

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: P334209

Luminaire Tested: **S124RDS-S1195D840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-31)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDS-S1195D840-4F0-1E-UDD-A
Description: DEFINE 4 REGRESSED DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 1195 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4695.3 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Direct

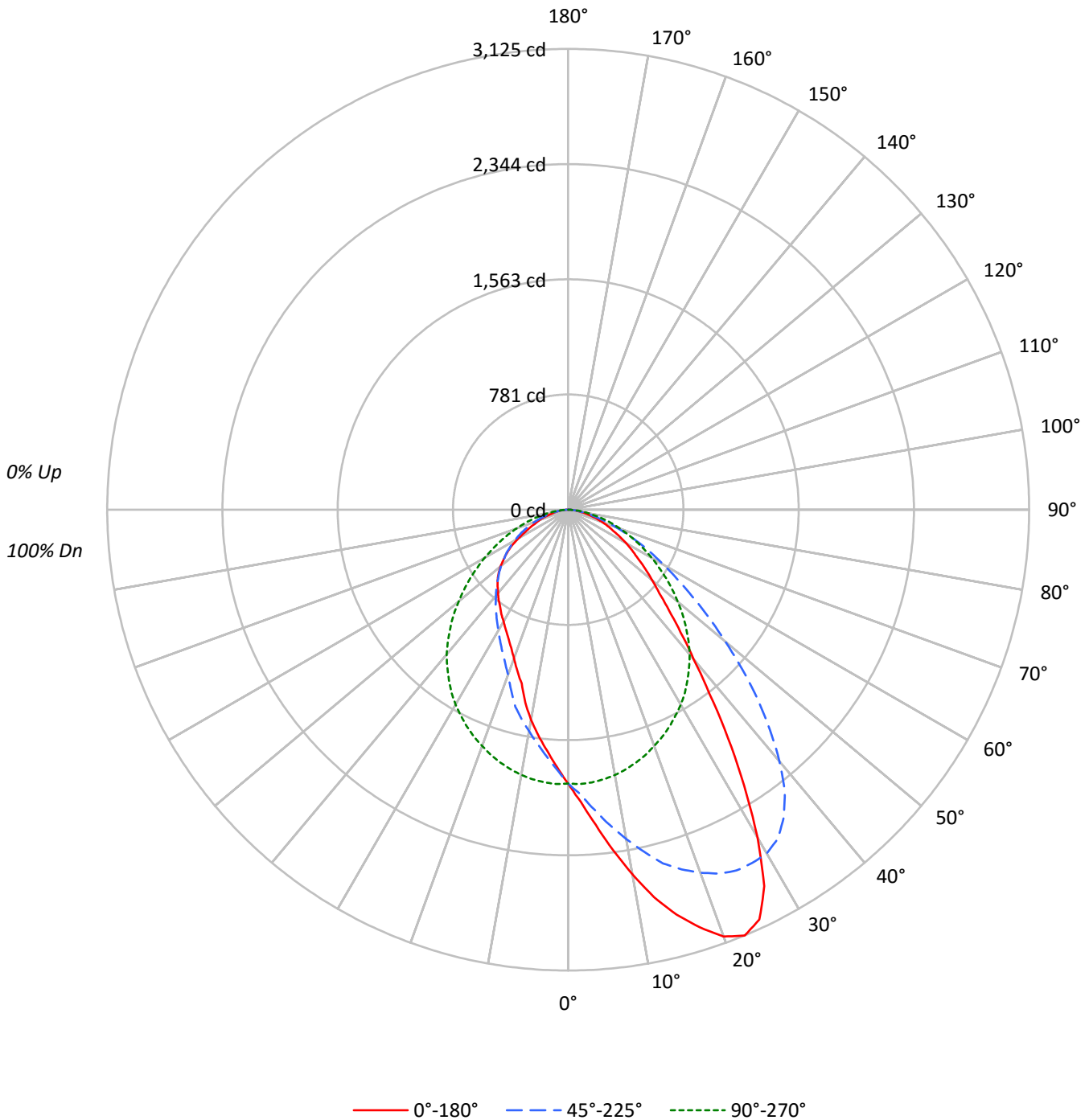
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334209

CATALOG NUMBER: S124RDS-S1195D840-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P334209

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|---|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 | | | | | 86 | | | |
| 2 | 101 | 93 | 87 | 82 | 98 | 92 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 79 | 76 | 74 | | | | | 74 | | | |
| 3 | 93 | 83 | 76 | 70 | 90 | 81 | 75 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 73 | 69 | 65 | 63 | | | | | 63 | | | |
| 4 | 85 | 74 | 66 | 60 | 83 | 73 | 65 | 59 | 71 | 64 | 59 | 68 | 63 | 58 | 66 | 61 | 57 | 55 | | | | | 55 | | | |
| 5 | 79 | 67 | 58 | 52 | 77 | 66 | 58 | 52 | 64 | 57 | 51 | 62 | 56 | 51 | 60 | 55 | 50 | 48 | | | | | 48 | | | |
| 6 | 73 | 61 | 52 | 46 | 71 | 60 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 45 | 55 | 49 | 45 | 43 | | | | | 43 | | | |
| 7 | 68 | 55 | 47 | 41 | 66 | 54 | 47 | 41 | 53 | 46 | 41 | 52 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | 38 | | | |
| 8 | 64 | 51 | 42 | 37 | 62 | 50 | 42 | 37 | 49 | 42 | 37 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | | 34 | | | |
| 9 | 59 | 47 | 39 | 33 | 58 | 46 | 38 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 | | | | | 31 | | | |
| 10 | 56 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 28 | | | | | 28 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 14995 | 14995 | 14995 |
| 5° | 17393 | 15040 | 13293 |
| 10° | 20576 | 14974 | 11864 |
| 15° | 23767 | 14836 | 10195 |
