

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: P331557-927

Luminaire Tested: **S122DIW-S865D435U927-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331557-927
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-S865D435U927-4F0-1E-UDD-D
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 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: 4139.6 lumens
Efficiency: N/A
Efficacy: 89.6 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: General Diffuse

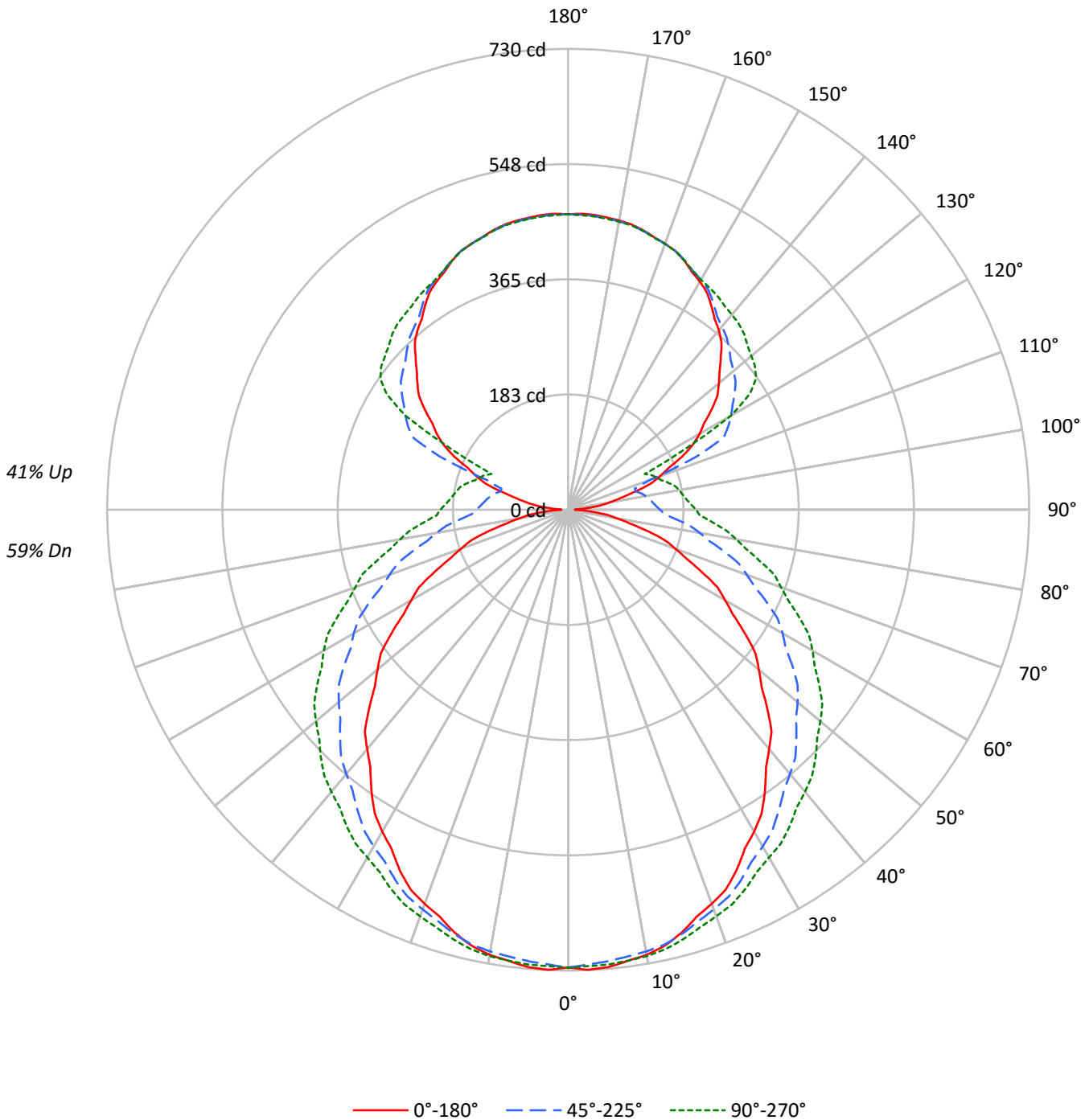
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331557-927

