

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: P331800-830

Luminaire Tested: **S122RDIW-S485D1240U830-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331800-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S485D1240U830-4F0-1E-UDD-F1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1240 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5655.1 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

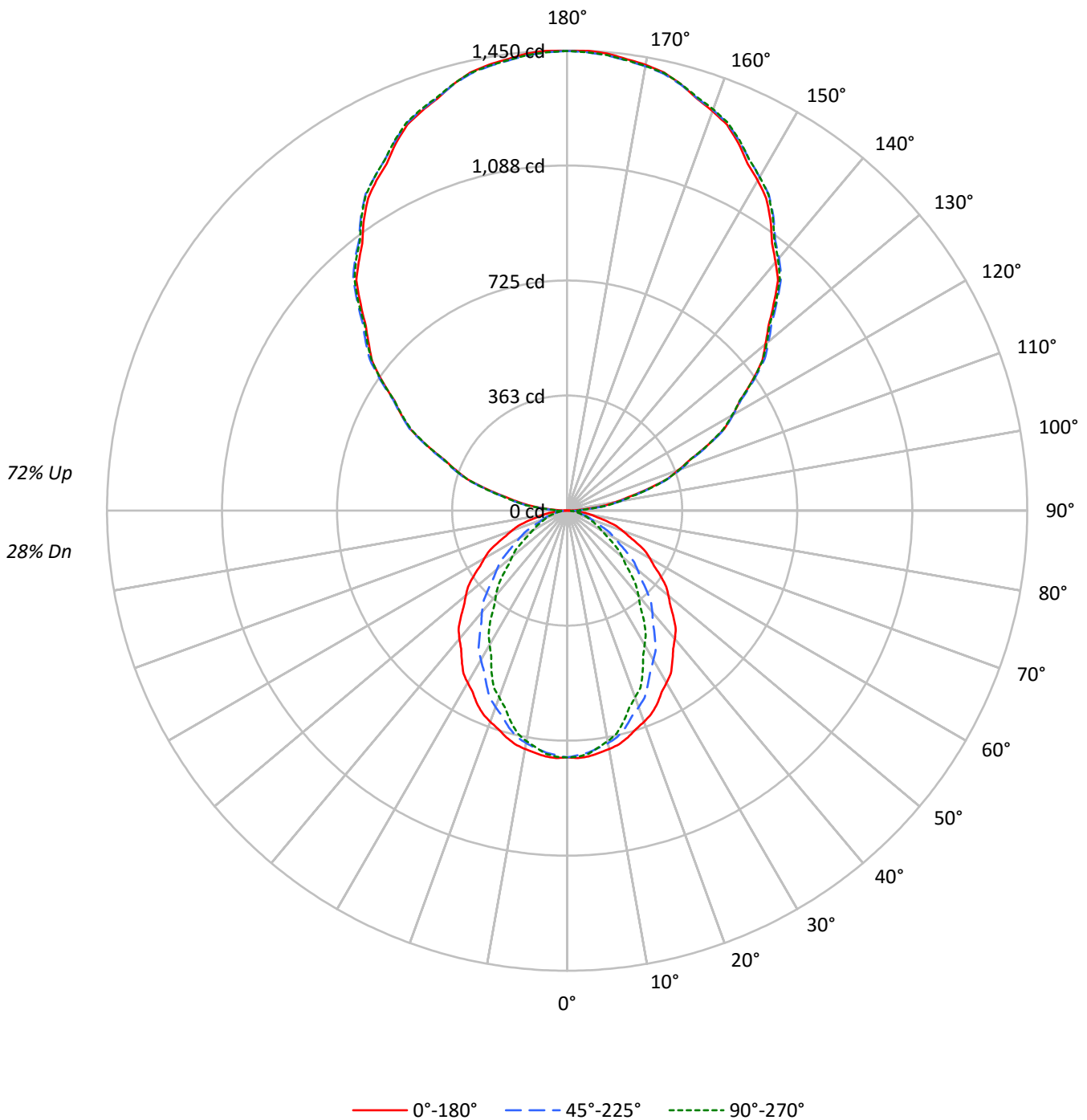
Input Watts (W): 53.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331800-830

CATALOG NUMBER: S122RDIW-S485D1240U830-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331800-830