| 20° | 26462 | 14645 | 9219 |
| 25° | 27317 | 14459 | 8559 |
| 30° | 23913 | 14231 | 8162 |
| 35° | 18615 | 13895 | 7921 |
| 40° | 13959 | 13509 | 7792 |
| 45° | 11022 | 12893 | 7724 |
| 50° | 9305 | 12181 | 7500 |
| 55° | 8110 | 11396 | 7099 |
| 60° | 7298 | 10585 | 6282 |
| 65° | 6434 | 9706 | 5404 |
| 70° | 5795 | 8797 | 4874 |
| 75° | 4857 | 7795 | 4155 |
| 80° | 4105 | 6643 | 3896 |
| 85° | 3464 | 5196 | 3464 |



TEST NUMBER: P334209

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 179.8 | 3.8 |
| 10°-20° | 543.1 | 11.6 |
| 20°-30° | 850.8 | 18.1 |
| 30°-40° | 944.8 | 20.1 |
| 40°-50° | 837.2 | 17.8 |
| 50°-60° | 652.4 | 13.9 |
| 60°-70° | 426.8 | 9.1 |
| 70°-80° | 209.4 | 4.5 |
| 80°-90° | 51.0 | 1.1 |
| 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° | 1573.7 | 33.5 |
| 0°-40° | 2518.5 | 53.6 |
| 0°-60° | 4008.1 | 85.4 |
| 0°-90° | 4695.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4695.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1857 | 1857 | 1857 | 1857 | 1857 | |
| 5° | 2146 | 2043 | 1856 | 1679 | 1640 | 216 |
| 15° | 2844 | 2483 | 1775 | 1383 | 1220 | 809 |
| 25° | 3067 | 2700 | 1623 | 1057 | 961 | 1369 |
| 35° | 1889 | 2547 | 1410 | 850 | 804 | 1182 |
| 45° | 965 | 1815 | 1129 | 676 | 676 | 761 |
| 55° | 576 | 1027 | 810 | 510 | 504 | 523 |
| 65° | 337 | 528 | 508 | 330 | 283 | 338 |
| 75° | 156 | 201 | 250 | 160 | 133 | 171 |
| 85° | 37 | 40 | 56 | 40 | 37 | 43 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P334209

CATALOG NUMBER: S124RDS-S1195D840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 |
| 2.5° | 1984.6 | 1991.4 | 1984.6 | 1983.9 | 1976.4 | 1974.2 | 1971.2 | 1961.4 | 1943.5 | 1933.0 | 1935.2 |
| 5° | 2146.3 | 2165.0 | 2154.5 | 2153.0 | 2136.5 | 2120.1 | 2109.6 | 2085.7 | 2060.2 | 2043.0 | 2028.8 |
| 7.5° | 2325.9 | 2337.1 | 2329.6 | 2321.4 | 2292.9 | 2284.0 | 2259.3 | 2230.8 | 2188.2 | 2156.0 | 2126.8 |
| 10° | 2510.0 | 2519.0 | 2516.0 | 2496.5 | 2477.0 | 2437.4 | 2414.9 | 2370.8 | 2313.2 | 2267.5 | 2224.8 |
