

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: P1213696

Luminaire Tested: 2SNLED-LD5-32HL-RM-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213696
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-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

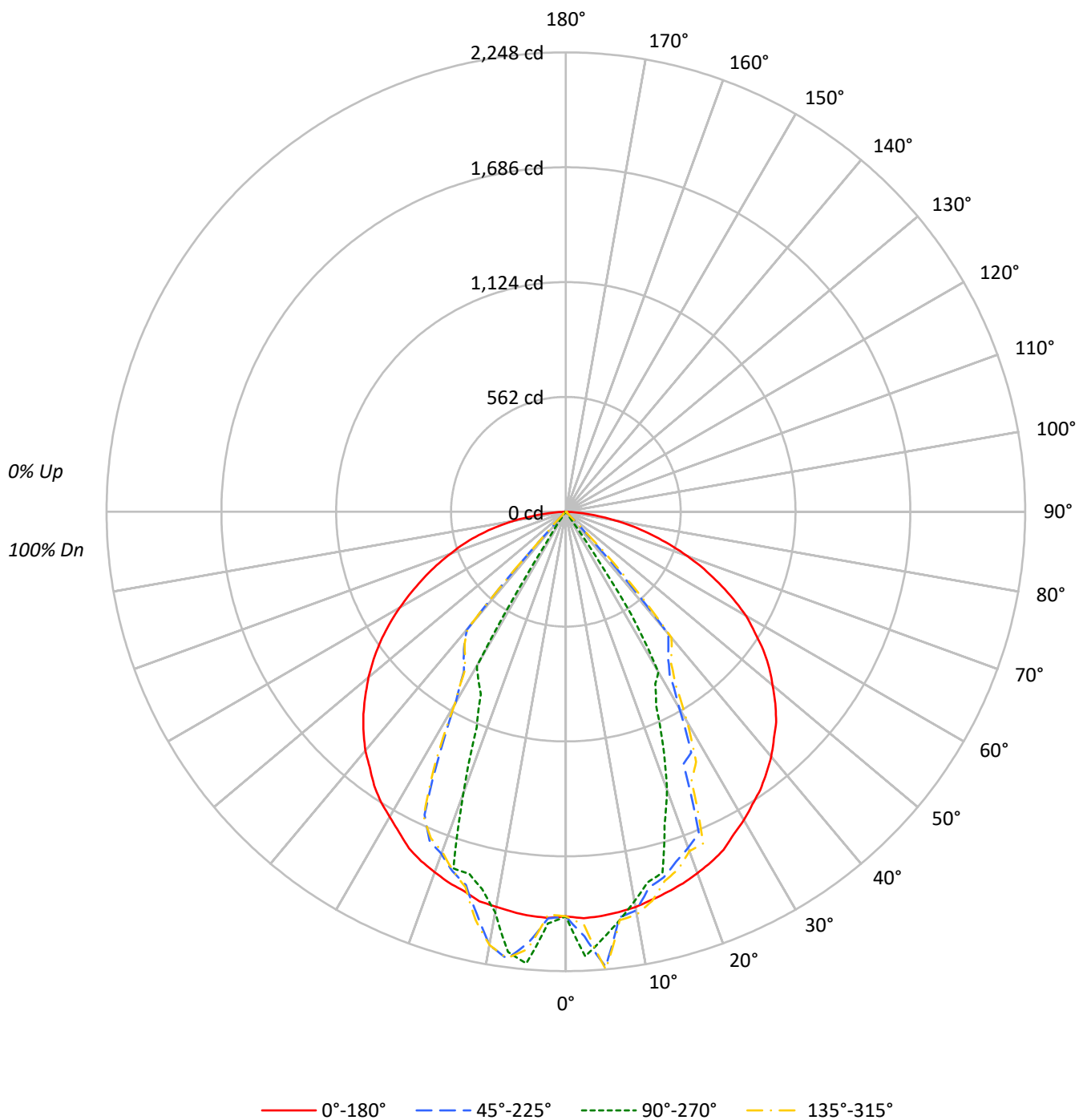
Lumens per Lamp: N/A
Luminaire Lumens: 2815.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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

TEST NUMBER: P1213696

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L940-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213696

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	31996	31996	31996	31996
5°	32040	32908	32031	34850
10°	31876	29778	31856	30637
15°	31699	27794	31621	27867
20°	31644	21893	31553	22162
25°	31637	15843	31483	14950
30°	31390	13898	31057	13360
35°	31369	306	30908	372
40°	31349	67	30599	67
45°	31315	40	30138	30
50°	30908	31	29490	31
55°	30525	22	28650	22
60°	29703	24	27382	24
65°	27852	38	25869	25
70°	25448	42	24226	42
75°	21991	47	22355	47
80°	17145	54	18127	54
85°	9194	63	9378	63

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 33825 cd/sqm

TEST NUMBER: P1213696

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.6	7.1
10°-20°	541.8	19.2
20°-30°	689.4	24.5
30°-40°	582.3	20.7
40°-50°	380.7	13.5
50°-60°	239.9	8.5
60°-70°	127.7	4.5
70°-80°	46.6	1.7
80°-90°	8.0	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°	1429.8	50.8
0°-40°	2012.1	71.5
0°-60°	2632.7	93.5
0°-90°	2815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2815.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1980	1980	1980	1980	1980	
5°	1986	2095	1985	2219	1986	189
15°	1926	1828	1922	1833	1926	545
25°	1826	1044	1817	985	1826	840
35°	1660	20	1635	24	1660	1038
45°	1456	2	1401	2	1456	1119
55°	1180	1	1108	1	1180	1051
65°	826	2	767	1	826	818
75°	434	2	442	2	434	461
85°	85	2	87	2	85	107
90°	0	0	0	0	0	

