

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: P1213345

Luminaire Tested: 2SNLED-LD5-32HL-RM-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213345
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-LD5-32HL-RM-UNV-L935-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

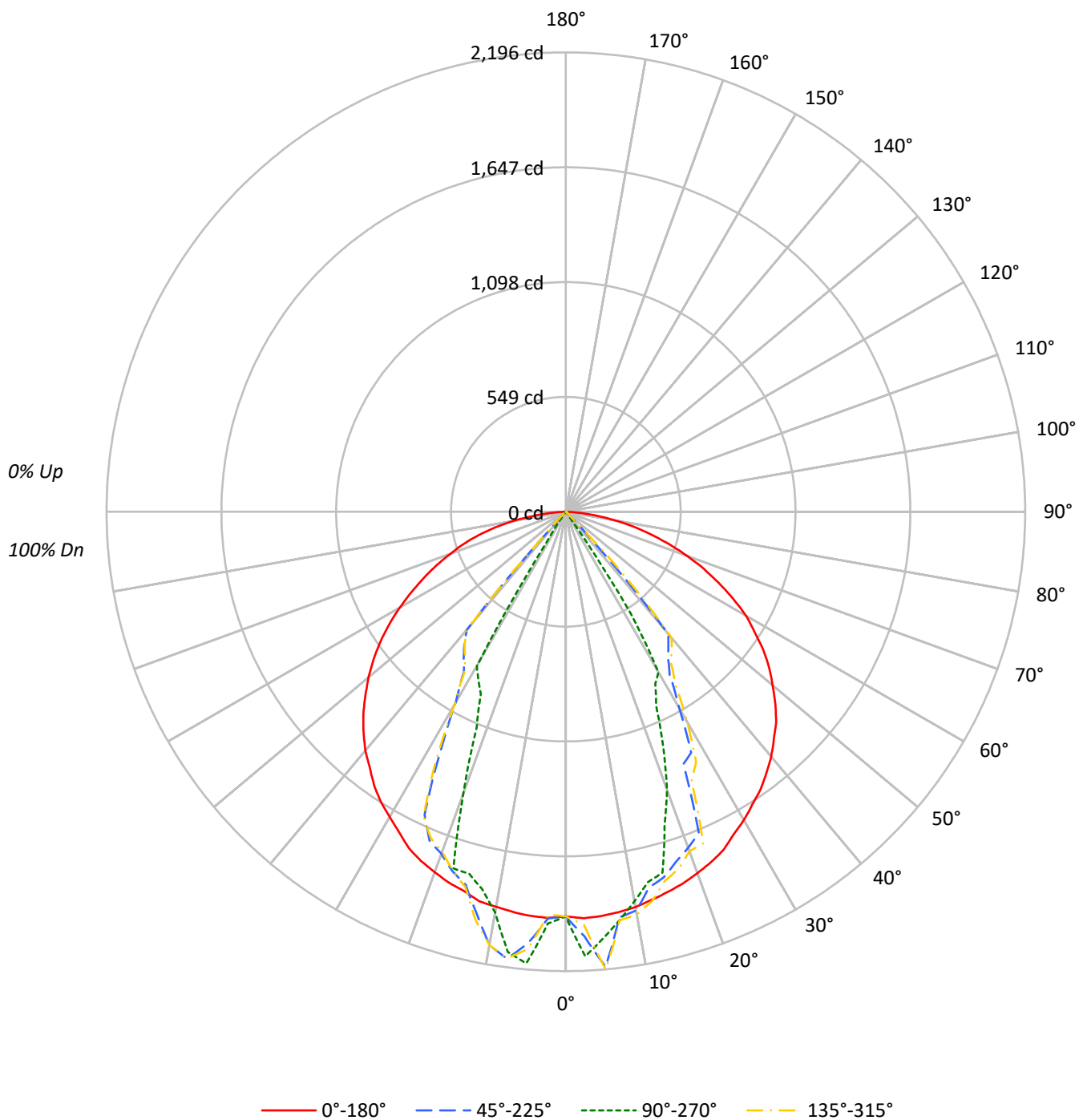
Lumens per Lamp: N/A
Luminaire Lumens: 2750.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 27
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 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					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	100		
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65		
5	85	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59		
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42		
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	31257	31257	31257	31257
5°	31300	32148	31290	34044
10°	31139	29090	31121	29931
15°	30968	27153	30891	27223
20°	30913	21387	30825	21651
25°	30908	15477	30757	14606
30°	30664	13577	30340	13051
35°	30645	300	30196	362
40°	30625	66	29892	66
45°	30592	38	29444	28
50°	30194	30	28809	30
55°	29819	22	27987	22
60°	29018	24	26749	24
65°	27207	36	25268	25
70°	24859	40	23665	40
75°	21484	44	21839	44
80°	16753	51	17708	51
85°	8978	60	9162	60

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 33045 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.0	7.1
10°-20°	529.3	19.2
20°-30°	673.5	24.5
30°-40°	568.9	20.7
40°-50°	371.9	13.5
50°-60°	234.3	8.5
60°-70°	124.7	4.5
70°-80°	45.5	1.7
80°-90°	7.8	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°	1396.8	50.8
0°-40°	1965.7	71.5
0°-60°	2571.9	93.5
0°-90°	2750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2750.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1934	1934	1934	1934	1934	
5°	1940	2047	1939	2167	1940	184
15°	1882	1786	1877	1791	1882	532
25°	1784	1020	1775	962	1784	820
35°	1621	19	1597	23	1621	1014
45°	1422	2	1369	2	1422	1094
55°	1153	1	1082	1	1153	1027
65°	807	2	749	1	807	799
75°	424	2	431	2	424	450
85°	83	2	85	2	83	105
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°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1945.0	1946.2	1946.8	1947.9	1949.7	1950.3	1951.4	1950.3	1950.3	1950.3	1950.3
5°	1939.8	1942.1	1943.9	1946.2	1950.3	1950.8	1955.5	1956.1	1958.4	1963.0	1966.5
7.5°	1931.1	1933.4	1936.9	1942.7	1948.5	1954.9	1963.0	1971.7	1983.9	1995.5	2010.0
10°	1918.3	1921.2	1925.3	1930.5	1959.0	1963.0	1981.0	2006.0	2012.9	2049.5	2076.8
12.5°	1899.8	1909.6	1920.1	1924.7	1952.0	1995.0	2055.3	2043.1	2029.8	2149.3	2147.6
15°	1881.8	1895.1	1889.9	1927.6	1952.6	2027.5	2001.9	2056.5	2156.3	2131.9	2133.1
17.5°	1862.6	1865.5	1894.5	1925.9	1970.6	2008.9	2040.2	2115.1	2134.8	2136.6	2115.1
20°	1838.2	1852.2	1894.5	1923.0	1998.4	2016.4	2084.3	2122.6	2114.5	2094.8	2058.2
22.5°	1813.3	1855.6	1898.6	1938.6	1991.5	2039.6	2073.3	2091.3	2048.9	1971.2	1929.4
25°	1783.7	1808.6	1864.9	1923.6	1989.7	2017.6	2037.3	2008.3	1953.2	1883.5	1813.3
27.5°	1737.8	1777.9	1849.8	1916.0	1975.8	2009.5	1977.5	1907.9	1819.1	1773.2	1741.3
30°	1702.4	1754.7	1813.9	1877.7	1939.8	1959.5	1878.3	1798.8	1737.8	1692.0	1685.0
32.5°	1659.5	1733.8	1790.1	1851.0	1903.2	1877.1	1798.2	1695.4	1644.9	1627.5	1634.5
35°	1621.2	1677.5	1751.2	1811.0	1848.7	1790.1	1665.3	1601.4	1577.0	1586.9	1574.1
37.5°	1575.3	1649.6	1717.5	1769.2	1756.4	1668.2	1562.5	1521.9	1524.8	1516.7	1492.3
40°	1527.7	1598.5	1669.3	1718.1	1673.4	1538.7	1468.5	1459.8	1461.5	1435.4	1400.6
42.5°	1472.0	1536.4	1607.2	1651.3	1555.0	1449.9	1402.3	1403.5	1388.4	1351.8	1333.3
45°	1422.1	1481.3	1555.0	1559.0	1440.6	1353.0	1339.1	1324.0	1290.3	1278.1	1264.2
47.5°	1358.2	1423.8	1484.7	1462.7	1328.6	1274.1	1263.6	1230.5	1213.7	1204.4	1192.8
50°	1290.3	1356.5	1412.2	1349.5	1223.0	1210.2	1176.0	1149.8	1138.2	1128.4	1117.9
52.5°	1225.9	1280.4	1337.3	1229.4	1141.7	1129.5	1090.6	1075.5	1063.9	1052.9	1050.6
55°	1152.7	1200.9	1239.8	1115.0	1063.9	1035.5	1007.6	997.2	986.2	980.9	989.6
57.5°	1069.7	1124.3	1118.5	1002.4	979.8	938.6	928.1	921.1	913.0	916.5	844.0
60°	994.9	1036.7	1008.2	920.0	881.7	853.8	844.5	839.9	844.5	773.7	680.3
62.5°	902.6	949.6	892.1	823.6	783.0	769.7	761.5	767.9	700.0	622.2	599.6
65°	806.8	857.9	773.1	720.3	694.8	683.2	682.6	628.6	561.9	531.7	531.7
67.5°	714.5	767.3	658.2	614.1	604.2	605.4	571.7	489.9	471.3	451.0	392.4
70°	616.4	662.9	543.9	517.2	511.4	507.3	425.5	403.4	381.3	327.4	322.7
