

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: P331587-935

Luminaire Tested: **S122DIW-S1005D435U935-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331587-935
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: S122DIW-S1005D435U935-4F0-1E-UDD-D
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 435 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4965.2 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

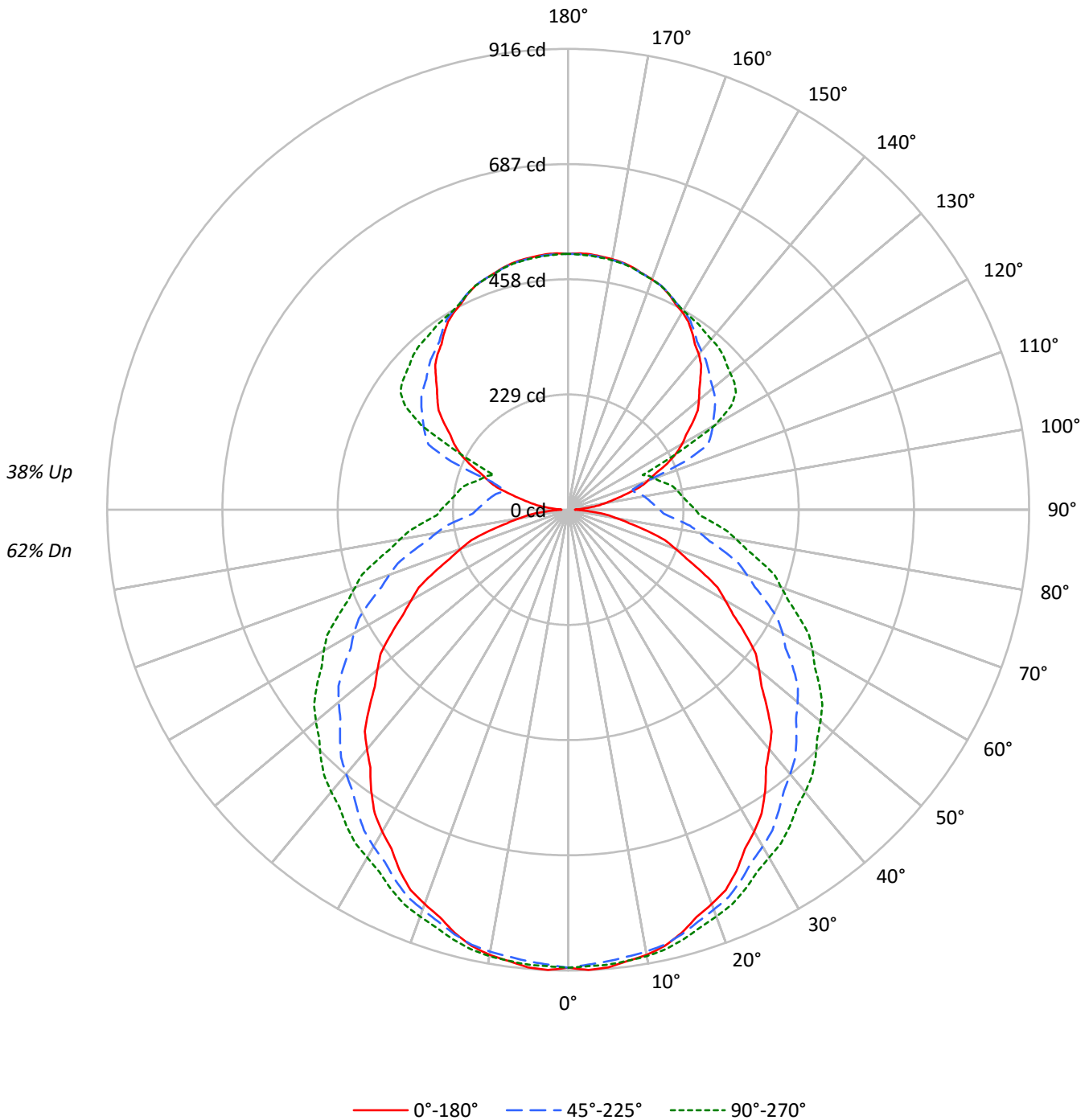
Input Watts (W): 52.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331587-935

CATALOG NUMBER: S122DIW-S1005D435U935-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331587-935

