

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: P1213121

Luminaire Tested: 4SNLED-LD5-56HL-RW-UNV-L930-CD1-U

Issue Date: 3/29/2018

**Test Information**

Test Method: LM-79-2019  
Report Number: P1213121  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)  
Test Lab: INNOVATIONS CENTER-P3  
Issue Date: 3/29/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-56HL-RW-UNV-L930-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
WHITE REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

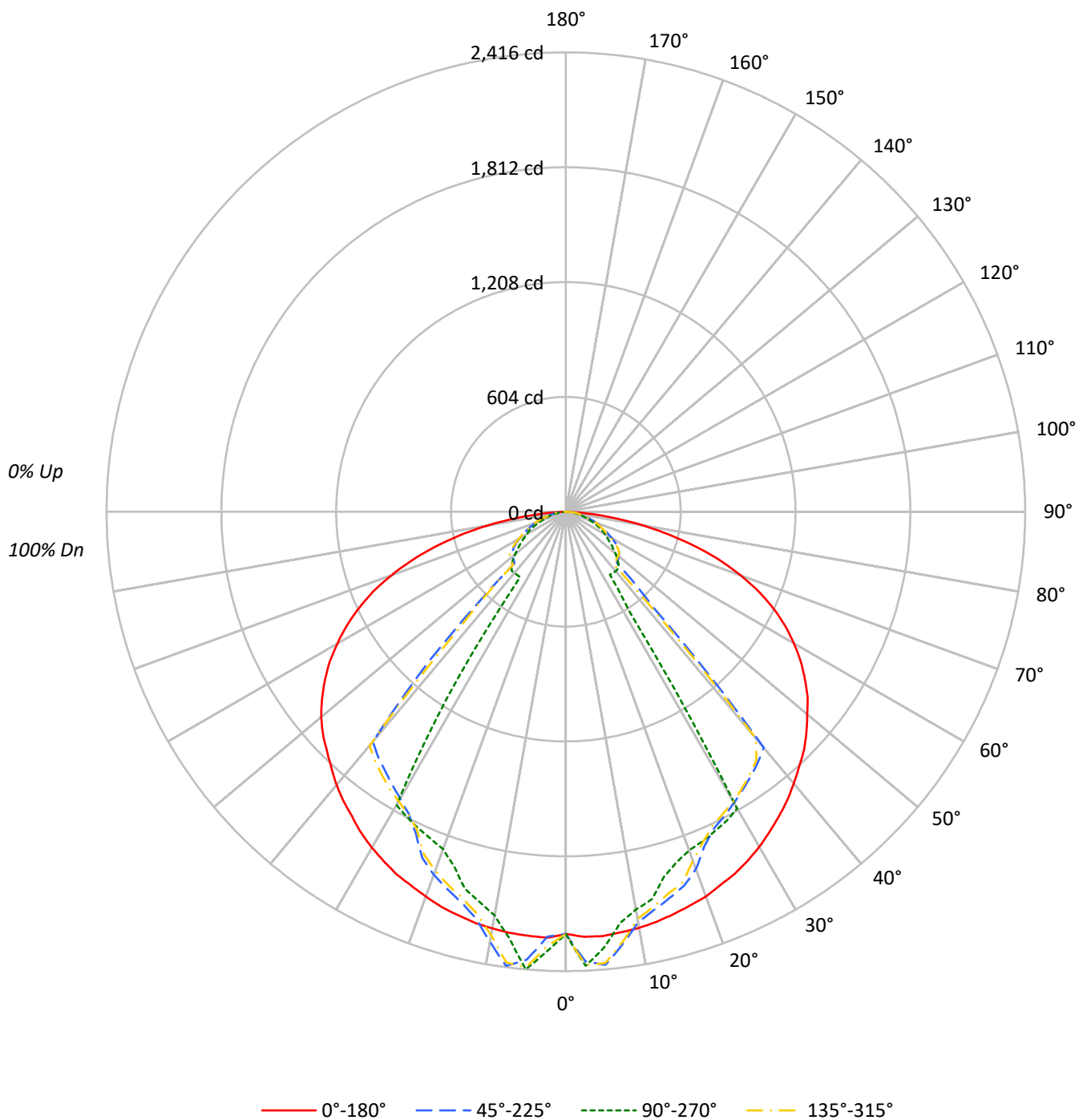
Lumens per Lamp: N/A  
Luminaire Lumens: 4446.0 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 48  
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: P1213121

CATALOG NUMBER: 4SNLED-LD5-56HL-RW-UNV-L930-CD1-U

### Luminous Intensity Polar Plot



TEST NUMBER: P1213121

CATALOG NUMBER: 4SNLED-LD5-56HL-RW-UNV-L930-CD1-U

**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   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 94  | 96  | 94  | 92  | 92  | 91  | 89  | 87  |    |    |
| 2   | 102 | 94  | 88  | 83  | 99  | 93  | 87  | 82  | 89  | 85  | 81  | 86  | 82  | 79  | 83  | 80  | 77  | 75  |    |    |
| 3   | 94  | 84  | 77  | 72  | 91  | 83  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 75  | 71  | 67  | 65  |    |    |
| 4   | 87  | 76  | 68  | 62  | 85  | 75  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 60  | 68  | 63  | 59  | 57  |    |    |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 60  | 55  | 66  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 53  | 51  |    |    |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 54  | 49  | 60  | 53  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 46  |    |    |
| 7   | 70  | 58  | 50  | 44  | 68  | 57  | 49  | 44  | 55  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |
| 8   | 66  | 53  | 45  | 40  | 64  | 52  | 45  | 40  | 51  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |
| 9   | 62  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |    |    |
| 10  | 58  | 46  | 38  | 33  | 57  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 42  | 37  | 33  | 31  |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 17941 | 17941 | 17941 | 17941 |
| 5°  | 18118 | 18077 | 18109 | 18972 |
| 10° | 18136 | 16344 | 18160 | 16594 |
| 15° | 18175 | 15121 | 18218 | 15601 |
| 20° | 18308 | 14342 | 18308 | 14288 |
| 25° | 18466 | 14068 | 18492 | 13936 |
| 30° | 18652 | 13820 | 18699 | 13656 |
| 35° | 18869 | 3147  | 18909 | 3283  |
| 40° | 19172 | 3273  | 19287 | 3380  |
| 45° | 19632 | 3255  | 19699 | 3374  |
| 50° | 20090 | 2943  | 20361 | 3023  |
| 55° | 20708 | 2613  | 20872 | 2651  |
| 60° | 21232 | 2322  | 21280 | 2352  |
| 65° | 21608 | 2027  | 21553 | 1994  |
| 70° | 21298 | 1633  | 21233 | 1574  |
| 75° | 19774 | 1258  | 19917 | 1204  |
| 80° | 16049 | 892   | 16694 | 817   |
| 85° | 8690  | 535   | 9175  | 410   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 21756 cd/sqm

TEST NUMBER: P1213121

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 218.4  | 4.9       |
| 10°-20°   | 600.6  | 13.5      |
| 20°-30°   | 889.6  | 20.0      |
| 30°-40°   | 896.4  | 20.2      |
| 40°-50°   | 700.2  | 15.7      |
| 50°-60°   | 540.9  | 12.2      |
| 60°-70°   | 363.1  | 8.2       |
| 70°-80°   | 185.2  | 4.2       |
| 80°-90°   | 51.5   | 1.2       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1708.7 | 38.4      |
| 0°-40°    | 2605.0 | 58.6      |
| 0°-60°    | 3846.1 | 86.5      |
| 0°-90°    | 4446.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4446.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2220 | 2220 | 2220 | 2220 | 2220 |      |
| 5°  | 2240 | 2302 | 2238 | 2416 | 2240 | 213  |
| 15° | 2191 | 1989 | 2196 | 2052 | 2191 | 620  |
| 25° | 2101 | 1854 | 2104 | 1837 | 2101 | 969  |
| 35° | 1955 | 403  | 1959 | 420  | 1955 | 1225 |
| 45° | 1772 | 392  | 1778 | 406  | 1772 | 1366 |
| 55° | 1535 | 285  | 1548 | 289  | 1535 | 1371 |
| 65° | 1206 | 191  | 1203 | 188  | 1206 | 1186 |
| 75° | 707  | 97   | 712  | 93   | 707  | 740  |
| 85° | 127  | 30   | 134  | 23   | 127  | 175  |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5°  | 25°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 |
| 2.5°  | 2237.5 | 2245.7 | 2251.8 | 2255.8 | 2257.9 | 2257.9 | 2258.9 | 2259.9 | 2273.1 | 2279.2 | 2283.3 |
| 5°    | 2239.6 | 2247.7 | 2259.9 | 2276.2 | 2290.4 | 2302.6 | 2312.8 | 2327.1 | 2341.3 | 2356.6 | 2361.7 |
| 7.5°  | 2230.4 | 2240.6 | 2265.0 | 2294.5 | 2322.0 | 2341.3 | 2354.5 | 2363.7 | 2370.8 | 2371.8 | 2376.9 |
| 10°   | 2222.3 | 2240.6 | 2274.1 | 2312.8 | 2347.4 | 2370.8 | 2370.8 | 2365.7 | 2372.8 | 2345.4 | 2317.9 |
| 12.5° | 2208.0 | 2228.4 | 2274.1 | 2325.0 | 2357.6 | 2366.7 | 2362.7 | 2342.3 | 2300.6 | 2267.0 | 2251.8 |
| 15°   | 2190.7 | 2218.2 | 2275.2 | 2332.1 | 2359.6 | 2362.7 | 2324.0 | 2272.1 | 2240.6 | 2220.2 | 2194.8 |
| 17.5° | 2171.4 | 2208.0 | 2276.2 | 2333.2 | 2343.3 | 2329.1 | 2255.8 | 2223.3 | 2190.7 | 2142.9 | 2108.3 |
| 20°   | 2153.1 | 2188.7 | 2268.0 | 2318.9 | 2325.0 | 2260.9 | 2203.9 | 2169.3 | 2114.4 | 2072.7 | 2057.4 |
| 22.5° | 2124.6 | 2166.3 | 2260.9 | 2299.6 | 2276.2 | 2201.9 | 2147.0 | 2092.0 | 2042.2 | 2029.9 | 2011.6 |
| 25°   | 2101.2 | 2144.9 | 2244.6 | 2276.2 | 2214.1 | 2148.0 | 2083.9 | 2019.8 | 1996.4 | 1979.1 | 1962.8 |
| 27.5° | 2069.6 | 2123.6 | 2223.3 | 2233.4 | 2148.0 | 2090.0 | 1996.4 | 1967.9 | 1946.5 | 1927.2 | 1920.1 |
| 30°   | 2035.0 | 2101.2 | 2193.8 | 2174.4 | 2093.0 | 2007.6 | 1938.4 | 1911.9 | 1896.6 | 1876.3 | 1868.2 |
| 32.5° | 1995.3 | 2067.6 | 2161.2 | 2106.3 | 2034.0 | 1927.2 | 1882.4 | 1862.1 | 1841.7 | 1826.4 | 1775.6 |
| 35°   | 1954.6 | 2038.1 | 2122.5 | 2041.1 | 1962.8 | 1866.1 | 1826.4 | 1808.1 | 1788.8 | 1732.8 | 1679.9 |
| 37.5° | 1912.9 | 2005.5 | 2075.7 | 1970.9 | 1868.2 | 1803.0 | 1769.5 | 1749.1 | 1705.4 | 1634.1 | 1607.7 |
| 40°   | 1865.1 | 1965.8 | 2015.7 | 1898.7 | 1785.7 | 1738.9 | 1707.4 | 1687.0 | 1588.3 | 1556.8 | 1548.7 |
| 42.5° | 1817.3 | 1927.2 | 1942.4 | 1828.5 | 1717.6 | 1670.8 | 1644.3 | 1577.1 | 1510.0 | 1493.7 | 1496.8 |
| 45°   | 1771.5 | 1885.5 | 1862.1 | 1728.8 | 1646.3 | 1607.7 | 1562.9 | 1470.3 | 1434.7 | 1442.8 | 1444.9 |
| 47.5° | 1716.5 | 1835.6 | 1777.6 | 1629.0 | 1573.1 | 1534.4 | 1434.7 | 1378.7 | 1373.6 | 1384.8 | 1390.9 |
| 50°   | 1657.5 | 1779.6 | 1688.1 | 1538.5 | 1493.7 | 1447.9 | 1335.0 | 1306.5 | 1312.6 | 1323.8 | 1330.9 |
| 52.5° | 1602.6 | 1716.5 | 1595.5 | 1454.0 | 1415.4 | 1310.6 | 1234.2 | 1239.3 | 1249.5 | 1262.7 | 1266.8 |
| 55°   | 1535.4 | 1640.2 | 1496.8 | 1368.6 | 1331.9 | 1194.6 | 1160.0 | 1172.2 | 1182.4 | 1193.5 | 1201.7 |
| 57.5° | 1465.2 | 1552.7 | 1379.8 | 1272.9 | 1213.9 | 1091.8 | 1094.8 | 1103.0 | 1110.1 | 1123.3 | 464.0  |
| 60°   | 1384.8 | 1453.0 | 1251.5 | 1184.4 | 1067.4 | 1010.4 | 1013.4 | 1027.7 | 1034.8 | 577.9  | 319.5  |
| 62.5° | 1301.4 | 1337.0 | 1135.5 | 1083.7 | 933.1  | 929.0  | 943.2  | 949.3  | 646.1  | 305.3  | 299.1  |
| 65°   | 1205.8 | 1198.6 | 1021.6 | 939.2  | 841.5  | 845.6  | 860.8  | 830.3  | 285.9  | 285.9  | 283.9  |
| 67.5° | 1099.9 | 1057.2 | 910.7  | 777.4  | 753.0  | 762.1  | 778.4  | 271.7  | 264.6  | 266.6  | 259.5  |
| 70°   | 978.8  | 918.8  | 795.7  | 658.3  | 666.5  | 675.6  | 262.5  | 246.2  | 243.2  | 238.1  | 223.9  |
| 72.5° | 850.6  | 768.2  | 651.2  | 571.8  | 576.9  | 362.2  | 230.0  | 221.8  | 211.6  | 201.5  | 186.2  |
| 75°   | 707.2  | 600.3  | 478.2  | 478.2  | 485.4  | 206.6  | 200.5  | 187.2  | 176.0  | 162.8  | 153.6  |
| 77.5° | 554.5  | 462.0  | 371.4  | 385.6  | 188.2  | 173.0  | 161.8  | 147.5  | 138.4  | 130.2  | 125.2  |
| 80°   | 406.0  | 322.6  | 279.8  | 250.3  | 146.5  | 131.3  | 120.1  | 111.9  | 107.9  | 102.8  | 96.7   |
| 82.5° | 266.6  | 194.3  | 194.3  | 118.0  | 102.8  | 90.6   | 87.5   | 81.4   | 77.3   | 74.3   | 71.2   |
| 85°   | 127.2  | 112.9  | 85.5   | 72.2   | 64.1   | 58.0   | 56.0   | 52.9   | 52.9   | 51.9   | 50.9   |
| 87.5° | 46.8   | 50.9   | 37.6   | 36.6   | 34.6   | 33.6   | 34.6   | 34.6   | 35.6   | 34.6   | 33.6   |
| 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):**

