

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: P331795-935

Luminaire Tested: **S122RDIW-S485D970U935-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331795-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S485D970U935-4F0-1E-UDD-F
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 970 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4796.2 lumens
Efficiency: N/A
Efficacy: 106.1 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

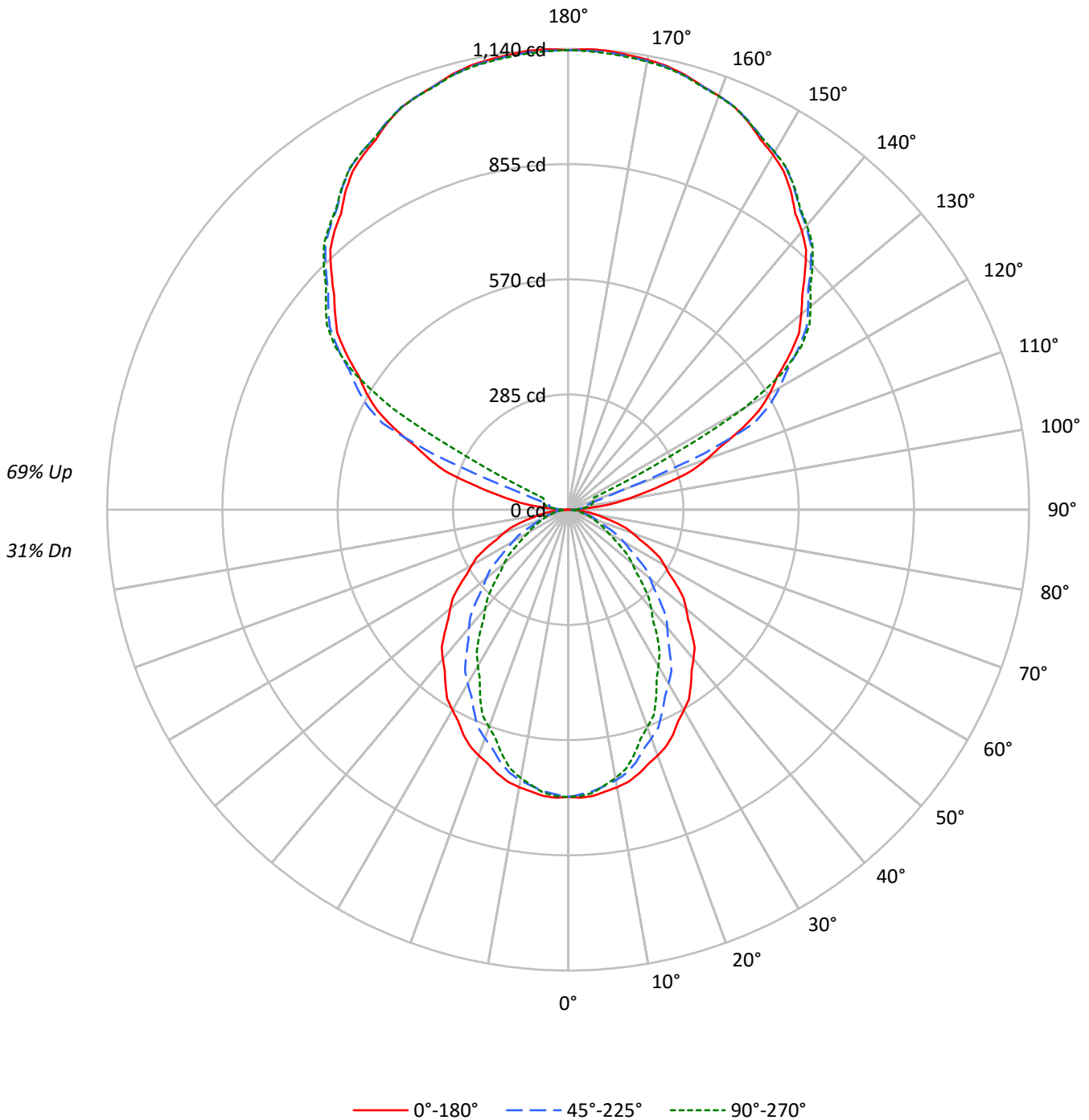
Input Watts (W): 45.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331795-935

CATALOG NUMBER: S122RDIW-S485D970U935-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331795-935

