

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P243674

Luminaire Tested: **S125DR-H1270D835-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-61)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-H1270D835-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4942.8 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.22 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

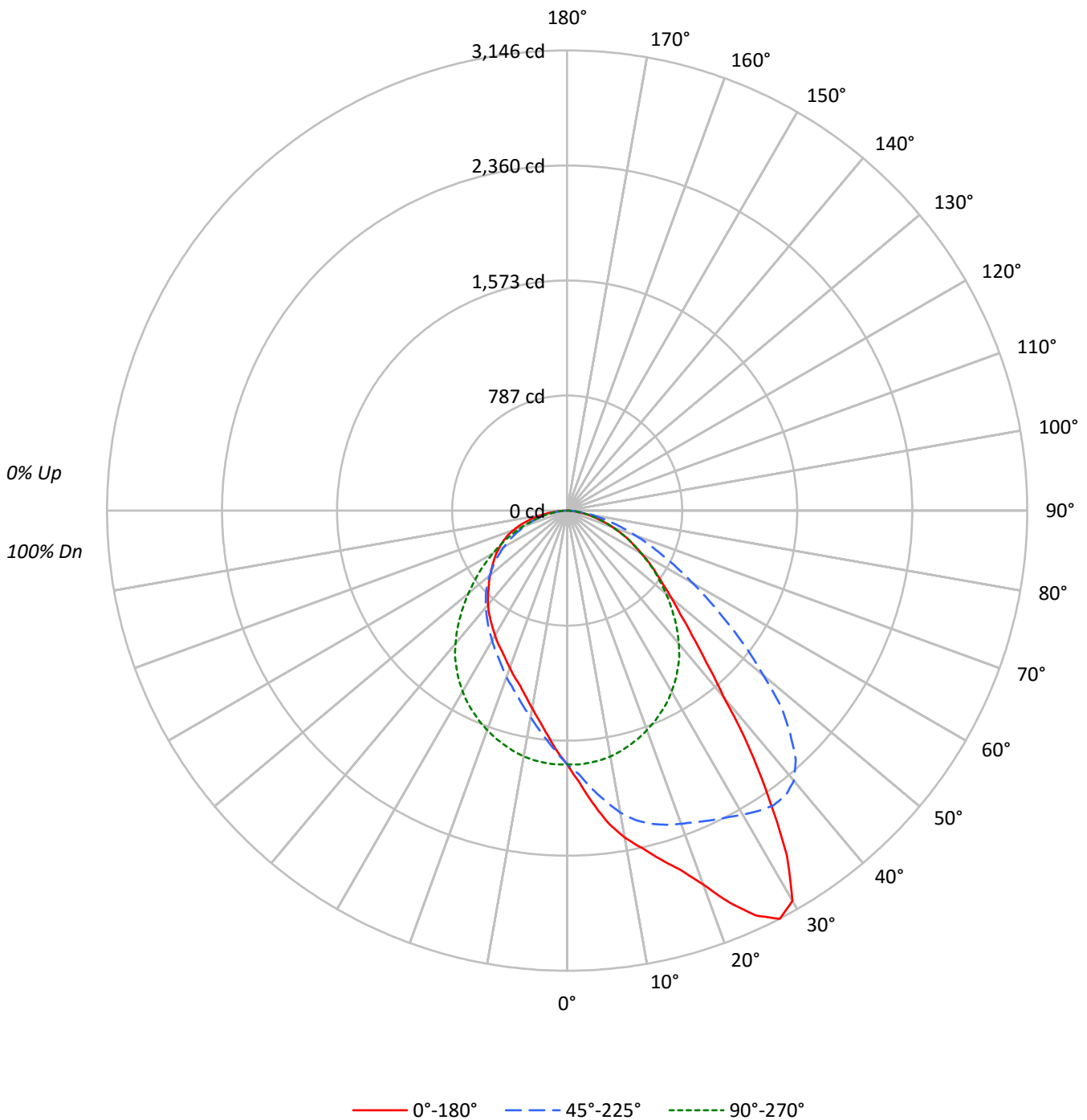
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P243674

CATALOG NUMBER: S125DR-H1270D835-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P243674

CATALOG NUMBER: S125DR-H1270D835-X4F0-XX-UDD-A-W

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 78 | 84 | 79 | 76 | 81 | 77 | 74 | 72 |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 63 | 61 |
| 4 | 84 | 73 | 64 | 58 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | 66 | 61 | 56 | 64 | 59 | 55 | 53 |
| 5 | 78 | 65 | 56 | 50 | 75 | 64 | 56 | 50 | 62 | 55 | 49 | 60 | 54 | 49 | 58 | 53 | 48 | 46 |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 40 |
| 7 | 67 | 53 | 45 | 39 | 65 | 53 | 44 | 39 | 51 | 44 | 38 | 50 | 43 | 38 | 48 | 42 | 38 | 36 |
| 8 | 62 | 49 | 40 | 35 | 60 | 48 | 40 | 35 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 34 | 32 |
| 9 | 58 | 45 | 37 | 31 | 57 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 29 |
| 10 | 54 | 41 | 34 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 12326 | 12326 | 12326 |
| 5° | 14320 | 12353 | 10979 |
| 10° | 16384 | 12314 | 9907 |
| 15° | 18163 | 12202 | 9128 |
| 20° | 20564 | 12080 | 8659 |
| 25° | 23947 | 11924 | 8295 |
| 30° | 25280 | 11728 | 8092 |
| 35° | 20905 | 11442 | 7921 |
| 40° | 15465 | 11027 | 7804 |
| 45° | 12158 | 10426 | 7634 |
| 50° | 10295 | 9751 | 7605 |
| 55° | 9168 | 9080 | 7634 |
| 60° | 8317 | 8337 | 7798 |
| 65° | 7711 | 7640 | 8019 |
| 70° | 6928 | 6839 | 8067 |
| 75° | 5910 | 6006 | 7958 |
| 80° | 4838 | 4924 | 7425 |
| 85° | 3327 | 3498 | 6312 |