CATALOG NUMBER: S122RDIW-S485D1240U830-4F0-1E-UDD-F1

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 | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 53 | 53 | 53 | 36 | 36 | 36 | 28 | | | | | | | | |
| 1 | 93 | 89 | 85 | 82 | 83 | 80 | 77 | 74 | 63 | 61 | 59 | 47 | 46 | 45 | 32 | 32 | 31 | 24 | | | | | | | | |
| 2 | 85 | 78 | 72 | 67 | 76 | 70 | 65 | 61 | 55 | 52 | 49 | 42 | 39 | 38 | 29 | 28 | 27 | 21 | | | | | | | | |
| 3 | 78 | 69 | 62 | 56 | 69 | 62 | 56 | 51 | 49 | 45 | 42 | 37 | 34 | 32 | 26 | 24 | 23 | 18 | | | | | | | | |
| 4 | 71 | 61 | 53 | 48 | 63 | 55 | 49 | 44 | 44 | 39 | 36 | 33 | 30 | 28 | 23 | 21 | 20 | 16 | | | | | | | | |
| 5 | 65 | 54 | 47 | 41 | 58 | 49 | 42 | 37 | 39 | 34 | 31 | 30 | 27 | 24 | 21 | 19 | 17 | 14 | | | | | | | | |
| 6 | 60 | 49 | 41 | 35 | 54 | 44 | 37 | 33 | 35 | 30 | 27 | 27 | 24 | 21 | 19 | 17 | 16 | 12 | | | | | | | | |
| 7 | 56 | 44 | 36 | 31 | 50 | 40 | 33 | 29 | 32 | 27 | 24 | 24 | 21 | 19 | 18 | 15 | 14 | 11 | | | | | | | | |
| 8 | 51 | 40 | 32 | 27 | 46 | 36 | 30 | 25 | 29 | 24 | 21 | 22 | 19 | 17 | 16 | 14 | 12 | 10 | | | | | | | | |
| 9 | 48 | 36 | 29 | 24 | 43 | 33 | 27 | 22 | 27 | 22 | 19 | 21 | 17 | 15 | 15 | 13 | 11 | 9 | | | | | | | | |
| 10 | 45 | 33 | 26 | 22 | 40 | 30 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 13 | 14 | 12 | 10 | 8 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 12558 | 12558 | 12558 |
| 5° | 12606 | 12402 | 12470 |
| 10° | 12511 | 12198 | 12095 |
| 15° | 12366 | 11836 | 11497 |
| 20° | 12167 | 11320 | 10753 |
| 25° | 11965 | 10735 | 10033 |
| 30° | 11680 | 10133 | 9107 |
| 35° | 11404 | 9477 | 8296 |
| 40° | 11126 | 8800 | 7358 |
| 45° | 10803 | 8035 | 6510 |
| 50° | 10467 | 7267 | 5674 |
| 55° | 10125 | 6441 | 4873 |
| 60° | 9726 | 5570 | 4046 |
| 65° | 9280 | 4676 | 3683 |
| 70° | 8738 | 3852 | 3389 |
| 75° | 8079 | 3512 | 3163 |
| 80° | 7132 | 3133 | 2882 |
| 85° | 5613 | 2482 | 2482 |



