

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: P331800-840

Luminaire Tested: **S122RDIW-S485D1240U840-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331800-840
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-S485D1240U840-4F0-1E-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: 6059.0 lumens
Efficiency: N/A
Efficacy: 112.6 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

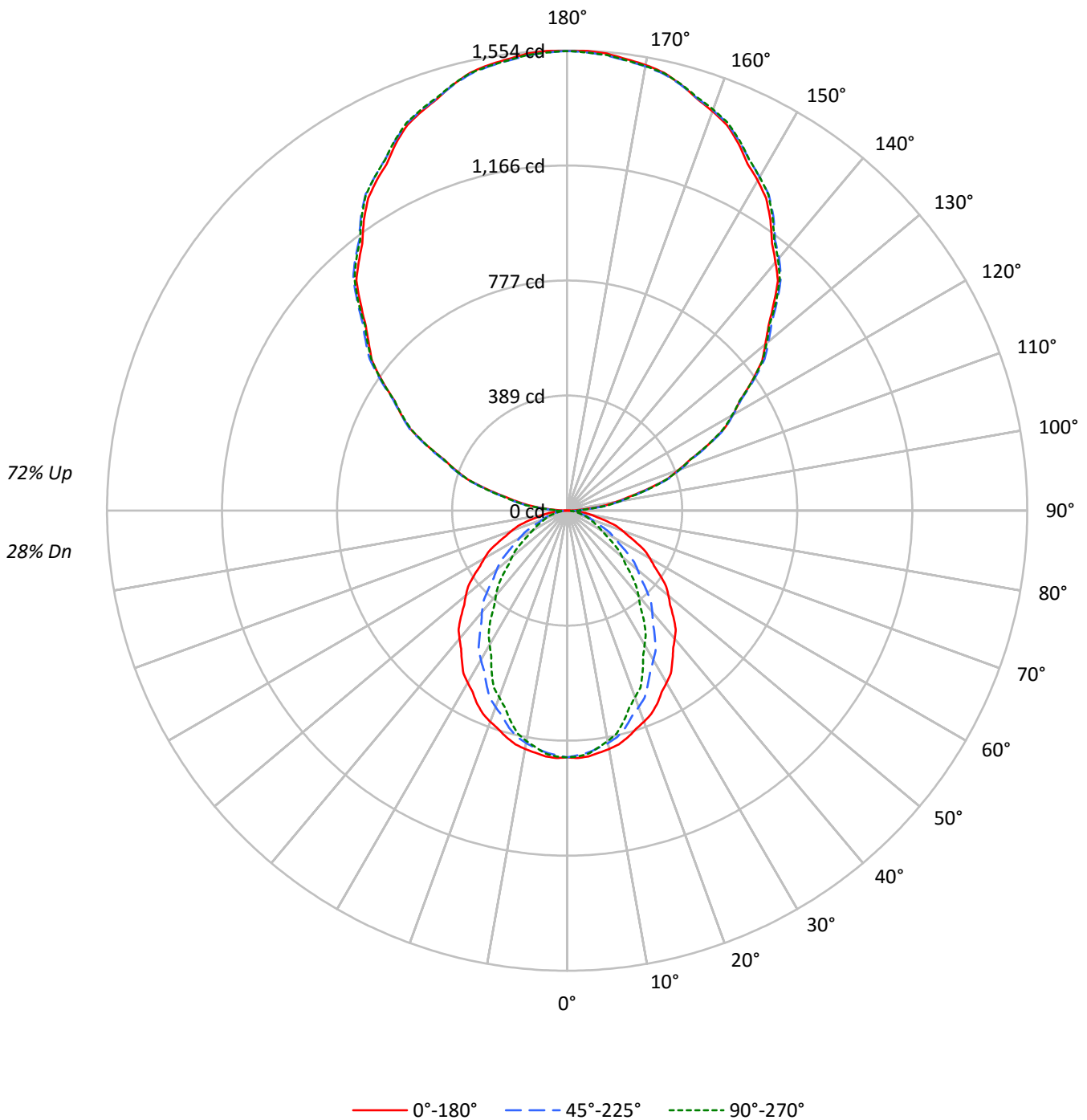
Input Watts (W): 53.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331800-840