TEST NUMBER: P243674

CATALOG NUMBER: S125DR-H1270D835-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 167.5 | 3.4 |
| 10°-20° | 500.6 | 10.1 |
| 20°-30° | 813.9 | 16.5 |
| 30°-40° | 990.2 | 20.0 |
| 40°-50° | 906.1 | 18.3 |
| 50°-60° | 725.1 | 14.7 |
| 60°-70° | 505.0 | 10.2 |
| 70°-80° | 268.4 | 5.4 |
| 80°-90° | 65.9 | 1.3 |
| 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° | 1482.0 | 30.0 |
| 0°-40° | 2472.2 | 50.0 |
| 0°-60° | 4103.5 | 83.0 |
| 0°-90° | 4942.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4942.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1734 | 1734 | 1734 | 1734 | 1734 | |
| 5° | 2007 | 1906 | 1732 | 1575 | 1539 | 200 |
| 15° | 2468 | 2217 | 1658 | 1312 | 1241 | 708 |
| 25° | 3054 | 2336 | 1520 | 1110 | 1058 | 1394 |
| 35° | 2409 | 2459 | 1319 | 945 | 913 | 1494 |
| 45° | 1210 | 2156 | 1037 | 783 | 760 | 954 |
| 55° | 740 | 1338 | 733 | 598 | 616 | 668 |
| 65° | 458 | 714 | 454 | 401 | 477 | 451 |
| 75° | 215 | 316 | 219 | 210 | 290 | 233 |
| 85° | 41 | 60 | 43 | 48 | 77 | 53 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P243674

CATALOG NUMBER: S125DR-H1270D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 |
| 2.5° | 1856.7 | 1848.9 | 1846.8 | 1847.5 | 1843.3 | 1839.8 | 1831.3 | 1820.1 | 1812.4 | 1802.5 | 1799.7 |
| 5° | 2007.2 | 1988.2 | 1991.7 | 1986.1 | 1976.9 | 1965.0 | 1954.4 | 1937.5 | 1921.4 | 1905.9 | 1885.5 |
| 7.5° | 2154.9 | 2151.3 | 2141.5 | 2140.1 | 2125.3 | 2104.9 | 2083.8 | 2060.6 | 2026.2 | 2002.2 | 1974.8 |
| 10° | 2270.2 | 2277.2 | 2263.2 | 2263.9 | 2237.8 | 2217.4 | 2199.2 | 2168.9 | 2130.2 | 2097.9 | 2057.8 |
| 12.5° | 2363.0 | 2365.8 | 2363.7 | 2354.6 | 2337.7 | 2303.2 | 2285.7 | 2254.0 | 2211.8 | 2167.5 | 2136.6 |
| 15° | 2468.5 | 2460.8 | 2448.8 | 2437.6 | 2413.0 | 2388.3 | 2351.8 | 2314.5 | 2261.0 | 2216.7 | 2171.7 |
| 17.5° | 2574.0 | 2572.6 | 2557.8 | 2533.9 | 2503.0 | 2470.6 | 2415.8 | 2367.9 | 2311.0 | 2252.6 | 2196.3 |