|       | 27.5°  | 30°    | 32.5°  | 35°    | 37.5°  | 40°    | 42.5°  | 45°    | 47.5°  | 50°    | 52.5°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 |
| 2.5°  | 2293.5 | 2301.6 | 2307.7 | 2317.9 | 2331.1 | 2342.3 | 2352.5 | 2366.7 | 2389.1 | 2395.2 | 2400.3 |
| 5°    | 2361.7 | 2364.7 | 2371.8 | 2380.0 | 2382.0 | 2387.1 | 2386.1 | 2392.2 | 2395.2 | 2402.4 | 2387.1 |
| 7.5°  | 2365.7 | 2349.4 | 2330.1 | 2312.8 | 2300.6 | 2289.4 | 2282.3 | 2293.5 | 2299.6 | 2304.7 | 2289.4 |
| 10°   | 2280.3 | 2260.9 | 2249.7 | 2239.6 | 2227.3 | 2210.0 | 2186.6 | 2191.7 | 2189.7 | 2189.7 | 2184.6 |
| 12.5° | 2226.3 | 2198.9 | 2170.4 | 2144.9 | 2133.7 | 2132.7 | 2133.7 | 2144.9 | 2144.9 | 2143.9 | 2137.8 |
| 15°   | 2141.9 | 2115.4 | 2101.2 | 2095.1 | 2095.1 | 2092.0 | 2092.0 | 2104.2 | 2101.2 | 2101.2 | 2098.1 |
| 17.5° | 2085.9 | 2067.6 | 2057.4 | 2050.3 | 2047.2 | 2052.3 | 2058.4 | 2063.5 | 2064.5 | 2060.5 | 2044.2 |
| 20°   | 2040.1 | 2022.8 | 2010.6 | 2012.6 | 2011.6 | 2014.7 | 2017.7 | 2000.4 | 1979.1 | 1950.6 | 1937.3 |
| 22.5° | 1992.3 | 1979.1 | 1969.9 | 1969.9 | 1957.7 | 1938.4 | 1909.9 | 1903.8 | 1900.7 | 1887.5 | 1876.3 |
| 25°   | 1946.5 | 1931.2 | 1918.0 | 1877.3 | 1851.9 | 1854.9 | 1849.8 | 1839.7 | 1838.6 | 1837.6 | 1841.7 |
| 27.5° | 1900.7 | 1861.0 | 1810.2 | 1804.1 | 1793.9 | 1792.9 | 1799.0 | 1804.1 | 1804.1 | 1808.1 | 1813.2 |
| 30°   | 1806.1 | 1760.3 | 1751.1 | 1740.0 | 1744.0 | 1758.3 | 1761.3 | 1768.4 | 1770.5 | 1777.6 | 1781.7 |
| 32.5° | 1719.6 | 1699.3 | 1691.1 | 1696.2 | 1709.4 | 1721.6 | 1728.8 | 1731.8 | 1736.9 | 1743.0 | 1748.1 |
| 35°   | 1649.4 | 1643.3 | 1650.4 | 1661.6 | 1674.8 | 1685.0 | 1691.1 | 1697.2 | 1702.3 | 1707.4 | 1711.5 |
| 37.5° | 1597.5 | 1601.6 | 1611.7 | 1626.0 | 1639.2 | 1647.4 | 1652.4 | 1659.6 | 1666.7 | 1672.8 | 1648.4 |
| 40°   | 1548.7 | 1558.8 | 1570.0 | 1585.3 | 1596.5 | 1604.6 | 1609.7 | 1618.9 | 1557.8 | 705.1  | 386.7  |
| 42.5° | 1505.9 | 1517.1 | 1525.3 | 1537.5 | 1549.7 | 1555.8 | 1511.0 | 674.6  | 381.6  | 379.5  | 384.6  |
| 45°   | 1454.0 | 1463.2 | 1476.4 | 1485.6 | 1496.8 | 982.9  | 375.5  | 379.5  | 373.4  | 377.5  | 379.5  |
| 47.5° | 1401.1 | 1415.4 | 1422.5 | 1357.4 | 404.0  | 373.4  | 369.4  | 373.4  | 369.4  | 374.4  | 371.4  |
| 50°   | 1341.1 | 1358.4 | 966.6  | 365.3  | 362.2  | 360.2  | 364.3  | 362.2  | 365.3  | 369.4  | 361.2  |
| 52.5° | 1280.0 | 792.6  | 354.1  | 352.1  | 354.1  | 352.1  | 359.2  | 354.1  | 355.1  | 351.0  | 340.9  |
| 55°   | 433.5  | 342.9  | 339.9  | 338.8  | 344.9  | 344.9  | 344.9  | 336.8  | 331.7  | 321.5  | 314.4  |
| 57.5° | 331.7  | 331.7  | 330.7  | 331.7  | 329.7  | 327.6  | 318.5  | 311.4  | 304.2  | 290.0  | 285.9  |
| 60°   | 314.4  | 314.4  | 314.4  | 314.4  | 305.3  | 301.2  | 286.9  | 280.8  | 268.6  | 261.5  | 257.4  |
| 62.5° | 300.2  | 298.1  | 289.0  | 285.9  | 275.7  | 264.6  | 256.4  | 250.3  | 238.1  | 234.0  | 231.0  |
| 65°   | 279.8  | 272.7  | 261.5  | 249.3  | 244.2  | 232.0  | 227.9  | 218.8  | 212.7  | 209.6  | 207.6  |
| 67.5° | 246.2  | 236.1  | 226.9  | 218.8  | 209.6  | 205.5  | 200.5  | 193.3  | 189.3  | 187.2  | 185.2  |
| 70°   | 210.6  | 203.5  | 194.3  | 189.3  | 183.2  | 180.1  | 173.0  | 170.9  | 167.9  | 164.8  | 161.8  |
| 72.5° | 176.0  | 172.0  | 167.9  | 160.8  | 158.7  | 156.7  | 149.6  | 145.5  | 141.4  | 137.4  | 135.3  |
| 75°   | 147.5  | 144.5  | 142.5  | 136.3  | 133.3  | 127.2  | 122.1  | 119.0  | 116.0  | 112.9  | 110.9  |
| 77.5° | 121.1  | 119.0  | 112.9  | 108.9  | 106.8  | 101.8  | 99.7   | 100.7  | 98.7   | 94.6   | 92.6   |
| 80°   | 94.6   | 92.6   | 87.5   | 87.5   | 85.5   | 83.4   | 81.4   | 79.4   | 77.3   | 74.3   | 72.2   |
| 82.5° | 72.2   | 70.2   | 68.2   | 66.1   | 64.1   | 63.1   | 62.1   | 60.0   | 58.0   | 56.0   | 54.9   |
| 85°   | 50.9   | 49.9   | 48.8   | 47.8   | 46.8   | 45.8   | 44.8   | 42.7   | 40.7   | 39.7   | 38.7   |
| 87.5° | 34.6   | 33.6   | 32.6   | 31.5   | 30.5   | 29.5   | 28.5   | 27.5   | 25.4   | 24.4   | 23.4   |
| 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):**

