

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: P333864

Luminaire Tested: **SA2XXRDP-C1005D927-4F0-1E-UDD-A**

Issue Date: 10/11/2019

Test Information

Test Method: LM-79-08
Report Number: P333864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-29)
Test Lab: INNOVATIONS CENTER
Issue Date: 10/11/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDP-C1005D927-4F0-1E-UDD-A
Description: DEFINE 2 REGRESSED DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 1005 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

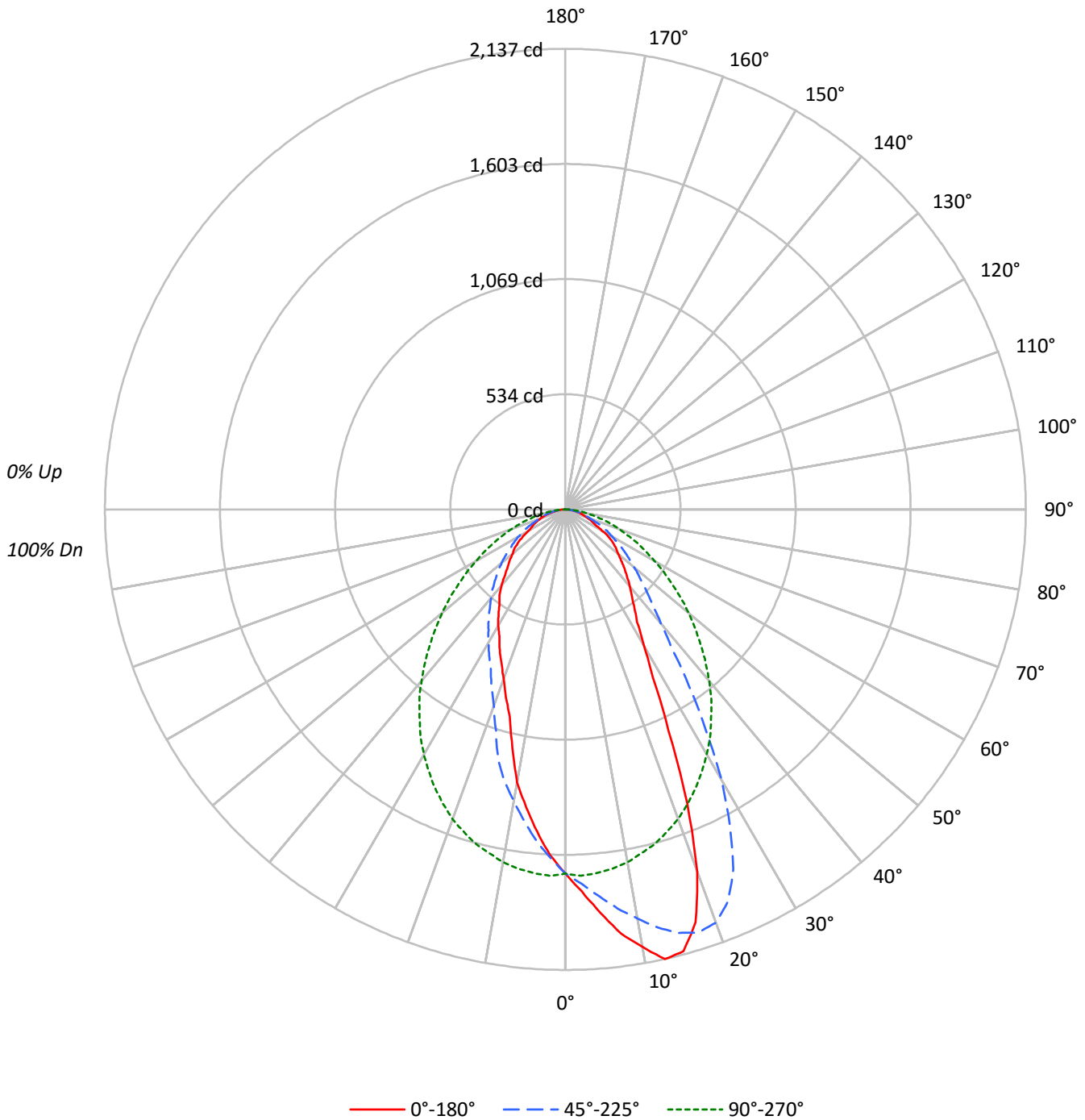
Lumens per Lamp: N/A
Luminaire Lumens: 2919.7 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 41.1
Input Voltage (V): 120
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: 25 FT