| 20° | 2718.9 | 2711.1 | 2689.3 | 2661.9 | 2605.0 | 2559.2 | 2491.0 | 2425.6 | 2351.1 | 2277.9 | 2212.5 |
| 22.5° | 2900.3 | 2875.0 | 2853.2 | 2811.0 | 2745.6 | 2666.1 | 2589.5 | 2494.5 | 2390.4 | 2304.6 | 2223.1 |
| 25° | 3053.6 | 3042.4 | 3019.2 | 2972.1 | 2897.5 | 2801.9 | 2687.9 | 2580.3 | 2449.5 | 2335.6 | 2229.4 |
| 27.5° | 3146.5 | 3141.6 | 3127.5 | 3083.2 | 3021.3 | 2926.3 | 2804.7 | 2667.5 | 2519.2 | 2365.1 | 2237.8 |
| 30° | 3080.4 | 3081.1 | 3088.8 | 3083.9 | 3056.5 | 2995.3 | 2887.0 | 2749.1 | 2577.5 | 2400.3 | 2239.9 |
| 32.5° | 2796.2 | 2815.2 | 2875.7 | 2904.5 | 2943.2 | 2955.9 | 2907.4 | 2792.7 | 2626.8 | 2435.5 | 2247.0 |
| 35° | 2409.4 | 2455.9 | 2496.6 | 2581.0 | 2681.6 | 2763.9 | 2811.7 | 2774.4 | 2647.1 | 2459.4 | 2250.5 |
| 37.5° | 2045.1 | 2041.6 | 2104.9 | 2196.3 | 2303.2 | 2443.2 | 2578.9 | 2653.5 | 2612.0 | 2454.4 | 2244.2 |
| 40° | 1666.8 | 1699.1 | 1738.5 | 1819.4 | 1944.6 | 2116.9 | 2278.6 | 2438.3 | 2495.9 | 2410.8 | 2219.6 |
| 42.5° | 1408.0 | 1422.7 | 1462.1 | 1525.4 | 1615.4 | 1791.3 | 1950.9 | 2156.3 | 2303.9 | 2313.8 | 2165.4 |
| 45° | 1209.6 | 1225.8 | 1237.1 | 1299.7 | 1383.4 | 1501.5 | 1665.4 | 1872.1 | 2070.5 | 2156.3 | 2077.5 |
| 47.5° | 1050.7 | 1059.8 | 1084.5 | 1122.4 | 1177.3 | 1282.1 | 1412.9 | 1600.7 | 1816.6 | 1983.3 | 1956.5 |
| 50° | 931.1 | 938.2 | 957.9 | 979.0 | 1024.0 | 1101.3 | 1206.8 | 1360.8 | 1568.3 | 1750.5 | 1810.2 |
| 52.5° | 825.7 | 834.8 | 844.6 | 865.0 | 906.5 | 958.6 | 1044.4 | 1164.6 | 1357.3 | 1543.7 | 1638.6 |
| 55° | 739.9 | 743.4 | 753.9 | 769.4 | 801.0 | 840.4 | 908.6 | 1017.6 | 1152.7 | 1338.3 | 1469.2 |
| 57.5° | 665.3 | 661.8 | 673.0 | 683.6 | 704.7 | 737.7 | 787.0 | 867.8 | 996.5 | 1154.8 | 1291.2 |
| 60° | 585.1 | 588.6 | 597.1 | 605.5 | 620.3 | 649.1 | 687.8 | 752.5 | 846.7 | 988.8 | 1128.1 |
| 62.5° | 516.2 | 519.0 | 521.1 | 533.1 | 546.4 | 566.8 | 598.5 | 651.2 | 729.3 | 846.7 | 971.2 |
| 65° | 458.5 | 453.6 | 456.4 | 464.9 | 475.4 | 492.3 | 521.8 | 560.5 | 618.9 | 714.5 | 817.9 |
