

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: P331588-830

Luminaire Tested: **S122DIW-S1005D435U830-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331588-830
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: S122DIW-S1005D435U830-4F0-1E-UDD-D1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5219.4 lumens
Efficiency: N/A
Efficacy: 99.6 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

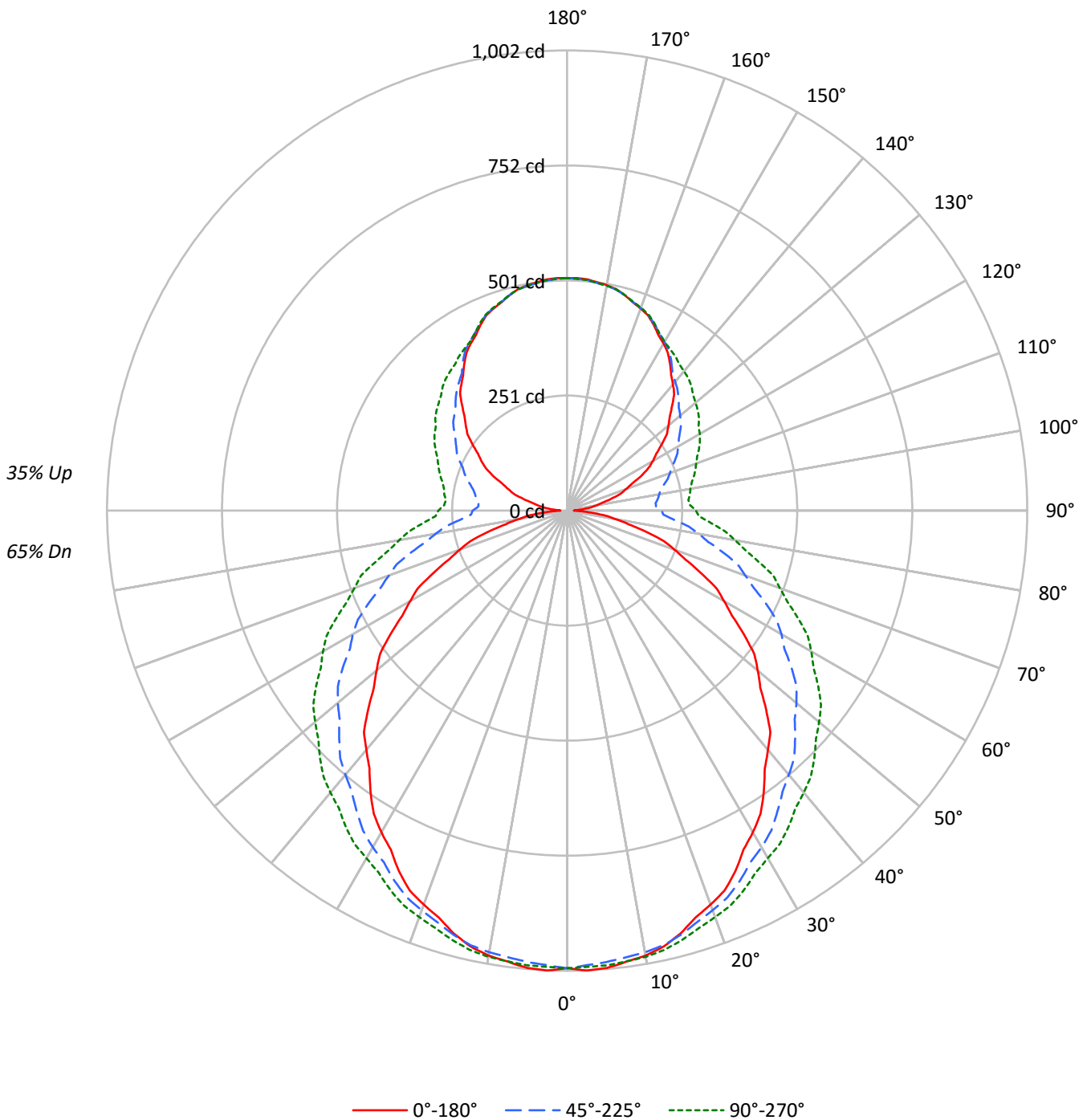
Input Watts (W): 52.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331588-830