TEST NUMBER: P331800-830

CATALOG NUMBER: S122RDIW-S485D1240U830-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 72.8 | 1.3 |
| 10°-20° | 199.9 | 3.5 |
| 20°-30° | 280.7 | 5.0 |
| 30°-40° | 306.1 | 5.4 |
| 40°-50° | 281.5 | 5.0 |
| 50°-60° | 221.1 | 3.9 |
| 60°-70° | 144.1 | 2.5 |
| 70°-80° | 74.3 | 1.3 |
| 80°-90° | 25.1 | 0.4 |
| 90°-100° | 91.8 | 1.6 |
| 100°-110° | 285.0 | 5.0 |
| 110°-120° | 487.2 | 8.6 |
| 120°-130° | 640.7 | 11.3 |
| 130°-140° | 719.1 | 12.7 |
| 140°-150° | 705.1 | 12.5 |
| 150°-160° | 591.4 | 10.5 |
| 160°-170° | 392.2 | 6.9 |
| 170°-180° | 137.1 | 2.4 |
| 0°-30° | 553.4 | 9.8 |
| 0°-40° | 859.6 | 15.2 |
| 0°-60° | 1362.1 | 24.1 |
| 0°-90° | 1605.6 | 28.4 |
| 90°-120° | 864.0 | 15.3 |
| 90°-150° | 2928.8 | 51.8 |
| 90°-180° | 4050.0 | 71.6 |
| 0°-180° | 5655.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 778 | 778 | 778 | 778 | 778 | |
| 5° | 778 | 774 | 765 | 771 | 769 | 74 |
| 15° | 740 | 731 | 708 | 695 | 688 | 208 |
| 25° | 672 | 648 | 603 | 575 | 563 | 309 |
| 35° | 579 | 541 | 481 | 438 | 421 | 362 |
| 45° | 473 | 424 | 352 | 304 | 285 | 365 |
| 55° | 360 | 304 | 229 | 188 | 173 | 321 |
| 65° | 243 | 186 | 122 | 100 | 96 | 241 |
| 75° | 130 | 82 | 56 | 52 | 51 | 137 |
| 85° | 30 | 16 | 13 | 13 | 13 | 36 |
| 90° | 1 | 17 | 43 | 40 | 42 | 5 |
| 95° | 64 | 75 | 78 | 78 | 76 | 73 |
| 105° | 263 | 266 | 269 | 271 | 271 | 277 |
| 115° | 489 | 496 | 494 | 492 | 489 | 483 |
| 125° | 711 | 721 | 719 | 715 | 714 | 635 |
| 135° | 920 | 933 | 936 | 935 | 931 | 711 |
| 145° | 1117 | 1126 | 1133 | 1134 | 1129 | 698 |
| 155° | 1277 | 1281 | 1284 | 1290 | 1287 | 588 |
| 165° | 1390 | 1388 | 1388 | 1396 | 1391 | 392 |
| 175° | 1446 | 1442 | 1440 | 1447 | 1441 | 137 |
| 180° | 1448 | 1448 | 1448 | 1448 | 1448 | |