TEST NUMBER: P333864
CATALOG NUMBER: SA2XXRDP-C1005D927-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P333864

CATALOG NUMBER: SA2XXRDP-C1005D927-4F0-1E-UDD-A

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 | 111 | 106 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 |
| 4 | 87 | 77 | 69 | 63 | 85 | 76 | 68 | 63 | 73 | 67 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 59 |
| 5 | 81 | 70 | 62 | 56 | 79 | 69 | 61 | 56 | 67 | 60 | 55 | 65 | 59 | 55 | 63 | 58 | 54 | 52 |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 55 | 50 | 61 | 54 | 49 | 60 | 54 | 49 | 58 | 53 | 49 | 47 |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 39 |
| 9 | 62 | 50 | 43 | 38 | 61 | 50 | 42 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 47 | 41 | 37 | 35 |
| 10 | 59 | 47 | 39 | 35 | 58 | 46 | 39 | 35 | 45 | 39 | 34 | 44 | 38 | 34 | 44 | 38 | 34 | 33 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 27280 | 27280 | 27280 |
| 5° | 30467 | 27451 | 24339 |
| 10° | 33803 | 27258 | 21099 |
| 15° | 35465 | 26858 | 16623 |
| 20° | 30746 | 26266 | 14385 |
| 25° | 20165 | 25456 | 12843 |
| 30° | 13573 | 24473 | 11624 |
| 35° | 10993 | 23235 | 10484 |
| 40° | 9775 | 21888 | 9702 |
| 45° | 8848 | 20308 | 8659 |
| 50° | 8050 | 18743 | 8023 |
| 55° | 7569 | 17005 | 7471 |
| 60° | 6332 | 15413 | 6255 |
| 65° | 5337 | 13994 | 6055 |
| 70° | 4933 | 12500 | 5707 |
| 75° | 4616 | 10880 | 5271 |
| 80° | 4258 | 8954 | 4695 |
| 85° | 3909 | 7077 | 4131 |



TEST NUMBER: P333864

CATALOG NUMBER: SA2XXRDP-C1005D927-4F0-1E-UDD-A

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 160.3 | 5.5 |
| 10°-20° | 447.3 | 15.3 |
| 20°-30° | 575.7 | 19.7 |
| 30°-40° | 546.1 | 18.7 |
| 40°-50° | 468.0 | 16.0 |
| 50°-60° | 356.5 | 12.2 |
| 60°-70° | 224.8 | 7.7 |
| 70°-80° | 112.2 | 3.8 |
| 80°-90° | 28.8 | 1.0 |
| 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° | 1183.2 | 40.5 |
| 0°-40° | 1729.4 | 59.2 |
| 0°-60° | 2553.8 | 87.5 |
| 0°-90° | 2919.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2919.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1690 | 1690 | 1690 | 1690 | 1690 | |
| 5° | 1880 | 1802 | 1694 | 1543 | 1502 | 185 |
| 15° | 2122 | 2035 | 1607 | 1203 | 994 | 577 |
| 25° | 1132 | 1844 | 1429 | 818 | 721 | 534 |
| 35° | 558 | 1002 | 1179 | 621 | 532 | 355 |
| 45° | 388 | 528 | 889 | 458 | 379 | 300 |
| 55° | 269 | 329 | 604 | 311 | 265 | 237 |
| 65° | 140 | 188 | 366 | 187 | 158 | 141 |
| 75° | 74 | 83 | 174 | 95 | 84 | 78 |
| 85° | 21 | 22 | 38 | 22 | 22 | 23 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P333864