CATALOG NUMBER: S122RDIW-S485D970U935-4F0-1E-UDD-F

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 | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 38 | 38 | 38 | 31 |
| 1 | 94 | 90 | 86 | 83 | 84 | 81 | 78 | 75 | 64 | 62 | 60 | 48 | 47 | 46 | 34 | 33 | 33 | 26 |
| 2 | 86 | 79 | 73 | 68 | 77 | 71 | 66 | 62 | 56 | 53 | 50 | 43 | 41 | 39 | 30 | 29 | 28 | 22 |
| 3 | 78 | 69 | 62 | 57 | 70 | 63 | 57 | 52 | 50 | 46 | 42 | 38 | 35 | 33 | 27 | 26 | 24 | 19 |
| 4 | 72 | 61 | 54 | 48 | 64 | 55 | 49 | 44 | 44 | 40 | 36 | 34 | 31 | 29 | 24 | 23 | 21 | 17 |
| 5 | 66 | 55 | 47 | 41 | 59 | 50 | 43 | 38 | 40 | 35 | 31 | 31 | 27 | 25 | 22 | 20 | 19 | 15 |
| 6 | 61 | 49 | 41 | 36 | 54 | 44 | 38 | 33 | 36 | 31 | 27 | 28 | 24 | 22 | 20 | 18 | 16 | 13 |
| 7 | 56 | 44 | 37 | 31 | 50 | 40 | 34 | 29 | 32 | 28 | 24 | 25 | 22 | 19 | 19 | 16 | 15 | 12 |
| 8 | 52 | 40 | 33 | 28 | 47 | 36 | 30 | 26 | 30 | 25 | 21 | 23 | 20 | 17 | 17 | 15 | 13 | 11 |
| 9 | 48 | 37 | 29 | 25 | 43 | 33 | 27 | 23 | 27 | 22 | 19 | 21 | 18 | 16 | 16 | 14 | 12 | 10 |
| 10 | 45 | 33 | 27 | 22 | 40 | 31 | 24 | 20 | 25 | 20 | 17 | 20 | 16 | 14 | 15 | 12 | 11 | 9 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11472 | 11472 | 11472 |
| 5° | 11515 | 11329 | 11391 |
| 10° | 11429 | 11144 | 11049 |
| 15° | 11296 | 10813 | 10502 |
| 20° | 11115 | 10340 | 9821 |
| 25° | 10929 | 9805 | 9164 |
| 30° | 10670 | 9257 | 8321 |
| 35° | 10419 | 8657 | 7579 |
| 40° | 10163 | 8037 | 6721 |
| 45° | 9866 | 7341 | 5948 |
| 50° | 9560 | 6636 | 5184 |
| 55° | 9250 | 5883 | 4453 |
| 60° | 8887 | 5089 | 3694 |
| 65° | 8478 | 4271 | 3366 |
| 70° | 7983 | 3522 | 3097 |
| 75° | 7380 | 3206 | 2888 |
| 80° | 6518 | 2864 | 2631 |
| 85° | 5113 | 2260 | 2260 |