CATALOG NUMBER: S122DIW-S1005D435U830-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P331588-830

CATALOG NUMBER: S122DIW-S1005D435U830-4F0-1E-UDD-D1

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 | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 80 | 80 | 80 | 70 | 70 | 70 | 65 |
| 1 | 99 | 94 | 89 | 85 | 93 | 88 | 84 | 80 | 77 | 74 | 71 | 68 | 65 | 63 | 59 | 57 | 55 | 51 |
| 2 | 90 | 81 | 74 | 68 | 84 | 76 | 70 | 64 | 67 | 62 | 58 | 58 | 54 | 51 | 50 | 47 | 45 | 41 |
| 3 | 81 | 71 | 62 | 56 | 76 | 66 | 59 | 53 | 58 | 52 | 48 | 51 | 46 | 42 | 44 | 40 | 37 | 34 |
| 4 | 74 | 62 | 53 | 47 | 69 | 58 | 50 | 44 | 51 | 45 | 40 | 45 | 40 | 36 | 39 | 35 | 32 | 28 |
| 5 | 68 | 55 | 46 | 40 | 63 | 52 | 44 | 38 | 46 | 39 | 34 | 40 | 35 | 31 | 35 | 31 | 27 | 24 |
| 6 | 62 | 49 | 41 | 34 | 58 | 47 | 39 | 33 | 41 | 35 | 30 | 36 | 31 | 27 | 32 | 27 | 24 | 21 |
| 7 | 58 | 44 | 36 | 30 | 54 | 42 | 34 | 29 | 37 | 31 | 26 | 33 | 28 | 23 | 29 | 24 | 21 | 18 |
| 8 | 54 | 40 | 32 | 26 | 50 | 38 | 31 | 25 | 34 | 28 | 23 | 30 | 25 | 21 | 26 | 22 | 19 | 16 |
| 9 | 50 | 37 | 29 | 23 | 47 | 35 | 28 | 23 | 31 | 25 | 21 | 28 | 22 | 19 | 24 | 20 | 17 | 15 |
| 10 | 47 | 34 | 26 | 21 | 44 | 32 | 25 | 20 | 29 | 23 | 19 | 26 | 20 | 17 | 23 | 18 | 15 | 13 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 16091 | 16091 | 16091 |
| 5° | 16172 | 15491 | 15432 |
| 10° | 16069 | 15033 | 14865 |
| 15° | 15848 | 14548 | 14266 |
| 20° | 15567 | 14030 | 13691 |
| 25° | 15292 | 13528 | 13167 |
| 30° | 14902 | 13015 | 12643 |
| 35° | 14508 | 12517 | 12274 |
| 40° | 14092 | 12094 | 11903 |
| 45° | 13700 | 11715 | 11587 |
| 50° | 13277 | 11373 | 11276 |
| 55° | 12834 | 11004 | 10959 |
| 60° | 12292 | 10623 | 10624 |
| 65° | 11728 | 10173 | 10227 |
| 70° | 11096 | 9693 | 9797 |
| 75° | 10286 | 9222 | 9401 |
| 80° | 9006 | 8739 | 9001 |
| 85° | 7780 | 8321 | 8687 |



