

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: NEO-RAY

Report Number: P646699

Luminaire Tested: S123RDR-S775D930-X4F0-XX-UDD-G-W

Issue Date: 3/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P646699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDR-S775D930-X4F0-XX-UDD-G-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH WALL GRAZE FLUSH OPTIC STANDARD LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

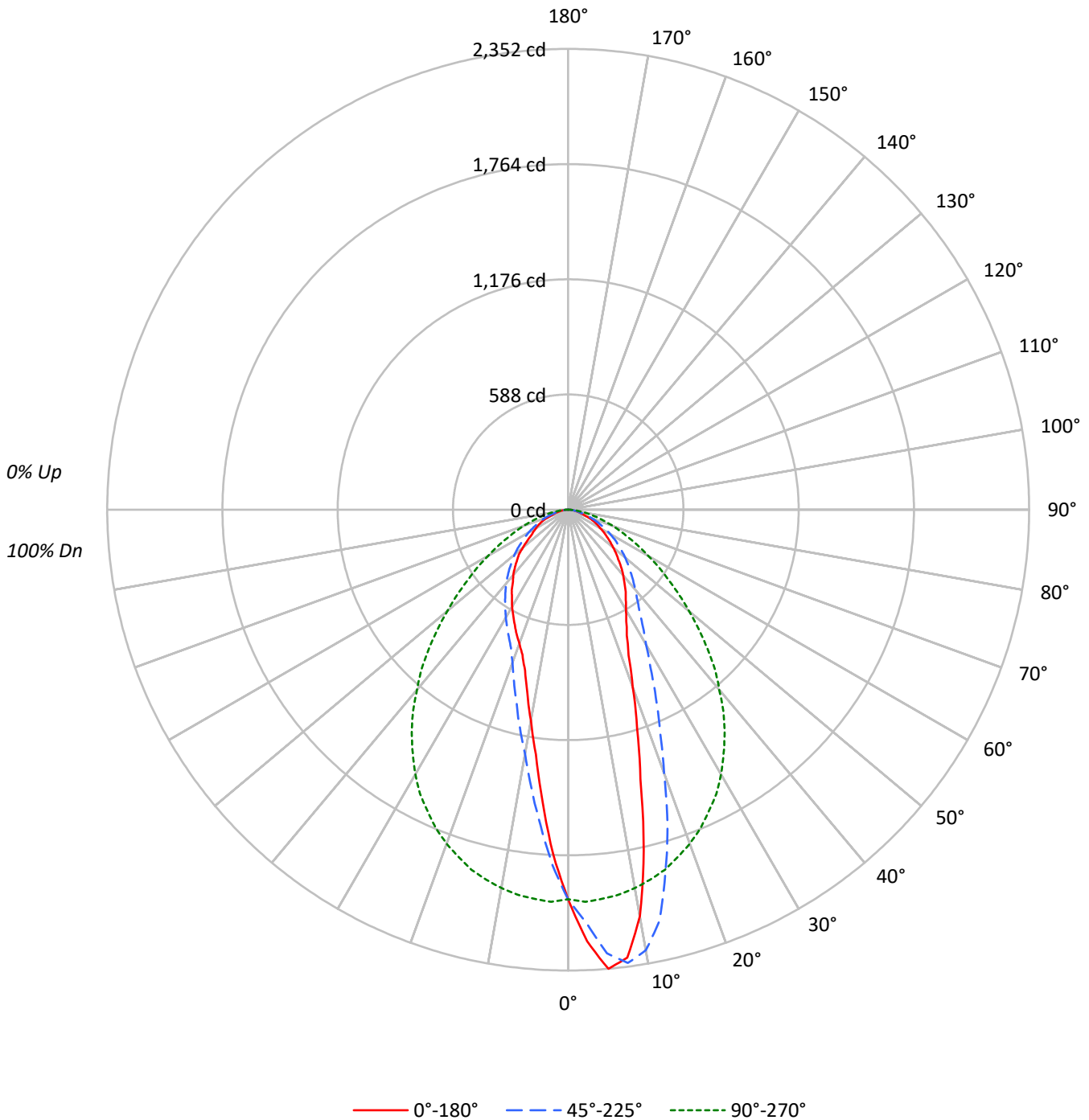
Lumens per Lamp: N/A
Luminaire Lumens: 2634.5 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.79
Luminous Opening: Rectangular (W 4' x L: 0.22' x H: 0')
CIE Type: Direct