|       | 55°    | 57.5°  | 60°    | 62.5°  | 65°    | 67.5°  | 70°    | 72.5°  | 75°    | 77.5°  | 80°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 |
| 2.5°  | 2400.3 | 2405.4 | 2400.3 | 2389.1 | 2382.0 | 2379.0 | 2385.1 | 2385.1 | 2389.1 | 2394.2 | 2395.2 |
| 5°    | 2362.7 | 2350.5 | 2336.2 | 2322.0 | 2314.8 | 2310.8 | 2299.6 | 2301.6 | 2304.7 | 2306.7 | 2308.7 |
| 7.5°  | 2269.1 | 2252.8 | 2233.4 | 2215.1 | 2208.0 | 2201.9 | 2188.7 | 2188.7 | 2188.7 | 2189.7 | 2195.8 |
| 10°   | 2173.4 | 2166.3 | 2158.1 | 2145.9 | 2136.8 | 2133.7 | 2122.5 | 2125.6 | 2123.6 | 2126.6 | 2133.7 |
| 12.5° | 2128.6 | 2120.5 | 2113.4 | 2101.2 | 2091.0 | 2086.9 | 2081.8 | 2084.9 | 2083.9 | 2089.0 | 2095.1 |
| 15°   | 2087.9 | 2083.9 | 2075.7 | 2066.6 | 2057.4 | 2049.3 | 2031.0 | 2024.9 | 2020.8 | 2015.7 | 2022.8 |
| 17.5° | 2020.8 | 1992.3 | 1973.0 | 1958.7 | 1948.5 | 1941.4 | 1936.3 | 1936.3 | 1939.4 | 1942.4 | 1948.5 |
| 20°   | 1929.2 | 1921.1 | 1911.9 | 1896.6 | 1886.5 | 1882.4 | 1879.4 | 1879.4 | 1884.4 | 1888.5 | 1899.7 |
| 22.5° | 1866.1 | 1865.1 | 1862.1 | 1854.9 | 1849.8 | 1849.8 | 1850.9 | 1852.9 | 1860.0 | 1866.1 | 1877.3 |
| 25°   | 1836.6 | 1840.7 | 1838.6 | 1834.6 | 1831.5 | 1832.5 | 1830.5 | 1832.5 | 1839.7 | 1845.8 | 1854.9 |
| 27.5° | 1813.2 | 1819.3 | 1817.3 | 1811.2 | 1806.1 | 1808.1 | 1811.2 | 1809.1 | 1815.2 | 1822.4 | 1829.5 |
| 30°   | 1781.7 | 1782.7 | 1786.8 | 1779.6 | 1777.6 | 1780.7 | 1781.7 | 1783.7 | 1789.8 | 1794.9 | 1801.0 |
| 32.5° | 1746.1 | 1754.2 | 1753.2 | 1746.1 | 1746.1 | 1749.1 | 1750.1 | 1682.0 | 1554.8 | 1339.0 | 1280.0 |
| 35°   | 1711.5 | 1720.6 | 1705.4 | 1437.7 | 995.1  | 531.1  | 410.1  | 395.8  | 398.9  | 400.9  | 402.9  |
| 37.5° | 1265.8 | 600.3  | 382.6  | 385.6  | 388.7  | 391.7  | 394.8  | 397.8  | 400.9  | 404.0  | 405.0  |
| 40°   | 380.6  | 379.5  | 382.6  | 386.7  | 389.7  | 391.7  | 395.8  | 398.9  | 401.9  | 405.0  | 406.0  |
| 42.5° | 376.5  | 378.5  | 381.6  | 385.6  | 389.7  | 393.8  | 396.8  | 400.9  | 402.9  | 405.0  | 406.0  |
| 45°   | 374.4  | 378.5  | 382.6  | 385.6  | 388.7  | 390.7  | 392.8  | 393.8  | 392.8  | 392.8  | 394.8  |
| 47.5° | 371.4  | 375.5  | 376.5  | 375.5  | 376.5  | 375.5  | 375.5  | 375.5  | 372.4  | 371.4  | 371.4  |
| 50°   | 360.2  | 360.2  | 358.2  | 354.1  | 353.1  | 352.1  | 350.0  | 349.0  | 344.9  | 343.9  | 343.9  |
| 52.5° | 336.8  | 335.8  | 332.7  | 327.6  | 325.6  | 323.6  | 322.6  | 321.5  | 317.5  | 315.4  | 316.4  |
| 55°   | 309.3  | 307.3  | 304.2  | 298.1  | 297.1  | 295.1  | 294.1  | 293.0  | 289.0  | 291.0  | 288.0  |
| 57.5° | 283.9  | 279.8  | 275.7  | 274.7  | 270.7  | 269.6  | 268.6  | 267.6  | 264.6  | 265.6  | 263.5  |
| 60°   | 253.4  | 252.3  | 250.3  | 246.2  | 246.2  | 245.2  | 245.2  | 243.2  | 241.2  | 240.1  | 240.1  |
| 62.5° | 231.0  | 227.9  | 225.9  | 225.9  | 222.8  | 222.8  | 222.8  | 220.8  | 218.8  | 219.8  | 218.8  |
| 65°   | 206.6  | 205.5  | 204.5  | 202.5  | 202.5  | 201.5  | 201.5  | 199.4  | 196.4  | 197.4  | 195.4  |
| 67.5° | 186.2  | 184.2  | 182.1  | 181.1  | 177.0  | 175.0  | 174.0  | 173.0  | 168.9  | 169.9  | 167.9  |
| 70°   | 160.8  | 157.7  | 155.7  | 153.6  | 150.6  | 148.6  | 148.6  | 146.5  | 143.5  | 144.5  | 142.5  |
| 72.5° | 134.3  | 132.3  | 130.2  | 129.2  | 126.2  | 125.2  | 124.1  | 123.1  | 120.1  | 121.1  | 120.1  |
| 75°   | 111.9  | 111.9  | 110.9  | 109.9  | 106.8  | 103.8  | 101.8  | 100.7  | 98.7   | 99.7   | 97.7   |
| 77.5° | 92.6   | 90.6   | 88.5   | 88.5   | 85.5   | 83.4   | 81.4   | 81.4   | 81.4   | 80.4   | 79.4   |
| 80°   | 72.2   | 70.2   | 70.2   | 69.2   | 67.2   | 65.1   | 64.1   | 64.1   | 63.1   | 63.1   | 62.1   |
| 82.5° | 54.9   | 52.9   | 51.9   | 51.9   | 49.9   | 48.8   | 47.8   | 46.8   | 46.8   | 46.8   | 45.8   |
| 85°   | 38.7   | 36.6   | 35.6   | 35.6   | 33.6   | 32.6   | 32.6   | 31.5   | 31.5   | 30.5   | 30.5   |
| 87.5° | 23.4   | 22.4   | 21.4   | 21.4   | 19.3   | 18.3   | 18.3   | 18.3   | 17.3   | 17.3   | 16.3   |
| 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: P1213121

CATALOG NUMBER: 4SNLED-LD5-56HL-RW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 82.5°  | 85°    | 87.5°  | 90°    | 92.5°  | 95°    | 97.5°  | 100°   | 102.5° | 105°   | 107.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 |
| 2.5°  | 2395.2 | 2395.2 | 2388.1 | 2390.1 | 2387.1 | 2391.2 | 2386.1 | 2386.1 | 2392.2 | 2392.2 | 2396.2 |
| 5°    | 2309.8 | 2304.7 | 2303.7 | 2301.6 | 2291.4 | 2295.5 | 2290.4 | 2285.3 | 2292.5 | 2292.5 | 2301.6 |
| 7.5°  | 2192.7 | 2183.6 | 2187.7 | 2181.6 | 2175.4 | 2166.3 | 2169.3 | 2165.3 | 2170.4 | 2177.5 | 2186.6 |
| 10°   | 2132.7 | 2124.6 | 2129.7 | 2123.6 | 2126.6 | 2113.4 | 2114.4 | 2115.4 | 2120.5 | 2122.5 | 2130.7 |
| 12.5° | 2094.0 | 2092.0 | 2090.0 | 2087.9 | 2090.0 | 2082.9 | 2078.8 | 2079.8 | 2081.8 | 2082.9 | 2089.0 |
| 15°   | 2012.6 | 1999.4 | 2003.5 | 1989.2 | 1990.3 | 1991.3 | 1983.1 | 1991.3 | 1990.3 | 2003.5 | 2015.7 |
| 17.5° | 1946.5 | 1946.5 | 1939.4 | 1933.3 | 1929.2 | 1928.2 | 1922.1 | 1926.2 | 1922.1 | 1930.2 | 1933.3 |
| 20°   | 1900.7 | 1899.7 | 1898.7 | 1895.6 | 1885.5 | 1886.5 | 1889.5 | 1880.4 | 1879.4 | 1878.3 | 1884.4 |
| 22.5° | 1879.4 | 1880.4 | 1876.3 | 1876.3 | 1867.1 | 1869.2 | 1870.2 | 1860.0 | 1861.0 | 1858.0 | 1861.0 |
| 25°   | 1857.0 | 1859.0 | 1853.9 | 1853.9 | 1851.9 | 1850.9 | 1845.8 | 1847.8 | 1841.7 | 1836.6 | 1841.7 |
| 27.5° | 1830.5 | 1834.6 | 1830.5 | 1832.5 | 1828.5 | 1826.4 | 1823.4 | 1821.4 | 1815.2 | 1814.2 | 1817.3 |
| 30°   | 1806.1 | 1808.1 | 1807.1 | 1802.0 | 1801.0 | 1794.9 | 1797.9 | 1791.8 | 1785.7 | 1786.8 | 1788.8 |
| 32.5° | 925.9  | 884.2  | 681.7  | 615.6  | 609.5  | 631.9  | 748.9  | 911.7  | 1181.3 | 1442.8 | 1631.1 |
| 35°   | 404.0  | 404.0  | 404.0  | 402.9  | 402.9  | 401.9  | 400.9  | 399.9  | 398.9  | 397.8  | 396.8  |
| 37.5° | 406.0  | 406.0  | 406.0  | 406.0  | 405.0  | 404.0  | 404.0  | 401.9  | 400.9  | 399.9  | 398.9  |
| 40°   | 407.0  | 408.0  | 408.0  | 408.0  | 407.0  | 407.0  | 406.0  | 404.0  | 402.9  | 400.9  | 398.9  |
| 42.5° | 406.0  | 407.0  | 407.0  | 406.0  | 406.0  | 405.0  | 405.0  | 404.0  | 402.9  | 401.9  | 400.9  |
| 45°   | 392.8  | 393.8  | 391.7  | 391.7  | 390.7  | 390.7  | 390.7  | 390.7  | 390.7  | 391.7  | 391.7  |
| 47.5° | 369.4  | 369.4  | 368.3  | 367.3  | 367.3  | 366.3  | 367.3  | 366.3  | 368.3  | 369.4  | 371.4  |
| 50°   | 341.9  | 341.9  | 339.9  | 338.8  | 338.8  | 338.8  | 338.8  | 339.9  | 340.9  | 342.9  | 344.9  |
| 52.5° | 313.4  | 313.4  | 312.4  | 311.4  | 310.3  | 310.3  | 313.4  | 312.4  | 313.4  | 314.4  | 317.5  |
| 55°   | 285.9  | 286.9  | 284.9  | 284.9  | 283.9  | 283.9  | 283.9  | 284.9  | 285.9  | 286.9  | 290.0  |
| 57.5° | 262.5  | 262.5  | 260.5  | 260.5  | 260.5  | 259.5  | 262.5  | 260.5  | 261.5  | 262.5  | 264.6  |
| 60°   | 239.1  | 238.1  | 238.1  | 237.1  | 237.1  | 237.1  | 239.1  | 238.1  | 238.1  | 239.1  | 241.2  |
| 62.5° | 217.7  | 217.7  | 216.7  | 216.7  | 215.7  | 215.7  | 217.7  | 216.7  | 216.7  | 217.7  | 218.8  |
| 65°   | 193.3  | 193.3  | 192.3  | 191.3  | 194.3  | 191.3  | 194.3  | 192.3  | 194.3  | 195.4  | 197.4  |
| 67.5° | 165.9  | 165.9  | 165.9  | 164.8  | 164.8  | 166.9  | 167.9  | 165.9  | 166.9  | 168.9  | 169.9  |
| 70°   | 141.4  | 141.4  | 140.4  | 140.4  | 140.4  | 142.5  | 143.5  | 141.4  | 142.5  | 143.5  | 145.5  |
| 72.5° | 120.1  | 118.0  | 118.0  | 117.0  | 119.0  | 119.0  | 120.1  | 119.0  | 120.1  | 120.1  | 122.1  |
| 75°   | 98.7   | 96.7   | 96.7   | 96.7   | 98.7   | 97.7   | 98.7   | 97.7   | 98.7   | 98.7   | 99.7   |
| 77.5° | 79.4   | 78.3   | 77.3   | 77.3   | 79.4   | 79.4   | 79.4   | 78.3   | 79.4   | 80.4   | 81.4   |
| 80°   | 62.1   | 61.1   | 60.0   | 60.0   | 62.1   | 62.1   | 62.1   | 63.1   | 62.1   | 63.1   | 64.1   |
| 82.5° | 45.8   | 44.8   | 43.8   | 45.8   | 45.8   | 45.8   | 45.8   | 46.8   | 45.8   | 46.8   | 47.8   |
| 85°   | 30.5   | 29.5   | 28.5   | 30.5   | 30.5   | 30.5   | 30.5   | 31.5   | 30.5   | 31.5   | 32.6   |
| 87.5° | 16.3   | 15.3   | 15.3   | 16.3   | 16.3   | 16.3   | 17.3   | 17.3   | 17.3   | 18.3   | 18.3   |
| 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: P1213121