CATALOG NUMBER: S122DIW-S1005D435U935-4F0-1E-UDD-D

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 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 67 | 67 | 67 | 62 |
| 1 | 99 | 93 | 89 | 85 | 92 | 87 | 83 | 80 | 76 | 73 | 70 | 66 | 64 | 61 | 57 | 55 | 53 | 49 |
| 2 | 89 | 81 | 74 | 68 | 83 | 75 | 69 | 64 | 66 | 61 | 57 | 57 | 53 | 50 | 49 | 46 | 43 | 39 |
| 3 | 81 | 70 | 62 | 55 | 75 | 66 | 58 | 53 | 57 | 52 | 47 | 50 | 45 | 41 | 43 | 39 | 36 | 32 |
| 4 | 74 | 62 | 53 | 46 | 68 | 58 | 50 | 44 | 51 | 44 | 39 | 44 | 39 | 35 | 38 | 34 | 31 | 27 |
| 5 | 68 | 55 | 46 | 40 | 63 | 52 | 44 | 38 | 45 | 39 | 34 | 39 | 34 | 30 | 34 | 30 | 26 | 23 |
| 6 | 62 | 49 | 40 | 34 | 58 | 46 | 38 | 32 | 41 | 34 | 29 | 35 | 30 | 26 | 31 | 26 | 23 | 20 |
| 7 | 57 | 44 | 36 | 30 | 53 | 42 | 34 | 28 | 37 | 30 | 26 | 32 | 27 | 23 | 28 | 24 | 20 | 18 |
| 8 | 53 | 40 | 32 | 26 | 50 | 38 | 30 | 25 | 33 | 27 | 23 | 29 | 24 | 20 | 25 | 21 | 18 | 16 |
| 9 | 50 | 37 | 29 | 23 | 46 | 35 | 27 | 22 | 31 | 25 | 20 | 27 | 22 | 18 | 23 | 19 | 16 | 14 |
| 10 | 46 | 34 | 26 | 21 | 43 | 32 | 25 | 20 | 28 | 22 | 18 | 25 | 20 | 16 | 22 | 18 | 15 | 13 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 14699 | 14699 | 14699 |
| 5° | 14772 | 14150 | 14097 |
| 10° | 14679 | 13733 | 13578 |
| 15° | 14477 | 13289 | 13032 |
| 20° | 14222 | 12815 | 12506 |
| 25° | 13968 | 12358 | 12028 |
| 30° | 13612 | 11889 | 11549 |
| 35° | 13253 | 11434 | 11211 |
| 40° | 12874 | 11047 | 10874 |
| 45° | 12515 | 10702 | 10584 |
| 50° | 12128 | 10388 | 10300 |
| 55° | 11724 | 10052 | 10011 |
| 60° | 11226 | 9702 | 9705 |
| 65° | 10711 | 9294 | 9342 |
| 70° | 10136 | 8856 | 8949 |
| 75° | 9394 | 8423 | 8587 |
| 80° | 8224 | 7984 | 8220 |
| 85° | 7107 | 7603 | 7937 |