Input Watts (W): 26
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: 24 FT



TEST NUMBER: P646699
CATALOG NUMBER: S123RDR-S775D930-X4F0-XX-UDD-G-W

Luminous Intensity Polar Plot





TEST NUMBER: P646699

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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 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | 100 |
| 1 | 111 | 107 | 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 | 73 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | | | | 67 | |
| 4 | 88 | 77 | 69 | 64 | 85 | 76 | 69 | 63 | 73 | 67 | 62 | 71 | 66 | 62 | 69 | 65 | 61 | | | | 59 | |
| 5 | 82 | 70 | 62 | 56 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 63 | 58 | 54 | | | | 53 | |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 50 | 59 | 53 | 49 | | | | 47 | |
| 7 | 71 | 59 | 51 | 46 | 70 | 58 | 51 | 46 | 57 | 50 | 45 | 56 | 50 | 45 | 54 | 49 | 45 | | | | 43 | |
| 8 | 67 | 55 | 47 | 42 | 65 | 54 | 47 | 42 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | | | | 39 | |
| 9 | 63 | 51 | 43 | 38 | 62 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | | | | 36 | |
| 10 | 60 | 47 | 40 | 36 | 58 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 44 | 39 | 35 | | | | 33 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 23960 | 23960 | 23960 | 23960 | 23960 |
| 5° | 28449 | 27483 | 24111 | 19554 | 18096 |
| 10° | 25776 | 27930 | 23990 | 15481 | 13396 |
| 15° | 17747 | 23921 | 23737 | 12712 | 10597 |
| 20° | 12347 | 18346 | 23260 | 10653 | 9314 |
| 25° | 9409 | 14081 | 22568 | 9516 | 8584 |
| 30° | 8189 | 11071 | 21700 | 8847 | 7951 |
| 35° | 7519 | 9318 | 20471 | 8250 | 7375 |
| 40° | 6861 | 8362 | 18864 | 7745 | 6848 |
| 45° | 6196 | 7654 | 17130 | 7196 | 6322 |
| 50° | 5624 | 7106 | 15084 | 6694 | 5670 |
| 55° | 5086 | 6525 | 13119 | 6115 | 4863 |
| 60° | 4557 | 5933 | 11396 | 5600 | 4598 |
| 65° | 4208 | 5277 | 9811 | 4975 | 4348 |
| 70° | 3417 | 4509 | 8561 | 4509 | 3534 |
| 75° | 2998 | 3645 | 7249 | 3757 | 3114 |
| 80° | 2713 | 3053 | 5940 | 3171 | 2942 |
| 85° | 2475 | 2599 | 4507 | 2820 | 2710 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°

Vertical Angle: 45°

Luminance: 18074 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 181.2 | 6.9 |
| 10°-20° | 419.3 | 15.9 |
| 20°-30° | 481.1 | 18.3 |
| 30°-40° | 473.9 | 18.0 |
| 40°-50° | 417.7 | 15.9 |
| 50°-60° | 321.4 | 12.2 |
| 60°-70° | 211.4 | 8.0 |
| 70°-80° | 102.6 | 3.9 |
| 80°-90° | 25.9 | 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° | 1081.6 | 41.1 |
| 0°-40° | 1555.5 | 59.0 |
| 0°-60° | 2294.6 | 87.1 |
| 0°-90° | 2634.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2634.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1988 | 1988 | 1988 | 1988 | 1988 | |
| 5° | 2352 | 2272 | 1993 | 1617 | 1496 | 215 |
| 15° | 1423 | 1918 | 1903 | 1019 | 850 | 402 |
| 25° | 708 | 1059 | 1698 | 716 | 646 | 334 |
| 35° | 511 | 634 | 1392 | 561 | 501 | 319 |
| 45° | 364 | 449 | 1005 | 422 | 371 | 282 |
| 55° | 242 | 311 | 624 | 291 | 232 | 217 |
| 65° | 148 | 185 | 344 | 174 | 152 | 145 |
| 75° | 64 | 78 | 156 | 81 | 67 | 69 |
| 85° | 18 | 19 | 33 | 20 | 20 | 20 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P646699