CATALOG NUMBER: S122DIW-S865D435U927-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331557-927

CATALOG NUMBER: S122DIW-S865D435U927-4F0-1E-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 | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 89 | 89 | 89 | 76 | 76 | 76 | 65 | 65 | 65 | 59 |
| 1 | 98 | 93 | 88 | 84 | 91 | 87 | 83 | 79 | 75 | 72 | 69 | 64 | 62 | 60 | 54 | 53 | 51 | 46 |
| 2 | 89 | 80 | 73 | 67 | 82 | 75 | 69 | 63 | 65 | 60 | 56 | 55 | 52 | 49 | 47 | 44 | 42 | 37 |
| 3 | 80 | 70 | 62 | 55 | 75 | 65 | 58 | 52 | 57 | 51 | 46 | 48 | 44 | 40 | 41 | 38 | 35 | 31 |
| 4 | 73 | 62 | 53 | 46 | 68 | 58 | 50 | 44 | 50 | 44 | 39 | 43 | 38 | 34 | 36 | 33 | 29 | 26 |
| 5 | 67 | 55 | 46 | 39 | 62 | 51 | 43 | 37 | 44 | 38 | 33 | 38 | 33 | 29 | 32 | 29 | 25 | 22 |
| 6 | 62 | 49 | 40 | 34 | 57 | 46 | 38 | 32 | 40 | 34 | 29 | 34 | 29 | 25 | 29 | 25 | 22 | 19 |
| 7 | 57 | 44 | 36 | 30 | 53 | 41 | 34 | 28 | 36 | 30 | 25 | 31 | 26 | 22 | 27 | 23 | 20 | 17 |
| 8 | 53 | 40 | 32 | 26 | 49 | 38 | 30 | 25 | 33 | 27 | 22 | 29 | 24 | 20 | 25 | 20 | 17 | 15 |
| 9 | 49 | 36 | 29 | 23 | 46 | 34 | 27 | 22 | 30 | 24 | 20 | 26 | 21 | 18 | 23 | 19 | 16 | 13 |
| 10 | 46 | 33 | 26 | 21 | 43 | 31 | 25 | 20 | 28 | 22 | 18 | 24 | 19 | 16 | 21 | 17 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11711 | 11711 | 11711 |
| 5° | 11768 | 11274 | 11230 |
| 10° | 11694 | 10940 | 10818 |
| 15° | 11533 | 10587 | 10382 |
| 20° | 11328 | 10209 | 9963 |
| 25° | 11128 | 9845 | 9582 |
| 30° | 10845 | 9471 | 9201 |
| 35° | 10557 | 9109 | 8932 |
| 40° | 10256 | 8801 | 8662 |
| 45° | 9969 | 8526 | 8433 |
| 50° | 9662 | 8276 | 8207 |
| 55° | 9341 | 8008 | 7975 |
| 60° | 8945 | 7730 | 7732 |
| 65° | 8536 | 7405 | 7441 |
| 70° | 8073 | 7053 | 7130 |
| 75° | 7484 | 6710 | 6841 |
| 80° | 6553 | 6361 | 6548 |
| 85° | 5671 | 6056 | 6323 |