| 12.5° | 2691.1 | 2700.8 | 2668.6 | 2674.6 | 2633.4 | 2604.3 | 2565.3 | 2507.0 | 2438.1 | 2376.0 | 2319.9 |
| 15° | 2843.7 | 2831.8 | 2831.8 | 2816.8 | 2775.6 | 2732.2 | 2695.6 | 2637.2 | 2553.4 | 2483.0 | 2408.9 |
| 17.5° | 2969.5 | 2974.7 | 2968.7 | 2930.5 | 2900.6 | 2856.5 | 2790.6 | 2724.0 | 2651.4 | 2557.1 | 2483.8 |
| 20° | 3080.2 | 3080.2 | 3073.5 | 3049.5 | 3007.6 | 2959.7 | 2887.1 | 2813.1 | 2714.3 | 2619.2 | 2533.9 |
| 22.5° | 3125.1 | 3128.1 | 3119.9 | 3101.2 | 3064.5 | 3018.1 | 2959.0 | 2883.4 | 2780.9 | 2670.9 | 2560.1 |
| 25° | 3066.7 | 3081.0 | 3082.5 | 3077.2 | 3066.0 | 3037.6 | 2984.4 | 2907.3 | 2816.0 | 2700.1 | 2586.3 |
| 27.5° | 2878.2 | 2896.9 | 2904.4 | 2920.8 | 2951.5 | 2962.7 | 2956.0 | 2904.4 | 2816.0 | 2701.5 | 2588.5 |
| 30° | 2565.3 | 2580.3 | 2629.0 | 2692.6 | 2742.0 | 2786.9 | 2825.8 | 2836.3 | 2791.4 | 2691.1 | 2570.6 |
| 32.5° | 2218.1 | 2239.8 | 2288.5 | 2358.1 | 2448.6 | 2532.4 | 2632.0 | 2685.1 | 2694.8 | 2644.7 | 2535.4 |
| 35° | 1888.8 | 1903.8 | 1948.7 | 2020.5 | 2119.3 | 2232.3 | 2370.8 | 2478.5 | 2551.9 | 2546.6 | 2478.5 |
| 37.5° | 1573.0 | 1594.0 | 1639.6 | 1698.8 | 1796.0 | 1940.5 | 2071.4 | 2215.9 | 2347.6 | 2411.9 | 2377.5 |
| 40° | 1324.6 | 1325.3 | 1369.5 | 1430.8 | 1520.7 | 1642.6 | 1788.6 | 1953.2 | 2104.4 | 2227.8 | 2251.8 |
| 42.5° | 1128.5 | 1128.5 | 1154.0 | 1221.3 | 1279.7 | 1392.7 | 1530.4 | 1693.5 | 1876.9 | 2024.3 | 2097.6 |
| 45° | 965.4 | 972.1 | 996.1 | 1035.7 | 1086.6 | 1183.9 | 1295.4 | 1447.3 | 1645.6 | 1814.8 | 1920.3 |
| 47.5° | 836.7 | 848.6 | 862.8 | 898.8 | 940.7 | 1008.8 | 1103.8 | 1246.0 | 1410.6 | 1598.5 | 1744.4 |
| 50° | 740.9 | 742.4 | 761.8 | 779.8 | 815.0 | 866.6 | 947.4 | 1061.2 | 1209.3 | 1388.2 | 1555.1 |
| 52.5° | 658.5 | 657.8 | 667.5 | 691.5 | 718.4 | 755.8 | 817.2 | 918.2 | 1045.4 | 1201.1 | 1374.7 |
| 55° | 576.2 | 580.0 | 589.0 | 606.9 | 628.6 | 657.1 | 708.7 | 786.5 | 889.8 | 1026.7 | 1183.1 |
| 57.5° | 513.4 | 515.6 | 523.8 | 530.6 | 551.5 | 572.5 | 614.4 | 670.5 | 761.1 | 875.6 | 1029.0 |