CATALOG NUMBER: S122RDIW-S485D1240U840-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331800-840

CATALOG NUMBER: S122RDIW-S485D1240U840-4F0-1E-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 | 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 | 17 | 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° | 13454 | 13454 | 13454 |
| 5° | 13506 | 13287 | 13361 |
| 10° | 13404 | 13070 | 12959 |
| 15° | 13249 | 12682 | 12318 |
| 20° | 13036 | 12129 | 11519 |
| 25° | 12818 | 11501 | 10750 |
| 30° | 12515 | 10856 | 9758 |
| 35° | 12220 | 10153 | 8889 |
| 40° | 11921 | 9428 | 7885 |
| 45° | 11574 | 8611 | 6976 |
| 50° | 11215 | 7784 | 6081 |
| 55° | 10849 | 6899 | 5222 |
| 60° | 10424 | 5968 | 4334 |
| 65° | 9941 | 5012 | 3947 |
| 70° | 9361 | 4131 | 3635 |
| 75° | 8659 | 3762 | 3387 |
| 80° | 7643 | 3366 | 3087 |
| 85° | 6002 | 2649 | 2649 |



TEST NUMBER: P331800-840

CATALOG NUMBER: S122RDIW-S485D1240U840-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 78.0 | 1.3 |
| 10°-20° | 214.2 | 3.5 |
| 20°-30° | 300.8 | 5.0 |
| 30°-40° | 328.0 | 5.4 |
| 40°-50° | 301.6 | 5.0 |
| 50°-60° | 236.8 | 3.9 |
| 60°-70° | 154.4 | 2.5 |
| 70°-80° | 79.6 | 1.3 |
| 80°-90° | 26.8 | 0.4 |
| 90°-100° | 98.3 | 1.6 |
| 100°-110° | 305.4 | 5.0 |
| 110°-120° | 522.0 | 8.6 |
| 120°-130° | 686.4 | 11.3 |
| 130°-140° | 770.4 | 12.7 |
| 140°-150° | 755.4 | 12.5 |
| 150°-160° | 633.6 | 10.5 |
| 160°-170° | 420.3 | 6.9 |
| 170°-180° | 146.9 | 2.4 |
| 0°-30° | 593.0 | 9.8 |
| 0°-40° | 921.0 | 15.2 |
| 0°-60° | 1459.4 | 24.1 |
| 0°-90° | 1720.3 | 28.4 |
| 90°-120° | 925.7 | 15.3 |
| 90°-150° | 3138.0 | 51.8 |
| 90°-180° | 4339.0 | 71.6 |
| 0°-180° | 6059.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 833 | 833 | 833 | 833 | 833 | |
| 5° | 833 | 829 | 820 | 826 | 824 | 79 |
| 15° | 793 | 783 | 759 | 745 | 737 | 223 |
| 25° | 720 | 694 | 646 | 616 | 603 | 331 |
| 35° | 620 | 580 | 515 | 469 | 451 | 388 |
| 45° | 507 | 455 | 377 | 326 | 306 | 391 |
| 55° | 385 | 325 | 245 | 202 | 186 | 344 |
| 65° | 260 | 199 | 131 | 107 | 103 | 258 |
| 75° | 139 | 87 | 60 | 55 | 54 | 147 |
| 85° | 32 | 17 | 14 | 14 | 14 | 38 |
| 90° | 1 | 18 | 46 | 43 | 44 | 5 |
| 95° | 68 | 81 | 84 | 84 | 81 | 78 |
| 105° | 282 | 285 | 288 | 291 | 291 | 297 |
| 115° | 524 | 531 | 529 | 528 | 524 | 518 |
| 125° | 762 | 773 | 770 | 766 | 765 | 681 |
| 135° | 986 | 1000 | 1003 | 1002 | 998 | 761 |
| 145° | 1197 | 1206 | 1214 | 1215 | 1210 | 747 |
| 155° | 1368 | 1372 | 1376 | 1382 | 1379 | 630 |
| 165° | 1489 | 1488 | 1488 | 1496 | 1490 | 420 |
| 175° | 1549 | 1545 | 1542 | 1551 | 1544 | 147 |
| 180° | 1552 | 1552 | 1552 | 1552 | 1552 | |