72.5°	518.9	541.5	437.1	430.7	429.5	357.0	340.7	303.0	277.4	271.1	268.2
75°	424.3	417.3	345.4	351.2	296.0	270.5	244.4	222.3	218.8	216.5	54.0
77.5°	334.9	300.1	272.2	236.8	211.9	179.9	174.7	171.2	112.6	40.6	33.1
80°	243.8	194.4	181.1	153.8	131.2	126.0	128.9	39.5	31.3	26.1	22.6
82.5°	155.0	124.2	101.6	88.8	86.5	37.7	27.9	22.6	19.7	16.8	13.9
85°	83.0	55.1	51.1	43.0	25.5	17.4	14.5	11.0	9.3	7.5	7.0
87.5°	26.1	22.1	18.0	14.5	8.7	5.8	4.6	4.1	3.5	2.9	2.9
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°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1949.1	1950.3	1949.7	1951.4	1951.4	1953.7	1955.5	1957.2	1960.7	1962.4	1975.8
5°	1974.1	1977.0	1985.7	1993.8	2003.7	2006.6	2023.4	2027.5	2047.2	2049.5	2114.5
7.5°	2029.8	2040.8	2061.7	2082.6	2103.5	2116.8	2140.1	2154.6	2170.2	2184.2	2235.8
10°	2097.1	2115.7	2136.0	2156.9	2169.1	2194.6	2208.6	2210.9	2206.8	2184.2	2100.6
12.5°	2163.3	2181.9	2173.1	2177.2	2191.7	2146.4	2152.8	2120.3	2143.0	2030.9	1947.9
15°	2154.0	2152.8	2131.4	2061.7	2073.3	1986.8	1952.0	1925.3	1946.8	1935.2	1922.4
17.5°	2126.1	2073.3	2036.2	1952.6	1917.2	1892.8	1893.4	1894.0	1883.5	1894.5	1862.0
20°	2008.3	1949.1	1894.0	1864.4	1853.9	1836.5	1845.2	1836.5	1837.1	1840.6	1790.6
22.5°	1851.6	1833.6	1801.7	1811.0	1807.5	1823.1	1811.5	1793.5	1799.3	1773.2	1735.5
25°	1788.3	1767.4	1766.3	1769.7	1764.5	1757.6	1747.1	1719.8	1718.1	1710.0	1692.5
27.5°	1724.5	1725.6	1729.1	1718.7	1700.1	1686.2	1670.5	1657.1	1662.4	1653.1	1629.3
30°	1680.4	1679.8	1658.9	1649.6	1615.3	1615.9	1611.9	1603.7	1598.5	1599.1	1584.0
32.5°	1617.7	1599.7	1575.9	1564.3	1561.4	1550.9	1542.8	1544.5	1548.6	1534.1	1549.8
35°	1553.2	1516.1	1512.6	1502.7	1493.5	1486.5	1489.4	1477.8	1477.2	1475.5	1347.8
37.5°	1466.8	1448.8	1447.0	1436.6	1430.2	1428.4	1417.4	1419.2	1424.4	1433.7	1149.3
40°	1395.4	1379.1	1375.0	1374.5	1360.5	1359.4	1362.3	1373.3	1380.9	1322.8	1095.3
42.5°	1318.7	1319.9	1307.1	1299.0	1300.8	1306.0	1319.9	1281.6	1110.4	1058.1	1001.2
45°	1253.2	1247.4	1240.4	1238.1	1253.2	1242.7	1089.5	1005.3	985.0	982.7	823.1
47.5°	1184.7	1182.9	1180.0	1181.8	1095.9	976.9	942.0	931.0	934.5	932.2	707.0
50°	1115.6	1117.9	1117.9	976.3	896.2	876.5	879.4	889.2	827.7	772.6	658.8
52.5°	1055.8	1037.8	889.2	838.1	820.2	828.9	808.0	730.8	675.0	642.5	609.5
55°	944.9	812.6	779.5	771.4	777.8	700.6	653.0	603.1	588.6	585.1	565.9
57.5°	743.5	716.8	719.7	687.2	613.5	570.0	550.8	543.9	537.5	532.8	46.4
60°	657.6	665.2	608.9	539.2	509.6	503.8	499.2	492.8	491.6	483.5	29.6
62.5°	601.9	529.4	480.6	463.2	456.2	454.5	445.8	442.9	376.1	51.7	22.1
65°	453.9	424.3	415.0	410.9	403.4	403.4	334.9	52.8	43.0	37.1	19.7
67.5°	370.3	368.0	363.4	358.1	243.8	51.1	44.7	38.9	33.7	29.6	17.4
70°	313.4	312.3	284.4	52.2	43.5	38.3	33.7	30.2	27.9	25.0	15.7
72.5°	257.1	52.2	44.1	38.3	33.1	30.2	27.3	24.4	22.1	20.3	12.8
75°	40.0	35.4	31.3	28.4	26.1	23.2	20.9	19.2	18.6	16.3	8.7
77.5°	29.0	25.0	22.6	20.3	18.0	16.3	13.9	12.2	11.0	9.3	6.4
80°	20.3	18.0	16.3	13.3	11.6	9.9	8.7	7.5	7.0	5.8	2.9
82.5°	11.6	9.9	8.7	7.0	6.4	5.2	4.6	4.1	4.1	2.9	2.9
85°	5.2	5.2	4.1	3.5	2.9	2.9	2.9	2.3	2.3	1.7	1.7
87.5°	2.3	2.3	2.3	2.3	2.3	1.7	1.7	1.7	1.7	1.7	1.2
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°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1994.4	2001.9	2016.4	2031.5	2014.7	2075.1	2070.4	2090.7	2101.8	2107.0	2119.2
5°	2172.0	2205.6	2216.7	2183.6	2164.4	2144.7	2100.0	2066.3	2070.4	2059.4	2019.3
7.5°	2168.5	2096.5	1999.6	1955.5	1952.0	1946.8	1960.7	1968.8	1970.0	1969.4	1968.3
10°	1985.1	1947.9	1941.6	1935.7	1938.1	1916.6	1906.7	1878.9	1894.0	1885.8	1888.7
12.5°	1929.4	1920.7	1886.4	1838.8	1867.3	1845.8	1833.6	1841.7	1832.4	1823.7	1820.8
15°	1896.3	1840.0	1820.8	1809.2	1801.1	1796.4	1800.5	1791.2	1788.3	1786.6	1790.6
17.5°	1827.8	1805.1	1784.3	1753.5	1754.1	1752.3	1763.9	1781.4	1782.5	1693.1	1612.4
20°	1773.8	1755.2	1728.5	1709.4	1735.5	1689.1	1509.7	1424.4	1411.0	1411.0	1413.4
22.5°	1730.9	1689.6	1691.4	1661.2	1416.8	1366.9	1368.1	1373.3	1349.5	1268.2	1259.5
25°	1672.2	1665.8	1538.7	1329.8	1331.5	1292.6	1232.8	1148.7	1057.6	1057.6	1042.5
27.5°	1628.1	1492.9	1307.1	1298.4	1167.8	1085.4	1034.3	957.1	946.7	936.8	938.0
30°	1590.4	1263.0	1267.7	1085.4	989.1	920.6	916.5	903.7	897.4	895.6	889.2
32.5°	1257.2	1229.9	1061.0	924.1	886.3	875.3	870.1	855.6	855.0	844.0	767.3
35°	1178.9	1079.6	888.1	850.9	839.9	829.4	820.7	550.8	65.0	26.1	22.6
37.5°	1089.5	902.0	821.3	804.5	794.0	586.8	58.6	20.3	14.5	10.4	9.3