CATALOG NUMBER: SA2XXRDP-C1005D927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 |
| 2.5° | 1775.3 | 1777.1 | 1778.8 | 1774.7 | 1774.7 | 1771.2 | 1763.6 | 1757.7 | 1741.2 | 1738.9 | 1738.9 |
| 5° | 1879.8 | 1878.6 | 1881.0 | 1873.3 | 1862.8 | 1860.4 | 1849.3 | 1834.6 | 1819.3 | 1802.3 | 1798.8 |
| 7.5° | 1985.5 | 1978.4 | 1975.5 | 1979.0 | 1967.9 | 1952.6 | 1933.8 | 1916.2 | 1889.8 | 1868.1 | 1854.6 |
| 10° | 2061.8 | 2081.2 | 2069.4 | 2048.9 | 2053.0 | 2025.4 | 2010.7 | 1985.5 | 1964.3 | 1927.3 | 1919.1 |
| 12.5° | 2136.9 | 2141.6 | 2139.9 | 2130.5 | 2122.8 | 2105.8 | 2084.7 | 2063.5 | 2020.1 | 1987.8 | 1953.8 |
| 15° | 2121.7 | 2132.8 | 2135.8 | 2132.2 | 2135.2 | 2134.0 | 2123.4 | 2105.2 | 2071.2 | 2034.8 | 2003.1 |
| 17.5° | 2009.0 | 2021.9 | 2032.4 | 2041.8 | 2056.5 | 2085.3 | 2094.1 | 2097.6 | 2083.5 | 2057.7 | 2031.3 |
| 20° | 1789.4 | 1776.5 | 1830.5 | 1858.1 | 1881.6 | 1940.3 | 1990.8 | 2010.1 | 2041.2 | 2040.7 | 2034.8 |
| 22.5° | 1478.2 | 1485.3 | 1535.8 | 1569.8 | 1649.7 | 1708.4 | 1767.7 | 1854.0 | 1921.5 | 1971.4 | 2001.9 |
| 25° | 1131.9 | 1154.2 | 1205.3 | 1249.9 | 1326.2 | 1435.4 | 1534.6 | 1649.7 | 1758.3 | 1844.0 | 1925.6 |
| 27.5° | 880.6 | 883.5 | 929.9 | 975.1 | 1022.1 | 1116.6 | 1249.3 | 1387.2 | 1542.2 | 1653.8 | 1794.7 |
| 30° | 728.0 | 724.4 | 741.5 | 766.7 | 805.5 | 874.7 | 968.7 | 1103.7 | 1258.1 | 1450.6 | 1622.1 |
| 32.5° | 619.9 | 621.1 | 632.9 | 649.9 | 680.4 | 721.5 | 778.5 | 881.8 | 1025.6 | 1214.1 | 1422.5 |
| 35° | 557.7 | 557.1 | 566.5 | 580.0 | 593.5 | 623.5 | 667.5 | 725.0 | 825.4 | 1002.1 | 1207.6 |
| 37.5° | 506.1 | 509.0 | 513.1 | 521.9 | 538.3 | 556.0 | 583.5 | 624.1 | 700.4 | 810.2 | 994.5 |
| 40° | 463.8 | 465.0 | 471.4 | 478.5 | 487.3 | 500.2 | 521.9 | 553.0 | 605.3 | 688.6 | 814.9 |
| 42.5° | 425.0 | 426.2 | 430.3 | 436.8 | 443.2 | 456.2 | 473.2 | 499.0 | 538.9 | 599.4 | 698.0 |
| 45° | 387.5 | 387.5 | 391.6 | 394.5 | 402.1 | 413.9 | 428.6 | 450.9 | 480.2 | 528.4 | 597.6 |
| 47.5° | 351.1 | 351.1 | 354.0 | 359.3 | 364.6 | 374.0 | 389.2 | 408.0 | 429.1 | 468.5 | 530.1 |
| 50° | 320.5 | 321.1 | 322.9 | 327.0 | 329.9 | 338.2 | 349.3 | 365.2 | 387.5 | 416.2 | 465.5 |
| 52.5° | 295.9 | 295.3 | 297.6 | 298.8 | 300.6 | 305.9 | 313.5 | 327.0 | 346.4 | 370.4 | 409.2 |
| 55° | 268.9 | 266.5 | 270.1 | 273.0 | 274.7 | 277.1 | 281.8 | 290.6 | 307.6 | 328.8 | 359.3 |
| 57.5° | 237.2 | 236.0 | 237.8 | 240.7 | 246.0 | 251.9 | 254.8 | 260.7 | 269.5 | 285.9 | 318.2 |
| 60° | 196.1 | 196.1 | 201.4 | 203.1 | 209.6 | 217.8 | 226.0 | 230.7 | 239.5 | 249.5 | 271.8 |
| 62.5° | 159.7 | 160.3 | 162.0 | 163.8 | 166.7 | 177.3 | 189.6 | 201.4 | 209.6 | 219.0 | 231.9 |
| 65° | 139.7 | 140.9 | 140.9 | 142.1 | 144.4 | 146.8 | 151.5 | 159.7 | 174.4 | 187.9 | 199.0 |
| 67.5° | 122.1 | 122.1 | 122.7 | 123.9 | 124.5 | 127.4 | 129.2 | 133.3 | 136.2 | 151.5 | 166.7 |
| 70° | 104.5 | 106.3 | 105.7 | 106.8 | 107.4 | 108.6 | 111.0 | 112.7 | 118.0 | 120.9 | 129.2 |
| 72.5° | 88.1 | 89.2 | 89.2 | 89.8 | 91.6 | 91.6 | 93.3 | 95.1 | 98.0 | 100.4 | 103.9 |
| 75° | 74.0 | 73.4 | 74.0 | 75.1 | 75.7 | 76.3 | 76.3 | 78.7 | 80.4 | 82.8 | 85.7 |
| 77.5° | 59.9 | 60.5 | 60.5 | 60.5 | 60.5 | 61.6 | 61.6 | 62.8 | 64.6 | 65.8 | 67.5 |
| 80° | 45.8 | 46.4 | 45.8 | 46.4 | 47.0 | 47.6 | 47.0 | 47.6 | 49.3 | 50.5 | 50.5 |
| 82.5° | 32.9 | 32.9 | 33.5 | 33.5 | 33.5 | 33.5 | 34.6 | 34.6 | 35.8 | 35.2 | 35.8 |
| 85° | 21.1 | 20.5 | 20.5 | 20.5 | 21.1 | 21.7 | 21.1 | 21.1 | 21.7 | 21.7 | 21.7 |
| 87.5° | 9.4 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.6 | 10.0 | 10.6 | 10.0 |
| 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: P333864