TEST NUMBER: P331587-935

CATALOG NUMBER: S122DIW-S1005D435U935-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.3 | 1.7 |
| 10°-20° | 247.4 | 5.0 |
| 20°-30° | 374.9 | 7.6 |
| 30°-40° | 456.6 | 9.2 |
| 40°-50° | 491.2 | 9.9 |
| 50°-60° | 477.0 | 9.6 |
| 60°-70° | 416.5 | 8.4 |
| 70°-80° | 320.7 | 6.5 |
| 80°-90° | 216.5 | 4.4 |
| 90°-100° | 165.2 | 3.3 |
| 100°-110° | 170.5 | 3.4 |
| 110°-120° | 237.8 | 4.8 |
| 120°-130° | 314.4 | 6.3 |
| 130°-140° | 308.7 | 6.2 |
| 140°-150° | 274.3 | 5.5 |
| 150°-160° | 218.2 | 4.4 |
| 160°-170° | 140.6 | 2.8 |
| 170°-180° | 48.4 | 1.0 |
| 0°-30° | 708.5 | 14.3 |
| 0°-40° | 1165.2 | 23.5 |
| 0°-60° | 2133.4 | 43.0 |
| 0°-90° | 3087.1 | 62.2 |
| 90°-120° | 573.5 | 11.6 |
| 90°-150° | 1470.9 | 29.6 |
| 90°-180° | 1878.0 | 37.8 |
| 0°-180° | 4965.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 910 | 910 | 910 | 910 | 910 | |
| 5° | 913 | 909 | 901 | 909 | 908 | 87 |
| 15° | 871 | 873 | 874 | 885 | 884 | 245 |
| 25° | 792 | 801 | 813 | 828 | 833 | 364 |
| 35° | 682 | 705 | 730 | 758 | 768 | 426 |
| 45° | 560 | 596 | 641 | 681 | 695 | 432 |
| 55° | 429 | 478 | 545 | 591 | 610 | 383 |
| 65° | 293 | 358 | 435 | 488 | 507 | 291 |
| 75° | 162 | 237 | 321 | 375 | 394 | 172 |
| 85° | 48 | 129 | 214 | 267 | 288 | 51 |
| 90° | 14 | 94 | 182 | 234 | 253 | 10 |
| 95° | 34 | 86 | 166 | 216 | 234 | 38 |
| 105° | 118 | 163 | 136 | 184 | 202 | 127 |
| 115° | 217 | 240 | 306 | 182 | 163 | 213 |
| 125° | 302 | 309 | 356 | 393 | 407 | 270 |
| 135° | 372 | 378 | 394 | 424 | 435 | 287 |
| 145° | 430 | 429 | 435 | 446 | 451 | 269 |
| 155° | 473 | 470 | 474 | 476 | 473 | 218 |
| 165° | 498 | 496 | 497 | 500 | 497 | 141 |
| 175° | 510 | 507 | 508 | 510 | 507 | 48 |
| 180° | 509 | 509 | 509 | 509 | 509 | |