TEST NUMBER: P331800-830

CATALOG NUMBER: S122RDIW-S485D1240U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 |
| 2.5° | 780.6 | 780.0 | 779.4 | 778.7 | 778.2 | 777.1 | 775.8 | 774.4 | 773.0 | 771.7 | 772.9 |
| 5° | 777.8 | 777.0 | 776.3 | 775.5 | 774.7 | 773.3 | 771.3 | 769.2 | 767.2 | 765.2 | 766.6 |
| 7.5° | 769.8 | 768.8 | 767.9 | 766.9 | 765.9 | 764.2 | 761.9 | 759.5 | 757.1 | 754.8 | 755.2 |
| 10° | 763.1 | 762.0 | 760.8 | 759.8 | 758.7 | 756.6 | 753.5 | 750.3 | 747.2 | 744.0 | 743.6 |
| 12.5° | 754.6 | 753.3 | 751.9 | 750.5 | 749.2 | 746.6 | 742.5 | 738.6 | 734.5 | 730.6 | 729.7 |
| 15° | 739.8 | 738.1 | 736.4 | 734.6 | 732.9 | 729.4 | 724.1 | 718.8 | 713.5 | 708.1 | 705.2 |
| 17.5° | 721.7 | 719.1 | 716.4 | 713.8 | 711.1 | 706.4 | 699.6 | 692.8 | 686.0 | 679.1 | 675.6 |
| 20° | 708.1 | 705.0 | 701.9 | 698.8 | 695.6 | 690.1 | 682.3 | 674.5 | 666.7 | 658.8 | 655.0 |
| 22.5° | 693.5 | 690.0 | 686.5 | 683.0 | 679.5 | 673.4 | 664.5 | 655.6 | 646.9 | 638.0 | 633.0 |
| 25° | 671.6 | 666.6 | 661.6 | 656.5 | 651.5 | 643.9 | 633.5 | 623.2 | 612.8 | 602.6 | 596.2 |
| 27.5° | 645.1 | 639.6 | 634.1 | 628.8 | 623.3 | 614.7 | 603.1 | 591.4 | 579.9 | 568.2 | 560.7 |
| 30° | 626.5 | 620.6 | 614.6 | 608.7 | 602.8 | 593.5 | 581.0 | 568.4 | 555.9 | 543.5 | 535.5 |
| 32.5° | 608.5 | 601.5 | 594.6 | 587.7 | 580.7 | 570.8 | 558.1 | 545.3 | 532.5 | 519.8 | 510.7 |
| 35° | 578.6 | 570.6 | 562.7 | 554.7 | 546.7 | 535.8 | 522.1 | 508.3 | 494.6 | 480.8 | 470.9 |
| 37.5° | 548.7 | 540.0 | 531.2 | 522.5 | 513.8 | 502.0 | 487.4 | 472.7 | 458.0 | 443.4 | 432.4 |
| 40° | 527.9 | 518.6 | 509.2 | 499.8 | 490.4 | 478.2 | 463.0 | 447.8 | 432.6 | 417.5 | 406.3 |
| 42.5° | 506.5 | 496.6 | 486.7 | 476.9 | 467.0 | 454.2 | 438.6 | 422.8 | 407.2 | 391.5 | 380.0 |
| 45° | 473.1 | 462.6 | 452.0 | 441.6 | 431.1 | 417.6 | 401.2 | 384.8 | 368.3 | 351.9 | 340.8 |
| 47.5° | 440.4 | 429.2 | 418.2 | 407.1 | 396.0 | 381.9 | 365.0 | 348.0 | 331.0 | 314.1 | 303.0 |
| 50° | 416.7 | 405.6 | 394.5 | 383.4 | 372.3 | 358.2 | 340.9 | 323.8 | 306.5 | 289.3 | 278.5 |
| 52.5° | 393.6 | 382.0 | 370.4 | 358.8 | 347.2 | 333.0 | 316.1 | 299.4 | 282.5 | 265.7 | 255.2 |