TEST NUMBER: P331588-830

CATALOG NUMBER: S122DIW-S1005D435U830-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.4 | 1.8 |
| 10°-20° | 270.8 | 5.2 |
| 20°-30° | 410.4 | 7.9 |
| 30°-40° | 499.9 | 9.6 |
| 40°-50° | 537.8 | 10.3 |
| 50°-60° | 522.2 | 10.0 |
| 60°-70° | 456.0 | 8.7 |
| 70°-80° | 351.0 | 6.7 |
| 80°-90° | 237.6 | 4.6 |
| 90°-100° | 194.4 | 3.7 |
| 100°-110° | 218.1 | 4.2 |
| 110°-120° | 248.5 | 4.8 |
| 120°-130° | 267.5 | 5.1 |
| 130°-140° | 269.6 | 5.2 |
| 140°-150° | 249.6 | 4.8 |
| 150°-160° | 206.6 | 4.0 |
| 160°-170° | 137.1 | 2.6 |
| 170°-180° | 47.9 | 0.9 |
| 0°-30° | 775.7 | 14.9 |
| 0°-40° | 1275.5 | 24.4 |
| 0°-60° | 2335.5 | 44.7 |
| 0°-90° | 3380.1 | 64.8 |
| 90°-120° | 661.0 | 12.7 |
| 90°-150° | 1447.7 | 27.7 |
| 90°-180° | 1839.0 | 35.2 |
| 0°-180° | 5219.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|-----|-------|-----|------|
| 0° | 997 | 997 | 997 | 997 | 997 | |
| 5° | 1000 | 995 | 987 | 995 | 994 | 95 |
| 15° | 953 | 956 | 956 | 968 | 968 | 268 |
| 25° | 867 | 877 | 890 | 906 | 911 | 398 |
| 35° | 747 | 772 | 799 | 829 | 841 | 467 |
| 45° | 612 | 652 | 702 | 745 | 761 | 473 |
| 55° | 470 | 523 | 596 | 647 | 667 | 420 |
| 65° | 321 | 392 | 477 | 534 | 555 | 318 |
| 75° | 178 | 259 | 351 | 411 | 432 | 188 |
| 85° | 52 | 142 | 234 | 292 | 315 | 56 |
| 90° | 15 | 104 | 206 | 260 | 280 | 11 |
| 95° | 34 | 107 | 193 | 246 | 265 | 35 |
| 105° | 99 | 144 | 218 | 268 | 286 | 105 |
| 115° | 177 | 198 | 259 | 301 | 317 | 174 |
| 125° | 251 | 258 | 300 | 337 | 350 | 225 |
| 135° | 323 | 328 | 343 | 372 | 383 | 250 |
| 145° | 390 | 393 | 396 | 405 | 410 | 244 |
| 155° | 446 | 448 | 449 | 451 | 450 | 205 |
| 165° | 486 | 485 | 485 | 488 | 486 | 137 |
| 175° | 505 | 504 | 503 | 506 | 504 | 48 |
| 180° | 506 | 506 | 506 | 506 | 506 | |