40°	923.5	805.6	780.1	761.5	314.0	20.3	12.8	9.9	5.8	5.2	4.6
42.5°	778.9	759.2	731.9	222.9	23.2	9.9	6.4	4.6	4.1	4.1	3.5
45°	729.0	711.6	294.9	22.1	14.5	4.6	4.1	4.1	3.5	2.3	2.3
47.5°	682.6	600.7	26.7	13.9	9.3	4.1	3.5	2.3	2.3	2.3	1.7
50°	633.3	33.1	18.6	10.4	5.8	2.3	2.3	2.3	2.3	1.7	1.7
52.5°	118.4	23.2	15.1	9.3	2.9	2.3	2.3	2.3	1.7	1.7	1.7
55°	27.9	18.6	13.9	8.1	2.3	2.3	2.3	1.7	1.7	1.7	1.2
57.5°	20.9	13.9	11.0	7.5	2.3	1.7	1.7	1.7	1.7	1.7	1.2
60°	17.4	9.9	8.7	7.0	1.7	1.7	1.7	1.7	1.7	1.7	1.2
62.5°	12.2	8.1	6.4	5.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7
65°	9.9	6.4	5.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
67.5°	8.7	5.2	3.5	1.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7
70°	7.0	1.7	1.7	1.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7
72.5°	5.8	1.7	1.2	1.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7
75°	5.8	2.9	1.2	1.2	1.7	1.7	2.3	2.3	1.7	1.7	1.7
77.5°	4.1	2.9	1.2	1.2	1.7	1.7	2.3	2.3	1.7	1.7	1.7
80°	2.3	2.9	1.2	1.7	1.7	3.5	4.1	2.3	1.7	1.7	1.7
82.5°	2.3	2.9	3.5	3.5	1.7	2.9	3.5	2.9	2.3	1.7	1.7
85°	2.3	1.7	2.3	2.9	1.7	2.9	2.9	2.3	2.3	1.7	1.7
87.5°	1.2	1.7	1.7	2.3	2.3	2.3	2.9	2.3	2.3	2.3	1.7
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: P1213345

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	2125.0	2127.3	2090.7	2078.0	2089.0	2086.7	2076.8	2040.2	2036.2	2011.8	1976.4
5°	2030.9	2046.6	2027.5	2060.5	2044.9	2060.5	2108.1	2130.2	2166.2	2188.2	2196.4
7.5°	1965.3	1968.8	1968.8	1971.7	1974.6	1975.2	1971.7	1969.4	1959.5	1947.4	1969.4
10°	1885.8	1889.9	1896.9	1895.7	1895.1	1907.3	1910.2	1935.2	1934.0	1938.6	1955.5
12.5°	1844.6	1813.3	1841.7	1834.2	1844.6	1828.4	1858.5	1853.3	1855.1	1869.0	1905.0
15°	1776.1	1786.0	1793.0	1793.0	1797.0	1793.5	1790.1	1813.9	1828.4	1828.9	1826.6
17.5°	1644.4	1569.5	1646.1	1626.4	1783.7	1787.7	1774.4	1763.4	1763.4	1772.1	1790.6
20°	1411.6	1413.4	1413.9	1421.5	1430.8	1430.2	1430.8	1659.5	1768.0	1743.0	1726.2
22.5°	1237.5	1216.0	1256.1	1253.2	1303.1	1358.2	1411.0	1405.8	1409.3	1570.7	1715.8
25°	992.0	1019.8	997.2	1007.1	1063.4	1128.9	1169.6	1275.8	1391.3	1383.2	1420.9
27.5°	933.9	926.4	936.8	936.8	944.4	953.1	975.7	1035.5	1138.2	1246.2	1348.3
30°	878.8	885.2	886.3	896.8	902.6	908.4	911.9	934.5	957.7	1032.6	1158.5
32.5°	660.0	578.7	761.5	810.9	852.7	862.5	869.5	878.8	895.6	906.6	969.9
35°	19.2	19.2	20.3	23.2	29.6	199.7	760.4	838.1	849.2	863.1	874.7
37.5°	9.3	7.0	8.1	8.7	10.4	14.5	20.9	65.0	723.8	818.4	831.2
40°	4.1	4.1	4.1	4.1	4.6	5.8	8.7	14.5	22.1	582.2	785.3
42.5°	3.5	3.5	3.5	3.5	3.5	3.5	4.1	5.2	10.4	25.0	412.1
45°	2.3	2.3	1.7	2.3	2.3	2.9	3.5	3.5	4.6	15.7	28.4
47.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.9	3.5	10.4	15.1
50°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	8.1	10.4
52.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	9.3
55°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7	2.3	8.1
57.5°	1.2	1.2	1.2	1.2	1.2	1.7	1.2	1.2	1.7	1.7	7.5
60°	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7	1.7	7.0
62.5°	1.7	1.7	1.2	1.7	1.2	1.2	1.7	1.7	1.7	1.7	4.6
65°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.2	1.7
67.5°	1.7	1.7	1.7	1.7	1.2	1.7	1.2	1.7	1.7	1.2	1.2
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.2	1.2	1.2	1.2
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.2	1.2	1.2	1.2
75°	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3	1.2	1.2	1.2
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	2.9	3.5	2.9	2.9	1.2
80°	1.7	1.7	1.7	1.7	1.7	1.7	2.9	2.9	2.9	2.9	4.1
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3	2.3	2.3	2.9
85°	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3	2.3	1.7	2.3
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	1.7	1.7	1.7
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: P1213345

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1979.3	1959.5	1953.2	1939.8	1938.6	1939.8	1936.9	1932.8	1935.2	1931.1	1927.6
5°	2201.0	2148.2	2113.9	2068.1	2004.8	1990.9	1987.4	1967.7	1960.7	1958.4	1949.1
7.5°	2021.7	2118.0	2176.0	2195.8	2121.5	2104.1	2083.8	2067.5	2051.8	2022.2	2004.2
10°	1942.1	1946.8	2002.5	2067.5	2173.1	2187.7	2198.7	2163.3	2153.4	2078.0	2061.7
12.5°	1923.6	1924.1	1930.5	1970.0	2053.0	2062.3	2101.2	2122.1	2147.6	2162.1	2150.5
15°	1838.8	1885.8	1920.7	1924.1	1931.7	1947.9	1959.5	2032.1	2062.9	2145.3	2140.6
17.5°	1799.3	1814.4	1864.9	1906.1	1899.2	1893.4	1902.7	1912.5	1942.1	2024.6	2023.4
