6	1.6	1.6	2.1	2.1	1.6
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: P1214041

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1763.8	1765.3	1761.1	1783.7	1772.2	1773.2	1778.0	1765.9	1768.5	1760.1	1754.3
5°	1955.1	1958.2	1961.4	1962.4	1964.5	1967.2	1964.0	1962.4	1959.3	1948.8	1937.7
7.5°	1925.1	1921.4	1919.9	1922.0	1925.6	1927.2	1924.6	1928.3	1941.9	1947.7	1951.4
10°	1767.4	1750.6	1762.2	1760.6	1747.5	1791.6	1779.5	1786.4	1791.1	1839.4	1868.9
12.5°	1692.3	1702.8	1682.8	1672.8	1686.0	1694.9	1703.9	1684.9	1711.2	1699.1	1738.0
15°	1629.2	1622.9	1620.8	1621.3	1618.7	1631.3	1634.5	1638.7	1642.4	1658.7	1665.0
17.5°	1600.8	1611.4	1615.6	1618.7	1613.5	1607.7	1601.9	1593.5	1596.1	1591.9	1604.0
20°	1312.3	1277.1	1275.0	1295.5	1272.9	1285.5	1316.0	1519.9	1513.1	1592.4	1565.6
22.5°	1095.3	1062.1	1033.8	1009.1	1044.3	1059.0	1115.8	1179.9	1283.9	1267.6	1380.6
25°	894.5	882.4	875.1	871.4	874.0	872.9	885.6	915.5	962.8	1074.2	1218.2
27.5°	836.7	830.9	828.3	819.9	826.2	824.1	834.1	840.4	854.6	865.6	912.4
30°	791.0	784.1	779.4	770.5	776.8	777.3	780.5	796.7	802.5	812.0	826.7
32.5°	289.1	170.3	159.8	151.9	166.1	216.5	380.0	664.3	757.9	765.2	782.0
35°	28.4	23.7	21.0	21.0	21.5	23.7	31.5	83.0	151.9	587.0	734.7
37.5°	11.0	9.5	7.9	7.4	7.9	8.9	12.1	15.8	21.5	44.7	199.2
40°	4.7	4.2	3.7	3.7	3.7	3.7	4.2	5.3	7.9	14.7	23.1
42.5°	3.2	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.7	4.7	9.5
45°	2.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.1	2.6	4.2
47.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.1
50°	1.6	1.6	1.6	1.6	1.1	1.6	1.1	1.6	1.6	1.6	1.6
52.5°	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6
55°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6
57.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
60°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	1.1
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.1
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70°	1.6	1.6	1.1	1.6	1.1	1.1	1.6	1.6	1.6	1.1	1.1
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	2.1
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.6	3.2	2.6
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.6	2.6	2.6
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.1	2.1	2.1
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.1	2.1	2.1
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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: P1214041

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1744.3	1743.8	1754.8	1763.2	1760.1	1763.2	1766.9	1767.4	1768.5	1764.3	1762.7
5°	1916.7	1900.4	1868.9	1846.3	1820.0	1772.2	1748.5	1751.2	1751.7	1750.1	1752.2
7.5°	1949.8	1948.2	1937.2	1932.5	1914.6	1880.4	1825.8	1816.3	1793.2	1778.5	1766.4
10°	1866.8	1904.6	1914.6	1931.4	1941.9	1935.6	1889.4	1882.5	1867.8	1851.0	1854.7
12.5°	1776.9	1807.9	1809.5	1900.9	1921.4	1923.5	1905.7	1915.1	1917.2	1879.4	1857.3
15°	1666.5	1681.3	1712.3	1797.4	1859.4	1898.3	1909.9	1915.1	1889.4	1887.8	1878.9
17.5°	1618.2	1627.6	1641.8	1689.7	1783.7	1841.0	1889.9	1886.2	1896.2	1888.9	1866.3