TEST NUMBER: P331557-927

CATALOG NUMBER: S122DIW-S865D435U927-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.7 | 1.7 |
| 10°-20° | 197.1 | 4.8 |
| 20°-30° | 298.7 | 7.2 |
| 30°-40° | 363.8 | 8.8 |
| 40°-50° | 391.3 | 9.5 |
| 50°-60° | 380.0 | 9.2 |
| 60°-70° | 331.8 | 8.0 |
| 70°-80° | 255.5 | 6.2 |
| 80°-90° | 172.6 | 4.2 |
| 90°-100° | 133.7 | 3.2 |
| 100°-110° | 143.5 | 3.5 |
| 110°-120° | 210.0 | 5.1 |
| 120°-130° | 284.4 | 6.9 |
| 130°-140° | 281.9 | 6.8 |
| 140°-150° | 252.0 | 6.1 |
| 150°-160° | 200.7 | 4.8 |
| 160°-170° | 129.3 | 3.1 |
| 170°-180° | 44.5 | 1.1 |
| 0°-30° | 564.5 | 13.6 |
| 0°-40° | 928.2 | 22.4 |
| 0°-60° | 1699.6 | 41.1 |
| 0°-90° | 2459.5 | 59.4 |
| 90°-120° | 487.2 | 11.8 |
| 90°-150° | 1305.5 | 31.5 |
| 90°-180° | 1680.0 | 40.6 |
| 0°-180° | 4139.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 725 | 725 | 725 | 725 | 725 | |
| 5° | 727 | 724 | 718 | 724 | 723 | 69 |
| 15° | 694 | 696 | 696 | 705 | 704 | 195 |
| 25° | 631 | 638 | 648 | 660 | 663 | 290 |
| 35° | 543 | 562 | 581 | 604 | 612 | 340 |
| 45° | 446 | 475 | 511 | 542 | 554 | 344 |
| 55° | 342 | 380 | 434 | 471 | 486 | 305 |
| 65° | 233 | 286 | 347 | 388 | 404 | 232 |
| 75° | 129 | 189 | 255 | 299 | 314 | 137 |
| 85° | 38 | 103 | 170 | 213 | 229 | 41 |
| 90° | 11 | 76 | 146 | 188 | 203 | 8 |
| 95° | 30 | 70 | 134 | 174 | 188 | 34 |
| 105° | 108 | 144 | 111 | 150 | 164 | 116 |
| 115° | 199 | 218 | 272 | 153 | 134 | 195 |
| 125° | 277 | 284 | 322 | 352 | 363 | 248 |
| 135° | 342 | 348 | 361 | 385 | 394 | 264 |
| 145° | 395 | 395 | 400 | 409 | 413 | 247 |
| 155° | 435 | 432 | 436 | 438 | 436 | 200 |
| 165° | 458 | 457 | 457 | 460 | 457 | 129 |
| 175° | 469 | 467 | 467 | 469 | 466 | 45 |
| 180° | 468 | 468 | 468 | 468 | 468 | |



