

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: P331407-927

Luminaire Tested: **S122DIP-S865D925U927-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331407-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S865D925U927-4F0-1E-UDD-D4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5631.7 lumens
Efficiency: N/A
Efficacy: 93.1 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

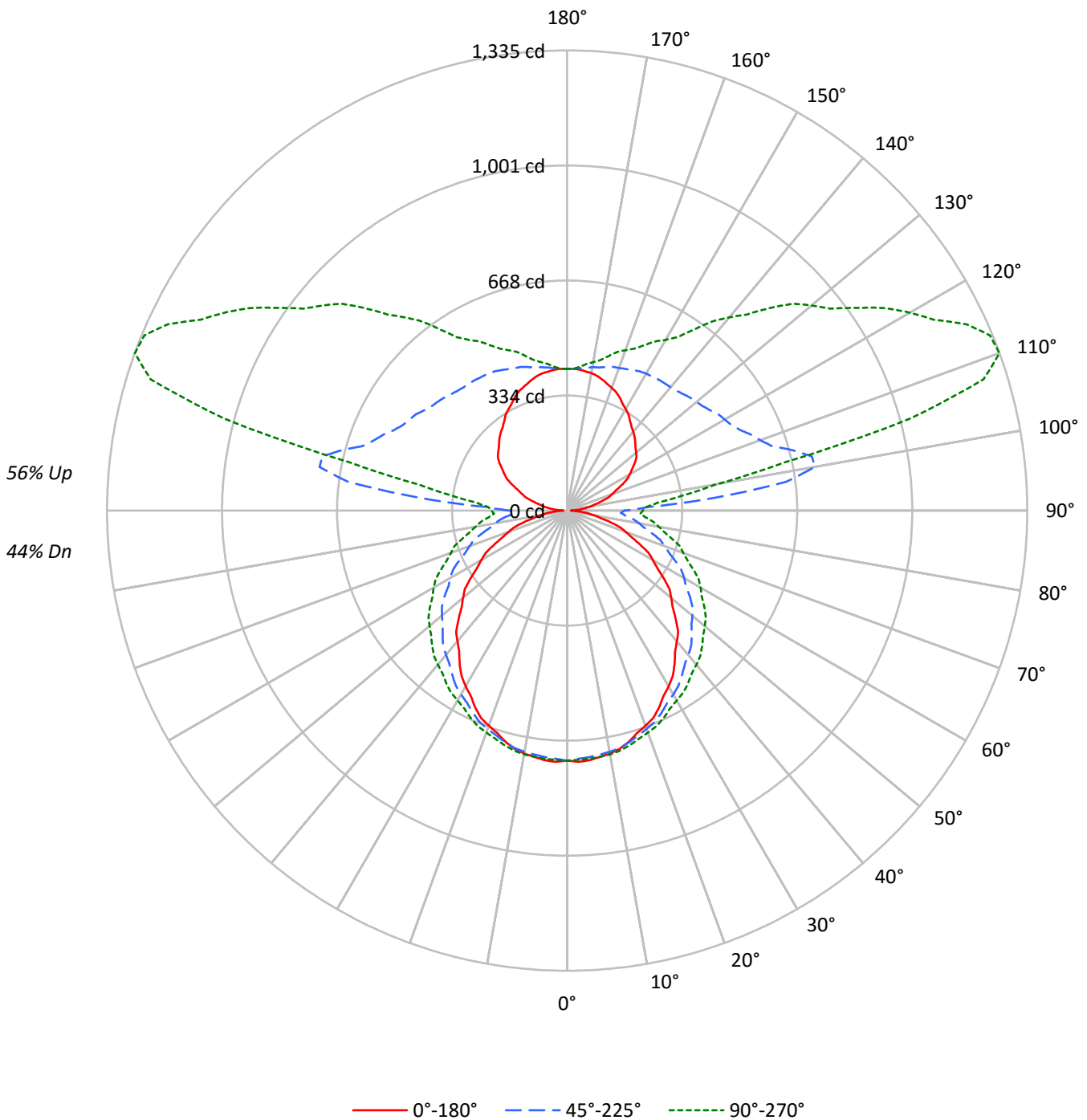
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331407-927