TEST NUMBER: P331800-840

CATALOG NUMBER: S122RDIW-S485D1240U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 |
| 2.5° | 836.4 | 835.8 | 835.1 | 834.4 | 833.7 | 832.6 | 831.2 | 829.7 | 828.2 | 826.8 | 828.1 |
| 5° | 833.3 | 832.5 | 831.7 | 830.9 | 830.0 | 828.5 | 826.4 | 824.2 | 822.0 | 819.8 | 821.3 |
| 7.5° | 824.8 | 823.7 | 822.7 | 821.6 | 820.6 | 818.8 | 816.3 | 813.7 | 811.2 | 808.7 | 809.1 |
| 10° | 817.6 | 816.4 | 815.2 | 814.1 | 812.8 | 810.6 | 807.3 | 803.9 | 800.5 | 797.2 | 796.7 |
| 12.5° | 808.5 | 807.1 | 805.6 | 804.2 | 802.7 | 799.9 | 795.6 | 791.3 | 787.0 | 782.7 | 781.8 |
| 15° | 792.6 | 790.8 | 789.0 | 787.1 | 785.3 | 781.5 | 775.8 | 770.1 | 764.5 | 758.7 | 755.6 |
| 17.5° | 773.3 | 770.4 | 767.6 | 764.8 | 761.9 | 756.9 | 749.6 | 742.3 | 735.0 | 727.6 | 723.9 |
| 20° | 758.7 | 755.4 | 752.0 | 748.7 | 745.3 | 739.4 | 731.0 | 722.7 | 714.3 | 705.9 | 701.8 |
| 22.5° | 743.1 | 739.3 | 735.5 | 731.7 | 728.0 | 721.4 | 712.0 | 702.5 | 693.1 | 683.6 | 678.2 |
| 25° | 719.5 | 714.2 | 708.8 | 703.4 | 698.0 | 689.8 | 678.7 | 667.7 | 656.6 | 645.6 | 638.7 |
| 27.5° | 691.2 | 685.3 | 679.4 | 673.7 | 667.8 | 658.6 | 646.2 | 633.7 | 621.3 | 608.7 | 600.8 |
| 30° | 671.3 | 664.9 | 658.5 | 652.2 | 645.8 | 635.9 | 622.5 | 609.0 | 595.6 | 582.3 | 573.7 |
| 32.5° | 652.0 | 644.5 | 637.0 | 629.7 | 622.2 | 611.6 | 597.9 | 584.2 | 570.6 | 556.9 | 547.1 |
| 35° | 620.0 | 611.4 | 602.9 | 594.3 | 585.7 | 574.1 | 559.4 | 544.6 | 529.9 | 515.1 | 504.5 |
| 37.5° | 587.9 | 578.6 | 569.2 | 559.8 | 550.5 | 537.9 | 522.2 | 506.4 | 490.7 | 475.0 | 463.3 |
| 40° | 565.6 | 555.6 | 545.5 | 535.5 | 525.4 | 512.3 | 496.0 | 479.8 | 463.5 | 447.3 | 435.4 |
| 42.5° | 542.7 | 532.1 | 521.5 | 511.0 | 500.4 | 486.7 | 469.9 | 453.0 | 436.3 | 419.5 | 407.2 |
| 45° | 506.9 | 495.6 | 484.3 | 473.1 | 461.9 | 447.5 | 429.9 | 412.3 | 394.7 | 377.1 | 365.2 |
| 47.5° | 471.8 | 459.9 | 448.1 | 436.2 | 424.2 | 409.2 | 391.0 | 372.8 | 354.7 | 336.5 | 324.7 |
| 50° | 446.5 | 434.5 | 422.7 | 410.8 | 398.9 | 383.7 | 365.3 | 346.9 | 328.4 | 309.9 | 298.4 |
| 52.5° | 421.7 | 409.3 | 396.9 | 384.5 | 372.0 | 356.8 | 338.7 | 320.7 | 302.7 | 284.7 | 273.5 |