TEST NUMBER: P331588-830

CATALOG NUMBER: S122DIW-S1005D435U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 996.6 | 996.6 | 996.6 | 996.6 | 996.6 | 996.6 | 996.6 | 996.6 | 996.6 | 996.6 | 996.6 |
| 2.5° | 1002.5 | 1001.7 | 1000.9 | 1000.1 | 999.4 | 998.1 | 996.3 | 994.5 | 992.7 | 990.9 | 992.2 |
| 5° | 999.6 | 998.6 | 997.7 | 996.6 | 995.7 | 994.3 | 992.4 | 990.4 | 988.5 | 986.6 | 988.5 |
| 7.5° | 990.6 | 990.0 | 989.3 | 988.7 | 988.1 | 987.0 | 985.5 | 984.0 | 982.6 | 981.1 | 983.4 |
| 10° | 983.7 | 983.1 | 982.4 | 981.8 | 981.1 | 980.3 | 979.4 | 978.4 | 977.4 | 976.5 | 979.0 |
| 12.5° | 972.1 | 972.2 | 972.4 | 972.5 | 972.6 | 972.3 | 971.7 | 970.9 | 970.3 | 969.5 | 972.1 |
| 15° | 953.4 | 954.0 | 954.6 | 955.3 | 955.9 | 956.2 | 956.2 | 956.2 | 956.2 | 956.2 | 959.1 |
| 17.5° | 929.1 | 930.5 | 931.8 | 933.1 | 934.4 | 935.7 | 936.7 | 937.7 | 938.8 | 939.8 | 942.8 |
| 20° | 912.9 | 914.5 | 916.2 | 917.8 | 919.4 | 920.8 | 922.1 | 923.3 | 924.6 | 926.0 | 929.4 |
| 22.5° | 895.6 | 897.4 | 899.3 | 901.2 | 903.1 | 904.8 | 906.6 | 908.4 | 910.2 | 912.0 | 915.6 |
| 25° | 866.7 | 868.9 | 871.2 | 873.5 | 875.7 | 878.3 | 881.1 | 884.0 | 886.9 | 889.8 | 893.6 |
| 27.5° | 832.0 | 835.7 | 839.3 | 843.0 | 846.7 | 850.2 | 853.6 | 857.0 | 860.4 | 863.8 | 868.6 |
| 30° | 808.9 | 813.0 | 817.3 | 821.4 | 825.6 | 829.8 | 834.0 | 838.1 | 842.3 | 846.5 | 851.6 |
| 32.5° | 783.4 | 788.2 | 792.9 | 797.6 | 802.2 | 807.0 | 812.0 | 816.9 | 821.9 | 826.8 | 832.7 |
| 35° | 746.8 | 752.2 | 757.7 | 763.2 | 768.6 | 774.4 | 780.5 | 786.6 | 792.7 | 798.8 | 805.9 |
| 37.5° | 706.9 | 713.2 | 719.5 | 725.8 | 732.1 | 739.1 | 747.1 | 755.0 | 762.9 | 770.8 | 778.6 |
| 40° | 680.3 | 687.4 | 694.5 | 701.5 | 708.6 | 716.4 | 725.1 | 733.8 | 742.4 | 751.1 | 759.5 |
| 42.5° | 655.0 | 661.9 | 669.0 | 676.1 | 683.2 | 691.6 | 701.6 | 711.6 | 721.5 | 731.5 | 740.6 |
| 45° | 612.5 | 621.1 | 629.8 | 638.5 | 647.1 | 657.0 | 668.4 | 679.6 | 690.8 | 702.0 | 712.0 |
| 47.5° | 570.6 | 580.0 | 589.5 | 598.9 | 608.3 | 619.6 | 632.8 | 645.9 | 659.1 | 672.2 | 682.7 |
| 50° | 541.7 | 551.7 | 561.6 | 571.6 | 581.5 | 593.7 | 608.1 | 622.5 | 637.0 | 651.5 | 662.4 |
| 52.5° | 514.0 | 524.4 | 534.9 | 545.4 | 555.8 | 568.6 | 583.8 | 599.1 | 614.3 | 629.5 | 640.6 |