CATALOG NUMBER: S123RDR-S775D930-X4F0-XX-UDD-G-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1988.5 | 1988.5 | 1988.5 | 1988.5 | 1988.5 | 1988.5 | 1988.5 | 1988.5 | 1988.5 | 1988.5 | 1988.5 |
| 2.5° | 2203.8 | 2189.9 | 2185.8 | 2180.9 | 2172.8 | 2143.4 | 2110.0 | 2113.3 | 2109.2 | 2083.9 | 2070.0 |
| 5° | 2352.1 | 2353.8 | 2349.7 | 2346.4 | 2332.6 | 2296.7 | 2272.2 | 2257.6 | 2226.6 | 2179.3 | 2164.6 |
| 7.5° | 2306.5 | 2332.6 | 2337.5 | 2343.2 | 2350.5 | 2342.4 | 2333.4 | 2327.7 | 2302.4 | 2251.0 | 2227.4 |
| 10° | 2106.7 | 2105.1 | 2134.5 | 2158.1 | 2221.7 | 2266.5 | 2282.8 | 2306.5 | 2327.7 | 2291.8 | 2265.7 |
| 12.5° | 1780.6 | 1783.1 | 1879.3 | 1879.3 | 1961.6 | 2075.8 | 2149.1 | 2198.9 | 2290.2 | 2292.6 | 2277.1 |
| 15° | 1422.7 | 1462.6 | 1548.3 | 1566.2 | 1672.2 | 1825.5 | 1917.6 | 2020.3 | 2197.2 | 2252.7 | 2249.4 |
| 17.5° | 1168.3 | 1185.4 | 1267.8 | 1291.4 | 1385.2 | 1558.9 | 1686.0 | 1810.0 | 2057.8 | 2174.4 | 2195.6 |
| 20° | 962.9 | 978.4 | 1037.9 | 1055.8 | 1150.4 | 1315.9 | 1430.8 | 1564.6 | 1889.0 | 2067.6 | 2105.1 |
| 22.5° | 803.9 | 834.1 | 874.0 | 901.7 | 955.5 | 1124.3 | 1222.9 | 1351.0 | 1693.4 | 1947.7 | 1991.8 |
| 25° | 707.7 | 721.5 | 755.8 | 768.8 | 834.1 | 945.7 | 1059.1 | 1171.6 | 1519.7 | 1797.7 | 1875.2 |
| 27.5° | 642.5 | 646.5 | 671.8 | 683.2 | 722.4 | 825.9 | 907.4 | 1011.8 | 1342.8 | 1643.6 | 1734.1 |
| 30° | 588.6 | 596.0 | 615.6 | 618.0 | 652.2 | 725.6 | 795.7 | 891.9 | 1187.9 | 1494.4 | 1587.4 |
| 32.5° | 547.1 | 551.1 | 567.4 | 572.3 | 594.4 | 652.2 | 709.3 | 779.4 | 1044.4 | 1338.7 | 1445.5 |
| 35° | 511.2 | 512.0 | 524.2 | 530.8 | 550.3 | 598.4 | 633.5 | 692.2 | 929.4 | 1209.9 | 1303.7 |
| 37.5° | 470.4 | 476.1 | 485.1 | 490.8 | 507.9 | 547.1 | 578.9 | 624.5 | 823.5 | 1087.6 | 1174.8 |
| 40° | 436.2 | 441.1 | 451.7 | 454.1 | 469.6 | 505.5 | 531.6 | 572.3 | 732.1 | 970.2 | 1059.1 |