| 55° | 385.4 | 372.3 | 359.2 | 346.2 | 333.2 | 317.5 | 299.4 | 281.3 | 263.2 | 245.1 | 235.1 |
| 57.5° | 348.1 | 334.8 | 321.3 | 307.9 | 294.5 | 279.1 | 261.8 | 244.3 | 226.9 | 209.5 | 200.3 |
| 60° | 322.8 | 309.4 | 296.0 | 282.6 | 269.1 | 253.9 | 236.6 | 219.3 | 202.1 | 184.8 | 176.2 |
| 62.5° | 298.0 | 284.7 | 271.2 | 257.8 | 244.4 | 229.5 | 213.1 | 196.6 | 180.2 | 163.7 | 155.5 |
| 65° | 260.2 | 246.6 | 233.1 | 219.4 | 205.9 | 191.6 | 176.5 | 161.4 | 146.3 | 131.2 | 125.5 |
| 67.5° | 223.7 | 210.3 | 196.7 | 183.3 | 169.8 | 156.2 | 142.7 | 129.2 | 115.5 | 102.0 | 99.4 |
| 70° | 198.3 | 185.3 | 172.2 | 159.2 | 146.0 | 133.7 | 122.2 | 110.6 | 99.1 | 87.5 | 85.8 |
| 72.5° | 174.2 | 161.7 | 149.2 | 136.6 | 124.1 | 113.2 | 103.9 | 94.6 | 85.3 | 76.0 | 74.6 |
| 75° | 138.8 | 127.0 | 115.3 | 103.6 | 91.8 | 83.1 | 77.5 | 71.7 | 66.0 | 60.3 | 59.2 |
| 77.5° | 103.9 | 93.6 | 83.3 | 73.0 | 62.8 | 56.2 | 53.5 | 50.8 | 48.0 | 45.2 | 44.5 |
| 80° | 82.2 | 73.6 | 65.1 | 56.6 | 48.0 | 42.9 | 41.2 | 39.6 | 37.9 | 36.2 | 35.5 |
| 82.5° | 62.3 | 55.6 | 49.0 | 42.3 | 35.6 | 31.7 | 30.6 | 29.4 | 28.3 | 27.2 | 26.8 |
| 85° | 32.4 | 28.9 | 25.3 | 21.9 | 18.4 | 16.4 | 15.9 | 15.3 | 14.8 | 14.3 | 14.3 |
| 87.5° | 9.9 | 9.5 | 9.2 | 8.8 | 8.4 | 8.9 | 10.2 | 11.4 | 12.7 | 14.0 | 13.7 |
| 90° | 1.3 | 4.8 | 8.3 | 11.8 | 15.2 | 20.2 | 26.7 | 33.0 | 39.4 | 45.8 | 45.2 |
| 92.5° | 23.3 | 25.9 | 28.5 | 31.0 | 33.5 | 35.5 | 37.1 | 38.6 | 40.1 | 41.6 | 41.7 |
| 95° | 68.1 | 71.0 | 73.9 | 76.9 | 79.8 | 81.5 | 82.1 | 82.6 | 83.2 | 83.8 | 83.8 |
| 97.5° | 124.4 | 126.9 | 129.6 | 132.1 | 134.6 | 136.4 | 137.5 | 138.7 | 139.8 | 140.9 | 140.9 |
| 100° | 166.3 | 168.6 | 171.0 | 173.3 | 175.6 | 177.2 | 178.0 | 178.9 | 179.9 | 180.7 | 180.7 |
| 102.5° | 210.3 | 212.2 | 214.0 | 215.9 | 217.7 | 219.2 | 220.4 | 221.5 | 222.6 | 223.7 | 223.9 |
| 105° | 281.6 | 282.4 | 283.3 | 284.2 | 285.0 | 285.8 | 286.3 | 286.9 | 287.5 | 288.1 | 288.6 |
| 107.5° | 353.3 | 354.6 | 355.9 | 357.1 | 358.4 | 359.0 | 359.0 | 359.0 | 359.0 | 359.0 | 359.3 |
| 110° | 399.4 | 401.1 | 402.8 | 404.7 | 406.4 | 407.3 | 407.3 | 407.3 | 407.3 | 407.3 | 407.3 |