TEST NUMBER: P1213696

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7
2.5°	1991.0	1992.2	1992.8	1994.0	1995.8	1996.4	1997.5	1996.4	1996.4	1996.4	1996.4
5°	1985.7	1988.0	1989.8	1992.2	1996.4	1996.9	2001.7	2002.3	2004.7	2009.4	2013.0
7.5°	1976.7	1979.1	1982.7	1988.6	1994.6	2001.1	2009.4	2018.3	2030.8	2042.7	2057.6
10°	1963.7	1966.6	1970.8	1976.2	2005.3	2009.4	2027.8	2053.4	2060.5	2098.0	2125.9
12.5°	1944.7	1954.8	1965.5	1970.2	1998.1	2042.1	2103.9	2091.4	2077.8	2200.1	2198.4
15°	1926.2	1939.9	1934.6	1973.2	1998.7	2075.4	2049.2	2105.1	2207.3	2182.3	2183.5
17.5°	1906.6	1909.6	1939.3	1971.4	2017.2	2056.4	2088.4	2165.1	2185.3	2187.1	2165.1
20°	1881.7	1895.9	1939.3	1968.4	2045.7	2064.1	2133.6	2172.8	2164.5	2144.3	2106.9
22.5°	1856.1	1899.5	1943.5	1984.5	2038.5	2087.9	2122.3	2140.7	2097.4	2017.7	1975.0
25°	1825.8	1851.4	1909.0	1969.0	2036.8	2065.3	2085.5	2055.8	1999.3	1928.0	1856.1
27.5°	1778.9	1819.9	1893.6	1961.3	2022.5	2057.0	2024.3	1953.0	1862.1	1815.1	1782.5
30°	1742.7	1796.1	1856.7	1922.1	1985.7	2005.9	1922.7	1841.3	1778.9	1732.0	1724.8
32.5°	1698.7	1774.7	1832.4	1894.8	1948.2	1921.5	1840.7	1735.5	1683.8	1666.0	1673.1
35°	1659.5	1717.1	1792.6	1853.8	1892.4	1832.4	1704.6	1639.3	1614.3	1624.4	1611.3
37.5°	1612.5	1688.6	1758.1	1811.0	1797.9	1707.6	1599.5	1557.9	1560.8	1552.5	1527.6
40°	1563.8	1636.3	1708.8	1758.7	1712.9	1575.1	1503.2	1494.3	1496.1	1469.3	1433.7
42.5°	1506.8	1572.7	1645.2	1690.4	1591.7	1484.2	1435.5	1436.7	1421.2	1383.8	1364.8
45°	1455.7	1516.3	1591.7	1595.9	1474.7	1385.0	1370.7	1355.3	1320.8	1308.3	1294.1
47.5°	1390.3	1457.5	1519.8	1497.3	1360.0	1304.2	1293.5	1259.6	1242.4	1232.9	1221.0
50°	1320.8	1388.5	1445.6	1381.4	1251.9	1238.8	1203.8	1177.0	1165.1	1155.0	1144.3
52.5°	1254.9	1310.7	1368.9	1258.4	1168.7	1156.2	1116.4	1101.0	1089.1	1077.8	1075.4
55°	1180.0	1229.3	1269.1	1141.4	1089.1	1060.0	1031.5	1020.8	1009.5	1004.1	1013.0
57.5°	1095.0	1150.9	1144.9	1026.1	1002.9	960.7	950.1	942.9	934.6	938.2	863.9
60°	1018.4	1061.2	1032.0	941.7	902.5	874.0	864.5	859.7	864.5	792.0	696.3
62.5°	923.9	972.0	913.2	843.1	801.5	787.8	779.5	786.1	716.5	636.9	613.8
65°	825.9	878.2	791.4	737.3	711.2	699.3	698.7	643.5	575.1	544.2	544.2
67.5°	731.4	785.5	673.8	628.6	618.5	619.7	585.2	501.5	482.5	461.7	401.6
70°	631.0	678.5	556.7	529.4	523.4	519.3	435.5	412.9	390.4	335.1	330.3
72.5°	531.2	554.3	447.4	440.9	439.7	365.4	348.8	310.1	284.0	277.5	274.5
75°	434.3	427.2	353.5	359.5	303.0	276.9	250.1	227.6	224.0	221.6	55.3
77.5°	342.8	307.2	278.7	242.4	216.9	184.2	178.8	175.3	115.3	41.6	33.9
80°	249.5	199.0	185.4	157.5	134.3	128.9	131.9	40.4	32.1	26.7	23.2
82.5°	158.6	127.1	104.0	90.9	88.5	38.6	28.5	23.2	20.2	17.2	14.3
85°	85.0	56.4	52.3	44.0	26.1	17.8	14.9	11.3	9.5	7.7	7.1
87.5°	26.7	22.6	18.4	14.9	8.9	5.9	4.8	4.2	3.6	3.0	3.0
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: P1213696

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7
2.5°	1995.2	1996.4	1995.8	1997.5	1997.5	1999.9	2001.7	2003.5	2007.0	2008.8	2022.5
5°	2020.7	2023.7	2032.6	2040.9	2051.0	2054.0	2071.2	2075.4	2095.6	2098.0	2164.5
7.5°	2077.8	2089.0	2110.4	2131.8	2153.2	2166.9	2190.6	2205.5	2221.5	2235.8	2288.7
10°	2146.7	2165.7	2186.5	2207.9	2220.4	2246.5	2260.8	2263.1	2259.0	2235.8	2150.2
12.5°	2214.4	2233.4	2224.5	2228.7	2243.5	2197.2	2203.7	2170.4	2193.6	2078.9	1994.0
15°	2204.9	2203.7	2181.7	2110.4	2122.3	2033.8	1998.1	1970.8	1992.8	1980.9	1967.8
17.5°	2176.4	2122.3	2084.3	1998.7	1962.5	1937.5	1938.1	1938.7	1928.0	1939.3	1906.0
20°	2055.8	1995.2	1938.7	1908.4	1897.7	1879.9	1888.8	1879.9	1880.5	1884.1	1833.0
22.5°	1895.3	1876.9	1844.3	1853.8	1850.2	1866.2	1854.4	1835.9	1841.9	1815.1	1776.5
25°	1830.6	1809.2	1808.0	1811.6	1806.2	1799.1	1788.4	1760.5	1758.7	1750.4	1732.6
27.5°	1765.2	1766.4	1770.0	1759.3	1740.3	1726.0	1710.0	1696.3	1701.7	1692.1	1667.8
30°	1720.1	1719.5	1698.1	1688.6	1653.5	1654.1	1650.0	1641.6	1636.3	1636.9	1621.4
32.5°	1655.9	1637.5	1613.1	1601.2	1598.3	1587.6	1579.3	1581.0	1585.2	1570.3	1586.4
35°	1590.0	1551.9	1548.4	1538.3	1528.8	1521.6	1524.6	1512.7	1512.1	1510.3	1379.6
37.5°	1501.4	1483.0	1481.2	1470.5	1464.0	1462.2	1450.9	1452.7	1458.1	1467.6	1176.4
40°	1428.3	1411.7	1407.5	1407.0	1392.7	1391.5	1394.5	1405.8	1413.5	1354.1	1121.2
42.5°	1349.9	1351.1	1338.0	1329.7	1331.5	1336.8	1351.1	1311.9	1136.6	1083.1	1024.9
45°	1282.8	1276.8	1269.7	1267.3	1282.8	1272.1	1115.2	1029.1	1008.3	1005.9	842.5
47.5°	1212.7	1210.9	1207.9	1209.7	1121.8	1000.0	964.3	953.0	956.6	954.2	723.7
50°	1142.0	1144.3	1144.3	999.4	917.4	897.2	900.1	910.2	847.3	790.8	674.4
52.5°	1080.8	1062.3	910.2	858.0	839.5	848.5	827.1	748.0	691.0	657.7	623.9
55°	967.3	831.8	797.9	789.6	796.2	717.1	668.4	617.3	602.5	598.9	579.3
57.5°	761.1	733.8	736.8	703.5	628.0	583.5	563.9	556.7	550.2	545.4	47.5
60°	673.2	680.9	623.3	552.0	521.7	515.7	511.0	504.4	503.2	494.9	30.3
62.5°	616.1	541.9	492.0	474.1	467.0	465.2	456.3	453.3	385.0	52.9	22.6
65°	464.6	434.3	424.8	420.7	412.9	412.9	342.8	54.1	44.0	38.0	20.2
67.5°	379.1	376.7	371.9	366.6	249.5	52.3	45.7	39.8	34.5	30.3	17.8
70°	320.8	319.7	291.1	53.5	44.6	39.2	34.5	30.9	28.5	25.5	16.0
72.5°	263.2	53.5	45.2	39.2	33.9	30.9	27.9	25.0	22.6	20.8	13.1
75°	41.0	36.2	32.1	29.1	26.7	23.8	21.4	19.6	19.0	16.6	8.9
77.5°	29.7	25.5	23.2	20.8	18.4	16.6	14.3	12.5	11.3	9.5	6.5
80°	20.8	18.4	16.6	13.7	11.9	10.1	8.9	7.7	7.1	5.9	3.0
82.5°	11.9	10.1	8.9	7.1	6.5	5.3	4.8	4.2	4.2	3.0	3.0
85°	5.3	5.3	4.2	3.6	3.0	3.0	3.0	2.4	2.4	1.8	1.8
87.5°	2.4	2.4	2.4	2.4	2.4	1.8	1.8	1.8	1.8	1.8	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: P1213696