| 42.5° | 401.9 | 405.2 | 415.8 | 420.7 | 437.8 | 466.4 | 490.0 | 521.8 | 659.6 | 865.8 | 953.1 |
| 45° | 363.6 | 371.8 | 383.2 | 385.6 | 401.9 | 431.3 | 449.2 | 478.6 | 594.4 | 775.3 | 852.8 |
| 47.5° | 331.8 | 335.9 | 345.7 | 349.8 | 368.5 | 394.6 | 413.4 | 438.6 | 538.1 | 693.0 | 768.8 |
| 50° | 300.0 | 301.7 | 310.6 | 316.3 | 331.0 | 361.2 | 379.1 | 401.9 | 486.7 | 626.1 | 679.1 |
| 52.5° | 269.9 | 273.9 | 282.9 | 287.0 | 296.8 | 327.8 | 344.1 | 367.7 | 437.8 | 557.7 | 610.7 |
| 55° | 242.1 | 244.6 | 251.1 | 256.0 | 267.4 | 294.3 | 310.6 | 331.0 | 395.4 | 494.9 | 541.4 |
| 57.5° | 216.1 | 219.3 | 224.2 | 228.3 | 238.9 | 262.5 | 278.8 | 299.2 | 355.5 | 437.8 | 473.7 |
| 60° | 189.1 | 193.2 | 198.9 | 200.6 | 210.3 | 231.5 | 246.2 | 264.2 | 314.7 | 384.8 | 416.6 |
| 62.5° | 169.6 | 170.4 | 175.3 | 177.7 | 183.4 | 200.6 | 216.1 | 233.2 | 278.0 | 333.5 | 359.5 |
| 65° | 147.6 | 150.0 | 152.5 | 154.1 | 159.0 | 173.7 | 185.1 | 198.1 | 242.1 | 290.2 | 308.2 |
| 67.5° | 124.7 | 127.2 | 131.3 | 132.9 | 137.0 | 146.8 | 156.5 | 169.6 | 206.3 | 247.0 | 263.3 |
| 70° | 97.0 | 97.0 | 103.5 | 106.8 | 113.3 | 120.7 | 128.0 | 139.4 | 171.2 | 206.3 | 218.5 |
| 72.5° | 79.1 | 79.9 | 80.7 | 80.7 | 86.4 | 98.7 | 102.7 | 110.1 | 135.3 | 168.8 | 179.4 |
| 75° | 64.4 | 65.2 | 66.0 | 66.9 | 67.7 | 71.7 | 78.3 | 84.8 | 103.5 | 128.0 | 137.8 |
| 77.5° | 51.4 | 52.2 | 53.0 | 53.0 | 54.6 | 56.3 | 57.9 | 61.1 | 74.2 | 92.1 | 100.3 |
| 80° | 39.1 | 39.9 | 40.8 | 40.8 | 41.6 | 43.2 | 44.0 | 45.7 | 49.7 | 62.0 | 66.0 |
| 82.5° | 28.5 | 28.5 | 28.5 | 29.4 | 30.2 | 30.2 | 31.8 | 31.8 | 34.2 | 37.5 | 39.9 |
| 85° | 17.9 | 17.9 | 18.8 | 18.8 | 18.8 | 19.6 | 18.8 | 19.6 | 20.4 | 21.2 | 22.8 |
| 87.5° | 8.2 | 7.3 | 8.2 | 8.2 | 8.2 | 9.0 | 9.0 | 9.0 | 9.0 | 9.8 | 9.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P646699