| 60° | 452.0 | 452.8 | 455.0 | 466.2 | 481.9 | 501.4 | 527.6 | 573.2 | 646.6 | 749.1 | 864.3 |
| 62.5° | 392.1 | 393.6 | 397.4 | 404.9 | 416.1 | 428.1 | 455.7 | 490.2 | 547.8 | 631.6 | 732.6 |
| 65° | 336.8 | 337.5 | 342.7 | 345.7 | 355.5 | 367.4 | 387.6 | 412.3 | 454.2 | 527.6 | 606.2 |
| 67.5° | 290.4 | 290.4 | 290.4 | 294.9 | 302.3 | 310.6 | 324.0 | 345.0 | 378.7 | 425.8 | 499.2 |
| 70° | 245.5 | 245.5 | 247.0 | 249.2 | 252.9 | 259.7 | 266.4 | 281.4 | 304.6 | 341.2 | 394.4 |
| 72.5° | 203.6 | 204.3 | 205.8 | 205.8 | 207.3 | 212.5 | 217.0 | 225.3 | 241.0 | 266.4 | 306.8 |
| 75° | 155.7 | 157.9 | 161.6 | 164.6 | 168.4 | 167.6 | 172.9 | 178.9 | 184.1 | 200.6 | 225.3 |
| 77.5° | 122.7 | 121.2 | 121.2 | 124.2 | 125.0 | 125.7 | 129.5 | 134.7 | 139.2 | 148.2 | 157.2 |
| 80° | 88.3 | 88.3 | 90.6 | 91.3 | 90.6 | 91.3 | 95.0 | 97.3 | 98.8 | 101.8 | 110.0 |
| 82.5° | 61.4 | 62.9 | 61.4 | 62.1 | 62.9 | 63.6 | 66.6 | 66.6 | 68.1 | 68.8 | 71.1 |
| 85° | 37.4 | 38.2 | 38.9 | 37.4 | 37.4 | 37.4 | 38.9 | 39.7 | 41.2 | 40.4 | 41.9 |
| 87.5° | 16.5 | 15.7 | 16.5 | 16.5 | 17.2 | 16.5 | 17.2 | 18.7 | 17.2 | 18.0 | 18.0 |
| 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: P334209

CATALOG NUMBER: S124RDS-S1195D840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 |
| 2.5° | 1927.8 | 1917.3 | 1912.0 | 1900.1 | 1885.8 | 1878.4 | 1871.6 | 1861.9 | 1849.2 | 1835.7 | 1826.0 |
| 5° | 2010.8 | 1992.9 | 1970.4 | 1943.5 | 1919.5 | 1896.3 | 1876.1 | 1855.9 | 1832.7 | 1808.8 | 1784.8 |
| 7.5° | 2093.1 | 2061.0 | 2026.5 | 1985.4 | 1945.7 | 1909.0 | 1876.1 | 1843.9 | 1807.3 | 1774.3 | 1743.7 |
| 10° | 2179.9 | 2132.1 | 2078.9 | 2022.8 | 1966.7 | 1918.0 | 1870.1 | 1826.7 | 1778.8 | 1736.2 | 1700.3 |
| 12.5° | 2250.3 | 2191.9 | 2125.3 | 2052.0 | 1981.6 | 1920.3 | 1863.4 | 1803.5 | 1747.4 | 1700.3 | 1649.4 |
| 15° | 2329.6 | 2252.5 | 2166.5 | 2082.7 | 1995.1 | 1915.0 | 1840.9 | 1775.1 | 1713.0 | 1647.9 | 1602.2 |
| 17.5° | 2384.2 | 2295.2 | 2193.4 | 2096.1 | 1995.9 | 1903.1 | 1819.2 | 1742.9 | 1671.8 | 1606.7 | 1552.8 |