| 55° | 359.7 | 347.5 | 335.3 | 323.1 | 310.9 | 296.3 | 279.5 | 262.6 | 245.6 | 228.8 | 219.4 |
| 57.5° | 324.9 | 312.5 | 299.9 | 287.4 | 274.8 | 260.5 | 244.3 | 228.0 | 211.8 | 195.6 | 186.9 |
| 60° | 301.2 | 288.8 | 276.3 | 263.7 | 251.2 | 237.0 | 220.8 | 204.7 | 188.6 | 172.5 | 164.5 |
| 62.5° | 278.1 | 265.7 | 253.2 | 240.6 | 228.1 | 214.2 | 198.9 | 183.5 | 168.1 | 152.8 | 145.2 |
| 65° | 242.9 | 230.2 | 217.5 | 204.8 | 192.2 | 178.8 | 164.8 | 150.6 | 136.6 | 122.4 | 117.2 |
| 67.5° | 208.8 | 196.2 | 183.6 | 171.1 | 158.4 | 145.8 | 133.2 | 120.6 | 107.8 | 95.2 | 92.7 |
| 70° | 185.1 | 173.0 | 160.7 | 148.5 | 136.3 | 124.8 | 114.0 | 103.2 | 92.5 | 81.6 | 80.1 |
| 72.5° | 162.6 | 150.9 | 139.2 | 127.5 | 115.8 | 105.7 | 97.0 | 88.3 | 79.6 | 71.0 | 69.7 |
| 75° | 129.5 | 118.6 | 107.6 | 96.7 | 85.7 | 77.6 | 72.3 | 66.9 | 61.6 | 56.3 | 55.2 |
| 77.5° | 97.0 | 87.4 | 77.8 | 68.1 | 58.6 | 52.5 | 50.0 | 47.4 | 44.8 | 42.2 | 41.6 |
| 80° | 76.7 | 68.7 | 60.8 | 52.8 | 44.8 | 40.1 | 38.5 | 36.9 | 35.3 | 33.7 | 33.2 |
| 82.5° | 58.2 | 51.9 | 45.7 | 39.5 | 33.3 | 29.6 | 28.6 | 27.4 | 26.4 | 25.4 | 25.0 |
| 85° | 30.3 | 27.0 | 23.7 | 20.5 | 17.2 | 15.3 | 14.8 | 14.3 | 13.9 | 13.4 | 13.4 |
| 87.5° | 9.2 | 8.9 | 8.6 | 8.2 | 7.8 | 8.3 | 9.5 | 10.7 | 11.9 | 13.1 | 12.8 |
| 90° | 1.2 | 4.5 | 7.7 | 11.0 | 14.2 | 18.9 | 24.9 | 30.8 | 36.8 | 42.8 | 42.2 |
| 92.5° | 21.8 | 24.1 | 26.6 | 28.9 | 31.3 | 33.2 | 34.6 | 36.0 | 37.4 | 38.8 | 38.9 |
| 95° | 63.5 | 66.3 | 69.0 | 71.7 | 74.5 | 76.1 | 76.6 | 77.1 | 77.7 | 78.2 | 78.2 |
| 97.5° | 116.1 | 118.5 | 120.9 | 123.3 | 125.6 | 127.3 | 128.4 | 129.4 | 130.4 | 131.5 | 131.5 |
| 100° | 155.2 | 157.4 | 159.6 | 161.7 | 163.9 | 165.4 | 166.2 | 167.0 | 167.9 | 168.6 | 168.6 |
| 102.5° | 196.2 | 198.0 | 199.7 | 201.5 | 203.2 | 204.6 | 205.7 | 206.7 | 207.7 | 208.8 | 209.0 |
| 105° | 262.8 | 263.5 | 264.4 | 265.2 | 266.0 | 266.7 | 267.2 | 267.8 | 268.3 | 268.9 | 269.4 |
| 107.5° | 329.7 | 330.9 | 332.2 | 333.3 | 334.5 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.4 |
| 110° | 372.8 | 374.4 | 376.0 | 377.7 | 379.3 | 380.1 | 380.1 | 380.1 | 380.1 | 380.1 | 380.1 |