CATALOG NUMBER: S123RDR-S775D930-X4F0-XX-UDD-G-W

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1988.5 | 1988.5 | 1988.5 | 1988.5 | 1988.5 | 1988.5 | 1988.5 | 1988.5 | 1988.5 | 1988.5 | 1988.5 |
| 2.5° | 2031.7 | 2003.2 | 1955.1 | 1924.9 | 1913.5 | 1878.4 | 1845.0 | 1817.3 | 1803.4 | 1801.8 | 1776.5 |
| 5° | 2071.7 | 1993.4 | 1893.9 | 1810.8 | 1791.2 | 1730.1 | 1651.0 | 1616.7 | 1571.9 | 1554.0 | 1532.8 |
| 7.5° | 2104.3 | 1982.0 | 1835.2 | 1709.7 | 1673.0 | 1580.9 | 1479.8 | 1434.9 | 1400.7 | 1346.9 | 1315.1 |
| 10° | 2127.1 | 1960.8 | 1763.5 | 1601.2 | 1549.1 | 1441.4 | 1319.2 | 1265.3 | 1233.5 | 1171.6 | 1146.3 |
| 12.5° | 2136.1 | 1933.9 | 1691.7 | 1488.7 | 1443.1 | 1315.1 | 1195.2 | 1139.8 | 1092.5 | 1036.2 | 1011.8 |
| 15° | 2132.8 | 1902.9 | 1618.4 | 1385.2 | 1328.1 | 1198.5 | 1071.3 | 1019.1 | 975.1 | 918.8 | 887.0 |
| 17.5° | 2110.8 | 1858.9 | 1538.5 | 1284.9 | 1230.3 | 1096.6 | 967.8 | 919.7 | 880.5 | 825.9 | 801.4 |
| 20° | 2074.1 | 1814.0 | 1468.4 | 1193.6 | 1131.6 | 1003.6 | 882.2 | 830.8 | 796.5 | 767.2 | 749.3 |
| 22.5° | 2023.6 | 1761.0 | 1382.7 | 1103.1 | 1049.3 | 920.5 | 803.9 | 762.3 | 741.9 | 718.3 | 705.2 |
| 25° | 1946.9 | 1697.5 | 1305.3 | 1027.3 | 973.5 | 845.5 | 743.6 | 715.8 | 695.4 | 680.0 | 666.1 |
| 27.5° | 1864.6 | 1636.3 | 1227.8 | 950.6 | 900.1 | 777.8 | 696.3 | 675.1 | 657.1 | 637.6 | 625.3 |
| 30° | 1769.2 | 1559.7 | 1154.5 | 883.0 | 834.1 | 723.2 | 655.5 | 635.9 | 621.3 | 600.1 | 587.8 |
| 32.5° | 1656.7 | 1475.7 | 1086.0 | 817.7 | 772.1 | 675.9 | 618.0 | 596.8 | 584.6 | 564.2 | 552.0 |
| 35° | 1540.1 | 1391.7 | 1011.0 | 757.4 | 715.8 | 634.3 | 581.3 | 560.9 | 547.9 | 527.5 | 515.3 |
| 37.5° | 1426.0 | 1302.0 | 944.1 | 704.4 | 666.9 | 592.7 | 543.0 | 525.9 | 513.6 | 492.4 | 477.8 |
| 40° | 1305.3 | 1199.3 | 878.9 | 654.7 | 619.6 | 556.0 | 507.9 | 492.4 | 476.1 | 457.4 | 442.7 |
| 42.5° | 1178.9 | 1108.8 | 818.6 | 610.7 | 578.0 | 520.2 | 472.9 | 456.6 | 442.7 | 420.7 | 414.2 |
| 45° | 1060.7 | 1005.3 | 755.0 | 564.2 | 538.1 | 484.3 | 438.6 | 422.3 | 406.8 | 388.1 | 381.6 |
| 47.5° | 955.5 | 904.2 | 697.1 | 523.4 | 497.3 | 449.2 | 404.4 | 387.3 | 375.9 | 361.2 | 351.4 |
| 50° | 847.1 | 804.7 | 633.5 | 483.5 | 459.0 | 411.7 | 368.5 | 357.1 | 344.1 | 326.1 | 318.8 |
| 52.5° | 746.0 | 713.4 | 581.3 | 445.2 | 422.3 | 379.9 | 335.9 | 324.5 | 312.3 | 296.8 | 286.2 |
| 55° | 657.1 | 624.5 | 521.8 | 401.9 | 384.8 | 344.9 | 305.7 | 291.1 | 281.3 | 263.3 | 250.3 |
| 57.5° | 565.8 | 550.3 | 464.7 | 366.1 | 349.8 | 309.8 | 274.8 | 263.3 | 251.1 | 231.5 | 218.5 |
| 60° | 490.8 | 472.9 | 411.7 | 326.9 | 311.4 | 278.0 | 243.8 | 232.4 | 220.9 | 202.2 | 196.5 |
| 62.5° | 419.9 | 406.8 | 360.4 | 290.2 | 277.2 | 244.6 | 214.4 | 203.8 | 192.4 | 180.2 | 176.1 |
| 65° | 355.5 | 344.1 | 309.0 | 252.7 | 242.1 | 213.6 | 185.9 | 174.5 | 167.1 | 161.4 | 157.4 |
| 67.5° | 295.1 | 288.6 | 261.7 | 217.7 | 209.5 | 184.3 | 159.8 | 150.8 | 146.8 | 140.2 | 137.0 |
| 70° | 240.5 | 243.0 | 218.5 | 185.9 | 176.9 | 156.5 | 135.3 | 128.0 | 123.1 | 117.4 | 110.9 |
| 72.5° | 196.5 | 195.7 | 181.0 | 151.6 | 145.1 | 128.8 | 112.5 | 107.6 | 101.9 | 90.5 | 83.2 |
| 75° | 152.5 | 155.7 | 141.9 | 125.6 | 119.0 | 102.7 | 87.2 | 80.7 | 75.0 | 70.9 | 68.5 |
| 77.5° | 116.6 | 118.2 | 111.7 | 96.2 | 90.5 | 76.6 | 64.4 | 61.1 | 58.7 | 56.3 | 55.4 |
| 80° | 83.2 | 85.6 | 79.1 | 69.3 | 64.4 | 53.0 | 46.5 | 45.7 | 44.8 | 43.2 | 42.4 |
| 82.5° | 53.8 | 57.1 | 53.8 | 43.2 | 40.8 | 35.1 | 33.4 | 33.4 | 32.6 | 31.8 | 31.0 |
| 85° | 29.4 | 32.6 | 31.0 | 25.3 | 23.6 | 22.0 | 21.2 | 20.4 | 20.4 | 20.4 | 20.4 |
| 87.5° | 11.4 | 15.5 | 13.0 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 |
| 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: P646699