| 20° | 2432.1 | 2331.1 | 2215.1 | 2100.6 | 1984.6 | 1883.6 | 1791.6 | 1704.7 | 1630.7 | 1558.8 | 1502.7 |
| 22.5° | 2459.1 | 2344.6 | 2215.1 | 2093.9 | 1972.7 | 1861.2 | 1757.9 | 1666.6 | 1584.3 | 1512.4 | 1448.8 |
| 25° | 2460.6 | 2340.8 | 2211.4 | 2073.7 | 1942.0 | 1826.0 | 1721.2 | 1623.2 | 1533.4 | 1461.5 | 1395.7 |
| 27.5° | 2454.6 | 2316.1 | 2185.9 | 2046.0 | 1910.5 | 1787.1 | 1678.6 | 1574.5 | 1485.5 | 1409.1 | 1341.8 |
| 30° | 2436.6 | 2285.5 | 2143.3 | 1996.6 | 1858.9 | 1741.4 | 1625.4 | 1526.6 | 1433.1 | 1353.0 | 1284.9 |
| 32.5° | 2397.7 | 2248.0 | 2092.4 | 1941.2 | 1801.3 | 1679.3 | 1570.8 | 1471.3 | 1380.0 | 1297.6 | 1224.3 |
| 35° | 2343.8 | 2191.9 | 2025.8 | 1871.6 | 1734.7 | 1609.0 | 1505.7 | 1409.9 | 1322.3 | 1234.8 | 1158.4 |
| 37.5° | 2281.7 | 2123.1 | 1959.2 | 1790.1 | 1653.9 | 1534.1 | 1437.6 | 1345.5 | 1260.2 | 1180.2 | 1095.6 |
| 40° | 2185.9 | 2044.5 | 1873.9 | 1706.2 | 1565.6 | 1451.1 | 1363.5 | 1281.9 | 1195.9 | 1116.5 | 1032.0 |
| 42.5° | 2069.9 | 1954.7 | 1781.8 | 1613.4 | 1475.0 | 1365.7 | 1285.7 | 1206.3 | 1130.0 | 1053.7 | 964.6 |
| 45° | 1938.2 | 1846.9 | 1685.3 | 1523.6 | 1383.7 | 1274.4 | 1199.6 | 1129.3 | 1060.4 | 987.1 | 904.0 |
| 47.5° | 1791.6 | 1724.2 | 1583.5 | 1414.4 | 1283.4 | 1183.1 | 1111.3 | 1052.9 | 992.3 | 918.2 | 843.4 |
| 50° | 1637.4 | 1597.7 | 1463.0 | 1311.9 | 1188.4 | 1097.8 | 1023.7 | 969.9 | 921.2 | 850.9 | 785.8 |
| 52.5° | 1472.8 | 1456.3 | 1347.8 | 1204.8 | 1086.6 | 998.3 | 937.7 | 890.5 | 841.1 | 785.8 | 725.9 |
| 55° | 1305.1 | 1316.4 | 1219.8 | 1094.8 | 982.6 | 907.8 | 850.1 | 809.7 | 767.8 | 718.4 | 671.3 |
| 57.5° | 1130.8 | 1173.4 | 1101.6 | 988.6 | 880.1 | 809.7 | 765.6 | 729.6 | 694.5 | 652.6 | 609.9 |
| 60° | 977.3 | 1011.8 | 975.1 | 878.6 | 786.5 | 722.2 | 681.7 | 655.6 | 620.4 | 583.0 | 552.3 |
| 62.5° | 827.7 | 865.1 | 847.1 | 773.8 | 690.0 | 636.8 | 602.4 | 578.5 | 554.5 | 523.1 | 490.9 |
| 65° | 707.2 | 731.1 | 720.7 | 666.8 | 606.2 | 559.0 | 526.1 | 508.1 | 484.2 | 460.2 | 431.8 |
| 67.5° | 565.8 | 612.9 | 605.4 | 575.5 | 517.1 | 479.7 | 456.5 | 440.0 | 417.6 | 399.6 | 379.4 |