TEST NUMBER: P331557-927

CATALOG NUMBER: S122DIW-S865D435U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 |
| 2.5° | 729.5 | 729.0 | 728.4 | 727.9 | 727.3 | 726.4 | 725.0 | 723.7 | 722.4 | 721.1 | 722.1 |
| 5° | 727.4 | 726.7 | 726.0 | 725.3 | 724.6 | 723.6 | 722.2 | 720.7 | 719.4 | 718.0 | 719.4 |
| 7.5° | 720.9 | 720.4 | 719.9 | 719.5 | 719.1 | 718.3 | 717.2 | 716.1 | 715.0 | 714.0 | 715.7 |
| 10° | 715.9 | 715.4 | 714.9 | 714.5 | 714.0 | 713.4 | 712.7 | 712.0 | 711.3 | 710.6 | 712.5 |
| 12.5° | 707.4 | 707.6 | 707.7 | 707.7 | 707.8 | 707.6 | 707.1 | 706.5 | 706.1 | 705.5 | 707.4 |
| 15° | 693.8 | 694.3 | 694.7 | 695.2 | 695.6 | 695.9 | 695.9 | 695.9 | 695.9 | 695.9 | 698.0 |
| 17.5° | 676.1 | 677.1 | 678.1 | 679.1 | 680.0 | 680.9 | 681.7 | 682.4 | 683.2 | 683.9 | 686.1 |
| 20° | 664.3 | 665.5 | 666.7 | 667.9 | 669.0 | 670.1 | 671.0 | 671.9 | 672.9 | 673.8 | 676.4 |
| 22.5° | 651.7 | 653.1 | 654.4 | 655.8 | 657.1 | 658.5 | 659.8 | 661.1 | 662.4 | 663.7 | 666.3 |
| 25° | 630.7 | 632.3 | 634.0 | 635.6 | 637.2 | 639.1 | 641.2 | 643.3 | 645.4 | 647.5 | 650.3 |
| 27.5° | 605.5 | 608.2 | 610.8 | 613.5 | 616.2 | 618.7 | 621.2 | 623.7 | 626.1 | 628.6 | 632.2 |
| 30° | 588.7 | 591.7 | 594.8 | 597.8 | 600.8 | 603.9 | 606.9 | 609.9 | 613.0 | 616.0 | 619.7 |
| 32.5° | 570.1 | 573.5 | 576.9 | 580.4 | 583.8 | 587.3 | 590.9 | 594.5 | 598.1 | 601.7 | 606.0 |
| 35° | 543.4 | 547.4 | 551.4 | 555.4 | 559.4 | 563.6 | 568.0 | 572.4 | 576.9 | 581.3 | 586.5 |
| 37.5° | 514.4 | 519.0 | 523.6 | 528.1 | 532.7 | 537.9 | 543.7 | 549.5 | 555.2 | 560.9 | 566.6 |
| 40° | 495.1 | 500.3 | 505.4 | 510.6 | 515.6 | 521.4 | 527.7 | 534.0 | 540.3 | 546.6 | 552.7 |
| 42.5° | 476.6 | 481.7 | 486.9 | 492.0 | 497.2 | 503.4 | 510.6 | 517.8 | 525.1 | 532.3 | 538.9 |
| 45° | 445.7 | 452.0 | 458.3 | 464.6 | 471.0 | 478.2 | 486.3 | 494.6 | 502.7 | 510.9 | 518.1 |
| 47.5° | 415.2 | 422.1 | 429.0 | 435.9 | 442.7 | 450.9 | 460.5 | 470.1 | 479.7 | 489.3 | 496.8 |
| 50° | 394.2 | 401.4 | 408.7 | 415.9 | 423.2 | 432.1 | 442.5 | 453.0 | 463.6 | 474.1 | 482.0 |
| 52.5° | 374.0 | 381.6 | 389.3 | 396.9 | 404.5 | 413.8 | 424.9 | 435.9 | 447.0 | 458.1 | 466.2 |