20°	1557.2	1565.1	1590.3	1614.5	1660.8	1737.0	1828.4	1835.2	1848.4	1846.8	1853.1
22.5°	1556.2	1528.3	1532.5	1551.4	1599.8	1668.1	1765.3	1787.9	1796.4	1802.1	1809.0
25°	1234.5	1455.8	1496.3	1508.3	1539.9	1579.8	1694.4	1702.8	1718.6	1744.3	1763.2
27.5°	1069.5	1219.8	1381.7	1465.8	1485.7	1518.9	1587.2	1599.8	1653.4	1659.7	1689.1
30°	844.0	960.2	1201.9	1404.3	1437.4	1460.5	1508.9	1534.1	1557.2	1582.5	1613.5
32.5°	794.1	812.5	946.5	1162.0	1419.5	1402.2	1437.9	1453.2	1478.4	1500.5	1523.1
35°	748.4	761.0	789.4	951.8	1156.2	1354.4	1378.5	1388.5	1402.7	1419.5	1435.8
37.5°	700.6	719.5	738.9	782.6	1069.5	1316.5	1316.0	1327.6	1336.0	1350.2	1363.8
40°	127.2	660.6	692.2	720.5	829.3	1050.1	1257.1	1262.4	1268.2	1277.1	1291.3
42.5°	20.5	110.4	648.5	675.9	706.9	940.2	1230.3	1208.8	1205.1	1211.4	1224.0
45°	10.5	26.8	130.3	631.2	659.0	750.0	1005.9	1171.5	1167.8	1155.7	1158.3
47.5°	7.9	16.8	32.1	218.1	617.0	643.8	928.1	918.1	988.0	1122.1	1101.6
50°	6.8	11.6	18.9	44.7	545.0	592.8	714.8	835.1	871.9	876.6	1037.4
52.5°	6.3	7.9	13.7	28.9	114.6	548.2	581.3	623.3	685.3	818.3	815.1
55°	5.8	7.4	11.6	19.4	39.9	494.0	528.2	536.1	549.2	612.8	696.9
57.5°	3.2	6.8	11.0	16.8	30.0	90.4	479.3	485.6	496.1	498.8	528.7
60°	1.6	6.3	10.0	14.7	22.1	42.0	431.0	438.3	444.6	445.7	455.1
62.5°	1.1	5.8	8.4	13.7	18.4	30.0	102.0	208.1	395.7	395.7	406.8
65°	1.1	4.2	5.3	8.9	16.8	24.7	43.1	49.9	97.2	239.1	356.9
67.5°	1.1	1.6	4.7	7.4	12.6	18.9	31.5	36.8	44.1	50.5	93.5
70°	1.1	1.1	4.2	4.7	7.9	14.2	22.6	25.8	30.0	34.2	39.4
72.5°	1.1	1.1	3.7	3.7	5.3	9.5	17.3	18.9	21.5	24.2	27.9
75°	2.6	2.1	3.2	3.2	3.7	7.4	13.1	14.7	15.8	17.9	20.5
77.5°	2.6	2.6	2.6	2.6	2.6	4.7	8.4	9.5	11.0	12.1	14.2
80°	2.1	2.1	2.1	2.6	2.6	3.2	5.3	5.8	6.3	7.9	8.4
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.7	4.7
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.1	2.1	2.1	2.1
87.5°	1.6	1.6	1.6	1.1	1.1	1.6	1.6	1.6	1.6	1.6	1.6
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: P1214041

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1762.2	1759.0	1756.4	1758.0	1753.3	1751.2	1752.7	1753.3	1754.3	1756.9	1757.5
5°	1757.5	1756.4	1761.1	1763.8	1762.7	1763.8	1763.8	1761.7	1758.5	1760.6	1755.9
7.5°	1754.3	1747.5	1742.2	1743.3	1738.0	1744.3	1750.1	1758.5	1761.1	1761.1	1755.9
10°	1808.4	1801.1	1771.7	1751.7	1738.5	1727.0	1754.3	1726.5	1739.6	1689.7	1746.9
12.5°	1853.1	1863.1	1850.0	1795.3	1785.8	1751.2	1771.1	1737.0	1727.0	1669.7	1688.1
15°	1871.0	1852.1	1847.9	1832.6	1812.1	1802.1	1748.5	1742.7	1726.5	1732.8	1708.6
17.5°	1855.2	1864.7	1852.1	1842.1	1821.1	1797.4	1765.3	1737.0	1714.4	1663.9	1706.5
20°	1840.0	1852.6	1814.7	1821.1	1823.2	1795.8	1779.0	1755.4	1727.0	1679.7	1642.9
22.5°	1814.7	1805.8	1809.0	1799.5	1791.6	1795.3	1772.2	1755.9	1708.1	1686.5	1636.6
25°	1773.8	1770.6	1779.0	1778.0	1759.0	1752.7	1741.2	1723.8	1704.9	1670.2	1629.2
27.5°	1707.0	1723.3	1738.0	1744.8	1734.9	1718.0	1711.7	1701.8	1688.6	1653.4	1622.9
30°	1636.6	1655.0	1671.8	1686.5	1695.4	1688.1	1682.3	1676.5	1656.6	1633.4	1599.3
32.5°	1556.2	1580.3	1603.5	1621.3	1640.8	1646.6	1642.4	1637.6	1620.8	1599.8	1572.5