| 67.5° | 391.0 | 392.4 | 393.1 | 398.1 | 407.2 | 423.4 | 444.5 | 476.1 | 523.9 | 599.2 | 689.9 |
| 70° | 333.4 | 334.1 | 334.8 | 339.0 | 346.7 | 355.9 | 370.6 | 395.2 | 436.0 | 494.4 | 565.4 |
| 72.5° | 274.3 | 277.1 | 277.1 | 280.6 | 286.2 | 291.2 | 305.2 | 325.6 | 356.6 | 403.0 | 462.8 |
| 75° | 215.2 | 220.1 | 221.5 | 225.8 | 230.7 | 232.1 | 242.6 | 258.8 | 278.5 | 316.5 | 363.6 |
| 77.5° | 167.4 | 167.4 | 170.2 | 175.1 | 175.1 | 179.3 | 190.6 | 197.6 | 213.1 | 239.1 | 275.0 |
| 80° | 118.2 | 120.3 | 120.3 | 121.7 | 124.5 | 128.0 | 132.9 | 139.2 | 152.6 | 171.6 | 190.6 |
| 82.5° | 77.4 | 78.1 | 78.8 | 82.3 | 80.9 | 84.4 | 86.5 | 94.2 | 100.6 | 109.7 | 121.7 |
| 85° | 40.8 | 40.8 | 41.5 | 43.6 | 45.7 | 46.4 | 47.8 | 51.3 | 56.3 | 60.5 | 67.5 |
| 87.5° | 16.9 | 16.2 | 16.2 | 17.6 | 17.6 | 18.3 | 19.0 | 20.4 | 23.2 | 23.2 | 26.0 |
| 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: P243674

CATALOG NUMBER: S125DR-H1270D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 |
| 2.5° | 1797.6 | 1792.0 | 1782.1 | 1773.7 | 1763.1 | 1755.4 | 1747.7 | 1737.8 | 1728.0 | 1717.4 | 1706.2 |
| 5° | 1869.3 | 1852.4 | 1833.5 | 1814.5 | 1792.0 | 1773.7 | 1754.0 | 1731.5 | 1712.5 | 1691.4 | 1668.9 |
| 7.5° | 1951.6 | 1922.1 | 1889.0 | 1851.7 | 1816.6 | 1784.9 | 1752.6 | 1721.6 | 1693.5 | 1661.9 | 1630.9 |
| 10° | 2031.1 | 1979.7 | 1938.2 | 1887.6 | 1837.7 | 1791.3 | 1746.9 | 1706.2 | 1665.4 | 1626.0 | 1588.0 |
| 12.5° | 2085.2 | 2026.9 | 1974.8 | 1916.4 | 1858.1 | 1799.7 | 1741.3 | 1685.1 | 1636.5 | 1588.7 | 1548.6 |
| 15° | 2122.5 | 2081.7 | 2012.8 | 1942.5 | 1865.8 | 1789.8 | 1723.7 | 1658.3 | 1600.7 | 1545.1 | 1497.3 |
| 17.5° | 2145.7 | 2093.0 | 2025.4 | 1951.6 | 1867.2 | 1787.7 | 1708.3 | 1630.2 | 1564.1 | 1504.3 | 1450.2 |
| 20° | 2152.0 | 2090.1 | 2019.8 | 1943.2 | 1858.8 | 1771.6 | 1682.2 | 1597.1 | 1525.4 | 1457.2 | 1402.3 |
| 22.5° | 2145.7 | 2074.0 | 1998.7 | 1924.2 | 1835.6 | 1746.9 | 1653.4 | 1560.6 | 1478.3 | 1408.0 | 1350.3 |