TEST NUMBER: P331795-935

CATALOG NUMBER: S122RDIW-S485D970U935-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 66.5 | 1.4 |
| 10°-20° | 182.6 | 3.8 |
| 20°-30° | 256.4 | 5.3 |
| 30°-40° | 279.6 | 5.8 |
| 40°-50° | 257.1 | 5.4 |
| 50°-60° | 201.9 | 4.2 |
| 60°-70° | 131.7 | 2.7 |
| 70°-80° | 67.9 | 1.4 |
| 80°-90° | 20.4 | 0.4 |
| 90°-100° | 37.9 | 0.8 |
| 100°-110° | 139.1 | 2.9 |
| 110°-120° | 371.8 | 7.8 |
| 120°-130° | 613.7 | 12.8 |
| 130°-140° | 652.7 | 13.6 |
| 140°-150° | 606.6 | 12.6 |
| 150°-160° | 487.7 | 10.2 |
| 160°-170° | 314.3 | 6.6 |
| 170°-180° | 108.2 | 2.3 |
| 0°-30° | 505.6 | 10.5 |
| 0°-40° | 785.2 | 16.4 |
| 0°-60° | 1244.3 | 25.9 |
| 0°-90° | 1464.2 | 30.5 |
| 90°-120° | 548.8 | 11.4 |
| 90°-150° | 2421.8 | 50.5 |
| 90°-180° | 3332.0 | 69.5 |
| 0°-180° | 4796.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 710 | 710 | 710 | 710 | 710 | |
| 5° | 710 | 707 | 699 | 704 | 703 | 67 |
| 15° | 676 | 668 | 647 | 635 | 628 | 190 |
| 25° | 614 | 592 | 550 | 525 | 514 | 282 |
| 35° | 529 | 494 | 439 | 400 | 384 | 331 |
| 45° | 432 | 388 | 322 | 278 | 260 | 334 |
| 55° | 329 | 277 | 209 | 172 | 158 | 293 |
| 65° | 222 | 169 | 112 | 91 | 88 | 220 |
| 75° | 118 | 75 | 51 | 47 | 46 | 125 |
| 85° | 28 | 15 | 12 | 12 | 12 | 33 |
| 90° | 1 | 10 | 16 | 20 | 22 | 4 |
| 95° | 54 | 28 | 32 | 36 | 35 | 65 |
| 105° | 250 | 261 | 50 | 59 | 62 | 267 |
| 115° | 473 | 487 | 508 | 145 | 68 | 466 |
| 125° | 669 | 680 | 695 | 701 | 703 | 596 |
| 135° | 828 | 840 | 848 | 856 | 855 | 639 |
| 145° | 960 | 960 | 973 | 978 | 975 | 600 |
| 155° | 1057 | 1051 | 1060 | 1064 | 1058 | 487 |
| 165° | 1114 | 1109 | 1112 | 1117 | 1112 | 315 |
| 175° | 1139 | 1134 | 1135 | 1140 | 1133 | 108 |
| 180° | 1137 | 1137 | 1137 | 1137 | 1137 | |