| 55° | 469.5 | 481.0 | 492.6 | 504.2 | 515.7 | 529.8 | 546.5 | 563.2 | 579.9 | 596.5 | 608.1 |
| 57.5° | 425.6 | 438.6 | 451.6 | 464.7 | 477.7 | 492.7 | 509.7 | 526.7 | 543.8 | 560.7 | 573.2 |
| 60° | 394.4 | 408.1 | 422.0 | 435.7 | 449.6 | 465.6 | 483.9 | 502.2 | 520.5 | 538.8 | 551.0 |
| 62.5° | 366.6 | 380.9 | 395.2 | 409.5 | 423.9 | 440.2 | 458.5 | 476.7 | 495.1 | 513.4 | 526.3 |
| 65° | 320.7 | 336.4 | 352.1 | 367.9 | 383.6 | 401.0 | 419.9 | 438.8 | 457.7 | 476.6 | 489.8 |
| 67.5° | 278.5 | 294.9 | 311.3 | 327.8 | 344.2 | 362.1 | 381.5 | 401.0 | 420.3 | 439.7 | 453.0 |
| 70° | 248.5 | 265.1 | 281.8 | 298.5 | 315.2 | 333.5 | 353.5 | 373.3 | 393.2 | 413.1 | 426.9 |
| 72.5° | 220.7 | 237.9 | 255.1 | 272.3 | 289.5 | 308.2 | 328.4 | 348.6 | 368.7 | 388.9 | 402.4 |
| 75° | 177.7 | 195.7 | 213.6 | 231.6 | 249.6 | 268.8 | 289.4 | 309.9 | 330.5 | 351.0 | 364.8 |
| 77.5° | 136.1 | 154.9 | 173.7 | 192.5 | 211.3 | 231.1 | 252.0 | 272.9 | 293.7 | 314.6 | 328.4 |
| 80° | 108.3 | 127.9 | 147.5 | 167.1 | 186.6 | 206.9 | 227.7 | 248.6 | 269.5 | 290.3 | 303.8 |
| 82.5° | 85.2 | 104.5 | 123.9 | 143.2 | 162.5 | 182.8 | 203.9 | 225.0 | 246.1 | 267.2 | 280.7 |
| 85° | 52.0 | 71.9 | 91.8 | 111.7 | 131.6 | 151.8 | 172.4 | 192.9 | 213.5 | 234.0 | 247.5 |
| 87.5° | 28.4 | 47.8 | 67.1 | 86.4 | 105.8 | 126.0 | 146.9 | 168.0 | 188.9 | 209.8 | 222.9 |
| 90° | 14.9 | 34.6 | 54.4 | 74.2 | 93.9 | 115.1 | 137.7 | 160.3 | 182.9 | 205.7 | 218.3 |
| 92.5° | 20.9 | 39.0 | 57.2 | 75.4 | 93.6 | 112.8 | 133.1 | 153.4 | 173.6 | 193.9 | 206.5 |
| 95° | 33.7 | 49.8 | 65.8 | 81.9 | 97.9 | 115.6 | 135.1 | 154.6 | 174.0 | 193.4 | 205.7 |
| 97.5° | 50.7 | 64.9 | 79.2 | 93.4 | 107.7 | 124.2 | 143.1 | 161.9 | 180.8 | 199.6 | 211.5 |
| 100° | 64.4 | 77.0 | 89.6 | 102.3 | 114.9 | 130.4 | 148.6 | 166.8 | 185.1 | 203.4 | 215.3 |
| 102.5° | 77.6 | 89.0 | 100.5 | 111.9 | 123.4 | 138.0 | 155.8 | 173.6 | 191.4 | 209.3 | 221.0 |
| 105° | 99.1 | 108.6 | 118.2 | 127.8 | 137.4 | 150.6 | 167.5 | 184.4 | 201.3 | 218.2 | 229.6 |
| 107.5° | 122.2 | 130.0 | 137.9 | 145.7 | 153.6 | 165.5 | 181.5 | 197.5 | 213.5 | 229.5 | 240.3 |
| 110° | 136.0 | 143.0 | 150.0 | 157.0 | 164.0 | 175.3 | 191.1 | 206.8 | 222.5 | 238.3 | 248.5 |