| 70° | 445.3 | 487.9 | 487.2 | 464.0 | 435.5 | 401.1 | 386.1 | 372.7 | 353.2 | 336.0 | 320.3 |
| 72.5° | 344.2 | 382.4 | 389.9 | 373.4 | 356.2 | 332.3 | 318.0 | 309.8 | 291.1 | 280.6 | 268.7 |
| 75° | 255.2 | 283.6 | 291.1 | 291.1 | 282.1 | 268.7 | 255.9 | 249.9 | 236.5 | 226.0 | 218.5 |
| 77.5° | 179.6 | 199.1 | 210.3 | 212.5 | 213.3 | 208.0 | 196.1 | 191.6 | 181.1 | 177.4 | 169.1 |
| 80° | 118.2 | 130.2 | 143.7 | 148.2 | 151.9 | 150.4 | 145.9 | 142.9 | 133.2 | 129.5 | 126.5 |
| 82.5° | 72.6 | 77.8 | 88.3 | 99.5 | 97.3 | 102.5 | 98.8 | 96.5 | 89.8 | 89.1 | 86.1 |
| 85° | 42.7 | 43.4 | 44.9 | 51.6 | 55.4 | 56.9 | 57.6 | 56.1 | 53.9 | 53.9 | 48.6 |
| 87.5° | 18.0 | 17.2 | 18.7 | 18.7 | 19.5 | 22.5 | 24.7 | 25.4 | 23.2 | 21.0 | 18.7 |
| 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: P334209

CATALOG NUMBER: S124RDS-S1195D840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 | 1857.4 |
| 2.5° | 1815.5 | 1808.0 | 1798.3 | 1787.1 | 1773.6 | 1761.6 | 1756.4 | 1760.9 | 1763.1 | 1757.1 | 1756.4 |
| 5° | 1768.4 | 1749.6 | 1734.7 | 1712.2 | 1694.3 | 1679.3 | 1668.8 | 1664.3 | 1665.8 | 1653.9 | 1650.9 |
| 7.5° | 1716.0 | 1695.8 | 1671.1 | 1645.6 | 1621.7 | 1600.7 | 1589.5 | 1584.3 | 1571.5 | 1566.3 | 1558.1 |
| 10° | 1665.8 | 1635.9 | 1611.9 | 1580.5 | 1552.1 | 1525.9 | 1513.2 | 1502.7 | 1490.0 | 1484.0 | 1471.3 |
| 12.5° | 1614.2 | 1578.3 | 1551.3 | 1518.4 | 1489.2 | 1456.3 | 1444.3 | 1422.6 | 1400.9 | 1386.7 | 1369.5 |
| 15° | 1566.3 | 1524.4 | 1492.2 | 1453.3 | 1418.9 | 1383.0 | 1350.8 | 1314.9 | 1301.4 | 1272.9 | 1256.5 |
| 17.5° | 1509.4 | 1466.0 | 1430.1 | 1380.0 | 1328.3 | 1284.9 | 1249.0 | 1211.6 | 1191.4 | 1171.9 | 1163.7 |
| 20° | 1453.3 | 1414.4 | 1359.0 | 1298.4 | 1239.3 | 1189.9 | 1162.2 | 1139.7 | 1117.3 | 1104.6 | 1095.6 |
| 22.5° | 1400.2 | 1347.8 | 1281.2 | 1214.6 | 1155.5 | 1119.5 | 1097.1 | 1073.9 | 1056.7 | 1044.7 | 1032.0 |
| 25° | 1339.5 | 1274.4 | 1206.3 | 1131.5 | 1091.1 | 1057.4 | 1032.0 | 1013.3 | 1002.0 | 986.3 | 980.3 |