20°	1733.8	1781.9	1809.2	1852.2	1891.1	1892.8	1882.3	1876.5	1864.9	1878.3	1890.5
22.5°	1705.9	1713.4	1764.5	1794.7	1838.8	1854.5	1856.8	1857.4	1851.0	1844.0	1840.6
25°	1703.0	1679.2	1705.3	1743.0	1775.5	1792.4	1811.5	1817.9	1815.6	1815.6	1812.1
27.5°	1393.6	1671.6	1657.7	1682.7	1722.1	1733.8	1743.6	1763.4	1775.5	1784.3	1788.3
30°	1327.5	1377.4	1620.6	1624.1	1664.1	1662.9	1674.0	1690.2	1705.9	1726.2	1731.4
32.5°	1174.2	1296.7	1483.6	1565.4	1607.2	1611.3	1617.1	1621.7	1636.2	1658.9	1678.6
35°	940.9	1181.2	1271.2	1537.6	1545.1	1553.2	1556.7	1567.8	1572.4	1581.7	1599.1
37.5°	851.5	976.3	1219.5	1329.8	1473.7	1480.7	1499.3	1503.9	1511.4	1519.0	1532.3
40°	799.8	834.1	1015.2	1187.6	1416.3	1420.9	1427.3	1438.9	1439.5	1448.2	1460.4
42.5°	758.6	780.7	833.5	1134.2	1375.6	1375.0	1360.0	1367.5	1371.0	1380.3	1397.1
45°	606.0	732.5	766.2	926.4	1095.3	1174.2	1325.7	1300.8	1300.2	1303.7	1321.6
47.5°	30.8	689.0	712.8	764.4	1034.3	1037.2	1057.0	1223.0	1248.5	1240.4	1242.1
50°	20.9	47.6	664.0	687.8	891.5	963.5	978.0	985.6	1081.3	1188.1	1170.7
52.5°	16.3	27.3	406.9	638.5	724.4	777.2	870.7	924.1	929.9	972.8	1118.5
55°	14.5	20.9	44.1	589.1	615.8	627.4	682.0	775.5	850.9	873.6	875.3
57.5°	12.8	19.2	30.2	266.4	560.1	562.4	571.7	604.2	672.1	734.2	804.5
60°	11.6	16.8	23.8	45.9	509.0	514.8	516.6	525.3	533.4	575.8	656.5
62.5°	7.0	13.3	20.9	33.1	402.8	462.6	462.0	467.8	475.4	480.0	496.3
65°	5.8	10.4	18.0	27.9	49.3	61.5	373.8	415.6	420.2	426.6	429.5
67.5°	5.2	9.3	13.3	22.1	37.1	42.4	48.8	60.4	329.7	371.5	377.3
70°	4.6	6.4	11.0	18.6	30.2	32.5	36.6	41.8	49.3	60.9	298.3
72.5°	2.9	4.6	7.5	13.3	23.2	26.1	28.4	31.9	35.4	42.4	48.8
75°	1.2	3.5	6.4	9.9	18.0	19.7	21.5	23.8	26.7	31.3	34.8
77.5°	1.2	2.9	5.2	7.0	11.6	13.3	15.7	17.4	19.7	22.1	25.5
80°	4.1	2.3	3.5	5.2	8.1	8.7	9.9	11.0	12.8	14.5	16.8
82.5°	2.9	3.5	4.1	3.5	4.1	5.2	5.8	7.0	7.5	8.7	9.3
85°	2.3	2.3	2.9	2.9	2.9	2.9	2.9	2.9	3.5	4.1	5.2
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3
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: P1213345

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1927.6	1926.5	1923.0	1923.0	1922.4	1924.7	1926.5	1928.2	1927.6	1931.1	1927.6
5°	1942.1	1939.2	1934.0	1929.4	1927.6	1928.8	1927.0	1928.8	1926.5	1929.4	1924.1
7.5°	1982.2	1972.3	1952.0	1943.9	1933.4	1932.8	1927.6	1926.5	1923.0	1923.0	1916.6
10°	2053.0	2005.4	1999.6	1975.2	1966.5	1924.1	1933.4	1917.8	1916.0	1908.5	1905.6
12.5°	2111.0	2073.9	2062.9	2041.4	2017.0	1931.1	1950.3	1916.6	1914.9	1899.8	1884.1
15°	2112.2	2133.7	2103.5	2044.3	2039.1	1979.9	1941.0	1929.4	1914.3	1869.0	1876.5
17.5°	2044.3	2093.6	2108.1	2095.4	2058.2	2018.2	1963.6	1940.4	1895.1	1874.8	1860.9
20°	1934.0	1983.9	2046.0	2050.1	2073.3	2044.9	1973.5	1935.7	1881.2	1845.8	1834.2
22.5°	1846.4	1882.9	1954.3	1987.4	2015.8	2025.7	1980.4	1924.7	1856.8	1822.6	1815.6
25°	1799.9	1808.1	1829.5	1868.4	1931.1	1976.4	1982.8	1923.6	1888.2	1813.3	1773.8
27.5°	1783.1	1776.1	1767.4	1787.2	1834.2	1889.3	1925.9	1935.7	1847.5	1776.1	1736.7
30°	1740.1	1744.2	1730.9	1723.9	1754.7	1811.5	1876.5	1892.8	1824.9	1751.2	1705.9
32.5°	1687.3	1694.3	1696.6	1684.4	1678.0	1717.5	1787.7	1826.6	1823.1	1715.8	1665.3
35°	1621.2	1640.9	1646.1	1646.7	1636.2	1629.9	1670.5	1751.2	1781.9	1699.5	1626.4
37.5°	1551.5	1557.3	1585.7	1593.3	1593.3	1574.1	1604.3	1668.7	1711.7	1662.9	1578.8
40°	1464.4	1483.0	1509.7	1523.1	1536.4	1538.1	1521.3	1566.6	1637.4	1625.2	1534.1
42.5°	1401.2	1413.4	1429.6	1447.6	1474.9	1481.8	1464.4	1472.6	1546.3	1578.2	1476.0
45°	1327.5	1343.7	1348.3	1368.1	1396.5	1416.8	1416.3	1399.4	1458.6	1498.1	1433.7
47.5°	1252.0	1267.7	1275.8	1285.7	1306.6	1332.7	1347.2	1339.6	1351.3	1428.4	1377.4
50°	1174.2	1182.9	1199.2	1210.2	1224.1	1239.2	1274.1	1281.0	1264.8	1326.3	1315.3
52.5°	1100.5	1103.4	1114.4	1125.5	1144.0	1155.1	1182.9	1203.8	1202.7	1220.7	1246.2
55°	1043.0	1030.3	1032.6	1041.3	1053.5	1070.3	1086.0	1118.5	1129.5	1133.0	1173.6
57.5°	814.9	946.1	957.7	957.1	971.6	979.2	993.7	1015.2	1054.6	1045.9	1091.2
60°	740.6	755.1	864.8	877.6	882.8	889.8	907.2	927.0	956.0	974.5	994.3
62.5°	564.8	653.0	686.1	783.0	798.1	802.2	813.8	823.1	853.2	895.6	887.5
65°	437.1	474.8	575.8	615.3	697.7	708.1	724.4	734.2	743.0	791.7	794.0
67.5°	377.9	383.7	410.9	487.0	539.2	619.9	629.8	638.5	651.8	686.7	708.1
70°	322.7	329.7	337.2	343.6	411.5	464.9	539.8	542.7	551.4	574.6	623.4
72.5°	60.9	275.7	280.3	284.4	292.0	327.4	398.8	456.8	460.3	471.3	516.0