| 25° | 2135.2 | 2048.7 | 1969.9 | 1882.0 | 1799.7 | 1715.3 | 1619.0 | 1520.5 | 1434.7 | 1361.6 | 1296.8 |
| 27.5° | 2121.8 | 2022.6 | 1925.6 | 1839.1 | 1749.8 | 1666.8 | 1578.2 | 1477.6 | 1388.3 | 1308.1 | 1247.6 |
| 30° | 2106.3 | 1988.2 | 1880.6 | 1777.9 | 1693.5 | 1610.5 | 1524.0 | 1429.1 | 1339.0 | 1262.4 | 1197.0 |
| 32.5° | 2088.7 | 1951.6 | 1825.0 | 1714.6 | 1624.6 | 1547.9 | 1467.0 | 1376.3 | 1287.7 | 1205.4 | 1148.5 |
| 35° | 2064.1 | 1901.7 | 1765.2 | 1645.7 | 1552.1 | 1469.2 | 1398.1 | 1318.7 | 1230.7 | 1154.1 | 1095.0 |
| 37.5° | 2035.3 | 1857.4 | 1704.8 | 1575.3 | 1473.4 | 1388.3 | 1322.9 | 1258.2 | 1175.9 | 1102.0 | 1045.1 |
| 40° | 1996.6 | 1803.9 | 1640.8 | 1500.8 | 1391.8 | 1308.1 | 1244.1 | 1188.5 | 1120.3 | 1045.8 | 994.4 |
| 42.5° | 1946.0 | 1744.8 | 1568.3 | 1419.2 | 1313.7 | 1224.4 | 1164.6 | 1114.0 | 1055.6 | 990.9 | 940.3 |
| 45° | 1888.3 | 1677.3 | 1487.4 | 1341.2 | 1226.5 | 1141.4 | 1083.1 | 1037.3 | 993.0 | 935.4 | 888.2 |
| 47.5° | 1798.3 | 1597.9 | 1414.3 | 1252.5 | 1140.0 | 1057.7 | 1002.9 | 959.3 | 926.2 | 880.5 | 834.1 |
| 50° | 1691.4 | 1507.8 | 1327.8 | 1165.3 | 1051.4 | 971.9 | 919.9 | 881.9 | 853.8 | 818.6 | 783.5 |
| 52.5° | 1573.9 | 1406.6 | 1232.9 | 1080.9 | 967.0 | 891.8 | 836.9 | 803.1 | 784.9 | 756.7 | 729.3 |
| 55° | 1436.8 | 1292.6 | 1130.9 | 992.3 | 880.5 | 803.8 | 756.7 | 732.8 | 712.4 | 698.4 | 673.7 |
| 57.5° | 1299.0 | 1177.3 | 1033.1 | 896.0 | 793.3 | 725.1 | 682.9 | 656.2 | 641.4 | 631.5 | 614.0 |
| 60° | 1148.5 | 1052.8 | 920.6 | 801.7 | 710.3 | 645.6 | 608.3 | 586.5 | 573.2 | 567.5 | 555.6 |
| 62.5° | 1005.0 | 931.8 | 811.6 | 712.4 | 630.8 | 573.9 | 536.6 | 519.0 | 510.6 | 504.3 | 497.2 |
| 65° | 863.6 | 806.0 | 711.0 | 618.2 | 549.3 | 497.9 | 468.4 | 454.3 | 448.0 | 441.0 | 440.3 |
| 67.5° | 736.3 | 683.6 | 607.6 | 531.7 | 474.0 | 430.4 | 404.4 | 390.3 | 383.3 | 384.0 | 380.5 |
| 70° | 611.2 | 570.4 | 508.5 | 446.6 | 397.4 | 362.9 | 338.3 | 329.1 | 326.3 | 325.6 | 322.8 |
| 72.5° | 494.4 | 471.2 | 417.0 | 365.0 | 326.3 | 299.6 | 279.9 | 272.2 | 268.7 | 267.2 | 267.2 |