CATALOG NUMBER: SA2XXRDP-C1005D927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 |
| 2.5° | 1740.1 | 1735.4 | 1731.3 | 1720.7 | 1715.4 | 1703.7 | 1701.9 | 1701.3 | 1686.1 | 1671.4 | 1667.3 |
| 5° | 1789.4 | 1780.0 | 1765.9 | 1749.5 | 1732.4 | 1714.8 | 1703.1 | 1693.7 | 1670.2 | 1647.9 | 1635.0 |
| 7.5° | 1838.1 | 1821.1 | 1798.8 | 1770.6 | 1746.5 | 1718.4 | 1699.0 | 1681.4 | 1649.1 | 1619.7 | 1600.4 |
| 10° | 1893.9 | 1861.0 | 1828.7 | 1785.9 | 1752.4 | 1719.5 | 1689.0 | 1662.6 | 1625.0 | 1582.7 | 1552.8 |
| 12.5° | 1928.5 | 1891.5 | 1844.0 | 1802.3 | 1756.5 | 1712.5 | 1669.0 | 1633.2 | 1587.4 | 1543.4 | 1506.4 |
| 15° | 1959.1 | 1920.3 | 1866.3 | 1806.4 | 1750.6 | 1696.0 | 1649.1 | 1606.8 | 1549.3 | 1497.0 | 1453.6 |
| 17.5° | 1987.2 | 1933.8 | 1878.0 | 1808.8 | 1747.1 | 1680.8 | 1621.5 | 1568.6 | 1505.8 | 1444.2 | 1394.9 |
| 20° | 1999.6 | 1946.7 | 1879.8 | 1810.5 | 1734.2 | 1652.6 | 1587.4 | 1528.7 | 1460.0 | 1391.4 | 1332.6 |
| 22.5° | 1991.9 | 1953.8 | 1877.4 | 1791.1 | 1712.5 | 1626.2 | 1550.5 | 1480.0 | 1401.9 | 1331.5 | 1261.0 |
| 25° | 1952.0 | 1937.9 | 1867.5 | 1777.1 | 1687.8 | 1588.6 | 1503.5 | 1428.9 | 1342.0 | 1266.9 | 1192.9 |
| 27.5° | 1878.6 | 1899.2 | 1849.3 | 1751.2 | 1654.9 | 1548.1 | 1455.3 | 1371.4 | 1282.7 | 1198.8 | 1124.8 |
| 30° | 1762.4 | 1832.2 | 1813.5 | 1724.2 | 1613.3 | 1508.8 | 1401.3 | 1312.7 | 1216.4 | 1129.5 | 1056.7 |
| 32.5° | 1603.3 | 1730.1 | 1757.7 | 1686.7 | 1571.0 | 1453.6 | 1339.7 | 1251.6 | 1150.1 | 1057.3 | 986.9 |
| 35° | 1432.4 | 1605.0 | 1684.3 | 1636.7 | 1521.7 | 1397.8 | 1281.6 | 1178.8 | 1077.9 | 987.5 | 917.0 |
| 37.5° | 1229.9 | 1460.0 | 1582.2 | 1576.9 | 1467.1 | 1340.9 | 1214.6 | 1113.1 | 1009.2 | 919.9 | 846.6 |
| 40° | 1033.8 | 1288.6 | 1460.6 | 1498.8 | 1409.6 | 1270.4 | 1142.4 | 1038.5 | 937.5 | 850.7 | 763.2 |