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7
2.5°	2041.5	2049.2	2064.1	2079.5	2062.3	2124.1	2119.3	2140.1	2151.4	2156.8	2169.3
5°	2223.3	2257.8	2269.1	2235.2	2215.6	2195.4	2149.6	2115.2	2119.3	2108.1	2067.1
7.5°	2219.8	2146.1	2046.9	2001.7	1998.1	1992.8	2007.0	2015.4	2016.6	2016.0	2014.8
10°	2032.0	1994.0	1987.4	1981.5	1983.9	1961.9	1951.8	1923.3	1938.7	1930.4	1933.4
12.5°	1975.0	1966.1	1931.0	1882.3	1911.4	1889.4	1876.9	1885.2	1875.7	1866.8	1863.9
15°	1941.1	1883.5	1863.9	1852.0	1843.7	1838.9	1843.1	1833.6	1830.6	1828.8	1833.0
17.5°	1871.0	1847.8	1826.4	1794.9	1795.5	1793.7	1805.6	1823.5	1824.6	1733.1	1650.6
20°	1815.7	1796.7	1769.4	1749.8	1776.5	1729.0	1545.4	1458.1	1444.4	1444.4	1446.8
22.5°	1771.8	1729.6	1731.4	1700.5	1450.3	1399.2	1400.4	1405.8	1381.4	1298.2	1289.3
25°	1711.8	1705.2	1575.1	1361.2	1363.0	1323.2	1262.0	1175.8	1082.5	1082.5	1067.1
27.5°	1666.6	1528.2	1338.0	1329.1	1195.4	1111.1	1058.8	979.8	969.1	959.0	960.2
30°	1628.0	1292.9	1297.6	1111.1	1012.4	942.3	938.2	925.1	918.6	916.8	910.2
32.5°	1286.9	1259.0	1086.1	945.9	907.3	896.0	890.6	875.8	875.2	863.9	785.5
35°	1206.7	1105.1	909.1	871.0	859.7	849.0	840.1	563.9	66.5	26.7	23.2
37.5°	1115.2	923.3	840.7	823.5	812.8	600.7	60.0	20.8	14.9	10.7	9.5
40°	945.3	824.7	798.5	779.5	321.4	20.8	13.1	10.1	5.9	5.3	4.8
42.5°	797.4	777.2	749.2	228.2	23.8	10.1	6.5	4.8	4.2	4.2	3.6
45°	746.3	728.4	301.8	22.6	14.9	4.8	4.2	4.2	3.6	2.4	2.4
47.5°	698.7	614.9	27.3	14.3	9.5	4.2	3.6	2.4	2.4	2.4	1.8
50°	648.2	33.9	19.0	10.7	5.9	2.4	2.4	2.4	2.4	1.8	1.8
52.5°	121.2	23.8	15.4	9.5	3.0	2.4	2.4	2.4	1.8	1.8	1.8
55°	28.5	19.0	14.3	8.3	2.4	2.4	2.4	1.8	1.8	1.8	1.2
57.5°	21.4	14.3	11.3	7.7	2.4	1.8	1.8	1.8	1.8	1.8	1.2
60°	17.8	10.1	8.9	7.1	1.8	1.8	1.8	1.8	1.8	1.8	1.2
62.5°	12.5	8.3	6.5	5.3	1.8	1.8	1.8	1.8	1.8	1.8	1.8
65°	10.1	6.5	5.3	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
67.5°	8.9	5.3	3.6	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8
70°	7.1	1.8	1.8	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	5.9	1.8	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	5.9	3.0	1.2	1.2	1.8	1.8	2.4	2.4	1.8	1.8	1.8
77.5°	4.2	3.0	1.2	1.2	1.8	1.8	2.4	2.4	1.8	1.8	1.8
80°	2.4	3.0	1.2	1.8	1.8	3.6	4.2	2.4	1.8	1.8	1.8
82.5°	2.4	3.0	3.6	3.6	1.8	3.0	3.6	3.0	2.4	1.8	1.8
85°	2.4	1.8	2.4	3.0	1.8	3.0	3.0	2.4	2.4	1.8	1.8
87.5°	1.2	1.8	1.8	2.4	2.4	2.4	3.0	2.4	2.4	2.4	1.8
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: P1213696

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7
2.5°	2175.2	2177.6	2140.1	2127.1	2138.4	2136.0	2125.9	2088.4	2084.3	2059.3	2023.1
5°	2078.9	2095.0	2075.4	2109.2	2093.2	2109.2	2158.0	2180.5	2217.4	2240.0	2248.3
7.5°	2011.8	2015.4	2015.4	2018.3	2021.3	2021.9	2018.3	2016.0	2005.9	1993.4	2016.0
10°	1930.4	1934.6	1941.7	1940.5	1939.9	1952.4	1955.4	1980.9	1979.7	1984.5	2001.7
12.5°	1888.2	1856.1	1885.2	1877.5	1888.2	1871.6	1902.5	1897.1	1898.9	1913.2	1950.0
15°	1818.1	1828.2	1835.3	1835.3	1839.5	1835.9	1832.4	1856.7	1871.6	1872.2	1869.8
17.5°	1683.2	1606.6	1685.0	1664.8	1825.8	1830.0	1816.3	1805.0	1805.0	1813.9	1833.0
20°	1445.0	1446.8	1447.4	1455.1	1464.6	1464.0	1464.6	1698.7	1809.8	1784.2	1767.0
22.5°	1266.7	1244.8	1285.7	1282.8	1333.9	1390.3	1444.4	1439.0	1442.6	1607.8	1756.3
25°	1015.4	1043.9	1020.8	1030.9	1088.5	1155.6	1197.2	1305.9	1424.2	1415.9	1454.5
27.5°	956.0	948.3	959.0	959.0	966.7	975.6	998.8	1060.0	1165.1	1275.6	1380.2
30°	899.5	906.1	907.3	918.0	923.9	929.8	933.4	956.6	980.4	1057.0	1185.9
32.5°	675.6	592.4	779.5	830.0	872.8	882.9	890.0	899.5	916.8	928.1	992.8
35°	19.6	19.6	20.8	23.8	30.3	204.4	778.3	858.0	869.2	883.5	895.4
37.5°	9.5	7.1	8.3	8.9	10.7	14.9	21.4	66.5	740.9	837.8	850.8
40°	4.2	4.2	4.2	4.2	4.8	5.9	8.9	14.9	22.6	595.9	803.9
42.5°	3.6	3.6	3.6	3.6	3.6	3.6	4.2	5.3	10.7	25.5	421.8
45°	2.4	2.4	1.8	2.4	2.4	3.0	3.6	3.6	4.8	16.0	29.1
47.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.0	3.6	10.7	15.4
50°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	8.3	10.7
52.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	9.5
55°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	2.4	8.3
57.5°	1.2	1.2	1.2	1.2	1.2	1.8	1.2	1.2	1.8	1.8	7.7
60°	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	7.1
62.5°	1.8	1.8	1.2	1.8	1.2	1.2	1.8	1.8	1.8	1.8	4.8
65°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.8
67.5°	1.8	1.8	1.8	1.8	1.2	1.8	1.2	1.8	1.8	1.2	1.2
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.2
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.2
75°	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	1.2	1.2	1.2
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	3.0	3.6	3.0	3.0	1.2
80°	1.8	1.8	1.8	1.8	1.8	1.8	3.0	3.0	3.0	3.0	4.2
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4	2.4	3.0
85°	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4	1.8	2.4
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	1.8	1.8	1.8
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: P1213696