TEST NUMBER: P331588-830

CATALOG NUMBER: S122DIW-S1005D435U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 152.4 | 158.3 | 164.4 | 170.3 | 176.3 | 186.7 | 201.6 | 216.4 | 231.3 | 246.2 | 256.3 |
| 115° | 176.6 | 180.7 | 184.8 | 188.9 | 193.0 | 202.2 | 216.4 | 230.6 | 245.0 | 259.2 | 268.7 |
| 117.5° | 199.3 | 202.3 | 205.4 | 208.4 | 211.5 | 219.4 | 232.2 | 245.1 | 257.9 | 270.7 | 280.0 |
| 120° | 215.3 | 217.4 | 219.3 | 221.4 | 223.5 | 230.5 | 242.6 | 254.7 | 266.7 | 278.8 | 287.9 |
| 122.5° | 230.0 | 231.4 | 232.8 | 234.2 | 235.6 | 242.1 | 253.7 | 265.2 | 276.7 | 288.3 | 296.8 |
| 125° | 251.4 | 252.3 | 253.2 | 254.0 | 254.9 | 260.2 | 270.2 | 280.2 | 290.2 | 300.2 | 308.6 |
| 127.5° | 273.7 | 274.5 | 275.2 | 276.0 | 276.7 | 281.1 | 289.1 | 297.0 | 304.9 | 312.8 | 320.5 |
| 130° | 287.8 | 288.6 | 289.5 | 290.5 | 291.3 | 295.1 | 301.6 | 308.2 | 314.7 | 321.3 | 328.9 |
| 132.5° | 303.4 | 304.2 | 304.8 | 305.5 | 306.1 | 309.2 | 314.3 | 319.6 | 324.8 | 330.1 | 337.1 |
| 135° | 323.0 | 324.0 | 325.1 | 326.1 | 327.2 | 329.4 | 332.8 | 336.2 | 339.6 | 343.0 | 349.7 |
| 137.5° | 345.2 | 345.9 | 346.7 | 347.5 | 348.3 | 349.5 | 351.2 | 352.8 | 354.5 | 356.1 | 361.9 |
| 140° | 358.4 | 359.0 | 359.5 | 360.1 | 360.6 | 361.4 | 362.5 | 363.6 | 364.8 | 365.9 | 371.0 |
| 142.5° | 372.1 | 372.7 | 373.2 | 373.7 | 374.2 | 374.8 | 375.1 | 375.6 | 376.1 | 376.5 | 380.7 |
| 145° | 390.3 | 391.0 | 391.6 | 392.3 | 392.9 | 393.6 | 394.2 | 394.7 | 395.3 | 395.9 | 397.8 |
| 147.5° | 407.8 | 408.6 | 409.4 | 410.2 | 411.0 | 411.6 | 412.0 | 412.4 | 412.7 | 413.1 | 413.6 |
| 150° | 419.8 | 420.4 | 420.9 | 421.5 | 422.1 | 422.5 | 422.9 | 423.3 | 423.7 | 424.0 | 424.3 |
| 152.5° | 430.4 | 430.9 | 431.5 | 432.1 | 432.6 | 433.2 | 433.6 | 434.0 | 434.5 | 435.0 | 435.4 |
| 155° | 446.2 | 446.5 | 446.8 | 447.1 | 447.4 | 447.7 | 448.0 | 448.3 | 448.6 | 448.8 | 449.3 |
| 157.5° | 459.9 | 460.1 | 460.2 | 460.4 | 460.6 | 460.7 | 460.9 | 461.1 | 461.3 | 461.5 | 462.1 |
| 160° | 468.1 | 468.3 | 468.4 | 468.6 | 468.8 | 468.9 | 469.0 | 469.1 | 469.2 | 469.3 | 469.9 |
| 162.5° | 475.5 | 475.6 | 475.6 | 475.6 | 475.7 | 475.8 | 475.9 | 476.0 | 476.1 | 476.2 | 476.7 |
| 165° | 485.5 | 485.4 | 485.3 | 485.2 | 485.1 | 485.1 | 485.1 | 485.1 | 485.1 | 485.1 | 485.8 |
| 167.5° | 493.9 | 493.6 | 493.3 | 493.0 | 492.8 | 492.6 | 492.6 | 492.6 | 492.6 | 492.6 | 493.2 |
| 170° | 498.3 | 498.0 | 497.8 | 497.5 | 497.2 | 497.0 | 496.9 | 496.8 | 496.7 | 496.6 | 497.3 |
| 172.5° | 501.4 | 501.1 | 500.9 | 500.6 | 500.3 | 500.1 | 500.0 | 499.9 | 499.8 | 499.7 | 500.4 |
| 175° | 505.2 | 504.9 | 504.6 | 504.4 | 504.1 | 503.8 | 503.6 | 503.4 | 503.2 | 503.0 | 503.7 |
| 177.5° | 506.7 | 506.5 | 506.2 | 506.1 | 505.8 | 505.6 | 505.5 | 505.3 | 505.1 | 505.0 | 505.5 |
| 180° | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 |