TEST NUMBER: P331795-935

CATALOG NUMBER: S122RDIW-S485D970U935-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 |
| 2.5° | 713.1 | 712.6 | 712.0 | 711.4 | 710.8 | 709.9 | 708.7 | 707.4 | 706.1 | 704.9 | 706.0 |
| 5° | 710.5 | 709.8 | 709.1 | 708.4 | 707.7 | 706.4 | 704.6 | 702.7 | 700.9 | 699.0 | 700.3 |
| 7.5° | 703.2 | 702.3 | 701.5 | 700.5 | 699.6 | 698.1 | 695.9 | 693.8 | 691.6 | 689.5 | 689.8 |
| 10° | 697.1 | 696.0 | 695.0 | 694.1 | 693.0 | 691.1 | 688.3 | 685.4 | 682.5 | 679.7 | 679.2 |
| 12.5° | 689.3 | 688.1 | 686.8 | 685.6 | 684.4 | 682.0 | 678.3 | 674.7 | 671.0 | 667.4 | 666.6 |
| 15° | 675.8 | 674.2 | 672.7 | 671.1 | 669.5 | 666.3 | 661.4 | 656.6 | 651.8 | 646.9 | 644.2 |
| 17.5° | 659.3 | 656.9 | 654.4 | 652.0 | 649.6 | 645.3 | 639.1 | 632.8 | 626.6 | 620.4 | 617.2 |
| 20° | 646.9 | 644.0 | 641.2 | 638.3 | 635.4 | 630.4 | 623.3 | 616.1 | 609.0 | 601.8 | 598.3 |
| 22.5° | 633.5 | 630.3 | 627.1 | 623.9 | 620.7 | 615.1 | 607.0 | 598.9 | 590.9 | 582.8 | 578.2 |
| 25° | 613.5 | 608.9 | 604.3 | 599.7 | 595.1 | 588.1 | 578.7 | 569.3 | 559.8 | 550.4 | 544.6 |
| 27.5° | 589.3 | 584.3 | 579.3 | 574.4 | 569.4 | 561.5 | 551.0 | 540.3 | 529.7 | 519.0 | 512.2 |
| 30° | 572.3 | 566.9 | 561.5 | 556.0 | 550.6 | 542.2 | 530.7 | 519.3 | 507.8 | 496.5 | 489.1 |
| 32.5° | 555.9 | 549.5 | 543.1 | 536.8 | 530.5 | 521.4 | 509.8 | 498.1 | 486.5 | 474.8 | 466.5 |
| 35° | 528.6 | 521.2 | 514.0 | 506.7 | 499.4 | 489.5 | 476.9 | 464.3 | 451.8 | 439.2 | 430.2 |
| 37.5° | 501.3 | 493.3 | 485.3 | 477.3 | 469.3 | 458.6 | 445.2 | 431.8 | 418.4 | 405.0 | 395.0 |
| 40° | 482.2 | 473.7 | 465.1 | 456.6 | 448.0 | 436.8 | 422.9 | 409.1 | 395.2 | 381.3 | 371.2 |
| 42.5° | 462.7 | 453.7 | 444.6 | 435.7 | 426.6 | 414.9 | 400.6 | 386.2 | 372.0 | 357.7 | 347.2 |
| 45° | 432.1 | 422.6 | 412.9 | 403.4 | 393.8 | 381.5 | 366.5 | 351.5 | 336.5 | 321.5 | 311.3 |
| 47.5° | 402.3 | 392.1 | 382.0 | 371.9 | 361.7 | 348.9 | 333.4 | 317.9 | 302.4 | 286.9 | 276.8 |
| 50° | 380.6 | 370.5 | 360.4 | 350.3 | 340.1 | 327.2 | 311.4 | 295.8 | 280.0 | 264.2 | 254.4 |
| 52.5° | 359.6 | 349.0 | 338.4 | 327.8 | 317.2 | 304.2 | 288.8 | 273.5 | 258.0 | 242.7 | 233.2 |