| 75° | 391.7 | 374.8 | 328.4 | 289.0 | 259.5 | 237.7 | 224.3 | 218.7 | 213.8 | 216.6 | 214.5 |
| 77.5° | 294.0 | 279.9 | 248.3 | 220.1 | 197.6 | 179.3 | 173.0 | 168.1 | 165.3 | 164.6 | 167.4 |
| 80° | 206.8 | 198.3 | 178.6 | 156.1 | 139.2 | 128.7 | 124.5 | 120.3 | 118.2 | 116.7 | 118.2 |
| 82.5° | 132.9 | 128.0 | 113.9 | 100.6 | 90.7 | 85.1 | 80.9 | 78.8 | 75.3 | 76.0 | 77.4 |
| 85° | 72.4 | 71.0 | 61.9 | 57.7 | 48.5 | 47.8 | 45.0 | 42.9 | 43.6 | 42.2 | 44.3 |
| 87.5° | 29.5 | 28.1 | 26.0 | 23.9 | 21.1 | 19.0 | 17.6 | 19.0 | 16.9 | 19.0 | 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: P243674

CATALOG NUMBER: S125DR-H1270D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 |
| 2.5° | 1700.5 | 1692.8 | 1683.7 | 1675.2 | 1662.6 | 1654.1 | 1649.9 | 1651.3 | 1646.4 | 1645.0 | 1644.3 |
| 5° | 1655.5 | 1637.9 | 1621.1 | 1607.0 | 1592.2 | 1575.3 | 1563.4 | 1559.9 | 1558.5 | 1555.0 | 1547.2 |
| 7.5° | 1609.1 | 1586.6 | 1564.8 | 1544.4 | 1523.3 | 1503.6 | 1491.7 | 1481.8 | 1476.2 | 1466.3 | 1464.2 |
| 10° | 1559.9 | 1532.4 | 1509.2 | 1479.7 | 1454.4 | 1434.0 | 1418.5 | 1410.1 | 1405.2 | 1396.0 | 1388.3 |
| 12.5° | 1512.8 | 1483.9 | 1448.1 | 1421.3 | 1394.6 | 1373.5 | 1355.9 | 1341.9 | 1338.3 | 1326.4 | 1320.1 |
| 15° | 1462.1 | 1427.0 | 1394.6 | 1363.7 | 1338.3 | 1311.6 | 1301.1 | 1288.4 | 1275.8 | 1265.2 | 1263.1 |
| 17.5° | 1413.6 | 1371.4 | 1339.7 | 1309.5 | 1278.6 | 1258.9 | 1244.8 | 1236.4 | 1226.5 | 1220.9 | 1211.0 |
| 20° | 1355.2 | 1320.8 | 1285.6 | 1257.5 | 1230.7 | 1213.9 | 1194.9 | 1187.1 | 1180.1 | 1166.7 | 1162.5 |
| 22.5° | 1306.0 | 1264.5 | 1235.0 | 1206.8 | 1182.9 | 1159.0 | 1145.6 | 1137.9 | 1127.4 | 1120.3 | 1114.7 |
| 25° | 1254.7 | 1220.2 | 1182.9 | 1154.8 | 1134.4 | 1110.5 | 1101.3 | 1091.5 | 1082.3 | 1076.0 | 1070.4 |
| 27.5° | 1204.7 | 1166.7 | 1136.5 | 1108.4 | 1087.3 | 1070.4 | 1057.7 | 1047.2 | 1040.9 | 1035.9 | 1032.4 |
| 30° | 1152.7 | 1117.5 | 1089.4 | 1063.4 | 1039.4 | 1025.4 | 1013.4 | 1009.2 | 1002.2 | 998.7 | 993.0 |