CATALOG NUMBER: S123RDR-S775D930-X4F0-XX-UDD-G-W

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° |
|-------|--------|--------|--------|
| 0° | 1988.5 | 1988.5 | 1988.5 |
| 2.5° | 1770.8 | 1762.7 | 1759.4 |
| 5° | 1527.1 | 1501.8 | 1496.1 |
| 7.5° | 1305.3 | 1294.7 | 1259.6 |
| 10° | 1142.2 | 1109.6 | 1094.9 |
| 12.5° | 995.5 | 965.3 | 960.4 |
| 15° | 878.1 | 856.9 | 849.5 |
| 17.5° | 800.6 | 785.9 | 777.0 |
| 20° | 743.6 | 733.0 | 726.4 |
| 22.5° | 700.3 | 692.2 | 687.3 |
| 25° | 662.0 | 649.8 | 645.7 |
| 27.5° | 622.9 | 612.3 | 608.2 |
| 30° | 586.2 | 577.2 | 571.5 |
| 32.5° | 547.9 | 537.3 | 534.0 |
| 35° | 511.2 | 504.7 | 501.4 |
| 37.5° | 475.3 | 467.2 | 462.3 |
| 40° | 441.9 | 437.8 | 435.4 |
| 42.5° | 411.7 | 404.4 | 403.6 |
| 45° | 379.9 | 372.6 | 371.0 |
| 47.5° | 349.8 | 343.2 | 342.4 |
| 50° | 318.0 | 309.0 | 302.5 |
| 52.5° | 279.6 | 271.5 | 265.8 |
| 55° | 245.4 | 236.4 | 231.5 |
| 57.5° | 216.9 | 212.8 | 210.3 |
| 60° | 194.9 | 192.4 | 190.8 |
| 62.5° | 175.3 | 172.8 | 172.8 |
| 65° | 157.4 | 154.9 | 152.5 |
| 67.5° | 135.3 | 130.4 | 129.6 |
| 70° | 108.4 | 101.1 | 100.3 |
| 72.5° | 82.3 | 81.5 | 79.9 |
| 75° | 68.5 | 66.9 | 66.9 |
| 77.5° | 55.4 | 53.8 | 53.8 |
| 80° | 42.4 | 41.6 | 42.4 |
| 82.5° | 31.0 | 31.0 | 30.2 |
| 85° | 20.4 | 19.6 | 19.6 |
| 87.5° | 9.8 | 9.8 | 9.8 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)