TEST NUMBER: P331800-830

CATALOG NUMBER: S122RDIW-S485D1240U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 419.7 | 421.3 | 422.9 | 424.6 | 426.2 | 426.9 | 426.7 | 426.5 | 426.2 | 426.0 | 425.4 |
| 115° | 488.9 | 490.5 | 492.1 | 493.7 | 495.4 | 495.9 | 495.4 | 494.8 | 494.3 | 493.7 | 493.5 |
| 117.5° | 557.8 | 560.0 | 562.1 | 564.3 | 566.5 | 566.8 | 565.2 | 563.7 | 562.2 | 560.7 | 560.1 |
| 120° | 603.7 | 605.9 | 608.1 | 610.3 | 612.5 | 612.5 | 610.3 | 608.1 | 605.9 | 603.7 | 603.7 |
| 122.5° | 645.7 | 648.4 | 651.0 | 653.6 | 656.2 | 656.8 | 655.3 | 653.7 | 652.1 | 650.6 | 650.0 |
| 125° | 711.2 | 713.7 | 716.1 | 718.6 | 721.0 | 721.9 | 721.0 | 720.3 | 719.4 | 718.6 | 717.8 |
| 127.5° | 775.1 | 778.2 | 781.3 | 784.4 | 787.5 | 788.5 | 787.6 | 786.6 | 785.6 | 784.6 | 783.6 |
| 130° | 815.2 | 818.7 | 822.3 | 825.8 | 829.2 | 830.8 | 830.3 | 829.7 | 829.2 | 828.6 | 828.0 |
| 132.5° | 860.2 | 863.0 | 865.9 | 868.7 | 871.7 | 873.2 | 873.3 | 873.4 | 873.5 | 873.5 | 872.4 |
| 135° | 920.3 | 923.2 | 926.2 | 929.3 | 932.3 | 934.0 | 934.5 | 935.1 | 935.7 | 936.1 | 935.9 |
| 137.5° | 983.5 | 986.0 | 988.4 | 990.9 | 993.3 | 994.9 | 995.6 | 996.4 | 997.0 | 997.8 | 997.6 |
| 140° | 1021.7 | 1024.2 | 1026.6 | 1029.1 | 1031.5 | 1033.4 | 1034.7 | 1036.1 | 1037.5 | 1038.8 | 1038.8 |
| 142.5° | 1060.8 | 1063.3 | 1065.7 | 1068.2 | 1070.6 | 1072.2 | 1073.2 | 1074.1 | 1075.1 | 1076.0 | 1076.2 |
| 145° | 1117.0 | 1119.0 | 1120.9 | 1122.8 | 1124.6 | 1126.4 | 1128.0 | 1129.6 | 1131.3 | 1132.9 | 1133.2 |
| 147.5° | 1167.2 | 1169.4 | 1171.7 | 1174.0 | 1176.3 | 1178.0 | 1179.0 | 1180.2 | 1181.2 | 1182.3 | 1182.9 |
| 150° | 1201.4 | 1203.0 | 1204.7 | 1206.3 | 1207.9 | 1209.3 | 1210.3 | 1211.4 | 1212.5 | 1213.6 | 1214.4 |
| 152.5° | 1231.7 | 1233.3 | 1234.9 | 1236.5 | 1238.2 | 1239.6 | 1241.0 | 1242.3 | 1243.6 | 1244.9 | 1245.9 |
| 155° | 1277.1 | 1278.0 | 1278.7 | 1279.6 | 1280.4 | 1281.2 | 1282.0 | 1282.8 | 1283.6 | 1284.5 | 1285.8 |
| 157.5° | 1316.0 | 1316.5 | 1317.1 | 1317.7 | 1318.1 | 1318.7 | 1319.2 | 1319.7 | 1320.1 | 1320.7 | 1322.5 |
| 160° | 1339.4 | 1340.0 | 1340.6 | 1341.1 | 1341.6 | 1342.1 | 1342.3 | 1342.6 | 1342.8 | 1343.1 | 1344.7 |
| 162.5° | 1360.9 | 1361.1 | 1361.2 | 1361.3 | 1361.4 | 1361.6 | 1361.9 | 1362.2 | 1362.4 | 1362.7 | 1364.5 |
| 165° | 1389.6 | 1389.3 | 1389.0 | 1388.7 | 1388.5 | 1388.4 | 1388.4 | 1388.4 | 1388.4 | 1388.4 | 1390.3 |
| 167.5° | 1413.5 | 1412.7 | 1411.9 | 1411.1 | 1410.2 | 1409.9 | 1409.8 | 1409.8 | 1409.7 | 1409.6 | 1411.6 |
| 170° | 1426.3 | 1425.4 | 1424.7 | 1423.8 | 1423.0 | 1422.5 | 1422.2 | 1421.9 | 1421.6 | 1421.4 | 1423.2 |
| 172.5° | 1435.0 | 1434.3 | 1433.4 | 1432.6 | 1431.8 | 1431.3 | 1431.0 | 1430.7 | 1430.4 | 1430.1 | 1432.1 |
| 175° | 1445.8 | 1445.0 | 1444.2 | 1443.3 | 1442.6 | 1441.9 | 1441.3 | 1440.8 | 1440.2 | 1439.6 | 1441.6 |
| 177.5° | 1450.2 | 1449.5 | 1448.9 | 1448.2 | 1447.6 | 1447.1 | 1446.6 | 1446.1 | 1445.8 | 1445.3 | 1446.6 |
| 180° | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 |