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7
2.5°	2026.1	2005.9	1999.3	1985.7	1984.5	1985.7	1982.7	1978.5	1980.9	1976.7	1973.2
5°	2253.0	2199.0	2163.9	2117.0	2052.2	2037.9	2034.4	2014.2	2007.0	2004.7	1995.2
7.5°	2069.4	2168.1	2227.5	2247.7	2171.6	2153.8	2133.0	2116.4	2100.3	2070.0	2051.6
10°	1988.0	1992.8	2049.8	2116.4	2224.5	2239.4	2250.7	2214.4	2204.3	2127.1	2110.4
12.5°	1969.0	1969.6	1976.2	2016.6	2101.5	2111.0	2150.8	2172.2	2198.4	2213.2	2201.3
15°	1882.3	1930.4	1966.1	1969.6	1977.3	1994.0	2005.9	2080.1	2111.6	2196.0	2191.2
17.5°	1841.9	1857.3	1909.0	1951.2	1944.1	1938.1	1947.6	1957.7	1988.0	2072.4	2071.2
20°	1774.7	1824.1	1852.0	1895.9	1935.8	1937.5	1926.8	1920.9	1909.0	1922.7	1935.2
22.5°	1746.2	1753.9	1806.2	1837.1	1882.3	1898.3	1900.7	1901.3	1894.8	1887.6	1884.1
25°	1743.2	1718.9	1745.6	1784.2	1817.5	1834.7	1854.4	1860.9	1858.5	1858.5	1854.9
27.5°	1426.6	1711.2	1696.9	1722.5	1762.9	1774.7	1784.8	1805.0	1817.5	1826.4	1830.6
30°	1358.8	1409.9	1658.9	1662.4	1703.4	1702.2	1713.5	1730.2	1746.2	1767.0	1772.4
32.5°	1202.0	1327.3	1518.7	1602.4	1645.2	1649.4	1655.3	1660.1	1674.9	1698.1	1718.3
35°	963.1	1209.1	1301.2	1573.9	1581.6	1590.0	1593.5	1604.8	1609.6	1619.1	1636.9
37.5°	871.6	999.4	1248.3	1361.2	1508.6	1515.7	1534.7	1539.5	1547.2	1554.9	1568.6
40°	818.7	853.8	1039.2	1215.6	1449.7	1454.5	1461.0	1472.9	1473.5	1482.4	1494.9
42.5°	776.6	799.1	853.2	1161.0	1408.1	1407.5	1392.1	1399.8	1403.4	1412.9	1430.1
45°	620.3	749.8	784.3	948.3	1121.2	1202.0	1357.0	1331.5	1330.9	1334.5	1352.9
47.5°	31.5	705.3	729.6	782.5	1058.8	1061.8	1082.0	1251.9	1278.0	1269.7	1271.5
50°	21.4	48.7	679.7	704.1	912.6	986.3	1001.1	1008.9	1106.9	1216.2	1198.4
52.5°	16.6	27.9	416.5	653.6	741.5	795.6	891.2	945.9	951.8	995.8	1144.9
55°	14.9	21.4	45.2	603.1	630.4	642.3	698.1	793.8	871.0	894.2	896.0
57.5°	13.1	19.6	30.9	272.7	573.4	575.7	585.2	618.5	688.0	751.6	823.5
60°	11.9	17.2	24.4	46.9	521.1	527.0	528.8	537.7	546.0	589.4	672.0
62.5°	7.1	13.7	21.4	33.9	412.3	473.5	472.9	478.9	486.6	491.4	508.0
65°	5.9	10.7	18.4	28.5	50.5	63.0	382.6	425.4	430.2	436.7	439.7
67.5°	5.3	9.5	13.7	22.6	38.0	43.4	49.9	61.8	337.5	380.3	386.2
70°	4.8	6.5	11.3	19.0	30.9	33.3	37.4	42.8	50.5	62.4	305.4
72.5°	3.0	4.8	7.7	13.7	23.8	26.7	29.1	32.7	36.2	43.4	49.9
75°	1.2	3.6	6.5	10.1	18.4	20.2	22.0	24.4	27.3	32.1	35.6
77.5°	1.2	3.0	5.3	7.1	11.9	13.7	16.0	17.8	20.2	22.6	26.1
80°	4.2	2.4	3.6	5.3	8.3	8.9	10.1	11.3	13.1	14.9	17.2
82.5°	3.0	3.6	4.2	3.6	4.2	5.3	5.9	7.1	7.7	8.9	9.5
85°	2.4	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.6	4.2	5.3
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4
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: P1213696

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7
2.5°	1973.2	1972.0	1968.4	1968.4	1967.8	1970.2	1972.0	1973.8	1973.2	1976.7	1973.2
5°	1988.0	1985.1	1979.7	1975.0	1973.2	1974.4	1972.6	1974.4	1972.0	1975.0	1969.6
7.5°	2029.0	2018.9	1998.1	1989.8	1979.1	1978.5	1973.2	1972.0	1968.4	1968.4	1961.9
10°	2101.5	2052.8	2046.9	2021.9	2013.0	1969.6	1979.1	1963.1	1961.3	1953.6	1950.6
12.5°	2160.9	2122.9	2111.6	2089.6	2064.7	1976.7	1996.4	1961.9	1960.1	1944.7	1928.6
15°	2162.1	2184.1	2153.2	2092.6	2087.3	2026.7	1986.8	1975.0	1959.5	1913.2	1920.9
17.5°	2092.6	2143.1	2158.0	2144.9	2106.9	2065.9	2010.0	1986.3	1939.9	1919.1	1904.9
20°	1979.7	2030.8	2094.4	2098.5	2122.3	2093.2	2020.1	1981.5	1925.7	1889.4	1877.5
22.5°	1890.0	1927.4	2000.5	2034.4	2063.5	2073.6	2027.3	1970.2	1900.7	1865.6	1858.5
25°	1842.5	1850.8	1872.8	1912.6	1976.7	2023.1	2029.6	1969.0	1932.8	1856.1	1815.7
27.5°	1825.2	1818.1	1809.2	1829.4	1877.5	1934.0	1971.4	1981.5	1891.2	1818.1	1777.7
30°	1781.3	1785.4	1771.8	1764.6	1796.1	1854.4	1920.9	1937.5	1868.0	1792.6	1746.2
32.5°	1727.2	1734.3	1736.7	1724.2	1717.7	1758.1	1830.0	1869.8	1866.2	1756.3	1704.6
35°	1659.5	1679.7	1685.0	1685.6	1674.9	1668.4	1710.0	1792.6	1824.1	1739.7	1664.8
37.5°	1588.2	1594.1	1623.2	1631.0	1631.0	1611.3	1642.2	1708.2	1752.2	1702.2	1616.1
40°	1499.0	1518.1	1545.4	1559.1	1572.7	1574.5	1557.3	1603.6	1676.1	1663.6	1570.3
42.5°	1434.3	1446.8	1463.4	1481.8	1509.7	1516.9	1499.0	1507.4	1582.8	1615.5	1510.9
45°	1358.8	1375.5	1380.2	1400.4	1429.5	1450.3	1449.7	1432.5	1493.1	1533.5	1467.6
47.5°	1281.6	1297.6	1305.9	1316.0	1337.4	1364.2	1379.0	1371.3	1383.2	1462.2	1409.9
50°	1202.0	1210.9	1227.5	1238.8	1253.1	1268.5	1304.2	1311.3	1294.7	1357.6	1346.4
52.5°	1126.5	1129.5	1140.8	1152.1	1171.1	1182.4	1210.9	1232.3	1231.1	1249.5	1275.6
55°	1067.7	1054.6	1057.0	1065.9	1078.4	1095.6	1111.7	1144.9	1156.2	1159.8	1201.4
57.5°	834.2	968.5	980.4	979.8	994.6	1002.3	1017.2	1039.2	1079.6	1070.7	1117.0
60°	758.1	773.0	885.3	898.4	903.7	910.8	928.7	948.9	978.6	997.6	1017.8
62.5°	578.1	668.4	702.3	801.5	817.0	821.1	833.0	842.5	873.4	916.8	908.5
65°	447.4	486.0	589.4	629.8	714.2	724.9	741.5	751.6	760.5	810.4	812.8
67.5°	386.8	392.7	420.7	498.5	552.0	634.6	644.7	653.6	667.2	702.9	724.9
70°	330.3	337.5	345.2	351.7	421.3	475.9	552.6	555.5	564.4	588.2	638.1
72.5°	62.4	282.2	287.0	291.1	298.9	335.1	408.2	467.6	471.2	482.5	528.2
75°	42.2	49.3	67.7	232.9	240.6	243.0	255.5	329.8	384.4	386.8	407.0
77.5°	30.3	33.9	41.0	48.7	124.2	186.6	189.5	203.2	259.6	300.6	304.2
80°	20.8	23.2	27.3	30.9	38.0	49.9	137.8	142.0	149.1	205.6	216.3
82.5°	11.9	13.7	16.0	19.6	22.6	28.5	36.8	47.5	96.8	103.4	137.2
85°	5.9	6.5	7.7	9.5	11.3	13.7	18.4	22.6	30.9	55.9	57.6
87.5°	3.0	3.0	3.0	3.0	4.8	5.3	6.5	8.3	10.7	16.0	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: P1213696