TEST NUMBER: P331800-840

CATALOG NUMBER: S122RDIW-S485D1240U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 449.7 | 451.4 | 453.1 | 454.9 | 456.7 | 457.4 | 457.2 | 457.0 | 456.7 | 456.5 | 455.8 |
| 115° | 523.8 | 525.5 | 527.3 | 529.0 | 530.8 | 531.3 | 530.8 | 530.2 | 529.6 | 529.0 | 528.8 |
| 117.5° | 597.6 | 600.0 | 602.3 | 604.6 | 606.9 | 607.3 | 605.6 | 604.0 | 602.4 | 600.8 | 600.1 |
| 120° | 646.8 | 649.1 | 651.6 | 653.9 | 656.2 | 656.2 | 653.9 | 651.6 | 649.1 | 646.8 | 646.8 |
| 122.5° | 691.9 | 694.7 | 697.5 | 700.2 | 703.1 | 703.7 | 702.1 | 700.4 | 698.7 | 697.1 | 696.4 |
| 125° | 762.0 | 764.7 | 767.3 | 769.9 | 772.5 | 773.5 | 772.5 | 771.7 | 770.8 | 769.9 | 769.1 |
| 127.5° | 830.4 | 833.7 | 837.1 | 840.4 | 843.7 | 844.9 | 843.8 | 842.7 | 841.7 | 840.6 | 839.6 |
| 130° | 873.4 | 877.2 | 881.0 | 884.7 | 888.5 | 890.1 | 889.6 | 889.0 | 888.4 | 887.8 | 887.2 |
| 132.5° | 921.6 | 924.6 | 927.8 | 930.8 | 933.9 | 935.5 | 935.6 | 935.7 | 935.8 | 935.9 | 934.7 |
| 135° | 986.0 | 989.2 | 992.4 | 995.6 | 998.9 | 1000.7 | 1001.3 | 1001.9 | 1002.5 | 1003.0 | 1002.7 |
| 137.5° | 1053.8 | 1056.4 | 1059.0 | 1061.7 | 1064.3 | 1066.0 | 1066.7 | 1067.5 | 1068.2 | 1069.0 | 1068.8 |
| 140° | 1094.7 | 1097.3 | 1099.9 | 1102.6 | 1105.2 | 1107.2 | 1108.6 | 1110.1 | 1111.6 | 1113.0 | 1113.0 |
| 142.5° | 1136.6 | 1139.2 | 1141.9 | 1144.5 | 1147.1 | 1148.8 | 1149.8 | 1150.8 | 1151.9 | 1152.9 | 1153.1 |
| 145° | 1196.8 | 1198.9 | 1200.9 | 1203.0 | 1205.0 | 1206.9 | 1208.6 | 1210.3 | 1212.1 | 1213.9 | 1214.2 |
| 147.5° | 1250.5 | 1252.9 | 1255.4 | 1257.9 | 1260.3 | 1262.1 | 1263.2 | 1264.5 | 1265.6 | 1266.8 | 1267.4 |
| 150° | 1287.2 | 1288.9 | 1290.7 | 1292.4 | 1294.1 | 1295.7 | 1296.8 | 1298.0 | 1299.1 | 1300.3 | 1301.1 |
| 152.5° | 1319.7 | 1321.4 | 1323.1 | 1324.8 | 1326.7 | 1328.2 | 1329.6 | 1331.0 | 1332.4 | 1333.8 | 1334.9 |
| 155° | 1368.4 | 1369.3 | 1370.1 | 1371.0 | 1371.9 | 1372.7 | 1373.6 | 1374.4 | 1375.3 | 1376.2 | 1377.7 |
| 157.5° | 1410.0 | 1410.6 | 1411.2 | 1411.8 | 1412.3 | 1412.9 | 1413.4 | 1413.9 | 1414.4 | 1415.0 | 1416.9 |
| 160° | 1435.1 | 1435.7 | 1436.3 | 1436.9 | 1437.4 | 1437.9 | 1438.1 | 1438.5 | 1438.8 | 1439.1 | 1440.8 |
| 162.5° | 1458.1 | 1458.3 | 1458.4 | 1458.5 | 1458.6 | 1458.9 | 1459.2 | 1459.5 | 1459.8 | 1460.1 | 1462.0 |
| 165° | 1488.8 | 1488.5 | 1488.2 | 1487.9 | 1487.6 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1489.6 |
| 167.5° | 1514.5 | 1513.6 | 1512.8 | 1511.9 | 1511.0 | 1510.6 | 1510.5 | 1510.5 | 1510.4 | 1510.3 | 1512.4 |
| 170° | 1528.1 | 1527.2 | 1526.4 | 1525.5 | 1524.6 | 1524.1 | 1523.8 | 1523.5 | 1523.2 | 1522.9 | 1524.9 |
| 172.5° | 1537.5 | 1536.7 | 1535.8 | 1534.9 | 1534.1 | 1533.5 | 1533.2 | 1532.9 | 1532.6 | 1532.3 | 1534.4 |
| 175° | 1549.0 | 1548.2 | 1547.3 | 1546.4 | 1545.6 | 1544.9 | 1544.3 | 1543.7 | 1543.1 | 1542.5 | 1544.6 |
| 177.5° | 1553.8 | 1553.1 | 1552.4 | 1551.7 | 1551.0 | 1550.4 | 1549.9 | 1549.4 | 1549.0 | 1548.5 | 1549.9 |
| 180° | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 |