| 55° | 328.6 | 317.5 | 306.3 | 295.2 | 284.0 | 270.7 | 255.3 | 239.9 | 224.4 | 209.0 | 200.4 |
| 57.5° | 296.8 | 285.4 | 274.0 | 262.5 | 251.1 | 238.0 | 223.2 | 208.3 | 193.5 | 178.7 | 170.7 |
| 60° | 275.2 | 263.8 | 252.4 | 240.9 | 229.5 | 216.5 | 201.7 | 187.0 | 172.3 | 157.6 | 150.2 |
| 62.5° | 254.1 | 242.7 | 231.3 | 219.8 | 208.4 | 195.7 | 181.7 | 167.6 | 153.6 | 139.6 | 132.6 |
| 65° | 221.9 | 210.3 | 198.7 | 187.1 | 175.6 | 163.3 | 150.5 | 137.6 | 124.8 | 111.8 | 107.0 |
| 67.5° | 190.7 | 179.3 | 167.7 | 156.3 | 144.7 | 133.2 | 121.7 | 110.1 | 98.5 | 87.0 | 84.7 |
| 70° | 169.1 | 158.0 | 146.8 | 135.7 | 124.5 | 114.0 | 104.2 | 94.3 | 84.5 | 74.6 | 73.2 |
| 72.5° | 148.5 | 137.8 | 127.2 | 116.5 | 105.8 | 96.5 | 88.6 | 80.7 | 72.8 | 64.8 | 63.6 |
| 75° | 118.3 | 108.3 | 98.3 | 88.3 | 78.3 | 70.9 | 66.0 | 61.1 | 56.3 | 51.4 | 50.5 |
| 77.5° | 88.6 | 79.8 | 71.0 | 62.3 | 53.6 | 48.0 | 45.6 | 43.3 | 40.9 | 38.6 | 38.0 |
| 80° | 70.1 | 62.8 | 55.5 | 48.2 | 40.9 | 36.6 | 35.1 | 33.8 | 32.3 | 30.8 | 30.3 |
| 82.5° | 53.1 | 47.4 | 41.8 | 36.1 | 30.4 | 27.0 | 26.1 | 25.1 | 24.1 | 23.2 | 22.8 |
| 85° | 27.6 | 24.6 | 21.6 | 18.7 | 15.7 | 13.9 | 13.5 | 13.1 | 12.7 | 12.2 | 12.2 |
| 87.5° | 8.4 | 7.9 | 7.4 | 6.9 | 6.4 | 6.2 | 6.5 | 6.8 | 7.1 | 7.4 | 7.5 |
| 90° | 0.9 | 2.8 | 4.8 | 6.9 | 8.9 | 10.6 | 12.1 | 13.5 | 15.0 | 16.4 | 17.4 |
| 92.5° | 16.6 | 16.4 | 16.3 | 16.1 | 15.9 | 16.2 | 16.9 | 17.7 | 18.3 | 19.1 | 19.5 |
| 95° | 53.5 | 47.4 | 41.4 | 35.4 | 29.4 | 26.9 | 28.2 | 29.5 | 30.8 | 32.1 | 33.0 |
| 97.5° | 106.2 | 89.1 | 72.2 | 55.1 | 38.1 | 31.1 | 34.1 | 37.0 | 40.0 | 43.0 | 43.7 |
| 100° | 145.6 | 120.5 | 95.5 | 70.5 | 45.5 | 34.4 | 37.5 | 40.6 | 43.8 | 46.9 | 48.4 |
| 102.5° | 189.1 | 183.7 | 178.5 | 173.1 | 167.8 | 152.2 | 126.2 | 100.2 | 74.2 | 48.2 | 50.1 |
| 105° | 250.1 | 255.6 | 261.1 | 266.6 | 272.1 | 249.9 | 199.9 | 150.0 | 100.1 | 50.2 | 52.2 |
| 107.5° | 319.7 | 324.2 | 328.6 | 332.9 | 337.4 | 309.7 | 249.9 | 189.9 | 130.1 | 70.3 | 68.2 |
| 110° | 364.5 | 368.3 | 372.1 | 376.0 | 379.8 | 355.3 | 302.5 | 249.7 | 196.8 | 144.0 | 125.7 |