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7
2.5°	1973.8	1982.1	1989.2	1991.0	1991.0	1992.2	1994.0	1995.2	1996.4	1997.5	1996.4
5°	1970.2	1979.1	1985.1	1986.8	1986.8	1990.4	1993.4	1996.9	1998.7	1998.7	1997.5
7.5°	1961.3	1967.8	1975.6	1980.3	1980.9	1986.8	1992.2	1991.6	1994.0	1995.2	1998.1
10°	1949.4	1949.4	1962.5	1966.1	1969.0	1975.6	1977.3	1980.9	1989.2	1990.4	1998.1
12.5°	1943.5	1937.5	1953.0	1954.8	1964.9	1956.5	1967.2	1970.8	1962.5	1973.8	1958.9
15°	1916.7	1923.9	1921.5	1926.8	1944.7	1935.2	1964.3	1954.8	1976.2	1950.6	1995.8
17.5°	1894.8	1893.6	1903.1	1907.8	1911.4	1931.6	1939.3	1950.0	1958.3	1951.2	1969.0
20°	1878.7	1869.2	1876.3	1881.7	1894.2	1909.6	1914.4	1898.3	1926.2	1973.8	1985.1
22.5°	1848.4	1841.9	1850.2	1850.2	1869.2	1866.8	1884.7	1874.6	1900.7	1956.0	2013.6
25°	1807.4	1808.0	1816.9	1827.6	1831.2	1857.9	1867.4	1880.5	1913.2	1979.1	2014.2
27.5°	1765.8	1762.3	1767.6	1789.6	1808.0	1827.6	1830.6	1875.1	1919.7	1964.9	1995.8
30°	1724.2	1720.7	1724.2	1740.3	1762.3	1775.3	1808.0	1867.4	1909.0	1939.9	1969.0
32.5°	1679.7	1676.1	1684.4	1696.3	1734.9	1736.7	1801.5	1857.3	1890.0	1912.6	1907.2
35°	1632.1	1627.4	1635.1	1653.5	1689.2	1702.2	1770.0	1811.6	1848.4	1859.1	1834.2
37.5°	1575.1	1566.8	1576.3	1601.8	1639.3	1677.3	1733.7	1781.9	1801.5	1773.0	1743.2
40°	1515.7	1509.7	1526.4	1539.5	1583.4	1636.3	1701.1	1734.9	1722.5	1689.8	1657.1
42.5°	1462.8	1450.3	1465.2	1490.1	1540.0	1600.1	1652.3	1671.4	1641.6	1593.5	1555.5
45°	1398.0	1383.2	1401.0	1434.3	1487.8	1556.1	1597.1	1590.5	1540.0	1498.5	1446.2
47.5°	1330.3	1312.5	1330.3	1370.1	1430.1	1502.6	1532.3	1502.6	1439.0	1386.8	1344.6
50°	1263.8	1243.0	1260.2	1320.2	1379.0	1434.9	1434.3	1376.7	1338.6	1281.6	1244.8
52.5°	1197.8	1168.1	1185.3	1250.7	1309.5	1373.1	1326.2	1272.7	1226.9	1177.0	1165.1
55°	1116.4	1084.3	1107.5	1202.6	1247.7	1285.2	1210.3	1163.4	1118.2	1093.2	1078.4
57.5°	1039.2	1004.1	1024.3	1136.6	1169.9	1179.4	1110.5	1043.9	1017.2	1008.9	987.5
60°	959.6	919.7	938.8	1068.3	1091.5	1052.8	985.1	933.4	928.1	911.4	894.8
62.5°	883.5	839.5	851.4	983.3	994.0	923.9	861.5	847.9	834.8	818.1	809.2
65°	796.2	750.4	767.1	893.0	882.9	792.6	757.5	754.6	737.3	723.7	736.8
67.5°	716.0	661.9	685.1	794.4	748.6	675.0	660.7	653.6	639.9	647.6	510.4
70°	628.0	569.2	600.7	688.0	620.3	571.6	566.2	555.5	556.1	442.1	372.5
72.5°	530.0	478.9	524.6	571.6	490.8	476.5	468.8	467.6	377.3	306.6	289.4
75°	443.8	392.1	441.5	459.3	391.0	381.4	380.9	314.9	247.8	236.5	231.1
77.5°	346.4	306.6	353.5	326.8	300.0	289.4	259.6	194.9	186.6	178.8	67.1
80°	233.5	236.5	263.8	225.2	213.9	182.4	143.8	137.8	118.8	47.5	37.4
82.5°	142.0	178.2	168.1	140.8	137.8	99.2	90.9	46.3	34.5	27.3	23.8
85°	73.7	90.3	86.7	76.6	57.0	51.1	28.5	22.0	17.8	13.7	11.3
87.5°	25.0	33.3	32.1	25.5	19.6	15.4	10.1	8.3	5.9	4.8	4.2
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: P1213696