TEST NUMBER: P331800-840

CATALOG NUMBER: S122RDIW-S485D1240U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 |
| 2.5° | 829.4 | 830.8 | 832.1 | 832.6 | 832.4 | 832.1 | 831.8 | 831.6 |
| 5° | 822.8 | 824.4 | 825.9 | 826.4 | 825.9 | 825.4 | 824.9 | 824.4 |
| 7.5° | 809.5 | 809.9 | 810.4 | 810.2 | 809.3 | 808.4 | 807.6 | 806.7 |
| 10° | 796.2 | 795.7 | 795.2 | 794.5 | 793.5 | 792.4 | 791.4 | 790.4 |
| 12.5° | 780.9 | 780.0 | 779.1 | 777.8 | 776.1 | 774.5 | 772.7 | 771.1 |
| 15° | 752.3 | 749.2 | 746.0 | 743.6 | 741.8 | 740.2 | 738.5 | 736.9 |
| 17.5° | 720.0 | 716.3 | 712.5 | 709.1 | 706.3 | 703.4 | 700.5 | 697.6 |
| 20° | 697.5 | 693.4 | 689.1 | 685.2 | 681.6 | 677.8 | 674.2 | 670.4 |
| 22.5° | 672.8 | 667.4 | 662.1 | 657.9 | 655.2 | 652.5 | 649.7 | 646.9 |
| 25° | 631.9 | 625.0 | 618.1 | 613.4 | 610.9 | 608.3 | 605.9 | 603.4 |
| 27.5° | 592.8 | 584.7 | 576.7 | 570.8 | 566.7 | 562.8 | 558.8 | 554.8 |
| 30° | 565.1 | 556.6 | 548.1 | 541.5 | 536.9 | 532.5 | 528.0 | 523.4 |
| 32.5° | 537.3 | 527.7 | 517.9 | 510.9 | 506.6 | 502.4 | 498.1 | 493.8 |
| 35° | 494.0 | 483.4 | 472.9 | 465.7 | 462.1 | 458.4 | 454.7 | 451.0 |
| 37.5° | 451.7 | 440.1 | 428.5 | 420.5 | 416.4 | 412.1 | 407.9 | 403.6 |
| 40° | 423.4 | 411.5 | 399.6 | 391.5 | 387.2 | 382.8 | 378.4 | 374.1 |
| 42.5° | 394.9 | 382.5 | 370.3 | 362.0 | 357.8 | 353.6 | 349.3 | 345.1 |
| 45° | 353.3 | 341.4 | 329.5 | 321.5 | 317.5 | 313.5 | 309.4 | 305.5 |
| 47.5° | 312.9 | 301.0 | 289.2 | 281.4 | 277.8 | 274.2 | 270.4 | 266.8 |
| 50° | 286.8 | 275.3 | 263.7 | 256.2 | 252.7 | 249.1 | 245.6 | 242.1 |
| 52.5° | 262.3 | 251.2 | 239.9 | 232.8 | 229.5 | 226.3 | 223.0 | 219.7 |