TEST NUMBER: P331587-935

CATALOG NUMBER: S122DIW-S1005D435U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 910.4 | 910.4 | 910.4 | 910.4 | 910.4 | 910.4 | 910.4 | 910.4 | 910.4 | 910.4 | 910.4 |
| 2.5° | 915.8 | 915.1 | 914.3 | 913.6 | 912.9 | 911.7 | 910.1 | 908.4 | 906.8 | 905.2 | 906.4 |
| 5° | 913.1 | 912.2 | 911.4 | 910.4 | 909.6 | 908.3 | 906.5 | 904.7 | 903.0 | 901.2 | 903.0 |
| 7.5° | 904.9 | 904.3 | 903.7 | 903.2 | 902.6 | 901.6 | 900.3 | 898.9 | 897.6 | 896.2 | 898.3 |
| 10° | 898.6 | 898.0 | 897.4 | 896.8 | 896.2 | 895.5 | 894.7 | 893.7 | 892.9 | 892.0 | 894.3 |
| 12.5° | 888.0 | 888.1 | 888.3 | 888.4 | 888.5 | 888.2 | 887.6 | 886.9 | 886.3 | 885.6 | 888.0 |
| 15° | 870.9 | 871.5 | 872.0 | 872.6 | 873.2 | 873.5 | 873.5 | 873.5 | 873.5 | 873.5 | 876.2 |
| 17.5° | 848.7 | 850.0 | 851.2 | 852.4 | 853.6 | 854.7 | 855.7 | 856.6 | 857.6 | 858.5 | 861.3 |
| 20° | 834.0 | 835.4 | 836.9 | 838.4 | 839.8 | 841.1 | 842.3 | 843.4 | 844.6 | 845.8 | 849.0 |
| 22.5° | 818.1 | 819.8 | 821.5 | 823.2 | 824.9 | 826.6 | 828.2 | 829.8 | 831.5 | 833.1 | 836.4 |
| 25° | 791.7 | 793.8 | 795.8 | 797.9 | 800.0 | 802.3 | 804.9 | 807.5 | 810.2 | 812.8 | 816.3 |
| 27.5° | 760.0 | 763.4 | 766.7 | 770.1 | 773.4 | 776.6 | 779.7 | 782.8 | 785.9 | 789.1 | 793.5 |
| 30° | 738.9 | 742.7 | 746.6 | 750.4 | 754.1 | 758.0 | 761.8 | 765.6 | 769.4 | 773.3 | 777.9 |
| 32.5° | 715.7 | 720.0 | 724.3 | 728.6 | 732.8 | 737.2 | 741.8 | 746.2 | 750.8 | 755.3 | 760.7 |
| 35° | 682.2 | 687.2 | 692.2 | 697.2 | 702.1 | 707.4 | 713.0 | 718.5 | 724.1 | 729.7 | 736.2 |
| 37.5° | 645.8 | 651.5 | 657.3 | 663.0 | 668.7 | 675.2 | 682.4 | 689.7 | 696.9 | 704.1 | 711.3 |
| 40° | 621.5 | 627.9 | 634.4 | 640.8 | 647.3 | 654.4 | 662.4 | 670.3 | 678.2 | 686.1 | 693.8 |
| 42.5° | 598.3 | 604.7 | 611.1 | 617.6 | 624.1 | 631.8 | 640.9 | 650.1 | 659.1 | 668.2 | 676.5 |
| 45° | 559.5 | 567.4 | 575.3 | 583.2 | 591.2 | 600.2 | 610.5 | 620.8 | 631.0 | 641.3 | 650.4 |
| 47.5° | 521.2 | 529.9 | 538.5 | 547.1 | 555.7 | 566.0 | 578.1 | 590.0 | 602.1 | 614.1 | 623.6 |
| 50° | 494.8 | 503.9 | 513.0 | 522.1 | 531.2 | 542.3 | 555.5 | 568.7 | 581.9 | 595.1 | 605.1 |
| 52.5° | 469.5 | 479.1 | 488.6 | 498.2 | 507.7 | 519.4 | 533.3 | 547.3 | 561.1 | 575.1 | 585.2 |