| 32.5° | 1105.6 | 1069.7 | 1043.0 | 1020.5 | 999.4 | 985.3 | 978.3 | 971.9 | 964.9 | 958.6 | 957.9 |
| 35° | 1052.1 | 1021.2 | 996.5 | 971.9 | 956.5 | 945.2 | 937.5 | 931.1 | 925.5 | 920.6 | 917.8 |
| 37.5° | 1005.0 | 975.4 | 948.0 | 930.4 | 913.6 | 903.7 | 895.3 | 893.2 | 887.5 | 888.2 | 884.0 |
| 40° | 954.4 | 927.6 | 904.4 | 886.8 | 875.6 | 865.0 | 859.4 | 852.4 | 848.9 | 849.6 | 846.0 |
| 42.5° | 905.1 | 880.5 | 859.4 | 843.2 | 831.3 | 823.5 | 818.6 | 813.0 | 808.8 | 806.0 | 805.3 |
| 45° | 855.2 | 833.4 | 815.8 | 799.6 | 789.8 | 782.8 | 776.4 | 769.4 | 765.9 | 764.5 | 763.8 |
| 47.5° | 806.0 | 786.3 | 767.3 | 756.0 | 746.9 | 740.6 | 734.2 | 728.6 | 725.8 | 723.7 | 720.2 |
| 50° | 755.3 | 735.6 | 722.3 | 708.2 | 700.5 | 692.0 | 685.0 | 682.2 | 678.7 | 678.0 | 681.5 |
| 52.5° | 702.6 | 687.1 | 675.1 | 663.9 | 654.8 | 645.6 | 638.6 | 635.1 | 637.2 | 637.2 | 641.4 |
| 55° | 652.6 | 636.5 | 625.2 | 616.1 | 606.2 | 597.8 | 590.8 | 590.8 | 590.8 | 595.0 | 600.6 |
| 57.5° | 597.1 | 583.0 | 574.6 | 564.0 | 554.9 | 549.3 | 544.3 | 543.6 | 546.4 | 553.5 | 559.8 |
| 60° | 540.8 | 531.0 | 521.8 | 513.4 | 504.3 | 500.0 | 499.3 | 497.9 | 502.1 | 509.2 | 522.5 |
| 62.5° | 485.3 | 478.9 | 467.7 | 463.5 | 455.7 | 450.8 | 450.8 | 452.2 | 458.5 | 469.8 | 481.7 |
| 65° | 431.8 | 422.7 | 414.2 | 410.0 | 405.1 | 400.9 | 400.9 | 406.5 | 415.6 | 426.2 | 441.0 |
| 67.5° | 377.0 | 369.2 | 363.6 | 359.4 | 353.7 | 351.6 | 353.7 | 360.1 | 371.3 | 381.9 | 397.4 |
| 70° | 317.9 | 316.5 | 311.6 | 305.9 | 303.1 | 303.1 | 305.2 | 312.3 | 320.7 | 336.9 | 350.2 |
| 72.5° | 263.7 | 263.7 | 260.9 | 257.4 | 255.3 | 257.4 | 258.8 | 265.8 | 276.4 | 290.5 | 305.2 |
| 75° | 214.5 | 212.4 | 210.3 | 208.9 | 208.2 | 209.6 | 211.7 | 217.3 | 230.0 | 243.3 | 255.3 |
| 77.5° | 166.0 | 164.6 | 162.5 | 163.9 | 163.9 | 164.6 | 170.9 | 177.2 | 184.3 | 194.8 | 207.5 |
| 80° | 119.6 | 120.3 | 118.2 | 117.4 | 121.0 | 122.4 | 127.3 | 132.2 | 137.1 | 149.1 | 158.2 |