| 55° | 341.7 | 350.1 | 358.5 | 366.9 | 375.3 | 385.6 | 397.7 | 409.9 | 422.0 | 434.1 | 442.5 |
| 57.5° | 309.7 | 319.2 | 328.7 | 338.1 | 347.6 | 358.5 | 370.9 | 383.3 | 395.7 | 408.1 | 417.2 |
| 60° | 287.0 | 297.0 | 307.0 | 317.1 | 327.2 | 338.8 | 352.1 | 365.4 | 378.7 | 392.1 | 401.0 |
| 62.5° | 266.8 | 277.2 | 287.6 | 298.0 | 308.5 | 320.4 | 333.7 | 347.0 | 360.3 | 373.6 | 383.0 |
| 65° | 233.4 | 244.8 | 256.3 | 267.7 | 279.2 | 291.8 | 305.5 | 319.3 | 333.1 | 346.9 | 356.5 |
| 67.5° | 202.6 | 214.6 | 226.6 | 238.5 | 250.5 | 263.6 | 277.7 | 291.8 | 305.9 | 320.0 | 329.6 |
| 70° | 180.8 | 193.0 | 205.1 | 217.2 | 229.4 | 242.7 | 257.2 | 271.6 | 286.1 | 300.6 | 310.7 |
| 72.5° | 160.7 | 173.2 | 185.7 | 198.2 | 210.7 | 224.3 | 239.0 | 253.7 | 268.3 | 283.0 | 292.9 |
| 75° | 129.3 | 142.4 | 155.4 | 168.6 | 181.6 | 195.7 | 210.6 | 225.5 | 240.5 | 255.4 | 265.5 |
| 77.5° | 99.0 | 112.7 | 126.4 | 140.1 | 153.8 | 168.2 | 183.4 | 198.6 | 213.7 | 228.9 | 238.9 |
| 80° | 78.8 | 93.1 | 107.3 | 121.6 | 135.9 | 150.5 | 165.7 | 180.9 | 196.1 | 211.3 | 221.1 |
| 82.5° | 62.0 | 76.0 | 90.2 | 104.2 | 118.3 | 133.0 | 148.4 | 163.7 | 179.1 | 194.5 | 204.3 |
| 85° | 37.9 | 52.4 | 66.8 | 81.3 | 95.8 | 110.5 | 125.4 | 140.4 | 155.3 | 170.3 | 180.1 |
| 87.5° | 20.7 | 34.8 | 48.9 | 62.9 | 77.0 | 91.6 | 106.7 | 121.8 | 136.8 | 151.9 | 161.5 |
| 90° | 10.9 | 25.2 | 39.6 | 53.9 | 68.4 | 83.3 | 98.9 | 114.4 | 130.0 | 145.5 | 155.3 |
| 92.5° | 16.5 | 29.1 | 41.6 | 54.1 | 66.7 | 80.2 | 95.0 | 109.6 | 124.4 | 139.0 | 148.4 |
| 95° | 30.4 | 38.9 | 47.4 | 55.9 | 64.4 | 75.9 | 90.5 | 105.0 | 119.5 | 134.1 | 143.3 |
| 97.5° | 51.0 | 53.8 | 56.6 | 59.3 | 62.1 | 70.8 | 85.5 | 100.2 | 114.9 | 129.5 | 138.5 |
| 100° | 67.3 | 65.6 | 63.9 | 62.3 | 60.6 | 66.9 | 81.4 | 95.7 | 110.0 | 124.5 | 133.6 |
| 102.5° | 84.3 | 90.1 | 95.8 | 101.5 | 107.2 | 111.1 | 113.0 | 115.0 | 117.1 | 119.1 | 128.3 |
| 105° | 108.2 | 117.2 | 126.3 | 135.3 | 144.3 | 144.7 | 136.3 | 127.9 | 119.5 | 111.1 | 120.1 |
| 107.5° | 136.7 | 143.9 | 151.1 | 158.4 | 165.6 | 162.7 | 149.7 | 136.7 | 123.7 | 110.7 | 117.7 |
| 110° | 154.2 | 160.4 | 166.7 | 172.9 | 179.2 | 177.2 | 166.9 | 156.6 | 146.3 | 136.0 | 135.9 |