75°	41.2	48.2	66.2	227.5	235.1	237.4	249.6	322.1	375.5	377.9	397.6
77.5°	29.6	33.1	40.0	47.6	121.3	182.3	185.2	198.5	253.6	293.7	297.2
80°	20.3	22.6	26.7	30.2	37.1	48.8	134.7	138.7	145.7	200.8	211.3
82.5°	11.6	13.3	15.7	19.2	22.1	27.9	36.0	46.4	94.6	101.0	134.1
85°	5.8	6.4	7.5	9.3	11.0	13.3	18.0	22.1	30.2	54.6	56.3
87.5°	2.9	2.9	2.9	2.9	4.6	5.2	6.4	8.1	10.4	15.7	20.3
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: P1213345

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1928.2	1936.3	1943.3	1945.0	1945.0	1946.2	1947.9	1949.1	1950.3	1951.4	1950.3
5°	1924.7	1933.4	1939.2	1941.0	1941.0	1944.5	1947.4	1950.8	1952.6	1952.6	1951.4
7.5°	1916.0	1922.4	1929.9	1934.6	1935.2	1941.0	1946.2	1945.6	1947.9	1949.1	1952.0
10°	1904.4	1904.4	1917.2	1920.7	1923.6	1929.9	1931.7	1935.2	1943.3	1944.5	1952.0
12.5°	1898.6	1892.8	1907.9	1909.6	1919.5	1911.4	1921.8	1925.3	1917.2	1928.2	1913.7
15°	1872.5	1879.4	1877.1	1882.3	1899.8	1890.5	1918.9	1909.6	1930.5	1905.6	1949.7
17.5°	1851.0	1849.8	1859.1	1863.8	1867.3	1887.0	1894.5	1905.0	1913.1	1906.1	1923.6
20°	1835.3	1826.0	1833.0	1838.2	1850.4	1865.5	1870.2	1854.5	1881.8	1928.2	1939.2
22.5°	1805.7	1799.3	1807.5	1807.5	1826.0	1823.7	1841.1	1831.3	1856.8	1910.8	1967.1
25°	1765.7	1766.3	1775.0	1785.4	1788.9	1815.0	1824.3	1837.1	1869.0	1933.4	1967.7
27.5°	1725.0	1721.6	1726.8	1748.3	1766.3	1785.4	1788.3	1831.8	1875.4	1919.5	1949.7
30°	1684.4	1680.9	1684.4	1700.1	1721.6	1734.3	1766.3	1824.3	1864.9	1895.1	1923.6
32.5°	1640.9	1637.4	1645.5	1657.1	1694.9	1696.6	1759.9	1814.4	1846.4	1868.4	1863.2
35°	1594.5	1589.8	1597.4	1615.3	1650.2	1662.9	1729.1	1769.7	1805.7	1816.2	1791.8
37.5°	1538.7	1530.6	1539.9	1564.8	1601.4	1638.6	1693.7	1740.7	1759.9	1732.0	1703.0
40°	1480.7	1474.9	1491.1	1503.9	1546.9	1598.5	1661.8	1694.9	1682.7	1650.8	1618.8
42.5°	1429.0	1416.8	1431.3	1455.7	1504.5	1563.1	1614.2	1632.8	1603.7	1556.7	1519.6
45°	1365.8	1351.3	1368.7	1401.2	1453.4	1520.2	1560.2	1553.8	1504.5	1463.9	1412.8
47.5°	1299.6	1282.2	1299.6	1338.5	1397.1	1467.9	1496.9	1467.9	1405.8	1354.7	1313.5
50°	1234.6	1214.3	1231.1	1289.7	1347.2	1401.7	1401.2	1344.9	1307.7	1252.0	1216.0
52.5°	1170.2	1141.1	1158.0	1221.8	1279.3	1341.4	1295.5	1243.3	1198.6	1149.8	1138.2
55°	1090.6	1059.3	1081.9	1174.8	1218.9	1255.5	1182.3	1136.5	1092.4	1068.0	1053.5
57.5°	1015.2	980.9	1000.7	1110.4	1142.9	1152.2	1084.8	1019.8	993.7	985.6	964.7
60°	937.4	898.5	917.1	1043.6	1066.3	1028.5	962.4	911.9	906.6	890.4	874.1
62.5°	863.1	820.2	831.8	960.6	971.1	902.6	841.6	828.3	815.5	799.3	790.6
65°	777.8	733.1	749.3	872.4	862.5	774.3	740.1	737.2	720.3	707.0	719.7
67.5°	699.4	646.6	669.2	776.0	731.3	659.4	645.4	638.5	625.1	632.7	498.6
70°	613.5	556.1	586.8	672.1	606.0	558.4	553.2	542.7	543.3	431.8	363.9
72.5°	517.7	467.8	512.5	558.4	479.4	465.5	458.0	456.8	368.6	299.5	282.7
75°	433.6	383.1	431.3	448.7	381.9	372.6	372.1	307.6	242.0	231.0	225.8
77.5°	338.4	299.5	345.4	319.2	293.1	282.7	253.6	190.4	182.3	174.7	65.6
80°	228.1	231.0	257.7	220.0	209.0	178.2	140.5	134.7	116.1	46.4	36.6
82.5°	138.7	174.1	164.3	137.6	134.7	96.9	88.8	45.3	33.7	26.7	23.2
85°	72.0	88.2	84.7	74.9	55.7	49.9	27.9	21.5	17.4	13.3	11.0
87.5°	24.4	32.5	31.3	25.0	19.2	15.1	9.9	8.1	5.8	4.6	4.1
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: P1213345

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1949.1	1949.1	1947.9	1949.1	1949.7	1948.5	1948.5	1949.7	1950.3	1950.8	1953.7
5°	1952.0	1953.2	1954.9	1958.4	1959.0	1965.9	1968.8	1970.6	1972.3	1972.9	1968.8
7.5°	1958.4	1962.4	1965.9	1965.3	1961.3	1950.3	1946.8	1943.9	1949.1	1962.4	1978.1
10°	1964.2	1945.6	1910.8	1958.4	1943.9	1957.2	1996.7	2005.4	2032.1	2069.8	2080.9
12.5°	1924.1	1975.2	1986.2	1932.8	2031.5	1995.0	2038.5	2076.8	2087.8	2126.1	2102.9
15°	1967.1	1992.0	2008.9	2062.3	2056.5	2087.8	2100.0	2092.5	2094.2	2104.1	2130.2
17.5°	1966.5	2016.4	2027.5	2063.4	2087.8	2088.4	2084.9	2081.4	2090.7	2098.3	2082.6
20°	2000.2	2016.4	2037.9	2052.4	2057.1	2062.9	2073.9	2065.2	2047.8	2030.9	2024.0
22.5°	1983.3	2019.9	2038.5	2040.8	2037.9	2019.9	2003.7	1979.3	1971.2	1962.4	1965.3
25°	1986.8	2003.7	2001.3	1992.0	1979.9	1946.2	1938.1	1927.6	1911.9	1874.2	1840.0
27.5°	1961.9	1953.2	1942.7	1920.1	1898.0	1880.0	1859.7	1826.0	1798.2	1757.6	1742.5
30°	1920.1	1885.2	1859.7	1846.4	1824.9	1794.7	1763.9	1722.7	1687.3	1679.2	1671.6
32.5°	1840.0	1805.7	1784.8	1752.3	1715.8	1679.8	1644.4	1628.1	1620.6	1621.7	1614.8
35°	1758.1	1728.0	1696.6	1647.9	1620.6	1584.6	1571.8	1568.3	1561.4	1553.8	1545.7