TEST NUMBER: P331588-830

CATALOG NUMBER: S122DIW-S1005D435U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 996.6 | 996.6 | 996.6 | 996.6 | 996.6 | 996.6 | 996.6 | 996.6 |
| 2.5° | 993.4 | 994.8 | 996.1 | 996.5 | 995.9 | 995.4 | 994.9 | 994.4 |
| 5° | 990.4 | 992.4 | 994.3 | 995.0 | 994.8 | 994.5 | 994.1 | 993.8 |
| 7.5° | 985.7 | 988.1 | 990.3 | 991.4 | 991.0 | 990.7 | 990.3 | 990.0 |
| 10° | 981.6 | 984.2 | 986.7 | 987.9 | 987.5 | 987.2 | 986.9 | 986.6 |
| 12.5° | 974.7 | 977.2 | 979.8 | 980.9 | 980.6 | 980.2 | 980.0 | 979.7 |
| 15° | 962.1 | 964.9 | 967.8 | 969.1 | 968.7 | 968.5 | 968.1 | 967.8 |
| 17.5° | 945.8 | 948.9 | 951.9 | 953.4 | 953.4 | 953.4 | 953.4 | 953.4 |
| 20° | 932.9 | 936.5 | 940.0 | 941.8 | 941.8 | 941.8 | 941.8 | 941.8 |
| 22.5° | 919.1 | 922.7 | 926.1 | 928.2 | 928.7 | 929.3 | 929.7 | 930.3 |
| 25° | 897.5 | 901.4 | 905.2 | 907.6 | 908.6 | 909.6 | 910.5 | 911.4 |
| 27.5° | 873.5 | 878.4 | 883.4 | 886.1 | 886.8 | 887.5 | 888.3 | 888.9 |
| 30° | 856.8 | 861.9 | 867.0 | 870.1 | 871.0 | 871.9 | 873.0 | 873.9 |
| 32.5° | 838.7 | 844.5 | 850.5 | 854.2 | 856.0 | 857.7 | 859.5 | 861.2 |
| 35° | 812.9 | 820.0 | 827.1 | 831.7 | 834.0 | 836.2 | 838.5 | 840.7 |
| 37.5° | 786.5 | 794.3 | 802.1 | 807.2 | 809.5 | 812.0 | 814.4 | 816.7 |
| 40° | 767.8 | 776.2 | 784.5 | 790.1 | 793.1 | 795.9 | 798.8 | 801.7 |
| 42.5° | 749.7 | 758.8 | 768.0 | 773.9 | 776.8 | 779.8 | 782.6 | 785.5 |
| 45° | 721.9 | 731.9 | 741.8 | 748.4 | 751.6 | 754.8 | 758.0 | 761.2 |
| 47.5° | 693.1 | 703.4 | 713.9 | 720.9 | 724.3 | 727.9 | 731.4 | 735.0 |
| 50° | 673.3 | 684.2 | 695.1 | 702.4 | 705.9 | 709.4 | 712.9 | 716.4 |
| 52.5° | 651.9 | 663.0 | 674.2 | 681.6 | 685.4 | 689.3 | 693.1 | 696.8 |
| 55° | 619.7 | 631.2 | 642.8 | 650.6 | 654.8 | 659.0 | 663.2 | 667.3 |
| 57.5° | 585.7 | 598.1 | 610.6 | 618.9 | 623.1 | 627.4 | 631.6 | 635.8 |
| 60° | 563.2 | 575.4 | 587.6 | 596.0 | 600.4 | 604.9 | 609.4 | 613.9 |
| 62.5° | 539.3 | 552.2 | 565.2 | 573.8 | 578.1 | 582.3 | 586.5 | 590.8 |
| 65° | 503.0 | 516.1 | 529.3 | 538.0 | 542.2 | 546.3 | 550.5 | 554.7 |
| 67.5° | 466.3 | 479.6 | 492.9 | 501.7 | 506.1 | 510.4 | 514.8 | 519.2 |
| 70° | 440.7 | 454.5 | 468.3 | 477.1 | 481.0 | 484.8 | 488.7 | 492.6 |
| 72.5° | 415.9 | 429.5 | 443.0 | 452.1 | 456.8 | 461.4 | 466.0 | 470.6 |
| 75° | 378.6 | 392.4 | 406.2 | 415.2 | 419.3 | 423.6 | 427.7 | 431.9 |
| 77.5° | 342.0 | 355.8 | 369.6 | 378.7 | 383.1 | 387.7 | 392.2 | 396.6 |
| 80° | 317.3 | 330.8 | 344.3 | 353.3 | 357.8 | 362.2 | 366.7 | 371.3 |
| 82.5° | 294.2 | 307.6 | 321.1 | 330.0 | 334.2 | 338.5 | 342.7 | 346.9 |
| 85° | 261.0 | 274.5 | 287.9 | 296.9 | 301.4 | 305.9 | 310.4 | 314.9 |
| 87.5° | 235.9 | 249.0 | 262.0 | 270.7 | 274.8 | 278.9 | 283.0 | 287.2 |
| 90° | 230.9 | 243.6 | 256.2 | 264.5 | 268.4 | 272.4 | 276.4 | 280.3 |
| 92.5° | 219.0 | 231.7 | 244.3 | 252.6 | 256.5 | 260.3 | 264.2 | 268.1 |
| 95° | 217.8 | 230.1 | 242.2 | 250.2 | 253.8 | 257.5 | 261.2 | 264.9 |
| 97.5° | 223.4 | 235.3 | 247.1 | 255.0 | 258.7 | 262.5 | 266.3 | 270.0 |
| 100° | 227.2 | 239.0 | 250.9 | 258.5 | 261.9 | 265.4 | 268.8 | 272.3 |
| 102.5° | 232.7 | 244.4 | 256.1 | 263.6 | 267.1 | 270.5 | 274.0 | 277.4 |
| 105° | 241.0 | 252.4 | 263.9 | 271.4 | 274.8 | 278.4 | 281.9 | 285.5 |
| 107.5° | 251.2 | 262.0 | 273.0 | 279.9 | 283.0 | 286.1 | 289.2 | 292.3 |
| 110° | 258.8 | 269.1 | 279.4 | 286.1 | 289.4 | 292.6 | 295.9 | 299.1 |