| 42.5° | 857.7 | 1111.3 | 1332.6 | 1406.0 | 1339.7 | 1201.7 | 1073.2 | 963.4 | 865.9 | 784.9 | 695.1 |
| 45° | 722.1 | 944.0 | 1177.1 | 1295.7 | 1256.3 | 1128.3 | 992.7 | 889.4 | 797.2 | 726.2 | 640.5 |
| 47.5° | 625.2 | 786.7 | 1020.9 | 1175.9 | 1171.2 | 1049.7 | 914.7 | 815.4 | 728.6 | 662.8 | 590.0 |
| 50° | 544.8 | 681.0 | 871.8 | 1053.8 | 1069.1 | 971.0 | 844.2 | 746.2 | 666.3 | 596.5 | 540.7 |
| 52.5° | 472.6 | 578.9 | 745.6 | 918.2 | 968.7 | 887.1 | 765.0 | 676.3 | 599.4 | 536.6 | 490.8 |
| 55° | 411.5 | 498.4 | 628.8 | 792.0 | 857.7 | 797.8 | 688.6 | 604.1 | 541.3 | 487.3 | 446.2 |
| 57.5° | 358.1 | 426.2 | 534.8 | 671.6 | 746.2 | 705.7 | 612.3 | 542.5 | 486.7 | 436.2 | 403.3 |
| 60° | 308.2 | 361.6 | 450.3 | 560.1 | 644.6 | 618.2 | 541.3 | 477.3 | 431.5 | 389.2 | 358.7 |
| 62.5° | 261.2 | 305.3 | 378.1 | 462.0 | 537.8 | 530.7 | 471.4 | 420.3 | 381.6 | 344.0 | 319.4 |
| 65° | 217.8 | 251.3 | 310.6 | 380.4 | 442.7 | 447.9 | 402.7 | 366.3 | 330.5 | 300.0 | 277.1 |
| 67.5° | 180.2 | 203.1 | 247.7 | 309.4 | 356.9 | 373.4 | 342.8 | 313.5 | 284.1 | 259.5 | 238.9 |
| 70° | 146.2 | 163.8 | 194.3 | 241.9 | 284.7 | 302.3 | 286.5 | 264.8 | 240.1 | 220.7 | 203.7 |
| 72.5° | 111.5 | 128.6 | 149.1 | 180.8 | 216.0 | 235.4 | 232.5 | 218.4 | 199.6 | 184.3 | 168.5 |
| 75° | 89.2 | 94.5 | 109.8 | 133.3 | 162.0 | 178.5 | 182.6 | 174.4 | 158.5 | 146.2 | 136.8 |
| 77.5° | 69.3 | 72.8 | 81.0 | 95.1 | 115.1 | 129.7 | 136.2 | 135.0 | 123.3 | 115.1 | 106.3 |
| 80° | 52.8 | 54.6 | 58.1 | 63.4 | 77.5 | 92.2 | 96.3 | 96.3 | 88.6 | 85.7 | 76.9 |
| 82.5° | 37.0 | 38.2 | 39.9 | 42.3 | 47.0 | 59.3 | 64.0 | 65.2 | 61.1 | 56.9 | 50.5 |
| 85° | 22.9 | 22.3 | 23.5 | 25.2 | 26.4 | 29.9 | 37.0 | 38.2 | 37.0 | 32.3 | 30.5 |
| 87.5° | 10.0 | 10.6 | 10.6 | 10.0 | 10.6 | 11.2 | 14.1 | 17.0 | 14.7 | 12.9 | 11.7 |
| 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: P333864