CATALOG NUMBER: 4SNLED-LD5-56HL-RW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 112.5° | 115°   | 117.5° | 120°   | 122.5° | 125°   | 127.5° | 130°   | 132.5° | 135°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 |
| 2.5°  | 2402.4 | 2405.4 | 2404.4 | 2398.3 | 2392.2 | 2385.1 | 2380.0 | 2381.0 | 2391.2 | 2394.2 | 2385.1 |
| 5°    | 2301.6 | 2321.0 | 2321.0 | 2334.2 | 2327.1 | 2321.0 | 2325.0 | 2347.4 | 2358.6 | 2375.9 | 2382.0 |
| 7.5°  | 2197.8 | 2207.0 | 2206.0 | 2219.2 | 2217.2 | 2217.2 | 2220.2 | 2249.7 | 2264.0 | 2278.2 | 2282.3 |
| 10°   | 2139.8 | 2149.0 | 2148.0 | 2149.0 | 2145.9 | 2138.8 | 2138.8 | 2152.0 | 2164.3 | 2171.4 | 2173.4 |
| 12.5° | 2098.1 | 2103.2 | 2102.2 | 2102.2 | 2100.2 | 2094.0 | 2093.0 | 2104.2 | 2117.4 | 2126.6 | 2127.6 |
| 15°   | 2036.0 | 2050.3 | 2053.3 | 2066.6 | 2063.5 | 2055.4 | 2057.4 | 2066.6 | 2074.7 | 2082.9 | 2079.8 |
| 17.5° | 1943.5 | 1950.6 | 1951.6 | 1956.7 | 1954.6 | 1954.6 | 1966.9 | 2000.4 | 2022.8 | 2042.2 | 2044.2 |
| 20°   | 1890.5 | 1895.6 | 1893.6 | 1904.8 | 1899.7 | 1898.7 | 1901.7 | 1916.0 | 1926.2 | 1935.3 | 1951.6 |
| 22.5° | 1865.1 | 1869.2 | 1866.1 | 1867.1 | 1858.0 | 1849.8 | 1847.8 | 1859.0 | 1870.2 | 1882.4 | 1882.4 |
| 25°   | 1843.7 | 1846.8 | 1845.8 | 1843.7 | 1836.6 | 1825.4 | 1823.4 | 1825.4 | 1829.5 | 1830.5 | 1823.4 |
| 27.5° | 1818.3 | 1820.3 | 1820.3 | 1821.4 | 1812.2 | 1802.0 | 1800.0 | 1797.9 | 1802.0 | 1801.0 | 1789.8 |
| 30°   | 1791.8 | 1788.8 | 1789.8 | 1790.8 | 1782.7 | 1773.5 | 1769.5 | 1768.4 | 1772.5 | 1771.5 | 1760.3 |
| 32.5° | 1728.8 | 1752.2 | 1754.2 | 1756.2 | 1749.1 | 1741.0 | 1736.9 | 1733.8 | 1735.9 | 1734.9 | 1724.7 |
| 35°   | 395.8  | 402.9  | 493.5  | 1117.2 | 1517.1 | 1679.9 | 1697.2 | 1693.1 | 1694.2 | 1694.2 | 1686.0 |
| 37.5° | 396.8  | 395.8  | 394.8  | 391.7  | 388.7  | 386.7  | 668.5  | 1425.5 | 1651.4 | 1652.4 | 1645.3 |
| 40°   | 396.8  | 395.8  | 394.8  | 392.8  | 388.7  | 385.6  | 380.6  | 376.5  | 385.6  | 848.6  | 1552.7 |
| 42.5° | 398.9  | 396.8  | 394.8  | 392.8  | 388.7  | 384.6  | 380.6  | 375.5  | 378.5  | 376.5  | 371.4  |
| 45°   | 392.8  | 391.7  | 391.7  | 390.7  | 388.7  | 384.6  | 379.5  | 373.4  | 370.4  | 373.4  | 368.3  |
| 47.5° | 373.4  | 374.4  | 377.5  | 378.5  | 378.5  | 379.5  | 376.5  | 372.4  | 367.3  | 370.4  | 364.3  |
| 50°   | 347.0  | 349.0  | 350.0  | 355.1  | 357.1  | 361.2  | 362.2  | 362.2  | 361.2  | 365.3  | 361.2  |
| 52.5° | 318.5  | 320.5  | 325.6  | 327.6  | 329.7  | 335.8  | 337.8  | 340.9  | 342.9  | 349.0  | 353.1  |
| 55°   | 291.0  | 292.0  | 294.1  | 298.1  | 301.2  | 306.3  | 309.3  | 312.4  | 317.5  | 320.5  | 332.7  |
| 57.5° | 265.6  | 266.6  | 270.7  | 271.7  | 273.7  | 277.8  | 280.8  | 284.9  | 289.0  | 291.0  | 305.3  |
| 60°   | 241.2  | 242.2  | 245.2  | 246.2  | 247.3  | 251.3  | 254.4  | 257.4  | 260.5  | 262.5  | 272.7  |
| 62.5° | 219.8  | 219.8  | 222.8  | 222.8  | 223.9  | 226.9  | 228.9  | 231.0  | 234.0  | 235.0  | 240.1  |
| 65°   | 198.4  | 199.4  | 201.5  | 201.5  | 202.5  | 204.5  | 205.5  | 206.6  | 209.6  | 209.6  | 213.7  |
| 67.5° | 172.0  | 173.0  | 176.0  | 178.1  | 179.1  | 183.2  | 184.2  | 185.2  | 187.2  | 188.2  | 190.3  |
| 70°   | 146.5  | 147.5  | 150.6  | 151.6  | 152.6  | 155.7  | 157.7  | 160.8  | 163.8  | 166.9  | 168.9  |
| 72.5° | 123.1  | 124.1  | 127.2  | 127.2  | 130.2  | 131.3  | 133.3  | 134.3  | 137.4  | 139.4  | 142.5  |
| 75°   | 100.7  | 101.8  | 104.8  | 104.8  | 107.9  | 108.9  | 109.9  | 110.9  | 112.9  | 115.0  | 117.0  |
| 77.5° | 82.4   | 82.4   | 86.5   | 88.5   | 90.6   | 90.6   | 91.6   | 91.6   | 91.6   | 92.6   | 94.6   |
| 80°   | 65.1   | 65.1   | 68.2   | 70.2   | 72.2   | 72.2   | 73.3   | 74.3   | 75.3   | 75.3   | 76.3   |
| 82.5° | 48.8   | 48.8   | 51.9   | 52.9   | 54.9   | 54.9   | 54.9   | 56.0   | 57.0   | 56.0   | 58.0   |
| 85°   | 33.6   | 33.6   | 35.6   | 36.6   | 38.7   | 38.7   | 38.7   | 39.7   | 40.7   | 39.7   | 40.7   |
| 87.5° | 19.3   | 20.4   | 21.4   | 22.4   | 23.4   | 24.4   | 24.4   | 24.4   | 25.4   | 25.4   | 26.5   |
| 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: P1213121

CATALOG NUMBER: 4SNLED-LD5-56HL-RW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 137.5° | 140°   | 142.5° | 145°   | 147.5° | 150°   | 152.5° | 155°   | 157.5° | 160°   | 162.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 |
| 2.5°  | 2374.9 | 2362.7 | 2361.7 | 2347.4 | 2343.3 | 2344.4 | 2333.2 | 2329.1 | 2310.8 | 2306.7 | 2287.4 |
| 5°    | 2384.0 | 2390.1 | 2387.1 | 2386.1 | 2389.1 | 2387.1 | 2379.0 | 2374.9 | 2371.8 | 2363.7 | 2347.4 |
| 7.5°  | 2283.3 | 2287.4 | 2290.4 | 2303.7 | 2314.8 | 2334.2 | 2354.5 | 2367.8 | 2377.9 | 2380.0 | 2366.7 |
| 10°   | 2180.5 | 2199.9 | 2213.1 | 2233.4 | 2249.7 | 2260.9 | 2273.1 | 2284.3 | 2313.8 | 2343.3 | 2360.6 |
| 12.5° | 2127.6 | 2132.7 | 2131.7 | 2142.9 | 2154.1 | 2183.6 | 2212.1 | 2228.4 | 2250.7 | 2264.0 | 2295.5 |
| 15°   | 2082.9 | 2083.9 | 2086.9 | 2095.1 | 2101.2 | 2111.3 | 2124.6 | 2149.0 | 2193.8 | 2214.1 | 2231.4 |
| 17.5° | 2042.2 | 2042.2 | 2044.2 | 2051.3 | 2059.5 | 2068.6 | 2076.7 | 2086.9 | 2109.3 | 2142.9 | 2185.6 |
| 20°   | 1977.0 | 2005.5 | 2008.6 | 2007.6 | 2011.6 | 2028.9 | 2031.0 | 2049.3 | 2060.5 | 2073.7 | 2115.4 |
| 22.5° | 1880.4 | 1897.7 | 1922.1 | 1959.7 | 1974.0 | 1982.1 | 1988.2 | 1996.4 | 2013.7 | 2028.9 | 2046.2 |
| 25°   | 1827.5 | 1838.6 | 1845.8 | 1857.0 | 1886.5 | 1934.3 | 1943.5 | 1952.6 | 1963.8 | 1975.0 | 1996.4 |
| 27.5° | 1780.7 | 1779.6 | 1784.7 | 1794.9 | 1803.0 | 1828.5 | 1873.2 | 1908.9 | 1910.9 | 1927.2 | 1945.5 |
| 30°   | 1747.1 | 1741.0 | 1733.8 | 1731.8 | 1743.0 | 1756.2 | 1769.5 | 1825.4 | 1864.1 | 1872.2 | 1891.6 |
| 32.5° | 1715.5 | 1705.4 | 1695.2 | 1687.0 | 1679.9 | 1691.1 | 1699.3 | 1723.7 | 1773.5 | 1820.3 | 1830.5 |
| 35°   | 1676.9 | 1666.7 | 1654.5 | 1645.3 | 1634.1 | 1633.1 | 1632.1 | 1655.5 | 1671.8 | 1727.7 | 1776.6 |
| 37.5° | 1637.2 | 1626.0 | 1615.8 | 1605.6 | 1594.4 | 1586.3 | 1581.2 | 1587.3 | 1602.6 | 1627.0 | 1708.4 |
| 40°   | 1595.5 | 1582.2 | 1572.1 | 1563.9 | 1548.7 | 1542.6 | 1532.4 | 1528.3 | 1529.3 | 1550.7 | 1593.4 |
| 42.5° | 953.4  | 1520.2 | 1525.3 | 1516.1 | 1502.9 | 1494.7 | 1483.5 | 1478.4 | 1468.3 | 1478.4 | 1502.9 |
| 45°   | 367.3  | 371.4  | 1112.1 | 1469.3 | 1453.0 | 1442.8 | 1432.7 | 1427.6 | 1416.4 | 1408.2 | 1430.6 |
| 47.5° | 360.2  | 364.3  | 356.1  | 504.7  | 1386.9 | 1389.9 | 1377.7 | 1372.6 | 1361.4 | 1355.3 | 1349.2 |
| 50°   | 355.1  | 358.2  | 352.1  | 354.1  | 347.0  | 1270.9 | 1321.8 | 1315.6 | 1303.4 | 1296.3 | 1284.1 |
| 52.5° | 350.0  | 350.0  | 346.0  | 340.9  | 338.8  | 339.9  | 1069.4 | 1257.6 | 1243.4 | 1236.3 | 1220.0 |
| 55°   | 333.7  | 335.8  | 339.9  | 331.7  | 329.7  | 328.7  | 325.6  | 1018.5 | 1177.3 | 1169.1 | 1154.9 |
| 57.5° | 309.3  | 313.4  | 324.6  | 322.6  | 322.6  | 314.4  | 312.4  | 312.4  | 945.3  | 1101.0 | 1086.7 |
| 60°   | 280.8  | 284.9  | 297.1  | 301.2  | 304.2  | 302.2  | 300.2  | 299.1  | 295.1  | 996.1  | 1014.5 |
| 62.5° | 251.3  | 255.4  | 259.5  | 272.7  | 276.8  | 281.9  | 288.0  | 284.9  | 280.8  | 280.8  | 938.1  |
| 65°   | 219.8  | 225.9  | 227.9  | 240.1  | 245.2  | 254.4  | 259.5  | 266.6  | 264.6  | 263.5  | 268.6  |
| 67.5° | 192.3  | 199.4  | 200.5  | 205.5  | 214.7  | 218.8  | 224.9  | 238.1  | 244.2  | 246.2  | 248.3  |
| 70°   | 168.9  | 173.0  | 176.0  | 178.1  | 184.2  | 185.2  | 196.4  | 205.5  | 214.7  | 224.9  | 227.9  |
| 72.5° | 145.5  | 148.6  | 154.7  | 152.6  | 154.7  | 158.7  | 164.8  | 170.9  | 180.1  | 194.3  | 203.5  |
| 75°   | 119.0  | 121.1  | 125.2  | 127.2  | 131.3  | 134.3  | 138.4  | 143.5  | 151.6  | 158.7  | 170.9  |
| 77.5° | 95.6   | 96.7   | 99.7   | 100.7  | 104.8  | 107.9  | 115.0  | 118.0  | 123.1  | 128.2  | 135.3  |
| 80°   | 77.3   | 77.3   | 78.3   | 78.3   | 81.4   | 84.5   | 89.5   | 92.6   | 98.7   | 102.8  | 102.8  |
| 82.5° | 59.0   | 59.0   | 62.1   | 62.1   | 64.1   | 64.1   | 67.2   | 67.2   | 70.2   | 72.2   | 74.3   |
| 85°   | 41.7   | 42.7   | 44.8   | 43.8   | 45.8   | 44.8   | 46.8   | 48.8   | 49.9   | 48.8   | 47.8   |
| 87.5° | 27.5   | 27.5   | 29.5   | 28.5   | 29.5   | 29.5   | 31.5   | 31.5   | 32.6   | 32.6   | 31.5   |
| 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: P1213121