TEST NUMBER: P331588-830

CATALOG NUMBER: S122DIW-S1005D435U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 266.3 | 276.4 | 286.4 | 293.0 | 296.4 | 299.7 | 303.0 | 306.3 |
| 115° | 278.2 | 287.8 | 297.4 | 303.7 | 307.0 | 310.2 | 313.5 | 316.7 |
| 117.5° | 289.3 | 298.6 | 307.8 | 314.0 | 317.0 | 320.0 | 322.9 | 325.9 |
| 120° | 296.8 | 305.8 | 314.8 | 320.9 | 324.1 | 327.4 | 330.6 | 333.8 |
| 122.5° | 305.3 | 313.8 | 322.3 | 328.0 | 330.7 | 333.6 | 336.4 | 339.2 |
| 125° | 317.0 | 325.4 | 333.8 | 339.3 | 342.1 | 344.9 | 347.7 | 350.5 |
| 127.5° | 328.1 | 335.7 | 343.4 | 348.4 | 350.9 | 353.5 | 356.0 | 358.4 |
| 130° | 336.3 | 343.8 | 351.4 | 356.2 | 358.4 | 360.6 | 362.8 | 365.0 |
| 132.5° | 344.1 | 351.2 | 358.2 | 362.9 | 365.1 | 367.4 | 369.7 | 371.9 |
| 135° | 356.3 | 363.0 | 369.6 | 374.0 | 376.4 | 378.6 | 380.9 | 383.1 |
| 137.5° | 367.8 | 373.6 | 379.5 | 383.2 | 385.1 | 386.9 | 388.7 | 390.5 |
| 140° | 376.2 | 381.3 | 386.4 | 389.7 | 391.2 | 392.9 | 394.4 | 396.0 |
| 142.5° | 384.9 | 389.1 | 393.2 | 396.0 | 397.3 | 398.6 | 399.9 | 401.1 |
| 145° | 399.9 | 401.9 | 404.0 | 405.6 | 406.8 | 408.0 | 409.3 | 410.5 |
| 147.5° | 414.1 | 414.5 | 415.0 | 415.4 | 415.8 | 416.2 | 416.6 | 417.1 |
| 150° | 424.6 | 424.9 | 425.2 | 425.2 | 424.9 | 424.6 | 424.3 | 424.0 |
| 152.5° | 435.6 | 436.0 | 436.4 | 436.4 | 436.0 | 435.6 | 435.4 | 435.0 |
| 155° | 449.8 | 450.3 | 450.7 | 450.8 | 450.5 | 450.3 | 450.0 | 449.7 |
| 157.5° | 462.7 | 463.4 | 464.0 | 464.1 | 463.6 | 463.2 | 462.8 | 462.3 |
| 160° | 470.4 | 471.0 | 471.6 | 471.6 | 471.3 | 470.9 | 470.5 | 470.1 |
| 162.5° | 477.4 | 478.1 | 478.7 | 478.8 | 478.3 | 477.9 | 477.4 | 477.0 |
| 165° | 486.4 | 487.1 | 487.8 | 487.9 | 487.4 | 486.9 | 486.4 | 486.0 |
| 167.5° | 493.9 | 494.6 | 495.2 | 495.3 | 494.7 | 494.3 | 493.8 | 493.3 |
| 170° | 497.9 | 498.6 | 499.3 | 499.4 | 498.8 | 498.2 | 497.7 | 497.1 |
| 172.5° | 501.1 | 501.7 | 502.4 | 502.4 | 501.8 | 501.2 | 500.7 | 500.1 |
| 175° | 504.4 | 505.0 | 505.7 | 505.8 | 505.2 | 504.6 | 504.1 | 503.5 |
| 177.5° | 506.0 | 506.3 | 506.8 | 506.8 | 506.3 | 506.0 | 505.5 | 505.0 |
| 180° | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 |

(END OF REPORT)