TEST NUMBER: P331795-935

CATALOG NUMBER: S122RDIW-S485D970U935-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 406.6 | 410.0 | 413.4 | 416.8 | 420.2 | 415.3 | 402.3 | 389.3 | 376.2 | 363.2 | 296.4 |
| 115° | 473.0 | 476.1 | 479.3 | 482.4 | 485.5 | 489.3 | 493.9 | 498.4 | 503.1 | 507.6 | 422.9 |
| 117.5° | 532.4 | 536.0 | 539.4 | 542.9 | 546.4 | 549.7 | 552.8 | 555.9 | 559.1 | 562.2 | 541.7 |
| 120° | 575.9 | 578.7 | 581.3 | 584.1 | 586.9 | 589.9 | 593.1 | 596.5 | 599.8 | 603.0 | 605.3 |
| 122.5° | 612.8 | 615.6 | 618.5 | 621.4 | 624.3 | 627.6 | 631.1 | 634.7 | 638.3 | 641.9 | 643.2 |
| 125° | 668.8 | 671.2 | 673.6 | 676.0 | 678.4 | 681.3 | 684.8 | 688.3 | 691.7 | 695.2 | 696.5 |
| 127.5° | 719.7 | 722.4 | 725.0 | 727.6 | 730.2 | 732.9 | 735.5 | 738.0 | 740.6 | 743.2 | 745.1 |
| 130° | 752.0 | 754.9 | 757.9 | 760.7 | 763.6 | 766.1 | 768.1 | 770.2 | 772.1 | 774.2 | 776.2 |
| 132.5° | 784.9 | 787.4 | 789.9 | 792.3 | 794.8 | 797.0 | 799.1 | 801.1 | 803.1 | 805.1 | 806.8 |
| 135° | 827.7 | 830.6 | 833.5 | 836.5 | 839.4 | 841.6 | 843.3 | 844.9 | 846.5 | 848.3 | 850.1 |
| 137.5° | 870.9 | 873.0 | 875.0 | 877.1 | 879.1 | 881.1 | 883.0 | 884.8 | 886.7 | 888.6 | 890.4 |
| 140° | 899.2 | 900.7 | 902.2 | 903.6 | 905.1 | 906.8 | 908.8 | 910.9 | 912.8 | 914.9 | 916.5 |
| 142.5° | 922.9 | 924.2 | 925.6 | 926.9 | 928.2 | 930.0 | 932.3 | 934.6 | 936.9 | 939.2 | 940.7 |
| 145° | 960.1 | 959.9 | 959.8 | 959.6 | 959.4 | 960.9 | 964.0 | 967.1 | 970.2 | 973.3 | 974.6 |
| 147.5° | 992.6 | 991.8 | 991.1 | 990.4 | 989.7 | 990.9 | 994.0 | 997.0 | 1000.1 | 1003.2 | 1004.2 |
| 150° | 1013.6 | 1012.3 | 1011.0 | 1009.8 | 1008.5 | 1009.3 | 1012.2 | 1015.1 | 1018.0 | 1021.0 | 1022.1 |
| 152.5° | 1031.4 | 1029.9 | 1028.5 | 1027.1 | 1025.6 | 1026.3 | 1029.1 | 1031.9 | 1034.7 | 1037.4 | 1038.5 |
| 155° | 1057.2 | 1055.5 | 1053.9 | 1052.2 | 1050.6 | 1050.9 | 1053.1 | 1055.2 | 1057.5 | 1059.6 | 1060.8 |
| 157.5° | 1077.5 | 1076.1 | 1074.6 | 1073.2 | 1071.9 | 1071.9 | 1073.5 | 1075.0 | 1076.5 | 1078.1 | 1079.3 |
| 160° | 1089.3 | 1088.2 | 1087.1 | 1086.0 | 1084.9 | 1084.9 | 1086.0 | 1087.1 | 1088.2 | 1089.3 | 1090.4 |
| 162.5° | 1099.8 | 1098.7 | 1097.6 | 1096.5 | 1095.5 | 1095.4 | 1096.3 | 1097.3 | 1098.2 | 1099.2 | 1100.4 |
| 165° | 1114.0 | 1112.8 | 1111.7 | 1110.7 | 1109.6 | 1109.3 | 1109.8 | 1110.3 | 1110.9 | 1111.5 | 1112.8 |
| 167.5° | 1124.5 | 1123.3 | 1122.3 | 1121.2 | 1120.1 | 1119.8 | 1120.3 | 1120.8 | 1121.4 | 1121.9 | 1123.1 |
| 170° | 1130.4 | 1129.3 | 1128.3 | 1127.1 | 1126.0 | 1125.7 | 1126.0 | 1126.4 | 1126.8 | 1127.1 | 1128.4 |
| 172.5° | 1134.4 | 1133.2 | 1132.1 | 1131.1 | 1130.0 | 1129.6 | 1130.0 | 1130.3 | 1130.7 | 1131.1 | 1132.4 |
| 175° | 1139.4 | 1138.2 | 1136.9 | 1135.7 | 1134.4 | 1133.9 | 1134.3 | 1134.6 | 1135.0 | 1135.3 | 1136.6 |
| 177.5° | 1140.3 | 1139.3 | 1138.2 | 1137.2 | 1136.2 | 1135.7 | 1135.9 | 1136.0 | 1136.2 | 1136.3 | 1137.4 |
| 180° | 1137.0 | 1137.0 | 1137.0 | 1137.0 | 1137.0 | 1137.0 | 1137.0 | 1137.0 | 1137.0 | 1137.0 | 1137.0 |