| 55° | 225.0 | 214.9 | 204.9 | 198.2 | 195.1 | 191.9 | 188.7 | 185.5 |
| 57.5° | 191.1 | 181.9 | 172.7 | 166.7 | 164.0 | 161.4 | 158.6 | 155.9 |
| 60° | 167.6 | 159.2 | 150.6 | 145.0 | 142.3 | 139.6 | 136.9 | 134.2 |
| 62.5° | 147.3 | 139.3 | 131.1 | 126.2 | 124.6 | 123.0 | 121.4 | 119.8 |
| 65° | 119.9 | 114.1 | 108.5 | 105.3 | 104.8 | 104.3 | 103.8 | 103.3 |
| 67.5° | 96.7 | 94.1 | 91.5 | 90.0 | 89.4 | 88.9 | 88.4 | 87.8 |
| 70° | 84.1 | 82.5 | 80.8 | 79.6 | 79.0 | 78.3 | 77.6 | 77.0 |
| 72.5° | 73.2 | 71.8 | 70.4 | 69.5 | 69.1 | 68.7 | 68.3 | 67.9 |
| 75° | 58.0 | 56.9 | 55.6 | 54.9 | 54.8 | 54.6 | 54.4 | 54.3 |
| 77.5° | 43.9 | 43.2 | 42.6 | 42.1 | 41.8 | 41.6 | 41.3 | 41.0 |
| 80° | 34.8 | 34.2 | 33.5 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 |
| 82.5° | 26.4 | 26.0 | 25.5 | 25.3 | 25.3 | 25.3 | 25.3 | 25.3 |
| 85° | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 |
| 87.5° | 13.5 | 13.2 | 13.0 | 12.9 | 12.9 | 13.0 | 13.0 | 13.1 |
| 90° | 44.6 | 44.1 | 43.5 | 43.3 | 43.6 | 43.9 | 44.2 | 44.5 |
| 92.5° | 41.9 | 42.0 | 42.1 | 42.2 | 42.2 | 42.3 | 42.4 | 42.4 |
| 95° | 83.8 | 83.8 | 83.8 | 83.5 | 82.9 | 82.3 | 81.8 | 81.2 |
| 97.5° | 140.9 | 140.9 | 140.9 | 140.9 | 140.8 | 140.8 | 140.7 | 140.7 |
| 100° | 180.7 | 180.7 | 180.7 | 180.6 | 180.3 | 180.0 | 179.7 | 179.4 |
| 102.5° | 224.1 | 224.4 | 224.6 | 224.6 | 224.3 | 224.0 | 223.7 | 223.4 |
| 105° | 289.2 | 289.8 | 290.4 | 290.7 | 290.7 | 290.7 | 290.7 | 290.7 |
| 107.5° | 359.5 | 359.7 | 360.0 | 359.4 | 358.1 | 356.8 | 355.4 | 354.1 |
| 110° | 407.3 | 407.3 | 407.3 | 406.8 | 406.0 | 405.1 | 404.1 | 403.3 |