CATALOG NUMBER: 4SNLED-LD5-56HL-RW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 167.5° | 170°   | 172.5° | 175°   | 177.5° | 180°   | 182.5° | 185°   | 187.5° | 190°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 |
| 2.5°  | 2280.3 | 2265.0 | 2255.8 | 2244.6 | 2241.6 | 2238.5 | 2242.6 | 2242.6 | 2236.5 | 2231.4 | 2222.3 |
| 5°    | 2333.2 | 2316.9 | 2299.6 | 2281.3 | 2264.0 | 2245.7 | 2238.5 | 2237.5 | 2226.3 | 2220.2 | 2217.2 |
| 7.5°  | 2360.6 | 2352.5 | 2333.2 | 2307.7 | 2281.3 | 2248.7 | 2234.5 | 2226.3 | 2215.1 | 2213.1 | 2213.1 |
| 10°   | 2363.7 | 2354.5 | 2344.4 | 2326.0 | 2295.5 | 2252.8 | 2225.3 | 2209.0 | 2198.9 | 2206.0 | 2219.2 |
| 12.5° | 2334.2 | 2351.5 | 2342.3 | 2330.1 | 2305.7 | 2253.8 | 2214.1 | 2189.7 | 2186.6 | 2205.0 | 2239.6 |
| 15°   | 2258.9 | 2309.8 | 2335.2 | 2323.0 | 2303.7 | 2251.8 | 2195.8 | 2167.3 | 2167.3 | 2205.0 | 2249.7 |
| 17.5° | 2201.9 | 2241.6 | 2303.7 | 2313.8 | 2291.4 | 2247.7 | 2178.5 | 2144.9 | 2154.1 | 2209.0 | 2256.8 |
| 20°   | 2155.1 | 2179.5 | 2239.6 | 2296.5 | 2275.2 | 2238.5 | 2153.1 | 2118.5 | 2136.8 | 2202.9 | 2267.0 |
| 22.5° | 2081.8 | 2130.7 | 2167.3 | 2251.8 | 2258.9 | 2221.2 | 2127.6 | 2085.9 | 2122.5 | 2202.9 | 2261.9 |
| 25°   | 2010.6 | 2069.6 | 2108.3 | 2190.7 | 2234.5 | 2199.9 | 2104.2 | 2051.3 | 2107.3 | 2199.9 | 2257.9 |
| 27.5° | 1960.8 | 1988.2 | 2058.4 | 2117.4 | 2197.8 | 2171.4 | 2072.7 | 2013.7 | 2087.9 | 2183.6 | 2234.5 |
| 30°   | 1907.8 | 1926.2 | 1995.3 | 2051.3 | 2149.0 | 2138.8 | 2040.1 | 1971.9 | 2063.5 | 2168.3 | 2173.4 |
| 32.5° | 1849.8 | 1870.2 | 1905.8 | 1987.2 | 2080.8 | 2108.3 | 2003.5 | 1930.2 | 2037.1 | 2144.9 | 2102.2 |
| 35°   | 1790.8 | 1806.1 | 1834.6 | 1922.1 | 2001.5 | 2062.5 | 1958.7 | 1882.4 | 2018.8 | 2109.3 | 2034.0 |
| 37.5° | 1731.8 | 1748.1 | 1772.5 | 1845.8 | 1918.0 | 2019.8 | 1920.1 | 1834.6 | 1985.2 | 2046.2 | 1962.8 |
| 40°   | 1675.8 | 1685.0 | 1710.4 | 1756.2 | 1848.8 | 1976.0 | 1876.3 | 1784.7 | 1950.6 | 1965.8 | 1866.1 |
| 42.5° | 1573.1 | 1618.9 | 1642.3 | 1678.9 | 1770.5 | 1916.0 | 1825.4 | 1731.8 | 1911.9 | 1885.5 | 1769.5 |
| 45°   | 1462.2 | 1561.9 | 1572.1 | 1608.7 | 1701.3 | 1851.9 | 1777.6 | 1679.9 | 1875.3 | 1816.3 | 1677.9 |
| 47.5° | 1371.6 | 1443.9 | 1502.9 | 1533.4 | 1618.9 | 1776.6 | 1732.8 | 1636.2 | 1820.3 | 1728.8 | 1588.3 |
| 50°   | 1291.2 | 1329.9 | 1436.7 | 1459.1 | 1520.2 | 1686.0 | 1679.9 | 1585.3 | 1744.0 | 1618.9 | 1500.8 |
| 52.5° | 1212.9 | 1240.4 | 1337.0 | 1384.8 | 1434.7 | 1588.3 | 1616.8 | 1535.4 | 1660.6 | 1509.0 | 1412.3 |
| 55°   | 1144.7 | 1153.9 | 1206.8 | 1307.5 | 1352.3 | 1489.6 | 1547.6 | 1477.4 | 1554.8 | 1404.2 | 1326.8 |
| 57.5° | 1074.5 | 1066.4 | 1105.0 | 1234.2 | 1266.8 | 1388.9 | 1474.4 | 1418.4 | 1469.3 | 1297.3 | 1238.3 |
| 60°   | 1001.2 | 990.0  | 1006.3 | 1091.8 | 1176.2 | 1289.2 | 1387.9 | 1353.3 | 1365.5 | 1191.5 | 1139.6 |
| 62.5° | 924.9  | 913.7  | 908.6  | 962.6  | 1087.7 | 1186.4 | 1300.4 | 1281.1 | 1238.3 | 1094.8 | 1017.5 |
| 65°   | 845.6  | 834.4  | 826.2  | 847.6  | 990.0  | 1053.1 | 1202.7 | 1197.6 | 1098.9 | 993.1  | 856.7  |
| 67.5° | 257.4  | 759.1  | 741.8  | 740.8  | 834.4  | 932.0  | 1096.9 | 1088.7 | 958.5  | 884.2  | 737.7  |
| 70°   | 232.0  | 615.6  | 654.3  | 645.1  | 685.8  | 808.9  | 975.8  | 969.7  | 822.2  | 709.2  | 652.2  |
| 72.5° | 212.7  | 217.7  | 577.9  | 567.8  | 576.9  | 687.8  | 849.6  | 833.3  | 697.0  | 559.6  | 563.7  |
| 75°   | 182.1  | 191.3  | 199.4  | 479.2  | 467.0  | 569.8  | 712.3  | 686.8  | 574.9  | 462.0  | 471.1  |
| 77.5° | 148.6  | 159.7  | 165.9  | 349.0  | 377.5  | 406.0  | 568.8  | 535.2  | 395.8  | 369.4  | 176.0  |
| 80°   | 110.9  | 120.1  | 130.2  | 139.4  | 286.9  | 283.9  | 422.3  | 388.7  | 275.7  | 230.0  | 137.4  |
| 82.5° | 81.4   | 84.5   | 90.6   | 100.7  | 114.0  | 190.3  | 271.7  | 239.1  | 191.3  | 104.8  | 94.6   |
| 85°   | 50.9   | 54.9   | 58.0   | 61.1   | 69.2   | 114.0  | 134.3  | 106.8  | 80.4   | 64.1   | 60.0   |
| 87.5° | 32.6   | 32.6   | 31.5   | 32.6   | 33.6   | 40.7   | 45.8   | 43.8   | 34.6   | 32.6   | 32.6   |
| 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: P1213121

CATALOG NUMBER: 4SNLED-LD5-56HL-RW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 192.5° | 195°   | 197.5° | 200°   | 202.5° | 205°   | 207.5° | 210°   | 212.5° | 215°   | 217.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 |
| 2.5°  | 2212.1 | 2197.8 | 2197.8 | 2193.8 | 2196.8 | 2196.8 | 2195.8 | 2196.8 | 2203.9 | 2208.0 | 2215.1 |
| 5°    | 2211.1 | 2207.0 | 2216.1 | 2227.3 | 2240.6 | 2256.8 | 2260.9 | 2275.2 | 2288.4 | 2305.7 | 2324.0 |
| 7.5°  | 2224.3 | 2238.5 | 2255.8 | 2274.1 | 2300.6 | 2319.9 | 2337.2 | 2354.5 | 2366.7 | 2383.0 | 2393.2 |
| 10°   | 2243.6 | 2272.1 | 2301.6 | 2325.0 | 2353.5 | 2369.8 | 2381.0 | 2383.0 | 2365.7 | 2338.2 | 2315.9 |
| 12.5° | 2271.1 | 2304.7 | 2332.1 | 2354.5 | 2367.8 | 2361.7 | 2329.1 | 2295.5 | 2276.2 | 2247.7 | 2208.0 |
| 15°   | 2294.5 | 2325.0 | 2353.5 | 2344.4 | 2308.7 | 2275.2 | 2249.7 | 2210.0 | 2171.4 | 2144.9 | 2127.6 |
| 17.5° | 2304.7 | 2334.2 | 2324.0 | 2276.2 | 2242.6 | 2203.9 | 2152.0 | 2121.5 | 2096.1 | 2075.7 | 2065.6 |
| 20°   | 2310.8 | 2305.7 | 2250.7 | 2216.1 | 2151.0 | 2115.4 | 2081.8 | 2053.3 | 2034.0 | 2023.8 | 2021.8 |
| 22.5° | 2294.5 | 2232.4 | 2185.6 | 2123.6 | 2075.7 | 2046.2 | 2019.8 | 1996.4 | 1983.1 | 1975.0 | 1969.9 |
| 25°   | 2240.6 | 2168.3 | 2099.1 | 2050.3 | 2009.6 | 1984.2 | 1963.8 | 1944.5 | 1928.2 | 1924.1 | 1913.9 |
| 27.5° | 2165.3 | 2106.3 | 2014.7 | 1977.0 | 1941.4 | 1929.2 | 1906.8 | 1887.5 | 1873.2 | 1861.0 | 1828.5 |
| 30°   | 2103.2 | 2009.6 | 1943.5 | 1908.9 | 1887.5 | 1873.2 | 1847.8 | 1827.5 | 1803.0 | 1758.3 | 1740.0 |
| 32.5° | 2026.9 | 1934.3 | 1871.2 | 1851.9 | 1825.4 | 1813.2 | 1784.7 | 1740.0 | 1702.3 | 1684.0 | 1683.0 |
| 35°   | 1928.2 | 1851.9 | 1806.1 | 1788.8 | 1767.4 | 1747.1 | 1688.1 | 1647.4 | 1629.0 | 1631.1 | 1646.3 |
| 37.5° | 1845.8 | 1777.6 | 1748.1 | 1723.7 | 1699.3 | 1647.4 | 1597.5 | 1578.2 | 1583.3 | 1593.4 | 1600.6 |
| 40°   | 1762.3 | 1710.4 | 1676.9 | 1657.5 | 1602.6 | 1551.7 | 1525.3 | 1532.4 | 1541.5 | 1548.7 | 1557.8 |
| 42.5° | 1680.9 | 1644.3 | 1610.7 | 1573.1 | 1497.8 | 1470.3 | 1476.4 | 1485.6 | 1493.7 | 1503.9 | 1513.0 |
| 45°   | 1603.6 | 1571.0 | 1532.4 | 1446.9 | 1409.3 | 1416.4 | 1425.5 | 1432.7 | 1444.9 | 1452.0 | 1461.2 |
| 47.5° | 1530.3 | 1495.7 | 1427.6 | 1352.3 | 1348.2 | 1362.5 | 1370.6 | 1379.8 | 1388.9 | 1370.6 | 756.0  |
| 50°   | 1447.9 | 1412.3 | 1308.5 | 1280.0 | 1289.2 | 1302.4 | 1312.6 | 1321.8 | 1177.3 | 468.1  | 360.2  |
| 52.5° | 1366.5 | 1276.0 | 1209.8 | 1218.0 | 1227.1 | 1242.4 | 1249.5 | 928.0  | 369.4  | 352.1  | 353.1  |
| 55°   | 1276.0 | 1160.0 | 1140.6 | 1150.8 | 1158.9 | 1174.2 | 778.4  | 340.9  | 338.8  | 337.8  | 346.0  |
| 57.5° | 1133.5 | 1063.3 | 1071.4 | 1081.6 | 1089.8 | 769.2  | 331.7  | 329.7  | 330.7  | 331.7  | 332.7  |
| 60°   | 1006.3 | 991.1  | 1000.2 | 1009.4 | 714.3  | 320.5  | 314.4  | 315.4  | 319.5  | 316.4  | 308.3  |
| 62.5° | 905.6  | 917.8  | 927.0  | 812.0  | 304.2  | 301.2  | 304.2  | 301.2  | 294.1  | 289.0  | 278.8  |
| 65°   | 828.3  | 840.5  | 847.6  | 285.9  | 284.9  | 289.0  | 285.9  | 275.7  | 264.6  | 250.3  | 247.3  |
| 67.5° | 746.9  | 759.1  | 271.7  | 264.6  | 268.6  | 263.5  | 251.3  | 239.1  | 231.0  | 218.8  | 213.7  |
| 70°   | 662.4  | 283.9  | 246.2  | 245.2  | 238.1  | 230.0  | 216.7  | 204.5  | 194.3  | 189.3  | 184.2  |
| 72.5° | 478.2  | 224.9  | 221.8  | 213.7  | 201.5  | 190.3  | 179.1  | 172.0  | 166.9  | 163.8  | 160.8  |
| 75°   | 199.4  | 195.4  | 186.2  | 172.0  | 159.7  | 154.7  | 146.5  | 141.4  | 139.4  | 133.3  | 131.3  |
| 77.5° | 166.9  | 158.7  | 145.5  | 135.3  | 128.2  | 125.2  | 119.0  | 112.9  | 109.9  | 108.9  | 104.8  |
| 80°   | 128.2  | 117.0  | 110.9  | 105.8  | 103.8  | 96.7   | 89.5   | 86.5   | 84.5   | 83.4   | 80.4   |
| 82.5° | 87.5   | 83.4   | 79.4   | 72.2   | 72.2   | 69.2   | 66.1   | 64.1   | 62.1   | 62.1   | 60.0   |
| 85°   | 57.0   | 53.9   | 52.9   | 49.9   | 49.9   | 47.8   | 46.8   | 45.8   | 44.8   | 43.8   | 42.7   |
| 87.5° | 32.6   | 32.6   | 33.6   | 32.6   | 32.6   | 31.5   | 30.5   | 29.5   | 28.5   | 28.5   | 26.5   |
| 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: P1213121