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7
2.5°	1995.2	1995.2	1994.0	1995.2	1995.8	1994.6	1994.6	1995.8	1996.4	1996.9	1999.9
5°	1998.1	1999.3	2001.1	2004.7	2005.3	2012.4	2015.4	2017.2	2018.9	2019.5	2015.4
7.5°	2004.7	2008.8	2012.4	2011.8	2007.6	1996.4	1992.8	1989.8	1995.2	2008.8	2024.9
10°	2010.6	1991.6	1956.0	2004.7	1989.8	2003.5	2043.9	2052.8	2080.1	2118.8	2130.0
12.5°	1969.6	2021.9	2033.2	1978.5	2079.5	2042.1	2086.7	2125.9	2137.2	2176.4	2152.6
15°	2013.6	2039.1	2056.4	2111.0	2105.1	2137.2	2149.6	2141.9	2143.7	2153.8	2180.5
17.5°	2013.0	2064.1	2075.4	2112.2	2137.2	2137.8	2134.2	2130.6	2140.1	2147.9	2131.8
20°	2047.5	2064.1	2086.1	2100.9	2105.7	2111.6	2122.9	2114.0	2096.2	2078.9	2071.8
22.5°	2030.2	2067.7	2086.7	2089.0	2086.1	2067.7	2051.0	2026.1	2017.7	2008.8	2011.8
25°	2033.8	2051.0	2048.6	2039.1	2026.7	1992.2	1983.9	1973.2	1957.1	1918.5	1883.5
27.5°	2008.2	1999.3	1988.6	1965.5	1942.9	1924.5	1903.7	1869.2	1840.7	1799.1	1783.6
30°	1965.5	1929.8	1903.7	1890.0	1868.0	1837.1	1805.6	1763.4	1727.2	1718.9	1711.2
32.5°	1883.5	1848.4	1827.0	1793.7	1756.3	1719.5	1683.2	1666.6	1658.9	1660.1	1652.9
35°	1799.7	1768.8	1736.7	1686.8	1658.9	1622.0	1609.0	1605.4	1598.3	1590.5	1582.2
37.5°	1710.6	1674.3	1626.2	1596.5	1568.6	1553.7	1547.2	1541.8	1529.4	1515.7	1506.2
40°	1624.4	1559.1	1532.3	1503.2	1494.9	1488.4	1478.8	1465.8	1448.5	1446.2	1442.0
42.5°	1509.1	1462.2	1439.0	1433.1	1423.0	1411.7	1403.4	1389.1	1382.0	1386.8	1390.3
45°	1399.8	1376.1	1368.3	1361.2	1342.2	1326.2	1320.8	1316.0	1322.0	1348.1	1285.7
47.5°	1311.3	1301.8	1292.3	1280.4	1262.6	1250.7	1256.0	1260.8	1266.1	1074.2	980.4
50°	1234.7	1221.6	1206.7	1193.7	1183.0	1181.8	1209.7	1125.9	942.9	938.2	843.1
52.5°	1150.9	1131.3	1122.4	1114.6	1119.4	1137.2	941.1	873.4	837.8	727.8	679.1
55°	1060.6	1043.3	1043.3	1050.5	1024.9	830.6	820.5	709.4	642.3	623.3	615.5
57.5°	970.3	968.5	978.6	894.8	754.0	723.1	607.8	583.5	572.8	570.4	557.9
60°	887.7	904.3	757.0	696.3	605.4	546.0	529.4	526.4	515.1	511.0	499.7
62.5°	821.7	681.5	634.6	518.1	487.8	480.1	471.2	467.0	456.9	403.4	118.2
65°	593.6	560.9	455.1	435.5	433.1	421.8	418.3	376.1	88.5	59.4	50.5
67.5°	448.0	397.5	383.8	380.3	369.0	346.4	102.8	58.8	50.5	44.0	38.6
70°	344.0	335.1	325.0	316.7	93.3	58.2	50.5	42.8	36.8	32.7	29.7
72.5°	281.6	275.7	160.4	61.2	49.9	42.2	37.4	32.7	28.5	26.1	23.8
75°	220.4	61.2	50.5	42.2	36.2	30.9	27.3	24.4	22.0	20.2	18.4
77.5°	49.9	40.4	34.5	29.1	26.1	23.2	20.8	17.8	16.0	14.3	11.9
80°	30.9	26.7	22.6	20.8	17.8	14.9	13.1	11.9	9.5	8.9	7.7
82.5°	20.2	16.0	14.3	11.9	9.5	8.9	7.7	5.9	5.3	4.8	4.2
85°	8.9	7.7	6.5	5.3	4.2	3.6	3.0	2.4	2.4	2.4	2.4
87.5°	3.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	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: P1213696

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7
2.5°	2001.1	2011.8	2021.9	2018.9	2008.2	1991.6	1986.8	1980.3	1985.1	1995.2	1999.3
5°	2015.4	2009.4	2030.8	2062.3	2113.4	2118.2	2153.8	2162.1	2190.6	2208.5	2207.9
7.5°	2035.6	2119.9	2155.0	2193.0	2210.3	2206.1	2211.4	2207.3	2200.7	2197.8	2194.2
10°	2138.4	2202.5	2215.6	2215.6	2188.9	2152.6	2137.2	2110.4	2057.0	2058.1	2049.2
12.5°	2198.4	2220.9	2190.0	2163.9	2056.4	2014.8	1969.6	1948.2	1935.8	1916.7	1923.9
15°	2166.9	2134.8	2116.4	2032.0	1966.1	1891.2	1892.4	1879.3	1865.6	1866.8	1857.9
17.5°	2120.5	2095.0	1964.3	1906.0	1874.0	1844.8	1839.5	1822.3	1813.4	1810.4	1809.8
20°	2057.0	1964.9	1867.4	1853.2	1814.5	1781.3	1775.9	1781.3	1808.6	1759.9	1594.7
22.5°	1982.7	1850.2	1821.7	1781.3	1755.1	1742.1	1774.7	1626.2	1401.6	1428.9	1399.8
25°	1856.7	1799.1	1750.4	1719.5	1716.5	1636.3	1363.6	1335.1	1190.7	1113.4	1026.7
27.5°	1764.6	1739.7	1688.6	1683.2	1644.6	1338.0	1196.0	1039.2	981.5	972.6	953.6
30°	1708.8	1673.1	1642.2	1507.4	1312.5	1077.2	959.6	937.6	927.5	916.8	900.1
32.5°	1641.6	1607.8	1622.6	1267.3	1046.3	927.5	903.7	887.7	869.2	862.1	802.1
35°	1573.3	1557.9	1267.9	1065.3	899.5	871.0	853.2	836.6	665.5	161.0	54.7
37.5°	1500.2	1496.7	1139.6	884.1	842.5	815.8	765.3	158.0	37.4	25.5	19.0
40°	1443.2	1140.2	900.7	828.8	795.0	752.8	105.8	26.1	16.6	10.1	6.5
42.5°	1405.2	1025.5	806.3	777.7	704.1	77.8	26.7	11.3	6.5	5.3	4.2
45°	1083.1	809.8	753.4	723.7	89.1	26.7	15.4	5.3	4.2	3.6	2.4
47.5°	999.4	735.6	702.3	158.0	29.7	14.3	10.7	3.6	2.4	2.4	2.4
50°	757.0	679.7	559.1	38.6	19.0	10.1	7.7	2.4	2.4	2.4	1.8
52.5°	663.7	627.4	60.0	25.5	14.9	7.7	4.8	1.8	1.8	1.8	1.8
55°	606.6	398.1	35.6	19.6	12.5	7.1	3.0	1.8	1.8	1.8	1.2
57.5°	554.9	53.5	26.1	16.6	11.3	6.5	1.8	1.8	1.8	1.8	1.2
60°	470.6	38.6	21.4	14.9	10.7	5.9	1.8	1.8	1.8	1.8	1.8
62.5°	61.2	30.3	18.4	13.1	7.7	4.8	1.2	1.8	1.8	1.8	1.8
65°	44.6	23.8	16.6	8.9	4.8	1.8	1.2	1.8	1.8	1.8	1.8
67.5°	34.5	19.6	12.5	7.7	4.2	1.2	1.2	1.8	1.8	1.8	1.8
70°	27.3	16.6	10.1	6.5	3.6	1.2	1.2	1.8	1.8	1.8	1.8
72.5°	21.4	11.9	7.1	3.6	2.4	1.2	1.2	1.8	1.8	1.8	1.8
75°	16.0	9.5	5.3	3.0	1.2	1.2	1.2	1.8	1.8	1.8	1.8
77.5°	10.7	5.9	4.2	2.4	2.4	2.4	3.0	3.0	1.8	1.8	1.8
80°	7.1	4.2	3.0	3.0	3.0	2.4	3.0	3.0	1.8	3.0	1.8
82.5°	3.6	3.0	3.0	2.4	2.4	1.8	2.4	2.4	2.4	2.4	1.8
85°	2.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	1.8
87.5°	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	2.4	2.4	1.8
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: P1213696