| 55° | 428.9 | 439.4 | 450.0 | 460.5 | 471.1 | 484.0 | 499.2 | 514.4 | 529.7 | 544.9 | 555.5 |
| 57.5° | 388.7 | 400.6 | 412.5 | 424.5 | 436.4 | 450.0 | 465.6 | 481.1 | 496.7 | 512.2 | 523.6 |
| 60° | 360.2 | 372.8 | 385.5 | 398.0 | 410.7 | 425.3 | 442.0 | 458.7 | 475.4 | 492.1 | 503.3 |
| 62.5° | 334.9 | 347.9 | 361.0 | 374.1 | 387.2 | 402.1 | 418.8 | 435.5 | 452.3 | 469.0 | 480.8 |
| 65° | 292.9 | 307.3 | 321.7 | 336.0 | 350.4 | 366.3 | 383.6 | 400.8 | 418.1 | 435.4 | 447.5 |
| 67.5° | 254.4 | 269.4 | 284.4 | 299.5 | 314.4 | 330.8 | 348.5 | 366.3 | 383.9 | 401.7 | 413.8 |
| 70° | 227.0 | 242.2 | 257.4 | 272.7 | 287.9 | 304.6 | 322.9 | 341.0 | 359.2 | 377.4 | 389.9 |
| 72.5° | 201.6 | 217.3 | 233.1 | 248.7 | 264.5 | 281.5 | 300.0 | 318.4 | 336.8 | 355.2 | 367.6 |
| 75° | 162.3 | 178.7 | 195.1 | 211.5 | 228.0 | 245.6 | 264.3 | 283.1 | 301.9 | 320.6 | 333.2 |
| 77.5° | 124.3 | 141.5 | 158.7 | 175.8 | 193.0 | 211.1 | 230.2 | 249.3 | 268.3 | 287.4 | 300.0 |
| 80° | 98.9 | 116.8 | 134.7 | 152.7 | 170.5 | 189.0 | 208.0 | 227.1 | 246.2 | 265.2 | 277.5 |
| 82.5° | 77.8 | 95.5 | 113.1 | 130.8 | 148.4 | 166.9 | 186.2 | 205.5 | 224.8 | 244.1 | 256.4 |
| 85° | 47.5 | 65.7 | 83.9 | 102.0 | 120.2 | 138.7 | 157.5 | 176.2 | 195.0 | 213.8 | 226.1 |
| 87.5° | 25.9 | 43.6 | 61.2 | 78.9 | 96.5 | 114.9 | 133.7 | 152.7 | 171.5 | 190.5 | 202.5 |
| 90° | 13.6 | 31.5 | 49.3 | 67.2 | 85.2 | 103.8 | 123.3 | 142.7 | 162.1 | 181.5 | 193.6 |
| 92.5° | 19.5 | 35.3 | 51.1 | 66.8 | 82.6 | 99.6 | 118.0 | 136.5 | 154.8 | 173.2 | 184.9 |
| 95° | 34.4 | 45.5 | 56.7 | 67.8 | 78.8 | 93.4 | 111.6 | 129.8 | 147.9 | 166.1 | 177.6 |
| 97.5° | 56.7 | 61.4 | 66.0 | 70.7 | 75.3 | 86.8 | 105.0 | 123.2 | 141.4 | 159.6 | 170.8 |
| 100° | 74.4 | 74.0 | 73.7 | 73.3 | 72.9 | 81.7 | 99.5 | 117.3 | 135.1 | 152.9 | 164.5 |
| 102.5° | 92.7 | 100.3 | 107.8 | 115.4 | 122.9 | 128.8 | 133.2 | 137.5 | 141.8 | 146.1 | 157.6 |
| 105° | 118.5 | 129.4 | 140.3 | 151.4 | 162.3 | 164.3 | 157.1 | 150.1 | 143.0 | 136.0 | 147.1 |
| 107.5° | 149.4 | 158.1 | 166.9 | 175.6 | 184.4 | 182.8 | 170.6 | 158.4 | 146.3 | 134.1 | 143.0 |
| 110° | 168.3 | 175.9 | 183.5 | 191.1 | 198.6 | 197.8 | 188.6 | 179.3 | 170.0 | 160.7 | 162.0 |