CATALOG NUMBER: SA2XXRDP-C1005D927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 | 1689.6 |
| 2.5° | 1659.6 | 1655.5 | 1647.9 | 1636.2 | 1629.1 | 1616.8 | 1608.6 | 1613.3 | 1614.4 | 1613.3 | 1612.1 |
| 5° | 1620.9 | 1608.6 | 1591.5 | 1575.1 | 1559.8 | 1543.4 | 1534.0 | 1529.9 | 1521.7 | 1517.0 | 1514.6 |
| 7.5° | 1576.9 | 1558.7 | 1534.6 | 1508.2 | 1483.5 | 1460.0 | 1449.5 | 1441.3 | 1426.0 | 1417.8 | 1410.1 |
| 10° | 1526.4 | 1492.9 | 1468.8 | 1431.3 | 1408.4 | 1374.9 | 1352.0 | 1352.6 | 1329.7 | 1316.8 | 1307.4 |
| 12.5° | 1470.6 | 1433.0 | 1389.0 | 1356.1 | 1322.1 | 1296.8 | 1268.1 | 1254.0 | 1229.3 | 1217.0 | 1187.6 |
| 15° | 1407.8 | 1364.9 | 1322.7 | 1276.9 | 1244.6 | 1202.9 | 1163.0 | 1114.3 | 1074.9 | 1040.9 | 1031.5 |
| 17.5° | 1340.9 | 1288.0 | 1246.3 | 1199.4 | 1148.9 | 1073.2 | 1023.8 | 993.9 | 970.4 | 952.8 | 938.7 |
| 20° | 1271.6 | 1217.6 | 1172.4 | 1091.4 | 1016.8 | 969.3 | 935.2 | 913.5 | 888.8 | 869.4 | 858.9 |
| 22.5° | 1198.8 | 1141.9 | 1076.1 | 983.3 | 929.3 | 893.5 | 864.2 | 838.3 | 823.7 | 809.6 | 800.2 |
| 25° | 1130.7 | 1069.1 | 967.5 | 905.3 | 858.3 | 818.4 | 797.2 | 782.0 | 764.4 | 743.8 | 734.4 |
| 27.5° | 1059.7 | 961.6 | 884.7 | 839.5 | 791.4 | 766.1 | 747.9 | 722.7 | 706.8 | 699.2 | 688.6 |
| 30° | 978.1 | 880.0 | 823.1 | 772.6 | 740.9 | 712.1 | 689.8 | 676.9 | 661.6 | 645.8 | 639.3 |
| 32.5° | 887.1 | 813.7 | 759.7 | 719.7 | 687.5 | 664.0 | 647.5 | 624.6 | 614.7 | 606.4 | 591.2 |
| 35° | 814.9 | 755.6 | 705.7 | 671.6 | 641.1 | 621.1 | 600.6 | 588.2 | 568.3 | 560.1 | 554.8 |
| 37.5° | 749.1 | 697.4 | 659.9 | 622.3 | 598.8 | 575.3 | 563.6 | 543.0 | 535.4 | 522.5 | 511.9 |
| 40° | 695.1 | 644.6 | 608.8 | 579.4 | 552.4 | 536.0 | 520.1 | 504.3 | 491.4 | 486.1 | 472.6 |
| 42.5° | 639.9 | 601.2 | 565.3 | 532.5 | 516.6 | 499.0 | 477.9 | 467.3 | 453.8 | 444.4 | 437.4 |