TEST NUMBER: P331800-840

CATALOG NUMBER: S122RDIW-S485D1240U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 455.0 | 454.3 | 453.6 | 453.0 | 452.3 | 451.7 | 451.1 | 450.4 |
| 115° | 528.5 | 528.2 | 527.9 | 527.3 | 526.4 | 525.5 | 524.6 | 523.8 |
| 117.5° | 599.4 | 598.6 | 597.9 | 597.2 | 596.3 | 595.4 | 594.6 | 593.7 |
| 120° | 646.8 | 646.8 | 646.8 | 646.4 | 645.5 | 644.7 | 643.8 | 643.0 |
| 122.5° | 695.8 | 695.1 | 694.4 | 693.7 | 693.1 | 692.4 | 691.8 | 691.2 |
| 125° | 768.2 | 767.3 | 766.5 | 765.9 | 765.6 | 765.3 | 765.0 | 764.7 |
| 127.5° | 838.6 | 837.5 | 836.5 | 835.5 | 834.6 | 833.6 | 832.7 | 831.7 |
| 130° | 886.7 | 886.1 | 885.4 | 884.6 | 883.4 | 882.3 | 881.1 | 879.9 |
| 132.5° | 933.4 | 932.1 | 930.9 | 929.8 | 928.9 | 927.9 | 927.0 | 926.0 |
| 135° | 1002.5 | 1002.2 | 1001.9 | 1001.3 | 1000.4 | 999.6 | 998.7 | 997.7 |
| 137.5° | 1068.5 | 1068.3 | 1068.1 | 1067.4 | 1066.2 | 1065.1 | 1063.9 | 1062.8 |
| 140° | 1113.0 | 1113.0 | 1113.0 | 1112.5 | 1111.3 | 1110.1 | 1108.9 | 1107.8 |
| 142.5° | 1153.3 | 1153.6 | 1153.8 | 1153.3 | 1152.2 | 1150.9 | 1149.8 | 1148.6 |
| 145° | 1214.5 | 1214.8 | 1215.0 | 1214.6 | 1213.5 | 1212.2 | 1211.1 | 1209.9 |
| 147.5° | 1268.0 | 1268.7 | 1269.3 | 1269.1 | 1268.0 | 1266.9 | 1265.8 | 1264.7 |
| 150° | 1302.0 | 1302.9 | 1303.7 | 1303.7 | 1302.9 | 1302.0 | 1301.1 | 1300.3 |
| 152.5° | 1336.1 | 1337.1 | 1338.2 | 1338.2 | 1337.1 | 1336.1 | 1334.9 | 1333.8 |
| 155° | 1379.2 | 1380.6 | 1382.0 | 1382.3 | 1381.5 | 1380.6 | 1379.7 | 1378.9 |
| 157.5° | 1419.0 | 1420.9 | 1422.9 | 1423.2 | 1421.8 | 1420.4 | 1419.0 | 1417.5 |
| 160° | 1442.6 | 1444.3 | 1446.0 | 1446.3 | 1445.2 | 1444.0 | 1442.9 | 1441.7 |
| 162.5° | 1464.0 | 1465.9 | 1467.9 | 1468.2 | 1466.8 | 1465.4 | 1464.0 | 1462.7 |
| 165° | 1491.6 | 1493.6 | 1495.7 | 1495.9 | 1494.5 | 1493.1 | 1491.6 | 1490.2 |
| 167.5° | 1514.4 | 1516.4 | 1518.4 | 1518.7 | 1517.2 | 1515.7 | 1514.2 | 1512.7 |
| 170° | 1526.9 | 1528.9 | 1531.1 | 1531.2 | 1529.4 | 1527.7 | 1525.9 | 1524.2 |
| 172.5° | 1536.4 | 1538.4 | 1540.4 | 1540.5 | 1538.8 | 1537.1 | 1535.4 | 1533.6 |
| 175° | 1546.6 | 1548.6 | 1550.6 | 1550.8 | 1549.0 | 1547.3 | 1545.6 | 1543.8 |
| 177.5° | 1551.4 | 1552.8 | 1554.1 | 1554.1 | 1552.8 | 1551.4 | 1549.9 | 1548.5 |
| 180° | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 | 1551.7 |

(END OF REPORT)