TEST NUMBER: P331795-935

CATALOG NUMBER: S122RDIW-S485D970U935-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 |
| 2.5° | 707.1 | 708.3 | 709.5 | 709.9 | 709.7 | 709.5 | 709.2 | 709.0 |
| 5° | 701.5 | 702.8 | 704.1 | 704.6 | 704.1 | 703.7 | 703.3 | 702.8 |
| 7.5° | 690.2 | 690.5 | 691.0 | 690.8 | 690.0 | 689.2 | 688.5 | 687.8 |
| 10° | 678.8 | 678.4 | 678.0 | 677.3 | 676.5 | 675.6 | 674.8 | 673.9 |
| 12.5° | 665.8 | 665.0 | 664.3 | 663.1 | 661.7 | 660.3 | 658.8 | 657.5 |
| 15° | 641.4 | 638.8 | 636.0 | 634.0 | 632.5 | 631.1 | 629.6 | 628.3 |
| 17.5° | 613.9 | 610.7 | 607.4 | 604.6 | 602.2 | 599.7 | 597.3 | 594.8 |
| 20° | 594.7 | 591.2 | 587.5 | 584.2 | 581.1 | 577.9 | 574.8 | 571.6 |
| 22.5° | 573.6 | 569.0 | 564.5 | 560.9 | 558.6 | 556.3 | 554.0 | 551.6 |
| 25° | 538.7 | 532.9 | 527.0 | 523.0 | 520.8 | 518.7 | 516.6 | 514.4 |
| 27.5° | 505.4 | 498.5 | 491.7 | 486.6 | 483.2 | 479.8 | 476.4 | 473.0 |
| 30° | 481.8 | 474.6 | 467.3 | 461.7 | 457.8 | 454.0 | 450.1 | 446.3 |
| 32.5° | 458.1 | 449.9 | 441.5 | 435.6 | 432.0 | 428.3 | 424.6 | 421.0 |
| 35° | 421.2 | 412.2 | 403.2 | 397.1 | 394.0 | 390.8 | 387.7 | 384.5 |
| 37.5° | 385.1 | 375.2 | 365.3 | 358.5 | 355.0 | 351.4 | 347.8 | 344.1 |
| 40° | 361.0 | 350.9 | 340.7 | 333.8 | 330.1 | 326.4 | 322.6 | 318.9 |
| 42.5° | 336.7 | 326.1 | 315.7 | 308.7 | 305.1 | 301.4 | 297.8 | 294.2 |
| 45° | 301.2 | 291.1 | 280.9 | 274.1 | 270.7 | 267.3 | 263.8 | 260.5 |
| 47.5° | 266.7 | 256.7 | 246.6 | 240.0 | 236.9 | 233.8 | 230.6 | 227.5 |
| 50° | 244.5 | 234.7 | 224.8 | 218.4 | 215.4 | 212.4 | 209.4 | 206.4 |
| 52.5° | 223.6 | 214.1 | 204.6 | 198.5 | 195.7 | 193.0 | 190.1 | 187.4 |
| 55° | 191.8 | 183.2 | 174.7 | 169.0 | 166.3 | 163.6 | 160.9 | 158.2 |
| 57.5° | 162.9 | 155.1 | 147.2 | 142.2 | 139.8 | 137.6 | 135.3 | 132.9 |
| 60° | 142.9 | 135.7 | 128.4 | 123.6 | 121.3 | 119.0 | 116.8 | 114.4 |
| 62.5° | 125.6 | 118.7 | 111.8 | 107.6 | 106.2 | 104.9 | 103.5 | 102.1 |
| 65° | 102.2 | 97.3 | 92.5 | 89.8 | 89.4 | 88.9 | 88.5 | 88.1 |
| 67.5° | 82.5 | 80.2 | 78.0 | 76.7 | 76.2 | 75.8 | 75.3 | 74.8 |
| 70° | 71.7 | 70.3 | 68.9 | 67.8 | 67.3 | 66.7 | 66.1 | 65.6 |
| 72.5° | 62.4 | 61.2 | 60.0 | 59.2 | 58.9 | 58.5 | 58.2 | 57.9 |
| 75° | 49.4 | 48.5 | 47.4 | 46.8 | 46.8 | 46.6 | 46.4 | 46.3 |
| 77.5° | 37.5 | 36.9 | 36.3 | 35.9 | 35.6 | 35.5 | 35.2 | 35.0 |
| 80° | 29.7 | 29.2 | 28.6 | 28.3 | 28.3 | 28.3 | 28.3 | 28.3 |
| 82.5° | 22.5 | 22.1 | 21.8 | 21.6 | 21.6 | 21.6 | 21.6 | 21.6 |
| 85° | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 |
| 87.5° | 7.6 | 7.6 | 7.7 | 7.7 | 7.8 | 7.9 | 8.0 | 8.0 |
| 90° | 18.3 | 19.2 | 20.1 | 20.8 | 21.1 | 21.4 | 21.9 | 22.2 |
| 92.5° | 20.1 | 20.5 | 21.0 | 21.4 | 21.5 | 21.8 | 22.0 | 22.2 |
| 95° | 33.9 | 34.9 | 35.7 | 36.1 | 35.9 | 35.7 | 35.6 | 35.4 |
| 97.5° | 44.4 | 45.1 | 45.9 | 46.3 | 46.6 | 46.8 | 47.0 | 47.2 |
| 100° | 49.9 | 51.3 | 52.8 | 53.6 | 54.0 | 54.4 | 54.8 | 55.1 |
| 102.5° | 52.0 | 53.9 | 55.8 | 57.0 | 57.5 | 58.0 | 58.5 | 59.1 |
| 105° | 54.2 | 56.2 | 58.2 | 59.6 | 60.4 | 61.0 | 61.8 | 62.5 |
| 107.5° | 66.1 | 64.1 | 62.1 | 61.4 | 62.2 | 62.9 | 63.6 | 64.3 |
| 110° | 107.4 | 89.1 | 70.9 | 62.1 | 62.8 | 63.5 | 64.2 | 65.0 |