| 45° | 590.0 | 553.6 | 523.1 | 496.7 | 476.7 | 458.5 | 445.6 | 426.2 | 418.6 | 401.6 | 394.5 |
| 47.5° | 546.0 | 510.8 | 481.4 | 455.6 | 435.6 | 425.0 | 406.3 | 389.2 | 378.7 | 366.9 | 356.9 |
| 50° | 498.4 | 470.2 | 442.1 | 419.8 | 402.1 | 385.1 | 365.7 | 358.1 | 339.3 | 334.0 | 328.8 |
| 52.5° | 455.0 | 428.6 | 403.3 | 381.6 | 364.0 | 347.5 | 331.1 | 320.5 | 309.4 | 304.1 | 300.6 |
| 55° | 415.1 | 389.2 | 364.6 | 345.2 | 327.6 | 310.6 | 300.0 | 287.7 | 281.8 | 277.7 | 273.0 |
| 57.5° | 374.0 | 350.5 | 331.1 | 311.1 | 293.5 | 279.4 | 266.5 | 259.5 | 253.6 | 248.9 | 242.5 |
| 60° | 335.2 | 312.9 | 295.9 | 277.7 | 259.5 | 248.3 | 238.9 | 230.1 | 223.1 | 214.9 | 212.5 |
| 62.5° | 294.1 | 275.3 | 260.1 | 242.5 | 227.2 | 217.2 | 208.4 | 200.2 | 191.4 | 178.5 | 174.9 |
| 65° | 257.1 | 241.9 | 225.4 | 210.8 | 196.7 | 186.7 | 173.8 | 164.4 | 160.9 | 159.7 | 159.1 |
| 67.5° | 223.1 | 208.4 | 194.3 | 179.1 | 166.1 | 155.0 | 147.4 | 146.2 | 143.8 | 143.2 | 141.5 |
| 70° | 189.0 | 175.5 | 161.4 | 147.4 | 135.0 | 133.3 | 130.9 | 128.6 | 125.6 | 124.5 | 123.3 |
| 72.5° | 158.5 | 144.4 | 130.3 | 119.8 | 116.2 | 113.9 | 111.5 | 109.2 | 107.4 | 106.3 | 105.7 |
| 75° | 126.2 | 113.3 | 103.9 | 99.8 | 96.9 | 95.1 | 91.6 | 89.8 | 88.6 | 86.9 | 86.3 |
| 77.5° | 96.3 | 88.1 | 83.4 | 81.0 | 77.5 | 75.7 | 73.4 | 71.6 | 69.9 | 69.9 | 68.7 |
| 80° | 69.3 | 65.8 | 62.8 | 59.3 | 58.1 | 55.8 | 55.2 | 53.4 | 54.0 | 52.2 | 52.2 |
| 82.5° | 49.9 | 45.2 | 42.9 | 41.7 | 40.5 | 38.7 | 38.2 | 37.6 | 37.6 | 36.4 | 36.4 |
| 85° | 27.6 | 26.4 | 25.2 | 24.1 | 24.1 | 22.3 | 22.9 | 22.3 | 22.3 | 21.1 | 20.5 |
| 87.5° | 11.2 | 10.6 | 9.4 | 9.4 | 9.4 | 8.8 | 8.8 | 8.2 | 8.2 | 8.2 | 7.6 |
| 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: P333864