CATALOG NUMBER: 4SNLED-LD5-56HL-RW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 220°   | 222.5° | 225°   | 227.5° | 230°   | 232.5° | 235°   | 237.5° | 240°   | 242.5° | 245°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 |
| 2.5°  | 2224.3 | 2234.5 | 2236.5 | 2271.1 | 2290.4 | 2289.4 | 2283.3 | 2301.6 | 2290.4 | 2284.3 | 2290.4 |
| 5°    | 2342.3 | 2354.5 | 2364.7 | 2402.4 | 2415.6 | 2421.7 | 2420.7 | 2430.8 | 2422.7 | 2415.6 | 2415.6 |
| 7.5°  | 2400.3 | 2404.4 | 2408.5 | 2399.3 | 2393.2 | 2383.0 | 2367.8 | 2345.4 | 2334.2 | 2322.0 | 2306.7 |
| 10°   | 2304.7 | 2291.4 | 2296.5 | 2278.2 | 2263.0 | 2251.8 | 2237.5 | 2219.2 | 2203.9 | 2192.7 | 2175.4 |
| 12.5° | 2187.7 | 2186.6 | 2188.7 | 2191.7 | 2176.5 | 2167.3 | 2156.1 | 2142.9 | 2131.7 | 2119.5 | 2105.2 |
| 15°   | 2116.4 | 2117.4 | 2125.6 | 2122.5 | 2117.4 | 2112.4 | 2100.2 | 2096.1 | 2085.9 | 2072.7 | 2064.5 |
| 17.5° | 2065.6 | 2070.6 | 2078.8 | 2074.7 | 2066.6 | 2061.5 | 2052.3 | 2043.2 | 2034.0 | 2023.8 | 2011.6 |
| 20°   | 2020.8 | 2025.9 | 2031.0 | 2025.9 | 2010.6 | 2003.5 | 1991.3 | 1962.8 | 1942.4 | 1922.1 | 1903.8 |
| 22.5° | 1971.9 | 1975.0 | 1970.9 | 1954.6 | 1916.0 | 1897.7 | 1883.4 | 1875.3 | 1858.0 | 1846.8 | 1835.6 |
| 25°   | 1910.9 | 1893.6 | 1867.1 | 1848.8 | 1833.6 | 1825.4 | 1819.3 | 1818.3 | 1816.3 | 1814.2 | 1809.1 |
| 27.5° | 1811.2 | 1805.1 | 1790.8 | 1783.7 | 1784.7 | 1787.8 | 1788.8 | 1791.8 | 1788.8 | 1784.7 | 1780.7 |
| 30°   | 1736.9 | 1740.0 | 1741.0 | 1743.0 | 1748.1 | 1751.1 | 1752.2 | 1756.2 | 1754.2 | 1751.1 | 1749.1 |
| 32.5° | 1690.1 | 1697.2 | 1701.3 | 1707.4 | 1710.4 | 1715.5 | 1715.5 | 1721.6 | 1715.5 | 1714.5 | 1712.5 |
| 35°   | 1651.4 | 1657.5 | 1659.6 | 1668.7 | 1671.8 | 1676.9 | 1676.9 | 1682.0 | 1676.9 | 1625.0 | 1283.1 |
| 37.5° | 1612.8 | 1618.9 | 1622.9 | 1631.1 | 1632.1 | 1635.1 | 1509.0 | 1104.0 | 712.3  | 551.5  | 421.3  |
| 40°   | 1567.0 | 1574.1 | 1578.2 | 1581.2 | 1111.1 | 705.1  | 485.4  | 394.8  | 394.8  | 397.8  | 400.9  |
| 42.5° | 1518.1 | 1523.2 | 1061.3 | 617.6  | 384.6  | 383.6  | 386.7  | 389.7  | 392.8  | 396.8  | 400.9  |
| 45°   | 1193.5 | 602.4  | 382.6  | 373.4  | 376.5  | 380.6  | 384.6  | 388.7  | 393.8  | 397.8  | 399.9  |
| 47.5° | 391.7  | 367.3  | 372.4  | 368.3  | 373.4  | 378.5  | 382.6  | 386.7  | 387.7  | 388.7  | 387.7  |
| 50°   | 362.2  | 362.2  | 365.3  | 365.3  | 369.4  | 371.4  | 371.4  | 371.4  | 367.3  | 366.3  | 363.3  |
| 52.5° | 350.0  | 358.2  | 354.1  | 356.1  | 354.1  | 351.0  | 348.0  | 344.9  | 338.8  | 336.8  | 332.7  |
| 55°   | 343.9  | 347.0  | 336.8  | 333.7  | 329.7  | 321.5  | 317.5  | 313.4  | 308.3  | 306.3  | 301.2  |
| 57.5° | 329.7  | 322.6  | 311.4  | 306.3  | 299.1  | 291.0  | 286.9  | 283.9  | 278.8  | 276.8  | 273.7  |
| 60°   | 303.2  | 289.0  | 281.9  | 275.7  | 267.6  | 260.5  | 257.4  | 255.4  | 251.3  | 250.3  | 247.3  |
| 62.5° | 270.7  | 258.4  | 252.3  | 244.2  | 238.1  | 234.0  | 231.0  | 230.0  | 225.9  | 225.9  | 223.9  |
| 65°   | 235.0  | 228.9  | 223.9  | 215.7  | 212.7  | 208.6  | 207.6  | 206.6  | 204.5  | 203.5  | 201.5  |
| 67.5° | 206.6  | 202.5  | 195.4  | 191.3  | 189.3  | 186.2  | 184.2  | 182.1  | 178.1  | 176.0  | 173.0  |
| 70°   | 181.1  | 178.1  | 170.9  | 167.9  | 163.8  | 158.7  | 155.7  | 153.6  | 150.6  | 148.6  | 145.5  |
| 72.5° | 156.7  | 147.5  | 142.5  | 139.4  | 136.3  | 131.3  | 130.2  | 128.2  | 125.2  | 124.1  | 121.1  |
| 75°   | 126.2  | 119.0  | 116.0  | 114.0  | 110.9  | 107.9  | 107.9  | 107.9  | 104.8  | 103.8  | 102.8  |
| 77.5° | 100.7  | 96.7   | 94.6   | 92.6   | 91.6   | 89.5   | 86.5   | 85.5   | 82.4   | 82.4   | 81.4   |
| 80°   | 77.3   | 75.3   | 73.3   | 72.2   | 71.2   | 69.2   | 67.2   | 66.1   | 63.1   | 63.1   | 62.1   |
| 82.5° | 57.0   | 56.0   | 54.9   | 53.9   | 52.9   | 51.9   | 48.8   | 47.8   | 45.8   | 45.8   | 44.8   |
| 85°   | 40.7   | 39.7   | 37.6   | 36.6   | 36.6   | 35.6   | 32.6   | 31.5   | 29.5   | 29.5   | 29.5   |
| 87.5° | 25.4   | 24.4   | 23.4   | 22.4   | 21.4   | 20.4   | 18.3   | 17.3   | 17.3   | 15.3   | 14.2   |
| 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: P1213121

CATALOG NUMBER: 4SNLED-LD5-56HL-RW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 250°   | 252.5° | 255°   | 257.5° | 260°   | 262.5° | 265°   | 267.5° | 270°   | 272.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 |
| 2.5°  | 2278.2 | 2295.5 | 2293.5 | 2305.7 | 2308.7 | 2314.8 | 2316.9 | 2317.9 | 2302.6 | 2314.8 | 2315.9 |
| 5°    | 2412.5 | 2415.6 | 2417.6 | 2422.7 | 2427.8 | 2428.8 | 2423.7 | 2417.6 | 2419.7 | 2415.6 | 2405.4 |
| 7.5°  | 2304.7 | 2289.4 | 2286.4 | 2282.3 | 2280.3 | 2278.2 | 2269.1 | 2277.2 | 2268.0 | 2264.0 | 2249.7 |
| 10°   | 2172.4 | 2158.1 | 2157.1 | 2157.1 | 2160.2 | 2159.2 | 2157.1 | 2153.1 | 2161.2 | 2156.1 | 2153.1 |
| 12.5° | 2103.2 | 2098.1 | 2101.2 | 2099.1 | 2107.3 | 2109.3 | 2107.3 | 2107.3 | 2105.2 | 2101.2 | 2103.2 |
| 15°   | 2061.5 | 2057.4 | 2060.5 | 2057.4 | 2063.5 | 2064.5 | 2059.5 | 2062.5 | 2057.4 | 2052.3 | 2050.3 |
| 17.5° | 2006.5 | 1997.4 | 1990.3 | 1980.1 | 1981.1 | 1979.1 | 1973.0 | 1973.0 | 1967.9 | 1954.6 | 1955.7 |
| 20°   | 1900.7 | 1891.6 | 1887.5 | 1887.5 | 1892.6 | 1894.6 | 1893.6 | 1895.6 | 1890.5 | 1888.5 | 1880.4 |
| 22.5° | 1834.6 | 1833.6 | 1835.6 | 1840.7 | 1848.8 | 1860.0 | 1861.0 | 1861.0 | 1861.0 | 1860.0 | 1849.8 |
| 25°   | 1811.2 | 1811.2 | 1813.2 | 1820.3 | 1826.4 | 1834.6 | 1836.6 | 1838.6 | 1836.6 | 1836.6 | 1827.5 |
| 27.5° | 1784.7 | 1782.7 | 1786.8 | 1793.9 | 1801.0 | 1807.1 | 1812.2 | 1813.2 | 1810.2 | 1810.2 | 1813.2 |
| 30°   | 1752.2 | 1751.1 | 1756.2 | 1763.4 | 1769.5 | 1775.6 | 1780.7 | 1784.7 | 1780.7 | 1780.7 | 1777.6 |
| 32.5° | 1718.6 | 1718.6 | 1720.6 | 1677.9 | 1555.8 | 1401.1 | 1404.2 | 1314.6 | 1252.6 | 1174.2 | 1278.0 |
| 35°   | 1072.5 | 780.4  | 670.5  | 567.8  | 495.5  | 448.7  | 447.7  | 432.4  | 425.3  | 420.2  | 419.2  |
| 37.5° | 405.0  | 407.0  | 411.1  | 413.1  | 416.2  | 418.2  | 419.2  | 419.2  | 419.2  | 419.2  | 418.2  |
| 40°   | 404.0  | 408.0  | 411.1  | 414.1  | 417.2  | 419.2  | 419.2  | 420.2  | 421.3  | 421.3  | 421.3  |
| 42.5° | 405.0  | 409.0  | 413.1  | 416.2  | 418.2  | 419.2  | 420.2  | 421.3  | 421.3  | 421.3  | 421.3  |
| 45°   | 404.0  | 406.0  | 406.0  | 407.0  | 407.0  | 407.0  | 408.0  | 408.0  | 407.0  | 406.0  | 408.0  |
| 47.5° | 388.7  | 388.7  | 385.6  | 384.6  | 383.6  | 381.6  | 382.6  | 381.6  | 380.6  | 379.5  | 381.6  |
| 50°   | 362.2  | 358.2  | 356.1  | 354.1  | 353.1  | 351.0  | 352.1  | 351.0  | 350.0  | 348.0  | 351.0  |
| 52.5° | 330.7  | 329.7  | 325.6  | 323.6  | 322.6  | 323.6  | 321.5  | 320.5  | 319.5  | 318.5  | 319.5  |
| 55°   | 300.2  | 296.1  | 295.1  | 293.0  | 292.0  | 293.0  | 292.0  | 291.0  | 290.0  | 289.0  | 290.0  |
| 57.5° | 272.7  | 269.6  | 268.6  | 266.6  | 266.6  | 266.6  | 266.6  | 265.6  | 264.6  | 263.5  | 264.6  |
| 60°   | 246.2  | 244.2  | 243.2  | 243.2  | 242.2  | 242.2  | 242.2  | 241.2  | 240.1  | 240.1  | 241.2  |
| 62.5° | 223.9  | 223.9  | 220.8  | 219.8  | 219.8  | 220.8  | 219.8  | 218.8  | 217.7  | 216.7  | 218.8  |
| 65°   | 200.5  | 196.4  | 195.4  | 193.3  | 191.3  | 192.3  | 191.3  | 190.3  | 189.3  | 188.2  | 190.3  |
| 67.5° | 172.0  | 170.9  | 166.9  | 164.8  | 163.8  | 164.8  | 163.8  | 162.8  | 161.8  | 160.8  | 162.8  |
| 70°   | 144.5  | 144.5  | 140.4  | 139.4  | 138.4  | 138.4  | 137.4  | 137.4  | 136.3  | 135.3  | 137.4  |
| 72.5° | 120.1  | 120.1  | 119.0  | 117.0  | 116.0  | 115.0  | 114.0  | 112.9  | 112.9  | 114.0  | 114.0  |
| 75°   | 99.7   | 97.7   | 93.6   | 94.6   | 93.6   | 92.6   | 92.6   | 91.6   | 90.6   | 92.6   | 91.6   |
| 77.5° | 78.3   | 77.3   | 74.3   | 75.3   | 74.3   | 73.3   | 73.3   | 72.2   | 71.2   | 72.2   | 72.2   |
| 80°   | 59.0   | 59.0   | 58.0   | 57.0   | 57.0   | 56.0   | 54.9   | 54.9   | 53.9   | 54.9   | 54.9   |
| 82.5° | 42.7   | 42.7   | 41.7   | 40.7   | 39.7   | 39.7   | 38.7   | 38.7   | 38.7   | 38.7   | 38.7   |
| 85°   | 27.5   | 26.5   | 26.5   | 24.4   | 24.4   | 24.4   | 23.4   | 23.4   | 23.4   | 23.4   | 23.4   |
| 87.5° | 13.2   | 13.2   | 12.2   | 12.2   | 11.2   | 10.2   | 10.2   | 9.2    | 9.2    | 10.2   | 10.2   |
| 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: P1213121