TEST NUMBER: P331800-830

CATALOG NUMBER: S122RDIW-S485D1240U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 |
| 2.5° | 774.1 | 775.4 | 776.7 | 777.1 | 776.9 | 776.7 | 776.4 | 776.2 |
| 5° | 768.0 | 769.4 | 770.8 | 771.3 | 770.8 | 770.3 | 769.9 | 769.4 |
| 7.5° | 755.5 | 755.9 | 756.4 | 756.2 | 755.4 | 754.5 | 753.8 | 752.9 |
| 10° | 743.1 | 742.6 | 742.2 | 741.5 | 740.6 | 739.6 | 738.7 | 737.7 |
| 12.5° | 728.9 | 728.0 | 727.2 | 725.9 | 724.3 | 722.8 | 721.2 | 719.7 |
| 15° | 702.2 | 699.3 | 696.3 | 694.0 | 692.4 | 690.9 | 689.3 | 687.8 |
| 17.5° | 672.0 | 668.5 | 665.0 | 661.9 | 659.2 | 656.5 | 653.8 | 651.1 |
| 20° | 651.0 | 647.1 | 643.2 | 639.5 | 636.1 | 632.6 | 629.2 | 625.8 |
| 22.5° | 627.9 | 622.9 | 617.9 | 614.1 | 611.5 | 609.0 | 606.4 | 603.8 |
| 25° | 589.7 | 583.3 | 576.9 | 572.5 | 570.1 | 567.8 | 565.5 | 563.2 |
| 27.5° | 553.3 | 545.7 | 538.3 | 532.7 | 529.0 | 525.3 | 521.5 | 517.8 |
| 30° | 527.4 | 519.5 | 511.5 | 505.4 | 501.1 | 497.0 | 492.8 | 488.5 |
| 32.5° | 501.5 | 492.5 | 483.3 | 476.8 | 472.9 | 468.9 | 464.9 | 460.9 |
| 35° | 461.1 | 451.2 | 441.4 | 434.7 | 431.3 | 427.8 | 424.4 | 420.9 |
| 37.5° | 421.6 | 410.8 | 399.9 | 392.5 | 388.6 | 384.7 | 380.7 | 376.7 |
| 40° | 395.2 | 384.1 | 373.0 | 365.4 | 361.4 | 357.3 | 353.2 | 349.1 |
| 42.5° | 368.5 | 357.0 | 345.6 | 337.9 | 333.9 | 330.0 | 326.0 | 322.1 |
| 45° | 329.7 | 318.7 | 307.6 | 300.1 | 296.3 | 292.6 | 288.8 | 285.1 |
| 47.5° | 292.0 | 281.0 | 269.9 | 262.7 | 259.3 | 255.9 | 252.4 | 249.0 |
| 50° | 267.7 | 256.9 | 246.1 | 239.1 | 235.8 | 232.5 | 229.2 | 225.9 |
| 52.5° | 244.8 | 234.4 | 223.9 | 217.3 | 214.2 | 211.2 | 208.1 | 205.1 |
| 55° | 210.0 | 200.6 | 191.2 | 185.0 | 182.1 | 179.1 | 176.2 | 173.1 |
| 57.5° | 178.3 | 169.8 | 161.2 | 155.6 | 153.1 | 150.6 | 148.1 | 145.5 |
| 60° | 156.5 | 148.5 | 140.5 | 135.3 | 132.8 | 130.3 | 127.8 | 125.3 |
| 62.5° | 137.5 | 130.0 | 122.3 | 117.8 | 116.3 | 114.8 | 113.3 | 111.8 |
| 65° | 111.9 | 106.5 | 101.2 | 98.3 | 97.8 | 97.4 | 96.9 | 96.4 |
| 67.5° | 90.3 | 87.8 | 85.4 | 84.0 | 83.4 | 82.9 | 82.5 | 81.9 |
| 70° | 78.5 | 77.0 | 75.4 | 74.3 | 73.7 | 73.0 | 72.4 | 71.8 |
| 72.5° | 68.3 | 67.0 | 65.7 | 64.8 | 64.5 | 64.1 | 63.7 | 63.3 |
| 75° | 54.1 | 53.1 | 51.9 | 51.3 | 51.2 | 51.0 | 50.8 | 50.7 |
| 77.5° | 41.0 | 40.3 | 39.8 | 39.3 | 39.0 | 38.8 | 38.5 | 38.3 |
| 80° | 32.5 | 32.0 | 31.3 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 |
| 82.5° | 24.6 | 24.2 | 23.8 | 23.7 | 23.7 | 23.7 | 23.7 | 23.7 |
| 85° | 13.4 | 13.4 | 13.4 | 13.4 | 13.4 | 13.4 | 13.4 | 13.4 |
| 87.5° | 12.6 | 12.3 | 12.2 | 12.1 | 12.1 | 12.2 | 12.2 | 12.3 |
| 90° | 41.7 | 41.2 | 40.6 | 40.4 | 40.7 | 41.0 | 41.3 | 41.6 |
| 92.5° | 39.1 | 39.2 | 39.3 | 39.4 | 39.4 | 39.5 | 39.6 | 39.6 |
| 95° | 78.2 | 78.2 | 78.2 | 77.9 | 77.4 | 76.8 | 76.3 | 75.8 |
| 97.5° | 131.5 | 131.5 | 131.5 | 131.5 | 131.4 | 131.4 | 131.3 | 131.3 |
| 100° | 168.6 | 168.6 | 168.6 | 168.5 | 168.2 | 168.0 | 167.7 | 167.4 |
| 102.5° | 209.2 | 209.4 | 209.6 | 209.6 | 209.3 | 209.1 | 208.8 | 208.5 |
| 105° | 269.9 | 270.5 | 271.1 | 271.4 | 271.4 | 271.4 | 271.4 | 271.4 |
| 107.5° | 335.5 | 335.7 | 336.0 | 335.5 | 334.2 | 333.0 | 331.7 | 330.5 |
| 110° | 380.1 | 380.1 | 380.1 | 379.7 | 378.9 | 378.1 | 377.2 | 376.5 |