37.5°	1671.1	1635.7	1588.6	1559.6	1532.3	1517.8	1511.4	1506.2	1494.0	1480.7	1471.4
40°	1586.9	1523.1	1496.9	1468.5	1460.4	1454.0	1444.7	1431.9	1415.1	1412.8	1408.7
42.5°	1474.3	1428.4	1405.8	1400.0	1390.1	1379.1	1371.0	1357.1	1350.1	1354.7	1358.2
45°	1367.5	1344.3	1336.7	1329.8	1311.2	1295.5	1290.3	1285.7	1291.5	1317.0	1256.1
47.5°	1281.0	1271.7	1262.4	1250.8	1233.4	1221.8	1227.0	1231.7	1236.9	1049.4	957.7
50°	1206.1	1193.4	1178.9	1166.1	1155.6	1154.5	1181.8	1099.9	921.1	916.5	823.6
52.5°	1124.3	1105.1	1096.4	1088.9	1093.5	1111.0	919.4	853.2	818.4	711.0	663.4
55°	1036.1	1019.2	1019.2	1026.2	1001.2	811.4	801.6	693.0	627.4	608.9	601.3
57.5°	947.8	946.1	956.0	874.1	736.6	706.4	593.8	570.0	559.5	557.2	545.0
60°	867.2	883.4	739.5	680.3	591.5	533.4	517.2	514.3	503.2	499.2	488.1
62.5°	802.7	665.8	619.9	506.1	476.5	469.0	460.3	456.2	446.4	394.1	115.5
65°	579.9	547.9	444.6	425.5	423.1	412.1	408.6	367.4	86.5	58.0	49.3
67.5°	437.6	388.3	375.0	371.5	360.4	338.4	100.4	57.5	49.3	43.0	37.7
70°	336.1	327.4	317.5	309.4	91.1	56.9	49.3	41.8	36.0	31.9	29.0
72.5°	275.1	269.3	156.7	59.8	48.8	41.2	36.6	31.9	27.9	25.5	23.2
75°	215.3	59.8	49.3	41.2	35.4	30.2	26.7	23.8	21.5	19.7	18.0
77.5°	48.8	39.5	33.7	28.4	25.5	22.6	20.3	17.4	15.7	13.9	11.6
80°	30.2	26.1	22.1	20.3	17.4	14.5	12.8	11.6	9.3	8.7	7.5
82.5°	19.7	15.7	13.9	11.6	9.3	8.7	7.5	5.8	5.2	4.6	4.1
85°	8.7	7.5	6.4	5.2	4.1	3.5	2.9	2.3	2.3	2.3	2.3
87.5°	2.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.2	1.2
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: P1213345

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1954.9	1965.3	1975.2	1972.3	1961.9	1945.6	1941.0	1934.6	1939.2	1949.1	1953.2
5°	1968.8	1963.0	1983.9	2014.7	2064.6	2069.2	2104.1	2112.2	2140.1	2157.5	2156.9
7.5°	1988.6	2071.0	2105.2	2142.4	2159.2	2155.2	2160.4	2156.3	2149.9	2147.0	2143.5
10°	2089.0	2151.7	2164.4	2164.4	2138.3	2102.9	2087.8	2061.7	2009.5	2010.6	2001.9
12.5°	2147.6	2169.7	2139.5	2113.9	2008.9	1968.3	1924.1	1903.2	1891.1	1872.5	1879.4
15°	2116.8	2085.5	2067.5	1985.1	1920.7	1847.5	1848.7	1835.9	1822.6	1823.7	1815.0
17.5°	2071.6	2046.6	1918.9	1862.0	1830.7	1802.2	1797.0	1780.2	1771.5	1768.6	1768.0
20°	2009.5	1919.5	1824.3	1810.4	1772.6	1740.1	1734.9	1740.1	1766.8	1719.2	1557.9
22.5°	1936.9	1807.5	1779.6	1740.1	1714.6	1701.8	1733.8	1588.6	1369.2	1395.9	1367.5
25°	1813.9	1757.6	1710.0	1679.8	1676.9	1598.5	1332.1	1304.2	1163.2	1087.7	1003.0
27.5°	1723.9	1699.5	1649.6	1644.4	1606.6	1307.1	1168.4	1015.2	958.9	950.2	931.6
30°	1669.3	1634.5	1604.3	1472.6	1282.2	1052.3	937.4	915.9	906.1	895.6	879.4
32.5°	1603.7	1570.7	1585.2	1238.1	1022.1	906.1	882.8	867.2	849.2	842.2	783.6
35°	1537.0	1521.9	1238.6	1040.7	878.8	850.9	833.5	817.3	650.1	157.3	53.4
37.5°	1465.6	1462.1	1113.3	863.7	823.1	796.9	747.6	154.4	36.6	25.0	18.6
40°	1409.9	1113.9	879.9	809.7	776.6	735.4	103.3	25.5	16.3	9.9	6.4
42.5°	1372.7	1001.8	787.6	759.8	687.8	76.0	26.1	11.0	6.4	5.2	4.1
45°	1058.1	791.1	736.0	707.0	87.1	26.1	15.1	5.2	4.1	3.5	2.3
47.5°	976.3	718.6	686.1	154.4	29.0	13.9	10.4	3.5	2.3	2.3	2.3
50°	739.5	664.0	546.2	37.7	18.6	9.9	7.5	2.3	2.3	2.3	1.7
52.5°	648.3	612.9	58.6	25.0	14.5	7.5	4.6	1.7	1.7	1.7	1.7
55°	592.6	388.9	34.8	19.2	12.2	7.0	2.9	1.7	1.7	1.7	1.2
57.5°	542.1	52.2	25.5	16.3	11.0	6.4	1.7	1.7	1.7	1.7	1.2
60°	459.7	37.7	20.9	14.5	10.4	5.8	1.7	1.7	1.7	1.7	1.7
62.5°	59.8	29.6	18.0	12.8	7.5	4.6	1.2	1.7	1.7	1.7	1.7
65°	43.5	23.2	16.3	8.7	4.6	1.7	1.2	1.7	1.7	1.7	1.7
67.5°	33.7	19.2	12.2	7.5	4.1	1.2	1.2	1.7	1.7	1.7	1.7
70°	26.7	16.3	9.9	6.4	3.5	1.2	1.2	1.7	1.7	1.7	1.7
72.5°	20.9	11.6	7.0	3.5	2.3	1.2	1.2	1.7	1.7	1.7	1.7
75°	15.7	9.3	5.2	2.9	1.2	1.2	1.2	1.7	1.7	1.7	1.7
77.5°	10.4	5.8	4.1	2.3	2.3	2.3	2.9	2.9	1.7	1.7	1.7
80°	7.0	4.1	2.9	2.9	2.9	2.3	2.9	2.9	1.7	2.9	1.7
82.5°	3.5	2.9	2.9	2.3	2.3	1.7	2.3	2.3	2.3	2.3	1.7
85°	2.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3	1.7
87.5°	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7	2.3	2.3	1.7
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: P1213345

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1947.9	1949.7	1945.0	1970.0	1957.2	1958.4	1963.6	1950.3	1953.2	1943.9	1937.5
5°	2159.2	2162.7	2166.2	2167.3	2169.7	2172.6	2169.1	2167.3	2163.9	2152.2	2140.1
7.5°	2126.1	2122.1	2120.3	2122.6	2126.7	2128.5	2125.5	2129.6	2144.7	2151.1	2155.2
10°	1952.0	1933.4	1946.2	1944.5	1929.9	1978.7	1965.3	1972.9	1978.1	2031.5	2064.0