TEST NUMBER: P331557-927

CATALOG NUMBER: S122DIW-S865D435U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 171.5 | 176.9 | 182.2 | 187.5 | 192.8 | 198.3 | 203.7 | 209.3 | 214.8 | 220.3 | 200.3 |
| 115° | 198.9 | 202.7 | 206.6 | 210.4 | 214.3 | 222.4 | 234.8 | 247.2 | 259.6 | 272.0 | 244.2 |
| 117.5° | 222.3 | 225.4 | 228.5 | 231.6 | 234.7 | 241.8 | 252.8 | 263.8 | 274.8 | 285.8 | 284.3 |
| 120° | 240.2 | 242.2 | 244.3 | 246.4 | 248.4 | 254.8 | 265.5 | 276.2 | 286.9 | 297.6 | 305.1 |
| 122.5° | 255.3 | 256.9 | 258.5 | 260.0 | 261.6 | 267.5 | 277.7 | 288.0 | 298.3 | 308.6 | 315.4 |
| 125° | 277.3 | 278.4 | 279.3 | 280.3 | 281.3 | 286.2 | 295.2 | 304.0 | 312.9 | 321.9 | 328.7 |
| 127.5° | 298.3 | 299.1 | 300.0 | 300.9 | 301.7 | 305.7 | 312.8 | 319.9 | 326.9 | 334.1 | 340.6 |
| 130° | 311.6 | 312.5 | 313.5 | 314.5 | 315.4 | 318.8 | 324.6 | 330.3 | 336.0 | 341.7 | 348.2 |
| 132.5° | 325.1 | 325.9 | 326.7 | 327.5 | 328.3 | 331.0 | 335.6 | 340.2 | 344.8 | 349.4 | 355.5 |
| 135° | 341.7 | 342.9 | 344.0 | 345.3 | 346.5 | 348.6 | 351.6 | 354.7 | 357.7 | 360.7 | 366.3 |
| 137.5° | 359.5 | 360.3 | 361.1 | 361.9 | 362.7 | 363.9 | 365.8 | 367.6 | 369.3 | 371.1 | 376.2 |
| 140° | 371.1 | 371.5 | 371.9 | 372.2 | 372.6 | 373.4 | 374.7 | 376.0 | 377.3 | 378.6 | 383.0 |
| 142.5° | 380.9 | 381.2 | 381.5 | 381.8 | 382.1 | 382.8 | 383.8 | 384.8 | 386.0 | 387.0 | 390.5 |
| 145° | 395.1 | 395.1 | 395.0 | 394.9 | 394.8 | 395.5 | 396.7 | 398.0 | 399.3 | 400.5 | 402.5 |
| 147.5° | 408.4 | 408.2 | 407.9 | 407.7 | 407.3 | 407.8 | 409.1 | 410.4 | 411.6 | 412.9 | 413.4 |
| 150° | 417.2 | 416.6 | 416.1 | 415.6 | 415.0 | 415.3 | 416.6 | 417.8 | 419.0 | 420.2 | 420.6 |
| 152.5° | 424.5 | 423.9 | 423.3 | 422.7 | 422.1 | 422.4 | 423.5 | 424.7 | 425.8 | 427.0 | 427.4 |
| 155° | 435.1 | 434.4 | 433.7 | 433.1 | 432.4 | 432.5 | 433.4 | 434.3 | 435.2 | 436.1 | 436.6 |
| 157.5° | 443.4 | 442.8 | 442.3 | 441.7 | 441.2 | 441.2 | 441.8 | 442.4 | 443.1 | 443.7 | 444.2 |
| 160° | 448.3 | 447.8 | 447.4 | 446.9 | 446.5 | 446.5 | 446.9 | 447.4 | 447.8 | 448.3 | 448.8 |
| 162.5° | 452.7 | 452.2 | 451.7 | 451.3 | 450.8 | 450.8 | 451.1 | 451.5 | 451.9 | 452.3 | 452.9 |
| 165° | 458.4 | 458.0 | 457.6 | 457.1 | 456.6 | 456.5 | 456.8 | 457.0 | 457.2 | 457.4 | 458.0 |
| 167.5° | 462.8 | 462.3 | 461.9 | 461.4 | 461.0 | 460.9 | 461.1 | 461.3 | 461.5 | 461.7 | 462.2 |
| 170° | 465.2 | 464.8 | 464.3 | 463.9 | 463.4 | 463.3 | 463.4 | 463.6 | 463.7 | 463.9 | 464.4 |
| 172.5° | 466.8 | 466.4 | 466.0 | 465.5 | 465.0 | 464.9 | 465.0 | 465.2 | 465.3 | 465.5 | 466.0 |
| 175° | 469.0 | 468.4 | 467.9 | 467.4 | 466.8 | 466.7 | 466.8 | 467.0 | 467.1 | 467.2 | 467.8 |
| 177.5° | 469.3 | 468.9 | 468.4 | 468.0 | 467.6 | 467.4 | 467.5 | 467.5 | 467.6 | 467.6 | 468.1 |
| 180° | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 |