TEST NUMBER: P331800-830

CATALOG NUMBER: S122RDIW-S485D1240U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 424.7 | 424.0 | 423.4 | 422.8 | 422.2 | 421.6 | 421.0 | 420.4 |
| 115° | 493.2 | 492.9 | 492.7 | 492.1 | 491.3 | 490.5 | 489.7 | 488.9 |
| 117.5° | 559.4 | 558.7 | 558.1 | 557.4 | 556.6 | 555.7 | 555.0 | 554.1 |
| 120° | 603.7 | 603.7 | 603.7 | 603.3 | 602.5 | 601.7 | 600.9 | 600.1 |
| 122.5° | 649.4 | 648.8 | 648.1 | 647.4 | 646.9 | 646.2 | 645.6 | 645.1 |
| 125° | 717.0 | 716.1 | 715.4 | 714.8 | 714.5 | 714.3 | 714.0 | 713.7 |
| 127.5° | 782.7 | 781.7 | 780.7 | 779.8 | 778.9 | 778.1 | 777.2 | 776.3 |
| 130° | 827.6 | 827.0 | 826.4 | 825.7 | 824.5 | 823.5 | 822.4 | 821.2 |
| 132.5° | 871.2 | 870.0 | 868.8 | 867.8 | 867.0 | 866.0 | 865.2 | 864.3 |
| 135° | 935.7 | 935.4 | 935.1 | 934.5 | 933.7 | 932.9 | 932.1 | 931.2 |
| 137.5° | 997.3 | 997.1 | 996.9 | 996.3 | 995.1 | 994.1 | 993.0 | 991.9 |
| 140° | 1038.8 | 1038.8 | 1038.8 | 1038.3 | 1037.2 | 1036.1 | 1035.0 | 1034.0 |
| 142.5° | 1076.4 | 1076.7 | 1076.9 | 1076.4 | 1075.3 | 1074.2 | 1073.2 | 1072.0 |
| 145° | 1133.5 | 1133.8 | 1134.0 | 1133.6 | 1132.6 | 1131.4 | 1130.4 | 1129.3 |
| 147.5° | 1183.5 | 1184.1 | 1184.7 | 1184.5 | 1183.5 | 1182.4 | 1181.4 | 1180.3 |
| 150° | 1215.2 | 1216.1 | 1216.8 | 1216.8 | 1216.1 | 1215.2 | 1214.4 | 1213.6 |
| 152.5° | 1247.0 | 1247.9 | 1249.0 | 1249.0 | 1247.9 | 1247.0 | 1245.9 | 1244.9 |
| 155° | 1287.2 | 1288.5 | 1289.9 | 1290.2 | 1289.4 | 1288.5 | 1287.7 | 1286.9 |
| 157.5° | 1324.4 | 1326.2 | 1328.0 | 1328.3 | 1327.0 | 1325.7 | 1324.4 | 1323.0 |
| 160° | 1346.4 | 1348.0 | 1349.6 | 1349.9 | 1348.9 | 1347.7 | 1346.7 | 1345.6 |
| 162.5° | 1366.4 | 1368.2 | 1370.1 | 1370.4 | 1369.0 | 1367.7 | 1366.4 | 1365.2 |
| 165° | 1392.1 | 1394.0 | 1396.0 | 1396.2 | 1394.9 | 1393.5 | 1392.1 | 1390.8 |
| 167.5° | 1413.4 | 1415.3 | 1417.2 | 1417.5 | 1416.1 | 1414.7 | 1413.2 | 1411.8 |
| 170° | 1425.1 | 1427.0 | 1429.0 | 1429.1 | 1427.5 | 1425.9 | 1424.2 | 1422.6 |
| 172.5° | 1434.0 | 1435.9 | 1437.8 | 1437.8 | 1436.2 | 1434.6 | 1433.0 | 1431.3 |
| 175° | 1443.5 | 1445.4 | 1447.3 | 1447.5 | 1445.8 | 1444.2 | 1442.6 | 1440.9 |
| 177.5° | 1447.9 | 1449.3 | 1450.5 | 1450.5 | 1449.3 | 1447.9 | 1446.6 | 1445.3 |
| 180° | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 |

(END OF REPORT)