TEST NUMBER: P331795-935

CATALOG NUMBER: S122RDIW-S485D970U935-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 229.7 | 163.1 | 96.3 | 63.3 | 63.9 | 64.5 | 65.1 | 65.7 |
| 115° | 338.3 | 253.7 | 169.0 | 120.1 | 106.9 | 93.8 | 80.6 | 67.5 |
| 117.5° | 521.2 | 500.8 | 480.4 | 448.5 | 405.2 | 362.0 | 318.7 | 275.4 |
| 120° | 607.4 | 609.6 | 611.8 | 600.5 | 575.9 | 551.2 | 526.5 | 501.9 |
| 122.5° | 644.5 | 645.8 | 647.1 | 645.4 | 640.6 | 635.8 | 631.0 | 626.3 |
| 125° | 697.8 | 699.0 | 700.3 | 701.2 | 701.8 | 702.3 | 702.8 | 703.4 |
| 127.5° | 747.0 | 748.8 | 750.7 | 751.7 | 751.8 | 751.9 | 752.0 | 752.1 |
| 130° | 778.2 | 780.2 | 782.2 | 783.2 | 782.9 | 782.7 | 782.6 | 782.4 |
| 132.5° | 808.6 | 810.3 | 812.0 | 812.8 | 812.5 | 812.4 | 812.2 | 812.0 |
| 135° | 851.9 | 853.7 | 855.5 | 856.3 | 855.9 | 855.5 | 855.1 | 854.8 |
| 137.5° | 892.1 | 893.9 | 895.7 | 896.3 | 895.7 | 895.0 | 894.4 | 893.8 |
| 140° | 918.2 | 919.8 | 921.4 | 921.8 | 920.9 | 920.0 | 919.0 | 918.2 |
| 142.5° | 942.2 | 943.7 | 945.2 | 945.5 | 944.6 | 943.7 | 942.8 | 941.8 |
| 145° | 975.9 | 977.1 | 978.4 | 978.6 | 977.7 | 976.7 | 975.9 | 974.9 |
| 147.5° | 1005.1 | 1006.1 | 1007.0 | 1007.1 | 1006.3 | 1005.6 | 1004.8 | 1004.0 |
| 150° | 1023.2 | 1024.2 | 1025.4 | 1025.5 | 1024.6 | 1023.6 | 1022.7 | 1021.8 |
| 152.5° | 1039.7 | 1040.7 | 1041.8 | 1041.8 | 1040.6 | 1039.4 | 1038.2 | 1037.0 |
| 155° | 1061.9 | 1062.9 | 1064.0 | 1063.9 | 1062.4 | 1060.9 | 1059.5 | 1058.0 |
| 157.5° | 1080.6 | 1081.8 | 1083.1 | 1083.0 | 1081.5 | 1080.1 | 1078.7 | 1077.3 |
| 160° | 1091.5 | 1092.5 | 1093.6 | 1093.6 | 1092.3 | 1091.0 | 1089.8 | 1088.5 |
| 162.5° | 1101.6 | 1102.9 | 1104.1 | 1104.0 | 1102.3 | 1100.8 | 1099.2 | 1097.7 |
| 165° | 1114.0 | 1115.3 | 1116.6 | 1116.6 | 1115.3 | 1114.0 | 1112.8 | 1111.5 |
| 167.5° | 1124.4 | 1125.7 | 1127.0 | 1126.8 | 1125.2 | 1123.5 | 1121.9 | 1120.2 |
| 170° | 1129.7 | 1130.9 | 1132.2 | 1132.0 | 1130.4 | 1128.8 | 1127.1 | 1125.5 |
| 172.5° | 1133.6 | 1134.9 | 1136.2 | 1136.0 | 1134.4 | 1132.7 | 1131.1 | 1129.5 |
| 175° | 1137.9 | 1139.2 | 1140.5 | 1140.2 | 1138.3 | 1136.5 | 1134.7 | 1132.9 |
| 177.5° | 1138.4 | 1139.4 | 1140.4 | 1140.3 | 1138.9 | 1137.6 | 1136.3 | 1135.1 |
| 180° | 1137.0 | 1137.0 | 1137.0 | 1137.0 | 1137.0 | 1137.0 | 1137.0 | 1137.0 |

(END OF REPORT)