| 82.5° | 78.8 | 80.2 | 79.5 | 80.9 | 82.3 | 82.3 | 87.9 | 92.8 | 97.1 | 105.5 | 112.5 |
| 85° | 45.0 | 45.7 | 45.7 | 47.8 | 49.2 | 48.5 | 53.4 | 56.3 | 58.4 | 64.7 | 68.9 |
| 87.5° | 19.7 | 20.4 | 21.1 | 21.1 | 21.1 | 23.9 | 24.6 | 26.0 | 26.7 | 28.1 | 30.2 |
| 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: P243674

CATALOG NUMBER: S125DR-H1270D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1734.3 | 1734.3 | 1734.3 | 1734.3 |
| 2.5° | 1637.9 | 1637.2 | 1640.8 | 1642.9 |
| 5° | 1542.3 | 1540.2 | 1537.4 | 1538.8 |
| 7.5° | 1457.2 | 1451.6 | 1450.2 | 1450.2 |
| 10° | 1381.9 | 1376.3 | 1374.9 | 1372.8 |
| 12.5° | 1317.9 | 1309.5 | 1306.0 | 1302.5 |
| 15° | 1257.5 | 1256.1 | 1248.3 | 1240.6 |
| 17.5° | 1201.9 | 1204.0 | 1196.3 | 1192.8 |
| 20° | 1155.5 | 1149.2 | 1146.3 | 1144.9 |
| 22.5° | 1108.4 | 1103.4 | 1103.4 | 1098.5 |
| 25° | 1066.2 | 1062.0 | 1062.7 | 1057.7 |
| 27.5° | 1026.8 | 1026.1 | 1025.4 | 1024.0 |
| 30° | 990.2 | 987.4 | 984.6 | 986.0 |
| 32.5° | 955.1 | 950.8 | 948.7 | 948.0 |
| 35° | 918.5 | 917.1 | 914.3 | 912.9 |
| 37.5° | 882.6 | 883.3 | 879.8 | 879.1 |
| 40° | 843.9 | 843.2 | 842.5 | 841.1 |
| 42.5° | 803.1 | 801.0 | 802.4 | 801.7 |
| 45° | 762.4 | 760.2 | 761.7 | 759.5 |
| 47.5° | 722.3 | 723.7 | 723.7 | 724.4 |
| 50° | 682.9 | 685.7 | 685.7 | 687.8 |
| 52.5° | 646.3 | 651.9 | 651.9 | 651.2 |
| 55° | 606.9 | 613.3 | 615.4 | 616.1 |
| 57.5° | 569.7 | 576.0 | 582.3 | 583.7 |
| 60° | 529.6 | 540.8 | 547.2 | 548.6 |
| 62.5° | 493.7 | 504.3 | 512.7 | 513.4 |
| 65° | 453.6 | 466.3 | 474.0 | 476.8 |
| 67.5° | 412.8 | 422.7 | 433.2 | 437.4 |
| 70° | 366.4 | 378.4 | 385.4 | 388.2 |
| 72.5° | 317.9 | 331.2 | 340.4 | 341.8 |
| 75° | 271.5 | 281.3 | 288.3 | 289.8 |
| 77.5° | 218.7 | 228.6 | 234.9 | 236.3 |
| 80° | 166.0 | 174.4 | 178.6 | 181.4 |
| 82.5° | 117.4 | 123.1 | 125.2 | 128.0 |
| 85° | 72.4 | 76.7 | 77.4 | 77.4 |
| 87.5° | 31.6 | 32.4 | 32.4 | 33.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)