CATALOG NUMBER: SA2XXRDP-C1005D927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1689.6 | 1689.6 | 1689.6 | 1689.6 |
| 2.5° | 1605.6 | 1606.8 | 1605.0 | 1606.2 |
| 5° | 1511.7 | 1504.7 | 1503.5 | 1501.7 |
| 7.5° | 1400.7 | 1400.2 | 1396.6 | 1392.5 |
| 10° | 1294.5 | 1291.6 | 1291.0 | 1286.9 |
| 12.5° | 1170.0 | 1147.1 | 1144.8 | 1133.0 |
| 15° | 1017.4 | 1013.9 | 1002.1 | 994.5 |
| 17.5° | 932.3 | 920.5 | 916.4 | 914.7 |
| 20° | 850.7 | 840.1 | 838.3 | 837.2 |
| 22.5° | 794.3 | 783.2 | 777.9 | 773.8 |
| 25° | 728.6 | 724.4 | 722.1 | 720.9 |
| 27.5° | 676.9 | 666.3 | 665.1 | 662.2 |
| 30° | 634.0 | 631.1 | 627.0 | 623.5 |
| 32.5° | 583.5 | 581.2 | 577.7 | 576.5 |
| 35° | 548.9 | 540.7 | 537.2 | 531.9 |
| 37.5° | 510.8 | 506.1 | 500.2 | 502.5 |
| 40° | 465.0 | 462.0 | 460.8 | 460.3 |
| 42.5° | 428.6 | 419.2 | 415.6 | 415.6 |
| 45° | 391.6 | 383.9 | 378.7 | 379.2 |
| 47.5° | 351.7 | 352.2 | 348.7 | 349.9 |
| 50° | 324.6 | 321.1 | 318.8 | 319.4 |
| 52.5° | 298.8 | 295.9 | 294.1 | 297.1 |
| 55° | 270.1 | 266.5 | 265.9 | 265.4 |
| 57.5° | 238.9 | 237.2 | 234.2 | 232.5 |
| 60° | 204.9 | 200.2 | 194.3 | 193.7 |
| 62.5° | 173.8 | 173.8 | 173.8 | 173.8 |
| 65° | 157.9 | 157.3 | 157.9 | 158.5 |
| 67.5° | 141.5 | 140.3 | 139.1 | 139.7 |
| 70° | 122.1 | 121.5 | 120.9 | 120.9 |
| 72.5° | 103.3 | 103.3 | 102.7 | 102.2 |
| 75° | 85.7 | 84.5 | 84.5 | 84.5 |
| 77.5° | 68.7 | 68.1 | 67.5 | 66.9 |
| 80° | 51.7 | 51.1 | 50.5 | 50.5 |
| 82.5° | 36.4 | 35.8 | 35.8 | 35.2 |
| 85° | 21.1 | 21.7 | 21.1 | 22.3 |
| 87.5° | 7.6 | 7.0 | 7.6 | 7.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)