| 27.5° | 1280.4 | 1201.9 | 1124.8 | 1073.9 | 1032.0 | 999.8 | 976.6 | 963.1 | 948.2 | 937.7 | 929.5 |
| 30° | 1210.1 | 1130.0 | 1062.7 | 1014.8 | 972.1 | 946.7 | 928.7 | 912.2 | 901.0 | 892.8 | 886.8 |
| 32.5° | 1140.5 | 1060.4 | 1006.5 | 954.1 | 922.7 | 898.0 | 878.6 | 867.3 | 859.1 | 847.9 | 844.9 |
| 35° | 1073.9 | 1002.8 | 953.4 | 907.0 | 872.6 | 850.1 | 835.2 | 822.4 | 815.0 | 812.0 | 809.7 |
| 37.5° | 1008.8 | 949.7 | 895.0 | 857.6 | 825.4 | 808.2 | 788.8 | 782.8 | 777.5 | 770.8 | 773.8 |
| 40° | 947.4 | 892.8 | 845.6 | 805.2 | 780.5 | 761.1 | 750.6 | 743.1 | 738.6 | 738.6 | 738.6 |
| 42.5° | 894.3 | 841.1 | 795.5 | 760.3 | 735.6 | 719.9 | 707.9 | 702.0 | 701.2 | 700.5 | 704.9 |
| 45° | 838.9 | 789.5 | 743.1 | 713.2 | 692.2 | 675.8 | 669.0 | 663.8 | 663.8 | 666.8 | 667.5 |
| 47.5° | 783.5 | 737.1 | 699.7 | 665.3 | 645.8 | 635.4 | 629.4 | 626.4 | 626.4 | 630.1 | 633.1 |
| 50° | 733.4 | 687.7 | 651.1 | 621.1 | 603.2 | 593.4 | 588.2 | 586.7 | 588.2 | 588.2 | 593.4 |
| 52.5° | 678.8 | 639.1 | 603.2 | 579.2 | 558.3 | 549.3 | 547.0 | 544.8 | 545.5 | 548.5 | 550.0 |
| 55° | 625.6 | 589.0 | 554.5 | 530.6 | 515.6 | 509.6 | 502.9 | 503.6 | 502.1 | 503.6 | 503.6 |
| 57.5° | 571.7 | 539.6 | 505.9 | 486.4 | 473.7 | 464.7 | 457.2 | 459.5 | 457.2 | 457.2 | 456.5 |
| 60° | 520.1 | 484.2 | 458.7 | 441.5 | 426.6 | 419.1 | 412.3 | 413.8 | 411.6 | 410.1 | 407.1 |
| 62.5° | 464.0 | 435.5 | 411.6 | 395.1 | 383.9 | 374.9 | 368.2 | 365.9 | 360.0 | 354.0 | 346.5 |
| 65° | 410.1 | 385.4 | 363.7 | 348.0 | 336.8 | 330.0 | 324.8 | 320.3 | 309.1 | 297.1 | 291.1 |
| 67.5° | 357.0 | 339.0 | 318.0 | 304.6 | 295.6 | 286.6 | 276.9 | 268.7 | 257.4 | 249.9 | 246.2 |
| 70° | 306.1 | 288.9 | 271.7 | 258.9 | 249.2 | 241.0 | 229.7 | 224.5 | 217.0 | 214.0 | 210.3 |
| 72.5° | 257.4 | 241.7 | 226.0 | 214.8 | 204.3 | 198.3 | 190.1 | 184.8 | 182.6 | 181.8 | 178.1 |
| 75° | 208.0 | 195.3 | 183.3 | 172.9 | 164.6 | 160.1 | 156.4 | 152.7 | 151.2 | 144.4 | 140.7 |
| 77.5° | 160.1 | 151.2 | 143.7 | 135.5 | 130.2 | 127.2 | 119.0 | 113.7 | 110.8 | 107.0 | 106.3 |