TEST NUMBER: P331587-935

CATALOG NUMBER: S122DIW-S1005D435U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 187.2 | 193.6 | 200.0 | 206.5 | 212.9 | 220.1 | 227.9 | 235.7 | 243.6 | 251.4 | 230.9 |
| 115° | 216.9 | 221.5 | 226.1 | 230.7 | 235.3 | 245.3 | 260.5 | 275.8 | 291.0 | 306.3 | 277.2 |
| 117.5° | 242.1 | 245.8 | 249.4 | 253.1 | 256.8 | 265.4 | 279.1 | 292.7 | 306.3 | 319.9 | 319.3 |
| 120° | 261.6 | 264.0 | 266.4 | 268.7 | 271.1 | 279.0 | 292.1 | 305.4 | 318.6 | 331.7 | 341.0 |
| 122.5° | 278.0 | 279.8 | 281.5 | 283.4 | 285.1 | 292.3 | 304.9 | 317.5 | 330.2 | 342.8 | 351.4 |
| 125° | 301.9 | 302.9 | 303.9 | 305.1 | 306.1 | 312.1 | 323.0 | 334.0 | 344.9 | 355.9 | 364.3 |
| 127.5° | 324.6 | 325.5 | 326.3 | 327.3 | 328.1 | 332.9 | 341.6 | 350.3 | 359.1 | 367.8 | 375.9 |
| 130° | 339.0 | 340.0 | 341.0 | 342.1 | 343.0 | 347.1 | 354.1 | 361.2 | 368.2 | 375.3 | 383.2 |
| 132.5° | 353.7 | 354.6 | 355.3 | 356.2 | 357.0 | 360.2 | 365.8 | 371.5 | 377.2 | 382.8 | 390.4 |
| 135° | 371.5 | 372.8 | 374.2 | 375.5 | 376.8 | 379.3 | 382.9 | 386.6 | 390.3 | 393.9 | 400.9 |
| 137.5° | 390.9 | 391.8 | 392.6 | 393.5 | 394.3 | 395.8 | 398.0 | 400.0 | 402.2 | 404.3 | 410.5 |
| 140° | 403.6 | 403.9 | 404.2 | 404.7 | 405.0 | 405.9 | 407.4 | 408.9 | 410.4 | 411.9 | 417.3 |
| 142.5° | 414.1 | 414.5 | 414.7 | 415.0 | 415.3 | 416.0 | 417.2 | 418.4 | 419.5 | 420.7 | 425.1 |
| 145° | 429.5 | 429.4 | 429.3 | 429.2 | 429.1 | 429.8 | 431.2 | 432.6 | 433.9 | 435.3 | 437.6 |
| 147.5° | 443.9 | 443.7 | 443.3 | 443.1 | 442.7 | 443.2 | 444.6 | 446.0 | 447.4 | 448.8 | 449.4 |
| 150° | 453.4 | 452.8 | 452.2 | 451.7 | 451.1 | 451.4 | 452.8 | 454.1 | 455.4 | 456.7 | 457.2 |
| 152.5° | 461.3 | 460.7 | 460.0 | 459.4 | 458.7 | 459.1 | 460.3 | 461.6 | 462.8 | 464.1 | 464.5 |
| 155° | 472.9 | 472.2 | 471.4 | 470.7 | 469.9 | 470.1 | 471.1 | 472.0 | 473.0 | 474.0 | 474.5 |
| 157.5° | 481.9 | 481.3 | 480.7 | 480.1 | 479.5 | 479.5 | 480.2 | 480.9 | 481.6 | 482.2 | 482.8 |
| 160° | 487.2 | 486.7 | 486.3 | 485.8 | 485.3 | 485.3 | 485.8 | 486.3 | 486.7 | 487.2 | 487.8 |
| 162.5° | 492.0 | 491.5 | 490.9 | 490.5 | 490.0 | 490.0 | 490.3 | 490.8 | 491.2 | 491.6 | 492.2 |
| 165° | 498.3 | 497.8 | 497.3 | 496.8 | 496.3 | 496.2 | 496.5 | 496.7 | 497.0 | 497.1 | 497.7 |
| 167.5° | 503.0 | 502.5 | 502.0 | 501.5 | 501.0 | 500.9 | 501.1 | 501.4 | 501.6 | 501.8 | 502.4 |
| 170° | 505.7 | 505.1 | 504.6 | 504.2 | 503.7 | 503.5 | 503.7 | 503.9 | 504.0 | 504.2 | 504.7 |
| 172.5° | 507.4 | 507.0 | 506.4 | 505.9 | 505.4 | 505.3 | 505.4 | 505.6 | 505.8 | 505.9 | 506.5 |
| 175° | 509.7 | 509.1 | 508.5 | 508.0 | 507.4 | 507.2 | 507.4 | 507.6 | 507.6 | 507.8 | 508.4 |
| 177.5° | 510.1 | 509.6 | 509.1 | 508.7 | 508.2 | 508.0 | 508.1 | 508.2 | 508.2 | 508.2 | 508.8 |
| 180° | 508.6 | 508.6 | 508.6 | 508.6 | 508.6 | 508.6 | 508.6 | 508.6 | 508.6 | 508.6 | 508.6 |