35°	1463.1	1496.3	1529.9	1562.0	1570.4	1584.0	1597.7	1589.8	1580.9	1559.9	1534.6
37.5°	1384.3	1408.0	1432.1	1472.6	1502.0	1519.4	1543.6	1546.7	1531.5	1521.5	1488.4
40°	1302.9	1324.4	1359.6	1383.3	1423.7	1443.7	1469.5	1481.0	1477.3	1471.6	1442.7
42.5°	1238.7	1249.2	1272.4	1293.4	1333.3	1374.3	1396.9	1409.5	1422.7	1418.0	1403.2
45°	1170.4	1179.9	1187.8	1206.2	1245.0	1281.3	1309.2	1328.1	1351.7	1362.8	1344.9
47.5°	1102.6	1105.2	1114.7	1129.9	1153.1	1180.9	1227.7	1256.1	1278.2	1299.7	1288.1
50°	1050.6	1041.1	1042.7	1052.2	1071.1	1098.4	1132.0	1172.0	1197.2	1223.5	1226.1
52.5°	918.1	994.9	976.5	981.7	991.7	1004.9	1040.1	1079.5	1110.5	1133.1	1155.7
55°	770.5	785.7	933.4	912.4	918.7	930.2	946.5	985.9	1015.9	1047.4	1079.0
57.5°	597.6	711.1	716.9	853.5	850.4	851.4	865.1	887.7	917.6	957.0	983.8
60°	464.6	512.4	605.4	652.7	772.6	776.8	784.7	797.8	823.5	860.9	903.4
62.5°	409.9	416.2	449.4	520.3	598.1	692.2	709.0	711.1	722.6	760.0	809.4
65°	360.0	364.2	374.2	381.6	446.7	537.6	618.6	631.7	639.1	661.2	703.2
67.5°	248.1	313.8	322.7	327.9	334.3	376.3	476.7	543.4	551.8	571.3	608.1
70°	47.8	99.3	271.7	277.5	280.6	290.1	306.4	412.6	468.3	486.7	503.5
72.5°	32.6	38.4	46.2	109.3	231.2	236.5	240.2	253.8	347.9	401.5	410.5
75°	23.7	26.3	31.0	38.4	47.3	154.0	190.8	197.6	204.4	282.2	327.4
77.5°	16.8	18.9	21.0	24.7	28.9	37.3	53.6	147.7	154.5	158.2	223.4
80°	9.5	11.6	14.2	16.3	18.4	21.0	27.3	34.2	76.2	111.4	117.2
82.5°	5.3	6.3	7.4	8.9	10.0	12.6	15.2	18.4	24.2	35.7	75.7
85°	2.6	2.6	2.6	3.7	4.2	5.8	6.8	7.9	11.0	15.2	21.0
87.5°	1.6	1.6	2.1	2.1	2.1	2.6	2.6	2.6	3.2	4.7	6.8
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: P1214041

CATALOG NUMBER: 2SNLED-LD5-27SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1758.0	1756.4	1756.4	1762.7	1761.1
5°	1754.8	1753.3	1752.7	1759.6	1756.4
7.5°	1752.2	1746.4	1744.8	1751.2	1748.5
10°	1741.7	1737.5	1740.1	1738.0	1737.0
12.5°	1723.8	1721.2	1710.2	1711.2	1720.1
15°	1691.8	1702.3	1683.4	1700.2	1703.9
17.5°	1632.9	1656.6	1674.9	1684.9	1686.5
20°	1659.2	1667.1	1657.6	1658.1	1664.4
22.5°	1625.0	1628.7	1631.3	1628.2	1641.8
25°	1570.4	1556.2	1586.7	1593.0	1615.0
27.5°	1553.5	1542.0	1556.2	1555.1	1573.5
30°	1539.9	1502.6	1508.9	1518.9	1541.5
32.5°	1520.4	1461.6	1455.3	1477.3	1502.6
35°	1486.3	1430.6	1415.8	1430.0	1467.9
37.5°	1457.4	1387.5	1358.0	1377.0	1426.4
40°	1414.3	1353.8	1308.1	1324.9	1383.3
42.5°	1362.8	1324.9	1254.5	1266.1	1332.8
45°	1310.7	1277.1	1202.5	1208.3	1287.6
47.5°	1257.7	1226.6	1148.3	1149.4	1229.8
50°	1205.6	1164.6	1100.0	1081.6	1168.3
52.5°	1137.8	1100.0	1051.1	1021.2	1110.0
55°	1073.7	1031.1	995.4	949.2	1043.8
57.5°	1011.2	963.9	939.7	880.3	968.6
60°	925.5	902.9	867.2	810.4	900.8
62.5°	837.7	830.4	794.1	735.3	817.2
65°	735.3	752.6	715.3	664.8	730.5
67.5°	638.6	669.6	628.6	597.6	647.0
70°	535.5	571.3	548.2	537.1	558.1
72.5°	434.1	468.8	470.9	463.0	469.8
75°	335.3	373.7	394.7	382.6	384.2
77.5°	254.4	272.8	295.9	305.3	303.2
80°	157.1	189.2	208.1	227.6	220.7
82.5°	79.4	106.2	129.3	150.3	140.3
85°	33.1	42.6	59.4	78.3	75.2
87.5°	10.0	16.8	17.9	25.2	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)