TEST NUMBER: P331557-927

CATALOG NUMBER: S122DIW-S865D435U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 |
| 2.5° | 722.9 | 723.9 | 724.8 | 725.2 | 724.8 | 724.4 | 724.0 | 723.7 |
| 5° | 720.7 | 722.2 | 723.6 | 724.1 | 723.9 | 723.7 | 723.4 | 723.2 |
| 7.5° | 717.3 | 719.0 | 720.7 | 721.4 | 721.2 | 721.0 | 720.7 | 720.5 |
| 10° | 714.3 | 716.2 | 718.1 | 718.9 | 718.7 | 718.4 | 718.2 | 718.0 |
| 12.5° | 709.3 | 711.1 | 713.0 | 713.8 | 713.6 | 713.4 | 713.1 | 712.9 |
| 15° | 700.1 | 702.2 | 704.3 | 705.2 | 705.0 | 704.7 | 704.5 | 704.3 |
| 17.5° | 688.3 | 690.5 | 692.7 | 693.8 | 693.8 | 693.8 | 693.8 | 693.8 |
| 20° | 679.0 | 681.5 | 684.0 | 685.4 | 685.4 | 685.4 | 685.4 | 685.4 |
| 22.5° | 668.8 | 671.5 | 674.0 | 675.5 | 675.8 | 676.2 | 676.6 | 677.0 |
| 25° | 653.2 | 655.9 | 658.8 | 660.5 | 661.2 | 661.9 | 662.6 | 663.3 |
| 27.5° | 635.7 | 639.3 | 642.8 | 644.8 | 645.4 | 645.9 | 646.4 | 646.9 |
| 30° | 623.4 | 627.2 | 631.0 | 633.2 | 633.8 | 634.5 | 635.3 | 636.0 |
| 32.5° | 610.3 | 614.6 | 618.9 | 621.7 | 622.9 | 624.2 | 625.4 | 626.7 |
| 35° | 591.6 | 596.8 | 601.9 | 605.2 | 606.9 | 608.6 | 610.1 | 611.8 |
| 37.5° | 572.3 | 578.0 | 583.7 | 587.4 | 589.1 | 590.9 | 592.6 | 594.4 |
| 40° | 558.7 | 564.8 | 570.9 | 575.0 | 577.1 | 579.2 | 581.3 | 583.4 |
| 42.5° | 545.6 | 552.2 | 558.9 | 563.2 | 565.3 | 567.4 | 569.5 | 571.6 |
| 45° | 525.4 | 532.6 | 539.9 | 544.6 | 547.0 | 549.3 | 551.7 | 554.0 |
| 47.5° | 504.4 | 511.9 | 519.5 | 524.6 | 527.1 | 529.7 | 532.3 | 534.9 |
| 50° | 490.0 | 497.9 | 505.9 | 511.1 | 513.7 | 516.3 | 518.8 | 521.4 |
| 52.5° | 474.4 | 482.5 | 490.6 | 496.1 | 498.8 | 501.6 | 504.3 | 507.1 |
| 55° | 451.0 | 459.4 | 467.8 | 473.5 | 476.5 | 479.6 | 482.6 | 485.6 |
| 57.5° | 426.2 | 435.2 | 444.3 | 450.4 | 453.4 | 456.5 | 459.6 | 462.7 |
| 60° | 409.9 | 418.7 | 427.6 | 433.6 | 437.0 | 440.2 | 443.5 | 446.8 |
| 62.5° | 392.4 | 401.9 | 411.3 | 417.6 | 420.6 | 423.7 | 426.8 | 429.9 |
| 65° | 366.1 | 375.7 | 385.2 | 391.5 | 394.5 | 397.6 | 400.6 | 403.6 |
| 67.5° | 339.3 | 349.0 | 358.7 | 365.1 | 368.3 | 371.5 | 374.6 | 377.8 |
| 70° | 320.8 | 330.7 | 340.8 | 347.2 | 350.1 | 352.8 | 355.7 | 358.5 |
| 72.5° | 302.7 | 312.5 | 322.4 | 329.0 | 332.4 | 335.7 | 339.1 | 342.5 |
| 75° | 275.5 | 285.6 | 295.6 | 302.1 | 305.2 | 308.2 | 311.2 | 314.3 |
| 77.5° | 249.0 | 259.0 | 268.9 | 275.6 | 278.8 | 282.1 | 285.4 | 288.7 |
| 80° | 230.9 | 240.7 | 250.6 | 257.1 | 260.3 | 263.6 | 266.9 | 270.1 |
| 82.5° | 214.1 | 223.9 | 233.7 | 240.2 | 243.3 | 246.3 | 249.4 | 252.5 |
| 85° | 189.9 | 199.7 | 209.5 | 216.1 | 219.4 | 222.6 | 225.9 | 229.2 |
| 87.5° | 171.1 | 180.7 | 190.3 | 196.6 | 199.6 | 202.6 | 205.7 | 208.7 |
| 90° | 164.9 | 174.7 | 184.4 | 190.8 | 193.7 | 196.6 | 199.6 | 202.6 |
| 92.5° | 157.7 | 167.1 | 176.4 | 182.6 | 185.4 | 188.4 | 191.2 | 194.2 |
| 95° | 152.6 | 161.8 | 171.1 | 177.1 | 179.8 | 182.5 | 185.3 | 188.0 |
| 97.5° | 147.4 | 156.4 | 165.3 | 171.2 | 174.0 | 176.9 | 179.7 | 182.6 |
| 100° | 142.9 | 152.2 | 161.4 | 167.4 | 170.1 | 172.9 | 175.5 | 178.2 |
| 102.5° | 137.5 | 146.8 | 156.1 | 162.0 | 164.9 | 167.6 | 170.4 | 173.2 |
| 105° | 129.0 | 138.1 | 147.1 | 153.0 | 155.9 | 158.8 | 161.6 | 164.5 |
| 107.5° | 124.7 | 131.7 | 138.7 | 143.6 | 146.6 | 149.4 | 152.3 | 155.1 |
| 110° | 135.9 | 135.9 | 135.8 | 137.2 | 140.1 | 142.9 | 145.8 | 148.7 |