CATALOG NUMBER: 4SNLED-LD5-56HL-RW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 275°   | 277.5° | 280°   | 282.5° | 285°   | 287.5° | 290°   | 292.5° | 295°   | 297.5° | 300°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 |
| 2.5°  | 2297.5 | 2310.8 | 2299.6 | 2304.7 | 2305.7 | 2323.0 | 2322.0 | 2326.0 | 2318.9 | 2310.8 | 2299.6 |
| 5°    | 2414.6 | 2408.5 | 2400.3 | 2419.7 | 2409.5 | 2421.7 | 2425.8 | 2433.9 | 2433.9 | 2432.9 | 2423.7 |
| 7.5°  | 2265.0 | 2251.8 | 2261.9 | 2269.1 | 2272.1 | 2264.0 | 2280.3 | 2298.6 | 2313.8 | 2323.0 | 2324.0 |
| 10°   | 2148.0 | 2152.0 | 2151.0 | 2154.1 | 2161.2 | 2160.2 | 2170.4 | 2180.5 | 2184.6 | 2190.7 | 2192.7 |
| 12.5° | 2093.0 | 2092.0 | 2094.0 | 2101.2 | 2105.2 | 2104.2 | 2114.4 | 2120.5 | 2122.5 | 2123.6 | 2122.5 |
| 15°   | 2049.3 | 2042.2 | 2047.2 | 2048.3 | 2051.3 | 2051.3 | 2063.5 | 2072.7 | 2076.7 | 2078.8 | 2076.7 |
| 17.5° | 1966.9 | 1949.6 | 1965.8 | 1965.8 | 1977.0 | 1975.0 | 1994.3 | 2009.6 | 2017.7 | 2023.8 | 2023.8 |
| 20°   | 1885.5 | 1877.3 | 1883.4 | 1881.4 | 1889.5 | 1888.5 | 1900.7 | 1910.9 | 1918.0 | 1923.1 | 1929.2 |
| 22.5° | 1852.9 | 1854.9 | 1845.8 | 1846.8 | 1846.8 | 1845.8 | 1851.9 | 1857.0 | 1859.0 | 1862.1 | 1860.0 |
| 25°   | 1831.5 | 1833.6 | 1830.5 | 1825.4 | 1823.4 | 1825.4 | 1828.5 | 1834.6 | 1835.6 | 1833.6 | 1826.4 |
| 27.5° | 1810.2 | 1804.1 | 1809.1 | 1800.0 | 1797.9 | 1802.0 | 1806.1 | 1807.1 | 1808.1 | 1808.1 | 1802.0 |
| 30°   | 1777.6 | 1772.5 | 1777.6 | 1773.5 | 1769.5 | 1773.5 | 1776.6 | 1776.6 | 1778.6 | 1779.6 | 1772.5 |
| 32.5° | 1242.4 | 1252.6 | 1417.4 | 1517.1 | 1657.5 | 1728.8 | 1742.0 | 1742.0 | 1744.0 | 1744.0 | 1737.9 |
| 35°   | 423.3  | 424.3  | 458.9  | 497.6  | 580.0  | 681.7  | 815.0  | 884.2  | 1118.2 | 1398.1 | 1668.7 |
| 37.5° | 418.2  | 417.2  | 416.2  | 415.1  | 414.1  | 413.1  | 411.1  | 410.1  | 416.2  | 493.5  | 669.5  |
| 40°   | 420.2  | 419.2  | 417.2  | 416.2  | 415.1  | 413.1  | 412.1  | 410.1  | 408.0  | 406.0  | 404.0  |
| 42.5° | 420.2  | 419.2  | 418.2  | 417.2  | 416.2  | 415.1  | 413.1  | 411.1  | 409.0  | 406.0  | 402.9  |
| 45°   | 406.0  | 406.0  | 407.0  | 407.0  | 408.0  | 408.0  | 408.0  | 407.0  | 407.0  | 406.0  | 401.9  |
| 47.5° | 379.5  | 379.5  | 382.6  | 382.6  | 384.6  | 386.7  | 386.7  | 388.7  | 391.7  | 393.8  | 394.8  |
| 50°   | 349.0  | 349.0  | 352.1  | 353.1  | 355.1  | 358.2  | 361.2  | 362.2  | 365.3  | 369.4  | 373.4  |
| 52.5° | 318.5  | 318.5  | 321.5  | 321.5  | 323.6  | 326.6  | 329.7  | 330.7  | 334.8  | 338.8  | 343.9  |
| 55°   | 290.0  | 290.0  | 292.0  | 293.0  | 294.1  | 296.1  | 299.1  | 299.1  | 303.2  | 306.3  | 311.4  |
| 57.5° | 264.6  | 266.6  | 266.6  | 266.6  | 267.6  | 269.6  | 271.7  | 271.7  | 274.7  | 277.8  | 281.9  |
| 60°   | 240.1  | 242.2  | 242.2  | 242.2  | 243.2  | 244.2  | 246.2  | 246.2  | 248.3  | 250.3  | 254.4  |
| 62.5° | 217.7  | 219.8  | 219.8  | 220.8  | 220.8  | 221.8  | 223.9  | 222.8  | 224.9  | 225.9  | 228.9  |
| 65°   | 189.3  | 191.3  | 192.3  | 193.3  | 194.3  | 196.4  | 199.4  | 198.4  | 201.5  | 203.5  | 206.6  |
| 67.5° | 161.8  | 163.8  | 163.8  | 164.8  | 165.9  | 167.9  | 169.9  | 169.9  | 173.0  | 175.0  | 179.1  |
| 70°   | 136.3  | 138.4  | 138.4  | 139.4  | 140.4  | 142.5  | 144.5  | 143.5  | 146.5  | 148.6  | 151.6  |
| 72.5° | 112.9  | 115.0  | 115.0  | 116.0  | 116.0  | 118.0  | 120.1  | 122.1  | 122.1  | 124.1  | 126.2  |
| 75°   | 91.6   | 92.6   | 93.6   | 93.6   | 94.6   | 95.6   | 97.7   | 99.7   | 100.7  | 101.8  | 103.8  |
| 77.5° | 72.2   | 73.3   | 74.3   | 74.3   | 75.3   | 76.3   | 77.3   | 81.4   | 83.4   | 84.5   | 84.5   |
| 80°   | 54.9   | 56.0   | 56.0   | 56.0   | 57.0   | 58.0   | 60.0   | 60.0   | 64.1   | 64.1   | 65.1   |
| 82.5° | 38.7   | 39.7   | 39.7   | 39.7   | 40.7   | 42.7   | 43.8   | 44.8   | 46.8   | 47.8   | 47.8   |
| 85°   | 23.4   | 24.4   | 24.4   | 24.4   | 25.4   | 26.5   | 28.5   | 29.5   | 30.5   | 30.5   | 31.5   |
| 87.5° | 9.2    | 10.2   | 11.2   | 11.2   | 12.2   | 13.2   | 14.2   | 15.3   | 16.3   | 16.3   | 17.3   |
| 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: P1213121

CATALOG NUMBER: 4SNLED-LD5-56HL-RW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 302.5° | 305°   | 307.5° | 310°   | 312.5° | 315°   | 317.5° | 320°   | 322.5° | 325°   | 327.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 |
| 2.5°  | 2287.4 | 2294.5 | 2287.4 | 2291.4 | 2296.5 | 2287.4 | 2266.0 | 2257.9 | 2254.8 | 2242.6 | 2234.5 |
| 5°    | 2414.6 | 2414.6 | 2411.5 | 2419.7 | 2418.6 | 2404.4 | 2382.0 | 2371.8 | 2361.7 | 2348.4 | 2338.2 |
| 7.5°  | 2324.0 | 2332.1 | 2337.2 | 2368.8 | 2389.1 | 2391.2 | 2405.4 | 2408.5 | 2412.5 | 2408.5 | 2402.4 |
| 10°   | 2193.8 | 2190.7 | 2205.0 | 2234.5 | 2251.8 | 2260.9 | 2288.4 | 2301.6 | 2312.8 | 2335.2 | 2358.6 |
| 12.5° | 2120.5 | 2124.6 | 2130.7 | 2152.0 | 2168.3 | 2164.3 | 2175.4 | 2184.6 | 2197.8 | 2220.2 | 2253.8 |
| 15°   | 2071.7 | 2075.7 | 2081.8 | 2098.1 | 2108.3 | 2103.2 | 2109.3 | 2115.4 | 2124.6 | 2135.8 | 2156.1 |
| 17.5° | 2018.8 | 2025.9 | 2033.0 | 2050.3 | 2059.5 | 2058.4 | 2063.5 | 2065.6 | 2068.6 | 2075.7 | 2090.0 |
| 20°   | 1936.3 | 1958.7 | 1973.0 | 1996.4 | 2009.6 | 2007.6 | 2016.7 | 2019.8 | 2023.8 | 2031.0 | 2037.1 |
| 22.5° | 1861.0 | 1867.1 | 1874.3 | 1899.7 | 1922.1 | 1949.6 | 1955.7 | 1963.8 | 1974.0 | 1981.1 | 1987.2 |
| 25°   | 1818.3 | 1814.2 | 1817.3 | 1834.6 | 1846.8 | 1848.8 | 1858.0 | 1884.4 | 1911.9 | 1924.1 | 1938.4 |
| 27.5° | 1792.9 | 1788.8 | 1787.8 | 1795.9 | 1797.9 | 1792.9 | 1790.8 | 1799.0 | 1819.3 | 1839.7 | 1882.4 |
| 30°   | 1765.4 | 1760.3 | 1756.2 | 1763.4 | 1766.4 | 1759.3 | 1746.1 | 1738.9 | 1751.1 | 1756.2 | 1773.5 |
| 32.5° | 1732.8 | 1727.7 | 1725.7 | 1729.8 | 1731.8 | 1725.7 | 1711.5 | 1703.3 | 1701.3 | 1697.2 | 1701.3 |
| 35°   | 1696.2 | 1691.1 | 1688.1 | 1689.1 | 1693.1 | 1688.1 | 1675.8 | 1665.7 | 1660.6 | 1649.4 | 1641.3 |
| 37.5° | 874.0  | 1238.3 | 1607.7 | 1646.3 | 1650.4 | 1649.4 | 1637.2 | 1626.0 | 1620.9 | 1607.7 | 1603.6 |
| 40°   | 399.9  | 446.7  | 670.5  | 876.1  | 1263.8 | 1605.6 | 1594.4 | 1583.3 | 1574.1 | 1570.0 | 1554.8 |
| 42.5° | 398.9  | 399.9  | 400.9  | 395.8  | 490.4  | 835.4  | 1233.2 | 1539.5 | 1533.4 | 1523.2 | 1512.0 |
| 45°   | 398.9  | 393.8  | 397.8  | 391.7  | 393.8  | 392.8  | 489.4  | 789.6  | 1405.2 | 1468.3 | 1463.2 |
| 47.5° | 394.8  | 391.7  | 395.8  | 390.7  | 384.6  | 387.7  | 383.6  | 388.7  | 606.4  | 1028.7 | 1409.3 |
| 50°   | 376.5  | 378.5  | 385.6  | 384.6  | 379.5  | 383.6  | 376.5  | 382.6  | 377.5  | 414.1  | 797.7  |
| 52.5° | 349.0  | 353.1  | 360.2  | 366.3  | 368.3  | 373.4  | 371.4  | 373.4  | 369.4  | 370.4  | 371.4  |
| 55°   | 316.4  | 321.5  | 327.6  | 336.8  | 340.9  | 349.0  | 355.1  | 358.2  | 363.3  | 362.2  | 354.1  |
| 57.5° | 285.9  | 291.0  | 296.1  | 305.3  | 314.4  | 318.5  | 329.7  | 335.8  | 349.0  | 346.0  | 343.9  |
| 60°   | 257.4  | 261.5  | 266.6  | 268.6  | 279.8  | 286.9  | 297.1  | 303.2  | 320.5  | 324.6  | 330.7  |
| 62.5° | 232.0  | 234.0  | 238.1  | 241.2  | 248.3  | 255.4  | 260.5  | 270.7  | 279.8  | 293.0  | 302.2  |
| 65°   | 208.6  | 210.6  | 213.7  | 215.7  | 216.7  | 226.9  | 230.0  | 241.2  | 244.2  | 258.4  | 266.6  |
| 67.5° | 182.1  | 186.2  | 190.3  | 192.3  | 194.3  | 200.5  | 202.5  | 207.6  | 214.7  | 220.8  | 231.0  |
| 70°   | 154.7  | 157.7  | 161.8  | 164.8  | 168.9  | 173.0  | 179.1  | 182.1  | 187.2  | 191.3  | 199.4  |
| 72.5° | 129.2  | 132.3  | 134.3  | 137.4  | 140.4  | 143.5  | 148.6  | 155.7  | 159.7  | 166.9  | 168.9  |
| 75°   | 104.8  | 107.9  | 109.9  | 111.9  | 115.0  | 117.0  | 119.0  | 126.2  | 130.2  | 136.3  | 142.5  |
| 77.5° | 86.5   | 86.5   | 88.5   | 94.6   | 93.6   | 93.6   | 95.6   | 99.7   | 102.8  | 106.8  | 112.9  |
| 80°   | 67.2   | 68.2   | 69.2   | 74.3   | 75.3   | 76.3   | 75.3   | 78.3   | 81.4   | 82.4   | 86.5   |
| 82.5° | 49.9   | 50.9   | 50.9   | 53.9   | 57.0   | 57.0   | 57.0   | 58.0   | 61.1   | 62.1   | 64.1   |
| 85°   | 33.6   | 34.6   | 35.6   | 36.6   | 38.7   | 39.7   | 40.7   | 40.7   | 42.7   | 43.8   | 44.8   |
| 87.5° | 18.3   | 20.4   | 21.4   | 22.4   | 23.4   | 24.4   | 25.4   | 26.5   | 27.5   | 28.5   | 29.5   |
| 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: P1213121