| 80° | 118.2 | 112.3 | 104.8 | 100.3 | 92.0 | 89.1 | 86.1 | 85.3 | 84.6 | 83.8 | 83.1 |
| 82.5° | 81.6 | 75.6 | 68.1 | 65.9 | 65.1 | 63.6 | 62.1 | 61.4 | 60.6 | 61.4 | 61.4 |
| 85° | 44.9 | 41.9 | 41.9 | 41.2 | 40.4 | 39.7 | 38.9 | 38.9 | 38.2 | 38.9 | 38.2 |
| 87.5° | 18.7 | 18.0 | 18.0 | 16.5 | 17.2 | 17.2 | 16.5 | 16.5 | 17.2 | 15.7 | 15.7 |
| 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: P334209

CATALOG NUMBER: S124RDS-S1195D840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1857.4 | 1857.4 | 1857.4 | 1857.4 |
| 2.5° | 1751.9 | 1753.4 | 1748.1 | 1746.7 |
| 5° | 1644.9 | 1643.4 | 1639.6 | 1640.4 |
| 7.5° | 1552.1 | 1546.8 | 1550.6 | 1544.6 |
| 10° | 1468.3 | 1460.0 | 1453.3 | 1447.3 |
| 12.5° | 1353.8 | 1347.0 | 1337.3 | 1341.0 |
| 15° | 1246.8 | 1235.5 | 1217.6 | 1219.8 |
| 17.5° | 1151.0 | 1152.5 | 1142.0 | 1145.0 |
| 20° | 1079.9 | 1074.6 | 1075.4 | 1073.1 |
| 22.5° | 1030.5 | 1023.7 | 1017.0 | 1011.8 |
| 25° | 973.6 | 969.1 | 962.4 | 960.9 |
| 27.5° | 923.5 | 922.7 | 919.7 | 916.0 |
| 30° | 880.8 | 879.3 | 877.8 | 875.6 |
| 32.5° | 842.6 | 841.9 | 840.4 | 841.1 |
| 35° | 806.7 | 806.0 | 804.5 | 803.7 |
| 37.5° | 773.0 | 775.3 | 773.8 | 773.8 |
| 40° | 737.9 | 738.6 | 740.1 | 739.4 |
| 42.5° | 708.7 | 708.7 | 710.9 | 707.9 |
| 45° | 672.8 | 677.3 | 676.5 | 676.5 |
| 47.5° | 634.6 | 639.8 | 640.6 | 640.6 |
| 50° | 597.2 | 595.7 | 597.9 | 597.2 |
| 52.5° | 551.5 | 552.3 | 551.5 | 550.8 |
| 55° | 504.4 | 505.1 | 503.6 | 504.4 |
| 57.5° | 454.2 | 451.3 | 453.5 | 452.0 |
| 60° | 399.6 | 393.6 | 392.1 | 389.1 |
| 62.5° | 338.3 | 334.5 | 328.5 | 332.3 |
| 65° | 285.1 | 282.1 | 279.9 | 282.9 |
| 67.5° | 242.5 | 241.0 | 241.0 | 239.5 |
| 70° | 210.3 | 208.0 | 208.0 | 206.5 |
| 72.5° | 177.4 | 175.1 | 175.9 | 175.1 |
| 75° | 136.2 | 132.5 | 132.5 | 133.2 |
| 77.5° | 106.3 | 105.5 | 107.0 | 104.8 |
| 80° | 83.1 | 82.3 | 81.6 | 83.8 |
| 82.5° | 59.9 | 59.9 | 59.9 | 62.9 |
| 85° | 38.9 | 37.4 | 38.9 | 37.4 |
| 87.5° | 17.2 | 16.5 | 15.7 | 16.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)