TEST NUMBER: P331557-927

CATALOG NUMBER: S122DIW-S865D435U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 180.4 | 160.4 | 140.4 | 131.8 | 134.7 | 137.4 | 140.3 | 143.1 |
| 115° | 216.3 | 188.5 | 160.7 | 145.3 | 142.5 | 139.7 | 136.8 | 134.0 |
| 117.5° | 282.8 | 281.3 | 279.8 | 271.3 | 255.9 | 240.5 | 225.1 | 209.6 |
| 120° | 312.5 | 320.0 | 327.3 | 327.3 | 319.7 | 312.1 | 304.5 | 296.9 |
| 122.5° | 322.3 | 329.2 | 336.1 | 339.7 | 339.9 | 340.1 | 340.3 | 340.6 |
| 125° | 335.5 | 342.4 | 349.2 | 353.8 | 356.1 | 358.4 | 360.8 | 363.1 |
| 127.5° | 347.2 | 353.7 | 360.3 | 364.6 | 366.7 | 368.8 | 370.9 | 373.0 |
| 130° | 354.6 | 361.1 | 367.5 | 371.6 | 373.4 | 375.2 | 377.0 | 378.7 |
| 132.5° | 361.7 | 367.8 | 373.9 | 377.9 | 379.7 | 381.5 | 383.3 | 385.1 |
| 135° | 371.9 | 377.6 | 383.3 | 387.0 | 388.7 | 390.4 | 392.1 | 393.9 |
| 137.5° | 381.2 | 386.3 | 391.3 | 394.5 | 395.8 | 397.1 | 398.5 | 399.8 |
| 140° | 387.5 | 391.9 | 396.2 | 399.0 | 400.1 | 401.1 | 402.0 | 403.1 |
| 142.5° | 394.2 | 397.8 | 401.4 | 403.6 | 404.4 | 405.3 | 406.2 | 406.9 |
| 145° | 404.4 | 406.3 | 408.3 | 409.6 | 410.4 | 411.2 | 412.0 | 412.8 |
| 147.5° | 414.1 | 414.6 | 415.2 | 415.6 | 415.8 | 416.1 | 416.4 | 416.6 |
| 150° | 421.1 | 421.5 | 422.0 | 422.1 | 421.7 | 421.3 | 420.9 | 420.6 |
| 152.5° | 427.9 | 428.3 | 428.8 | 428.7 | 428.3 | 427.8 | 427.2 | 426.7 |
| 155° | 437.0 | 437.4 | 437.9 | 437.8 | 437.2 | 436.7 | 436.0 | 435.5 |
| 157.5° | 444.7 | 445.2 | 445.8 | 445.7 | 445.1 | 444.5 | 443.9 | 443.4 |
| 160° | 449.2 | 449.6 | 450.1 | 450.0 | 449.6 | 449.0 | 448.5 | 448.0 |
| 162.5° | 453.4 | 453.9 | 454.4 | 454.3 | 453.7 | 453.0 | 452.4 | 451.8 |
| 165° | 458.5 | 459.0 | 459.5 | 459.5 | 459.0 | 458.5 | 458.0 | 457.4 |
| 167.5° | 462.8 | 463.3 | 463.8 | 463.7 | 463.0 | 462.4 | 461.7 | 461.1 |
| 170° | 464.9 | 465.5 | 466.0 | 465.9 | 465.2 | 464.5 | 463.9 | 463.2 |
| 172.5° | 466.5 | 467.1 | 467.6 | 467.5 | 466.8 | 466.2 | 465.5 | 464.9 |
| 175° | 468.3 | 468.8 | 469.4 | 469.3 | 468.5 | 467.8 | 467.0 | 466.3 |
| 177.5° | 468.5 | 468.9 | 469.4 | 469.3 | 468.7 | 468.2 | 467.6 | 467.1 |
| 180° | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 |

(END OF REPORT)