12.5°	1869.0	1880.6	1858.5	1847.5	1862.0	1871.9	1881.8	1860.9	1889.9	1876.5	1919.5
15°	1799.3	1792.4	1790.1	1790.6	1787.7	1801.7	1805.1	1809.8	1813.9	1831.8	1838.8
17.5°	1768.0	1779.6	1784.3	1787.7	1781.9	1775.5	1769.2	1759.9	1762.8	1758.1	1771.5
20°	1449.3	1410.5	1408.1	1430.8	1405.8	1419.7	1453.4	1678.6	1671.1	1758.7	1729.1
22.5°	1209.6	1173.1	1141.7	1114.4	1153.3	1169.6	1232.3	1303.1	1418.0	1400.0	1524.8
25°	987.9	974.5	966.4	962.4	965.3	964.1	978.0	1011.1	1063.4	1186.4	1345.4
27.5°	924.1	917.7	914.8	905.5	912.4	910.1	921.1	928.1	943.8	956.0	1007.6
30°	873.6	866.0	860.8	850.9	857.9	858.5	861.9	879.9	886.3	896.8	913.0
32.5°	319.2	188.1	176.5	167.7	183.4	239.1	419.7	733.7	837.0	845.1	863.7
35°	31.3	26.1	23.2	23.2	23.8	26.1	34.8	91.7	167.7	648.3	811.4
37.5°	12.2	10.4	8.7	8.1	8.7	9.9	13.3	17.4	23.8	49.3	220.0
40°	5.2	4.6	4.1	4.1	4.1	4.1	4.6	5.8	8.7	16.3	25.5
42.5°	3.5	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.1	5.2	10.4
45°	2.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.9	4.6
47.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3
50°	1.7	1.7	1.7	1.7	1.2	1.7	1.2	1.7	1.7	1.7	1.7
52.5°	1.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7
55°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7
57.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
60°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
62.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.2
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.2
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.7	1.7	1.2	1.7	1.2	1.2	1.7	1.7	1.7	1.2	1.2
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	2.3
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.9	3.5	2.9
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.9	2.9	2.9
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3	2.3
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3	2.3
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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: P1213345

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1926.5	1925.9	1938.1	1947.4	1943.9	1947.4	1951.4	1952.0	1953.2	1948.5	1946.8
5°	2116.8	2098.8	2064.0	2039.1	2010.0	1957.2	1931.1	1934.0	1934.6	1932.8	1935.2
7.5°	2153.4	2151.7	2139.5	2134.3	2114.5	2076.8	2016.4	2006.0	1980.4	1964.2	1950.8
10°	2061.7	2103.5	2114.5	2133.1	2144.7	2137.7	2086.7	2079.1	2062.9	2044.3	2048.4
12.5°	1962.4	1996.7	1998.4	2099.4	2122.1	2124.4	2104.7	2115.1	2117.4	2075.6	2051.3
15°	1840.6	1856.8	1891.1	1985.1	2053.6	2096.5	2109.3	2115.1	2086.7	2084.9	2075.1
17.5°	1787.2	1797.6	1813.3	1866.1	1970.0	2033.3	2087.2	2083.2	2094.2	2086.1	2061.1
20°	1719.8	1728.5	1756.4	1783.1	1834.2	1918.3	2019.3	2026.9	2041.4	2039.6	2046.6
22.5°	1718.7	1687.9	1692.5	1713.4	1766.8	1842.3	1949.7	1974.6	1983.9	1990.3	1997.9
25°	1363.4	1607.8	1652.5	1665.8	1700.7	1744.8	1871.3	1880.6	1898.0	1926.5	1947.4
27.5°	1181.2	1347.2	1526.0	1618.8	1640.9	1677.5	1752.9	1766.8	1826.0	1833.0	1865.5
30°	932.2	1060.5	1327.5	1550.9	1587.5	1613.0	1666.4	1694.3	1719.8	1747.7	1781.9
32.5°	877.0	897.4	1045.4	1283.3	1567.8	1548.6	1588.1	1604.9	1632.8	1657.1	1682.1
35°	826.5	840.5	871.8	1051.2	1277.0	1495.8	1522.5	1533.5	1549.2	1567.8	1585.7
37.5°	773.7	794.6	816.1	864.3	1181.2	1454.0	1453.4	1466.2	1475.5	1491.1	1506.2
40°	140.5	729.6	764.4	795.8	915.9	1159.7	1388.4	1394.2	1400.6	1410.5	1426.1
42.5°	22.6	121.9	716.3	746.4	780.7	1038.4	1358.8	1335.0	1330.9	1337.9	1351.8
45°	11.6	29.6	143.9	697.1	727.9	828.3	1111.0	1293.8	1289.7	1276.4	1279.3
47.5°	8.7	18.6	35.4	240.9	681.4	711.0	1025.0	1014.0	1091.2	1239.2	1216.6
50°	7.5	12.8	20.9	49.3	601.9	654.7	789.4	922.3	962.9	968.2	1145.8
52.5°	7.0	8.7	15.1	31.9	126.5	605.4	642.0	688.4	756.9	903.7	900.3
55°	6.4	8.1	12.8	21.5	44.1	545.6	583.3	592.0	606.6	676.8	769.7
57.5°	3.5	7.5	12.2	18.6	33.1	99.8	529.4	536.3	547.9	550.8	583.9
60°	1.7	7.0	11.0	16.3	24.4	46.4	476.0	484.1	491.0	492.2	502.7
62.5°	1.2	6.4	9.3	15.1	20.3	33.1	112.6	229.9	437.1	437.1	449.3
65°	1.2	4.6	5.8	9.9	18.6	27.3	47.6	55.1	107.4	264.1	394.1
67.5°	1.2	1.7	5.2	8.1	13.9	20.9	34.8	40.6	48.8	55.7	103.3
70°	1.2	1.2	4.6	5.2	8.7	15.7	25.0	28.4	33.1	37.7	43.5
72.5°	1.2	1.2	4.1	4.1	5.8	10.4	19.2	20.9	23.8	26.7	30.8
75°	2.9	2.3	3.5	3.5	4.1	8.1	14.5	16.3	17.4	19.7	22.6
77.5°	2.9	2.9	2.9	2.9	2.9	5.2	9.3	10.4	12.2	13.3	15.7
80°	2.3	2.3	2.3	2.9	2.9	3.5	5.8	6.4	7.0	8.7	9.3
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.5	4.1	5.2