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7
2.5°	1994.0	1995.8	1991.0	2016.6	2003.5	2004.7	2010.0	1996.4	1999.3	1989.8	1983.3
5°	2210.3	2213.8	2217.4	2218.6	2220.9	2223.9	2220.4	2218.6	2215.0	2203.1	2190.6
7.5°	2176.4	2172.2	2170.4	2172.8	2177.0	2178.8	2175.8	2179.9	2195.4	2201.9	2206.1
10°	1998.1	1979.1	1992.2	1990.4	1975.6	2025.5	2011.8	2019.5	2024.9	2079.5	2112.8
12.5°	1913.2	1925.1	1902.5	1891.2	1906.0	1916.1	1926.2	1904.9	1934.6	1920.9	1964.9
15°	1841.9	1834.7	1832.4	1833.0	1830.0	1844.3	1847.8	1852.6	1856.7	1875.1	1882.3
17.5°	1809.8	1821.7	1826.4	1830.0	1824.1	1817.5	1811.0	1801.5	1804.4	1799.7	1813.4
20°	1483.6	1443.8	1441.4	1464.6	1439.0	1453.3	1487.8	1718.3	1710.6	1800.3	1770.0
22.5°	1238.2	1200.8	1168.7	1140.8	1180.6	1197.2	1261.4	1333.9	1451.5	1433.1	1560.8
25°	1011.2	997.6	989.3	985.1	988.1	986.9	1001.1	1035.0	1088.5	1214.4	1377.2
27.5°	945.9	939.4	936.4	926.9	934.0	931.6	942.9	950.1	966.1	978.6	1031.5
30°	894.2	886.5	881.1	871.0	878.2	878.8	882.3	900.7	907.3	918.0	934.6
32.5°	326.8	192.5	180.6	171.7	187.8	244.8	429.6	751.0	856.8	865.1	884.1
35°	32.1	26.7	23.8	23.8	24.4	26.7	35.6	93.9	171.7	663.7	830.6
37.5°	12.5	10.7	8.9	8.3	8.9	10.1	13.7	17.8	24.4	50.5	225.2
40°	5.3	4.8	4.2	4.2	4.2	4.2	4.8	5.9	8.9	16.6	26.1
42.5°	3.6	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.2	5.3	10.7
45°	2.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	3.0	4.8
47.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4
50°	1.8	1.8	1.8	1.8	1.2	1.8	1.2	1.8	1.8	1.8	1.8
52.5°	1.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8
55°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8
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	1.8	1.8	1.2
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	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°	1.8	1.8	1.2	1.8	1.2	1.2	1.8	1.8	1.8	1.2	1.2
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	2.4
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.0	3.6	3.0
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.0	3.0	3.0
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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: P1213696

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7
2.5°	1972.0	1971.4	1983.9	1993.4	1989.8	1993.4	1997.5	1998.1	1999.3	1994.6	1992.8
5°	2166.9	2148.5	2112.8	2087.3	2057.6	2003.5	1976.7	1979.7	1980.3	1978.5	1980.9
7.5°	2204.3	2202.5	2190.0	2184.7	2164.5	2125.9	2064.1	2053.4	2027.3	2010.6	1996.9
10°	2110.4	2153.2	2164.5	2183.5	2195.4	2188.3	2136.0	2128.3	2111.6	2092.6	2096.8
12.5°	2008.8	2043.9	2045.7	2149.1	2172.2	2174.6	2154.4	2165.1	2167.5	2124.7	2099.7
15°	1884.1	1900.7	1935.8	2032.0	2102.1	2146.1	2159.2	2165.1	2136.0	2134.2	2124.1
17.5°	1829.4	1840.1	1856.1	1910.2	2016.6	2081.3	2136.6	2132.4	2143.7	2135.4	2109.8
20°	1760.5	1769.4	1797.9	1825.2	1877.5	1963.7	2067.1	2074.8	2089.6	2087.9	2095.0
22.5°	1759.3	1727.8	1732.6	1753.9	1808.6	1885.8	1995.8	2021.3	2030.8	2037.4	2045.1
25°	1395.7	1645.8	1691.6	1705.2	1740.9	1786.0	1915.6	1925.1	1942.9	1972.0	1993.4
27.5°	1209.1	1379.0	1562.0	1657.1	1679.7	1717.1	1794.3	1808.6	1869.2	1876.3	1909.6
30°	954.2	1085.5	1358.8	1587.6	1625.0	1651.2	1705.8	1734.3	1760.5	1789.0	1824.1
32.5°	897.8	918.6	1070.1	1313.7	1604.8	1585.2	1625.6	1642.8	1671.4	1696.3	1721.9
35°	846.1	860.3	892.4	1076.0	1307.1	1531.1	1558.5	1569.8	1585.8	1604.8	1623.2
37.5°	792.0	813.4	835.4	884.7	1209.1	1488.4	1487.8	1500.8	1510.3	1526.4	1541.8
40°	143.8	746.9	782.5	814.6	937.6	1187.1	1421.2	1427.2	1433.7	1443.8	1459.8
42.5°	23.2	124.8	733.2	764.1	799.1	1062.9	1390.9	1366.6	1362.4	1369.5	1383.8
45°	11.9	30.3	147.4	713.6	745.1	847.9	1137.2	1324.4	1320.2	1306.5	1309.5
47.5°	8.9	19.0	36.2	246.6	697.5	727.8	1049.3	1038.0	1117.0	1268.5	1245.3
50°	7.7	13.1	21.4	50.5	616.1	670.2	808.0	944.1	985.7	991.0	1172.9
52.5°	7.1	8.9	15.4	32.7	129.5	619.7	657.1	704.7	774.8	925.1	921.5
55°	6.5	8.3	13.1	22.0	45.2	558.5	597.1	606.0	620.9	692.8	787.8
57.5°	3.6	7.7	12.5	19.0	33.9	102.2	541.9	549.0	560.9	563.9	597.7
60°	1.8	7.1	11.3	16.6	25.0	47.5	487.2	495.5	502.7	503.8	514.5
62.5°	1.2	6.5	9.5	15.4	20.8	33.9	115.3	235.3	447.4	447.4	459.9
65°	1.2	4.8	5.9	10.1	19.0	27.9	48.7	56.4	109.9	270.3	403.4
67.5°	1.2	1.8	5.3	8.3	14.3	21.4	35.6	41.6	49.9	57.0	105.8
70°	1.2	1.2	4.8	5.3	8.9	16.0	25.5	29.1	33.9	38.6	44.6
72.5°	1.2	1.2	4.2	4.2	5.9	10.7	19.6	21.4	24.4	27.3	31.5
75°	3.0	2.4	3.6	3.6	4.2	8.3	14.9	16.6	17.8	20.2	23.2
77.5°	3.0	3.0	3.0	3.0	3.0	5.3	9.5	10.7	12.5	13.7	16.0
80°	2.4	2.4	2.4	3.0	3.0	3.6	5.9	6.5	7.1	8.9	9.5
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	4.2	5.3
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4	2.4
87.5°	1.8	1.8	1.8	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8
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: P1213696