TEST NUMBER: P331587-935

CATALOG NUMBER: S122DIW-S1005D435U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 910.4 | 910.4 | 910.4 | 910.4 | 910.4 | 910.4 | 910.4 | 910.4 |
| 2.5° | 907.5 | 908.7 | 909.9 | 910.2 | 909.7 | 909.3 | 908.8 | 908.4 |
| 5° | 904.7 | 906.5 | 908.3 | 909.0 | 908.7 | 908.4 | 908.1 | 907.8 |
| 7.5° | 900.4 | 902.6 | 904.7 | 905.6 | 905.3 | 905.0 | 904.7 | 904.4 |
| 10° | 896.6 | 899.1 | 901.4 | 902.4 | 902.1 | 901.8 | 901.6 | 901.2 |
| 12.5° | 890.4 | 892.7 | 895.0 | 896.0 | 895.8 | 895.4 | 895.2 | 894.9 |
| 15° | 878.8 | 881.4 | 884.1 | 885.3 | 884.9 | 884.7 | 884.3 | 884.1 |
| 17.5° | 864.0 | 866.8 | 869.5 | 870.9 | 870.9 | 870.9 | 870.9 | 870.9 |
| 20° | 852.2 | 855.5 | 858.7 | 860.3 | 860.3 | 860.3 | 860.3 | 860.3 |
| 22.5° | 839.6 | 842.8 | 846.0 | 847.9 | 848.3 | 848.9 | 849.3 | 849.8 |
| 25° | 819.8 | 823.4 | 826.9 | 829.1 | 830.0 | 830.9 | 831.7 | 832.6 |
| 27.5° | 798.0 | 802.5 | 806.9 | 809.4 | 810.1 | 810.7 | 811.4 | 812.0 |
| 30° | 782.6 | 787.3 | 792.0 | 794.8 | 795.7 | 796.5 | 797.5 | 798.3 |
| 32.5° | 766.1 | 771.5 | 776.9 | 780.3 | 782.0 | 783.5 | 785.1 | 786.7 |
| 35° | 742.6 | 749.1 | 755.5 | 759.7 | 761.8 | 763.9 | 765.9 | 767.9 |
| 37.5° | 718.4 | 725.6 | 732.7 | 737.4 | 739.5 | 741.8 | 743.9 | 746.1 |
| 40° | 701.4 | 709.0 | 716.6 | 721.8 | 724.4 | 727.0 | 729.7 | 732.4 |
| 42.5° | 684.8 | 693.2 | 701.5 | 707.0 | 709.6 | 712.3 | 714.9 | 717.6 |
| 45° | 659.4 | 668.6 | 677.6 | 683.6 | 686.6 | 689.5 | 692.4 | 695.3 |
| 47.5° | 633.1 | 642.6 | 652.1 | 658.5 | 661.7 | 665.0 | 668.1 | 671.4 |
| 50° | 615.0 | 625.0 | 635.0 | 641.6 | 644.8 | 648.0 | 651.3 | 654.4 |
| 52.5° | 595.5 | 605.6 | 615.9 | 622.7 | 626.1 | 629.6 | 633.1 | 636.5 |
| 55° | 566.1 | 576.6 | 587.2 | 594.3 | 598.1 | 602.0 | 605.8 | 609.6 |
| 57.5° | 535.0 | 546.4 | 557.8 | 565.3 | 569.2 | 573.1 | 577.0 | 580.8 |
| 60° | 514.4 | 525.6 | 536.7 | 544.4 | 548.5 | 552.6 | 556.7 | 560.8 |
| 62.5° | 492.7 | 504.5 | 516.3 | 524.2 | 528.1 | 531.9 | 535.8 | 539.7 |
| 65° | 459.5 | 471.5 | 483.5 | 491.5 | 495.2 | 499.0 | 502.9 | 506.7 |
| 67.5° | 425.9 | 438.1 | 450.2 | 458.3 | 462.3 | 466.2 | 470.3 | 474.2 |
| 70° | 402.6 | 415.2 | 427.8 | 435.8 | 439.4 | 442.9 | 446.4 | 450.0 |
| 72.5° | 380.0 | 392.4 | 404.7 | 413.0 | 417.2 | 421.5 | 425.7 | 429.9 |
| 75° | 345.9 | 358.4 | 371.1 | 379.3 | 383.1 | 386.9 | 390.7 | 394.5 |
| 77.5° | 312.5 | 325.0 | 337.6 | 345.9 | 350.0 | 354.1 | 358.3 | 362.3 |
| 80° | 289.8 | 302.2 | 314.5 | 322.7 | 326.8 | 330.9 | 335.0 | 339.1 |
| 82.5° | 268.7 | 281.0 | 293.3 | 301.4 | 305.3 | 309.2 | 313.1 | 316.9 |
| 85° | 238.4 | 250.7 | 263.0 | 271.2 | 275.3 | 279.5 | 283.5 | 287.7 |
| 87.5° | 214.5 | 226.5 | 238.6 | 246.5 | 250.3 | 254.1 | 257.9 | 261.7 |
| 90° | 205.8 | 217.9 | 230.1 | 238.0 | 241.7 | 245.4 | 249.0 | 252.7 |
| 92.5° | 196.7 | 208.4 | 220.1 | 227.7 | 231.4 | 235.0 | 238.6 | 242.2 |
| 95° | 189.2 | 200.8 | 212.3 | 219.8 | 223.3 | 226.7 | 230.1 | 233.5 |
| 97.5° | 181.9 | 193.1 | 204.3 | 211.7 | 215.2 | 218.8 | 222.4 | 225.9 |
| 100° | 175.9 | 187.4 | 199.0 | 206.4 | 209.7 | 213.2 | 216.5 | 220.0 |
| 102.5° | 169.1 | 180.6 | 192.0 | 199.4 | 202.9 | 206.4 | 209.8 | 213.3 |
| 105° | 158.3 | 169.4 | 180.6 | 188.0 | 191.5 | 195.0 | 198.6 | 202.2 |
| 107.5° | 152.0 | 160.9 | 169.8 | 176.1 | 179.6 | 183.2 | 186.8 | 190.3 |
| 110° | 163.2 | 164.4 | 165.6 | 167.9 | 171.5 | 175.0 | 178.6 | 182.1 |