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3	2.3	2.3
87.5°	1.7	1.7	1.7	1.2	1.2	1.7	1.7	1.7	1.7	1.7	1.7
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: P1213345

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1946.2	1942.7	1939.8	1941.6	1936.3	1934.0	1935.7	1936.3	1937.5	1940.4	1941.0
5°	1941.0	1939.8	1945.0	1947.9	1946.8	1947.9	1947.9	1945.6	1942.1	1944.5	1939.2
7.5°	1937.5	1929.9	1924.1	1925.3	1919.5	1926.5	1932.8	1942.1	1945.0	1945.0	1939.2
10°	1997.3	1989.1	1956.6	1934.6	1920.1	1907.3	1937.5	1906.7	1921.2	1866.1	1929.4
12.5°	2046.6	2057.6	2043.1	1982.8	1972.3	1934.0	1956.1	1918.3	1907.3	1844.0	1864.4
15°	2066.3	2045.4	2040.8	2024.0	2001.3	1990.3	1931.1	1924.7	1906.7	1913.7	1887.0
17.5°	2048.9	2059.4	2045.4	2034.4	2011.2	1985.1	1949.7	1918.3	1893.4	1837.7	1884.7
20°	2032.1	2046.0	2004.2	2011.2	2013.5	1983.3	1964.8	1938.6	1907.3	1855.1	1814.4
22.5°	2004.2	1994.4	1997.9	1987.4	1978.7	1982.8	1957.2	1939.2	1886.4	1862.6	1807.5
25°	1959.0	1955.5	1964.8	1963.6	1942.7	1935.7	1923.0	1903.8	1882.9	1844.6	1799.3
27.5°	1885.2	1903.2	1919.5	1927.0	1916.0	1897.4	1890.5	1879.4	1864.9	1826.0	1792.4
30°	1807.5	1827.8	1846.4	1862.6	1872.5	1864.4	1858.0	1851.6	1829.5	1804.0	1766.3
32.5°	1718.7	1745.4	1770.9	1790.6	1812.1	1818.5	1813.9	1808.6	1790.1	1766.8	1736.7
35°	1615.9	1652.5	1689.6	1725.0	1734.3	1749.4	1764.5	1755.8	1745.9	1722.7	1694.9
37.5°	1528.9	1555.0	1581.7	1626.4	1658.9	1678.0	1704.7	1708.2	1691.4	1680.4	1643.8
40°	1438.9	1462.7	1501.6	1527.7	1572.4	1594.5	1622.9	1635.7	1631.6	1625.2	1593.3
42.5°	1368.1	1379.7	1405.2	1428.4	1472.6	1517.8	1542.8	1556.7	1571.2	1566.0	1549.8
45°	1292.6	1303.1	1311.8	1332.1	1375.0	1415.1	1445.9	1466.8	1492.9	1505.1	1485.3
47.5°	1217.8	1220.7	1231.1	1247.9	1273.5	1304.2	1355.9	1387.2	1411.6	1435.4	1422.6
50°	1160.3	1149.8	1151.6	1162.0	1182.9	1213.1	1250.3	1294.4	1322.2	1351.3	1354.2
52.5°	1014.0	1098.8	1078.4	1084.3	1095.3	1109.8	1148.7	1192.2	1226.5	1251.4	1276.4
55°	850.9	867.7	1030.9	1007.6	1014.6	1027.4	1045.4	1088.9	1122.0	1156.8	1191.6
57.5°	660.0	785.3	791.7	942.6	939.1	940.3	955.4	980.4	1013.4	1057.0	1086.6
60°	513.1	565.9	668.7	720.9	853.2	857.9	866.6	881.1	909.5	950.8	997.8
62.5°	452.7	459.7	496.3	574.6	660.5	764.4	783.0	785.3	798.1	839.3	893.9
65°	397.6	402.2	413.3	421.4	493.4	593.8	683.2	697.7	705.8	730.2	776.6
67.5°	274.0	346.5	356.4	362.2	369.2	415.6	526.5	600.2	609.5	630.9	671.6
70°	52.8	109.7	300.1	306.5	310.0	320.4	338.4	455.6	517.2	537.5	556.1
72.5°	36.0	42.4	51.1	120.7	255.4	261.2	265.3	280.3	384.2	443.5	453.3
75°	26.1	29.0	34.2	42.4	52.2	170.1	210.7	218.2	225.8	311.7	361.6
77.5°	18.6	20.9	23.2	27.3	31.9	41.2	59.2	163.1	170.6	174.7	246.7
80°	10.4	12.8	15.7	18.0	20.3	23.2	30.2	37.7	84.2	123.1	129.4
82.5°	5.8	7.0	8.1	9.9	11.0	13.9	16.8	20.3	26.7	39.5	83.6
85°	2.9	2.9	2.9	4.1	4.6	6.4	7.5	8.7	12.2	16.8	23.2
87.5°	1.7	1.7	2.3	2.3	2.3	2.9	2.9	2.9	3.5	5.2	7.5
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: P1213345

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1941.6	1939.8	1939.8	1946.8	1945.0
5°	1938.1	1936.3	1935.7	1943.3	1939.8
7.5°	1935.2	1928.8	1927.0	1934.0	1931.1
10°	1923.6	1918.9	1921.8	1919.5	1918.3
12.5°	1903.8	1900.9	1888.7	1889.9	1899.8
15°	1868.4	1880.0	1859.1	1877.7	1881.8
17.5°	1803.4	1829.5	1849.8	1860.9	1862.6
20°	1832.4	1841.1	1830.7	1831.3	1838.2
22.5°	1794.7	1798.8	1801.7	1798.2	1813.3
25°	1734.3	1718.7	1752.3	1759.3	1783.7
27.5°	1715.8	1703.0	1718.7	1717.5	1737.8
30°	1700.7	1659.5	1666.4	1677.5	1702.4
32.5°	1679.2	1614.2	1607.2	1631.6	1659.5
35°	1641.5	1579.9	1563.7	1579.4	1621.2
37.5°	1609.5	1532.3	1499.8	1520.7	1575.3
40°	1561.9	1495.2	1444.7	1463.3	1527.7
42.5°	1505.1	1463.3	1385.5	1398.3	1472.0
45°	1447.6	1410.5	1328.0	1334.4	1422.1
47.5°	1389.0	1354.7	1268.2	1269.4	1358.2
50°	1331.5	1286.2	1214.8	1194.5	1290.3
52.5°	1256.6	1214.8	1160.9	1127.8	1225.9
55°	1185.8	1138.8	1099.3	1048.3	1152.7
57.5°	1116.8	1064.5	1037.8	972.2	1069.7
60°	1022.1	997.2	957.7	895.0	994.9
62.5°	925.2	917.1	877.0	812.0	902.6
65°	812.0	831.2	790.0	734.2	806.8
67.5°	705.2	739.5	694.2	660.0	714.5
70°	591.5	630.9	605.4	593.2	616.4
72.5°	479.4	517.7	520.1	511.4	518.9
75°	370.3	412.7	435.9	422.6	424.3
77.5°	280.9	301.2	326.8	337.2	334.9
80°	173.5	209.0	229.9	251.3	243.8
82.5°	87.6	117.2	142.8	166.0	155.0
85°	36.6	47.0	65.6	86.5	83.0
87.5°	11.0	18.6	19.7	27.9	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)