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7
2.5°	1992.2	1988.6	1985.7	1987.4	1982.1	1979.7	1981.5	1982.1	1983.3	1986.3	1986.8
5°	1986.8	1985.7	1991.0	1994.0	1992.8	1994.0	1994.0	1991.6	1988.0	1990.4	1985.1
7.5°	1983.3	1975.6	1969.6	1970.8	1964.9	1972.0	1978.5	1988.0	1991.0	1991.0	1985.1
10°	2044.5	2036.2	2002.9	1980.3	1965.5	1952.4	1983.3	1951.8	1966.6	1910.2	1975.0
12.5°	2095.0	2106.3	2091.4	2029.6	2018.9	1979.7	2002.3	1963.7	1952.4	1887.6	1908.4
15°	2115.2	2093.8	2089.0	2071.8	2048.6	2037.4	1976.7	1970.2	1951.8	1958.9	1931.6
17.5°	2097.4	2108.1	2093.8	2082.5	2058.7	2032.0	1995.8	1963.7	1938.1	1881.1	1929.2
20°	2080.1	2094.4	2051.6	2058.7	2061.1	2030.2	2011.2	1984.5	1952.4	1898.9	1857.3
22.5°	2051.6	2041.5	2045.1	2034.4	2025.5	2029.6	2003.5	1985.1	1931.0	1906.6	1850.2
25°	2005.3	2001.7	2011.2	2010.0	1988.6	1981.5	1968.4	1948.8	1927.4	1888.2	1841.9
27.5°	1929.8	1948.2	1964.9	1972.6	1961.3	1942.3	1935.2	1923.9	1909.0	1869.2	1834.7
30°	1850.2	1871.0	1890.0	1906.6	1916.7	1908.4	1901.9	1895.3	1872.8	1846.6	1808.0
32.5°	1759.3	1786.6	1812.8	1833.0	1854.9	1861.5	1856.7	1851.4	1832.4	1808.6	1777.7
35°	1654.1	1691.6	1729.6	1765.8	1775.3	1790.8	1806.2	1797.3	1787.2	1763.4	1734.9
37.5°	1565.0	1591.7	1619.1	1664.8	1698.1	1717.7	1745.0	1748.6	1731.4	1720.1	1682.6
40°	1472.9	1497.3	1537.1	1563.8	1609.6	1632.1	1661.3	1674.3	1670.2	1663.6	1631.0
42.5°	1400.4	1412.3	1438.4	1462.2	1507.4	1553.7	1579.3	1593.5	1608.4	1603.0	1586.4
45°	1323.2	1333.9	1342.8	1363.6	1407.5	1448.5	1480.0	1501.4	1528.2	1540.6	1520.4
47.5°	1246.5	1249.5	1260.2	1277.4	1303.6	1335.1	1387.9	1420.0	1445.0	1469.3	1456.3
50°	1187.7	1177.0	1178.8	1189.5	1210.9	1241.8	1279.8	1325.0	1353.5	1383.2	1386.2
52.5°	1038.0	1124.7	1103.9	1109.9	1121.2	1136.0	1175.8	1220.4	1255.4	1281.0	1306.5
55°	871.0	888.3	1055.2	1031.5	1038.6	1051.7	1070.1	1114.6	1148.5	1184.1	1219.8
57.5°	675.6	803.9	810.4	964.9	961.3	962.5	978.0	1003.5	1037.4	1082.0	1112.3
60°	525.2	579.3	684.5	737.9	873.4	878.2	887.1	901.9	931.0	973.2	1021.3
62.5°	463.4	470.6	508.0	588.2	676.1	782.5	801.5	803.9	817.0	859.1	915.0
65°	407.0	411.7	423.0	431.4	505.0	607.8	699.3	714.2	722.5	747.4	795.0
67.5°	280.4	354.7	364.8	370.8	377.9	425.4	538.9	614.4	623.9	645.8	687.4
70°	54.1	112.3	307.2	313.7	317.3	328.0	346.4	466.4	529.4	550.2	569.2
72.5°	36.8	43.4	52.3	123.6	261.4	267.4	271.5	287.0	393.3	453.9	464.0
75°	26.7	29.7	35.1	43.4	53.5	174.1	215.7	223.4	231.1	319.1	370.2
77.5°	19.0	21.4	23.8	27.9	32.7	42.2	60.6	167.0	174.7	178.8	252.5
80°	10.7	13.1	16.0	18.4	20.8	23.8	30.9	38.6	86.2	126.0	132.5
82.5°	5.9	7.1	8.3	10.1	11.3	14.3	17.2	20.8	27.3	40.4	85.6
85°	3.0	3.0	3.0	4.2	4.8	6.5	7.7	8.9	12.5	17.2	23.8
87.5°	1.8	1.8	2.4	2.4	2.4	3.0	3.0	3.0	3.6	5.3	7.7
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: P1213696

CATALOG NUMBER: 2SNLED-LD5-32HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1979.7	1979.7	1979.7	1979.7	1979.7
2.5°	1987.4	1985.7	1985.7	1992.8	1991.0
5°	1983.9	1982.1	1981.5	1989.2	1985.7
7.5°	1980.9	1974.4	1972.6	1979.7	1976.7
10°	1969.0	1964.3	1967.2	1964.9	1963.7
12.5°	1948.8	1945.9	1933.4	1934.6	1944.7
15°	1912.6	1924.5	1903.1	1922.1	1926.2
17.5°	1846.0	1872.8	1893.6	1904.9	1906.6
20°	1875.7	1884.7	1874.0	1874.6	1881.7
22.5°	1837.1	1841.3	1844.3	1840.7	1856.1
25°	1775.3	1759.3	1793.7	1800.9	1825.8
27.5°	1756.3	1743.2	1759.3	1758.1	1778.9
30°	1740.9	1698.7	1705.8	1717.1	1742.7
32.5°	1718.9	1652.3	1645.2	1670.2	1698.7
35°	1680.3	1617.3	1600.6	1616.7	1659.5
37.5°	1647.6	1568.6	1535.3	1556.7	1612.5
40°	1598.9	1530.5	1478.8	1497.9	1563.8
42.5°	1540.6	1497.9	1418.2	1431.3	1506.8
45°	1481.8	1443.8	1359.4	1366.0	1455.7
47.5°	1421.8	1386.8	1298.2	1299.4	1390.3
50°	1363.0	1316.6	1243.6	1222.8	1320.8
52.5°	1286.3	1243.6	1188.3	1154.4	1254.9
55°	1213.9	1165.7	1125.3	1073.0	1180.0
57.5°	1143.2	1089.7	1062.3	995.2	1095.0
60°	1046.3	1020.8	980.4	916.2	1018.4
62.5°	947.1	938.8	897.8	831.2	923.9
65°	831.2	850.8	808.6	751.6	825.9
67.5°	721.9	757.0	710.6	675.6	731.4
70°	605.4	645.8	619.7	607.2	631.0
72.5°	490.8	530.0	532.4	523.4	531.2
75°	379.1	422.4	446.2	432.5	434.3
77.5°	287.6	308.4	334.5	345.2	342.8
80°	177.7	213.9	235.3	257.3	249.5
82.5°	89.7	120.0	146.2	169.9	158.6
85°	37.4	48.1	67.1	88.5	85.0
87.5°	11.3	19.0	20.2	28.5	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)