TEST NUMBER: P331587-935

CATALOG NUMBER: S122DIW-S1005D435U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 210.5 | 190.0 | 169.5 | 161.1 | 164.5 | 168.1 | 171.5 | 175.0 |
| 115° | 248.1 | 219.0 | 189.9 | 174.1 | 171.4 | 168.8 | 166.1 | 163.4 |
| 117.5° | 318.9 | 318.4 | 318.0 | 309.5 | 293.2 | 276.8 | 260.5 | 244.1 |
| 120° | 350.2 | 359.4 | 368.5 | 369.2 | 361.4 | 353.6 | 345.8 | 337.9 |
| 122.5° | 359.9 | 368.5 | 377.0 | 381.7 | 382.3 | 382.9 | 383.5 | 384.1 |
| 125° | 372.8 | 381.3 | 389.8 | 395.5 | 398.4 | 401.2 | 404.2 | 407.0 |
| 127.5° | 384.0 | 392.1 | 400.3 | 405.6 | 408.2 | 410.9 | 413.5 | 416.1 |
| 130° | 391.2 | 399.2 | 407.1 | 412.2 | 414.4 | 416.7 | 419.0 | 421.2 |
| 132.5° | 398.0 | 405.5 | 413.1 | 418.0 | 420.3 | 422.6 | 424.8 | 427.1 |
| 135° | 407.9 | 414.8 | 421.8 | 426.4 | 428.6 | 430.8 | 433.0 | 435.1 |
| 137.5° | 416.7 | 422.9 | 429.1 | 433.1 | 434.8 | 436.4 | 438.2 | 439.9 |
| 140° | 422.8 | 428.2 | 433.6 | 437.0 | 438.3 | 439.6 | 441.0 | 442.4 |
| 142.5° | 429.5 | 433.9 | 438.3 | 441.1 | 442.2 | 443.3 | 444.4 | 445.6 |
| 145° | 440.0 | 442.4 | 444.7 | 446.3 | 447.5 | 448.5 | 449.5 | 450.6 |
| 147.5° | 450.0 | 450.7 | 451.4 | 451.9 | 452.3 | 452.6 | 453.0 | 453.3 |
| 150° | 457.7 | 458.1 | 458.7 | 458.7 | 458.3 | 457.9 | 457.4 | 457.1 |
| 152.5° | 465.0 | 465.5 | 466.1 | 466.0 | 465.5 | 464.9 | 464.3 | 463.8 |
| 155° | 475.0 | 475.4 | 476.0 | 475.9 | 475.2 | 474.6 | 473.9 | 473.3 |
| 157.5° | 483.4 | 483.9 | 484.5 | 484.4 | 483.8 | 483.1 | 482.5 | 481.9 |
| 160° | 488.2 | 488.7 | 489.2 | 489.1 | 488.6 | 488.0 | 487.4 | 486.9 |
| 162.5° | 492.8 | 493.4 | 493.9 | 493.8 | 493.1 | 492.4 | 491.7 | 491.0 |
| 165° | 498.3 | 498.9 | 499.5 | 499.5 | 498.9 | 498.3 | 497.7 | 497.1 |
| 167.5° | 503.0 | 503.5 | 504.1 | 504.0 | 503.3 | 502.6 | 501.8 | 501.1 |
| 170° | 505.3 | 505.9 | 506.4 | 506.4 | 505.7 | 504.9 | 504.2 | 503.4 |
| 172.5° | 507.0 | 507.6 | 508.2 | 508.2 | 507.4 | 506.7 | 505.9 | 505.2 |
| 175° | 509.0 | 509.5 | 510.1 | 510.1 | 509.2 | 508.4 | 507.6 | 506.8 |
| 177.5° | 509.2 | 509.6 | 510.1 | 510.1 | 509.5 | 508.9 | 508.2 | 507.7 |
| 180° | 508.6 | 508.6 | 508.6 | 508.6 | 508.6 | 508.6 | 508.6 | 508.6 |

(END OF REPORT)