CATALOG NUMBER: 4SNLED-LD5-56HL-RW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

|       | 330°   | 332.5° | 335°   | 337.5° | 340°   | 342.5° | 345°   | 347.5° | 350°   | 352.5° | 355°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 | 2220.2 |
| 2.5°  | 2231.4 | 2226.3 | 2223.3 | 2215.1 | 2213.1 | 2199.9 | 2201.9 | 2199.9 | 2199.9 | 2202.9 | 2213.1 |
| 5°    | 2327.1 | 2302.6 | 2296.5 | 2279.2 | 2265.0 | 2240.6 | 2225.3 | 2217.2 | 2205.0 | 2199.9 | 2207.0 |
| 7.5°  | 2392.2 | 2373.9 | 2358.6 | 2343.3 | 2323.0 | 2294.5 | 2273.1 | 2248.7 | 2228.4 | 2209.0 | 2203.9 |
| 10°   | 2381.0 | 2401.3 | 2401.3 | 2392.2 | 2372.8 | 2344.4 | 2318.9 | 2288.4 | 2252.8 | 2222.3 | 2203.9 |
| 12.5° | 2286.4 | 2322.0 | 2350.5 | 2371.8 | 2391.2 | 2371.8 | 2346.4 | 2322.0 | 2282.3 | 2237.5 | 2203.9 |
| 15°   | 2182.6 | 2219.2 | 2254.8 | 2299.6 | 2346.4 | 2365.7 | 2364.7 | 2336.2 | 2300.6 | 2253.8 | 2207.0 |
| 17.5° | 2109.3 | 2134.7 | 2154.1 | 2202.9 | 2259.9 | 2309.8 | 2343.3 | 2345.4 | 2310.8 | 2269.1 | 2208.0 |
| 20°   | 2054.4 | 2072.7 | 2089.0 | 2116.4 | 2166.3 | 2227.3 | 2289.4 | 2324.0 | 2317.9 | 2272.1 | 2211.1 |
| 22.5° | 2004.5 | 2017.7 | 2031.0 | 2051.3 | 2091.0 | 2130.7 | 2202.9 | 2274.1 | 2304.7 | 2267.0 | 2208.0 |
| 25°   | 1954.6 | 1968.9 | 1979.1 | 1993.3 | 2024.9 | 2057.4 | 2108.3 | 2196.8 | 2265.0 | 2263.0 | 2201.9 |
| 27.5° | 1895.6 | 1915.0 | 1927.2 | 1946.5 | 1967.9 | 1992.3 | 2026.9 | 2110.3 | 2208.0 | 2242.6 | 2185.6 |
| 30°   | 1824.4 | 1852.9 | 1871.2 | 1892.6 | 1910.9 | 1932.3 | 1959.7 | 2010.6 | 2131.7 | 2202.9 | 2168.3 |
| 32.5° | 1721.6 | 1772.5 | 1813.2 | 1833.6 | 1853.9 | 1872.2 | 1896.6 | 1939.4 | 2038.1 | 2149.0 | 2149.0 |
| 35°   | 1648.4 | 1671.8 | 1708.4 | 1767.4 | 1792.9 | 1811.2 | 1833.6 | 1867.1 | 1930.2 | 2084.9 | 2117.4 |
| 37.5° | 1591.4 | 1600.6 | 1618.9 | 1676.9 | 1724.7 | 1754.2 | 1776.6 | 1797.9 | 1860.0 | 1997.4 | 2076.7 |
| 40°   | 1548.7 | 1545.6 | 1543.6 | 1571.0 | 1639.2 | 1686.0 | 1711.5 | 1732.8 | 1780.7 | 1892.6 | 2022.8 |
| 42.5° | 1498.8 | 1495.7 | 1485.6 | 1492.7 | 1526.3 | 1604.6 | 1643.3 | 1666.7 | 1706.4 | 1782.7 | 1963.8 |
| 45°   | 1446.9 | 1441.8 | 1437.7 | 1430.6 | 1442.8 | 1486.6 | 1566.0 | 1600.6 | 1622.9 | 1691.1 | 1889.5 |
| 47.5° | 1394.0 | 1386.9 | 1381.8 | 1375.7 | 1368.6 | 1388.9 | 1464.2 | 1526.3 | 1564.9 | 1607.7 | 1800.0 |
| 50°   | 1318.7 | 1327.9 | 1321.8 | 1314.6 | 1308.5 | 1304.5 | 1336.0 | 1437.7 | 1485.6 | 1520.2 | 1691.1 |
| 52.5° | 621.7  | 1208.8 | 1259.7 | 1252.6 | 1244.4 | 1237.3 | 1244.4 | 1321.8 | 1408.2 | 1435.7 | 1559.9 |
| 55°   | 354.1  | 538.3  | 1120.3 | 1184.4 | 1177.3 | 1167.1 | 1161.0 | 1187.4 | 1316.7 | 1353.3 | 1439.8 |
| 57.5° | 340.9  | 341.9  | 494.5  | 1067.4 | 1107.1 | 1097.9 | 1090.8 | 1096.9 | 1206.8 | 1268.8 | 1335.0 |
| 60°   | 329.7  | 329.7  | 329.7  | 472.1  | 1020.6 | 1023.6 | 1014.5 | 1004.3 | 1052.1 | 1174.2 | 1229.2 |
| 62.5° | 305.3  | 311.4  | 314.4  | 314.4  | 466.0  | 945.3  | 936.1  | 933.1  | 935.1  | 1060.3 | 1123.3 |
| 65°   | 273.7  | 288.0  | 294.1  | 298.1  | 298.1  | 489.4  | 855.7  | 850.6  | 843.5  | 891.3  | 1016.5 |
| 67.5° | 239.1  | 253.4  | 266.6  | 274.7  | 275.7  | 284.9  | 510.8  | 766.2  | 756.0  | 757.0  | 902.5  |
| 70°   | 203.5  | 215.7  | 230.0  | 242.2  | 253.4  | 258.4  | 266.6  | 635.9  | 669.5  | 655.3  | 773.3  |
| 72.5° | 176.0  | 181.1  | 191.3  | 203.5  | 216.7  | 228.9  | 236.1  | 253.4  | 581.0  | 565.7  | 588.1  |
| 75°   | 146.5  | 150.6  | 157.7  | 165.9  | 176.0  | 190.3  | 202.5  | 214.7  | 308.3  | 474.2  | 471.1  |
| 77.5° | 114.0  | 121.1  | 129.2  | 134.3  | 139.4  | 149.6  | 165.9  | 178.1  | 190.3  | 320.5  | 377.5  |
| 80°   | 87.5   | 92.6   | 96.7   | 101.8  | 107.9  | 115.0  | 121.1  | 135.3  | 149.6  | 160.8  | 289.0  |
| 82.5° | 65.1   | 68.2   | 71.2   | 73.3   | 75.3   | 79.4   | 90.6   | 95.6   | 104.8  | 115.0  | 136.3  |
| 85°   | 45.8   | 47.8   | 49.9   | 50.9   | 51.9   | 52.9   | 57.0   | 58.0   | 67.2   | 69.2   | 82.4   |
| 87.5° | 29.5   | 30.5   | 32.6   | 33.6   | 33.6   | 34.6   | 35.6   | 35.6   | 35.6   | 33.6   | 40.7   |
| 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: P1213121

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**CANDELA DISTRIBUTION (continued):**

|       | 357.5° | 360°   |
|-------|--------|--------|
| 0°    | 2220.2 | 2220.2 |
| 2.5°  | 2221.2 | 2237.5 |
| 5°    | 2218.2 | 2239.6 |
| 7.5°  | 2210.0 | 2230.4 |
| 10°   | 2197.8 | 2222.3 |
| 12.5° | 2184.6 | 2208.0 |
| 15°   | 2173.4 | 2190.7 |
| 17.5° | 2161.2 | 2171.4 |
| 20°   | 2144.9 | 2153.1 |
| 22.5° | 2128.6 | 2124.6 |
| 25°   | 2110.3 | 2101.2 |
| 27.5° | 2086.9 | 2069.6 |
| 30°   | 2065.6 | 2035.0 |
| 32.5° | 2045.2 | 1995.3 |
| 35°   | 2017.7 | 1954.6 |
| 37.5° | 1989.2 | 1912.9 |
| 40°   | 1955.7 | 1865.1 |
| 42.5° | 1920.1 | 1817.3 |
| 45°   | 1875.3 | 1771.5 |
| 47.5° | 1835.6 | 1716.5 |
| 50°   | 1780.7 | 1657.5 |
| 52.5° | 1713.5 | 1602.6 |
| 55°   | 1634.1 | 1535.4 |
| 57.5° | 1548.7 | 1465.2 |
| 60°   | 1457.1 | 1384.8 |
| 62.5° | 1346.2 | 1301.4 |
| 65°   | 1215.9 | 1205.8 |
| 67.5° | 1046.0 | 1099.9 |
| 70°   | 857.8  | 978.8  |
| 72.5° | 717.3  | 850.6  |
| 75°   | 588.1  | 707.2  |
| 77.5° | 466.0  | 554.5  |
| 80°   | 291.0  | 406.0  |
| 82.5° | 195.4  | 266.6  |
| 85°   | 118.0  | 127.2  |
| 87.5° | 45.8   | 46.8   |
| 90°   | 0.0    | 0.0    |

(END OF REPORT)