CATALOG NUMBER: S122DIP-S865D925U927-4F0-1E-UDD-D4

Luminous Intensity Polar Plot





TEST NUMBER: P331407-927

CATALOG NUMBER: S122DIP-S865D925U927-4F0-1E-UDD-D4

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 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 64 | 64 | 64 | 50 | 50 | 50 | 44 |
| 1 | 95 | 90 | 86 | 82 | 87 | 82 | 79 | 75 | 68 | 65 | 63 | 55 | 53 | 51 | 42 | 41 | 40 | 34 |
| 2 | 86 | 78 | 71 | 66 | 78 | 71 | 66 | 61 | 59 | 55 | 51 | 47 | 44 | 42 | 37 | 34 | 33 | 28 |
| 3 | 78 | 68 | 60 | 54 | 71 | 62 | 56 | 50 | 51 | 46 | 42 | 41 | 38 | 35 | 32 | 29 | 27 | 23 |
| 4 | 71 | 60 | 52 | 45 | 65 | 55 | 48 | 42 | 45 | 40 | 36 | 37 | 32 | 29 | 28 | 25 | 23 | 19 |
| 5 | 65 | 53 | 45 | 39 | 59 | 49 | 41 | 36 | 40 | 35 | 30 | 33 | 28 | 25 | 25 | 22 | 20 | 16 |
| 6 | 60 | 48 | 39 | 33 | 54 | 44 | 36 | 31 | 36 | 31 | 26 | 29 | 25 | 22 | 23 | 20 | 17 | 14 |
| 7 | 55 | 43 | 35 | 29 | 50 | 39 | 32 | 27 | 33 | 27 | 23 | 27 | 22 | 19 | 21 | 18 | 15 | 12 |
| 8 | 51 | 39 | 31 | 25 | 47 | 36 | 29 | 24 | 30 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 14 | 11 |
| 9 | 48 | 35 | 28 | 22 | 43 | 32 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 18 | 14 | 12 | 10 |
| 10 | 44 | 32 | 25 | 20 | 41 | 30 | 23 | 19 | 25 | 20 | 16 | 21 | 16 | 14 | 16 | 13 | 11 | 9 |

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: P331407-927

CATALOG NUMBER: S122DIP-S865D925U927-4F0-1E-UDD-D4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.7 | 1.2 |
| 10°-20° | 197.1 | 3.5 |
| 20°-30° | 298.7 | 5.3 |
| 30°-40° | 363.8 | 6.5 |
| 40°-50° | 391.3 | 6.9 |
| 50°-60° | 380.0 | 6.7 |
| 60°-70° | 331.8 | 5.9 |
| 70°-80° | 255.5 | 4.5 |
| 80°-90° | 175.2 | 3.1 |
| 90°-100° | 282.5 | 5.0 |
| 100°-110° | 644.1 | 11.4 |
| 110°-120° | 649.6 | 11.5 |
| 120°-130° | 519.6 | 9.2 |
| 130°-140° | 405.1 | 7.2 |
| 140°-150° | 298.4 | 5.3 |
| 150°-160° | 208.1 | 3.7 |
| 160°-170° | 122.5 | 2.2 |
| 170°-180° | 39.9 | 0.7 |
| 0°-30° | 564.5 | 10.0 |
| 0°-40° | 928.2 | 16.5 |
| 0°-60° | 1699.6 | 30.2 |
| 0°-90° | 2462.1 | 43.7 |
| 90°-120° | 1576.2 | 28.0 |
| 90°-150° | 2799.3 | 49.7 |
| 90°-180° | 3170.0 | 56.3 |
| 0°-180° | 5631.7 | 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 | 82 | 166 | 205 | 220 | 9 |
| 95° | 36 | 127 | 431 | 276 | 264 | 36 |
| 105° | 102 | 183 | 676 | 1173 | 1030 | 108 |
| 115° | 174 | 232 | 553 | 1105 | 1279 | 172 |
| 125° | 239 | 285 | 507 | 883 | 1025 | 213 |
| 135° | 279 | 334 | 477 | 722 | 830 | 216 |
| 145° | 318 | 365 | 463 | 581 | 641 | 200 |
| 155° | 361 | 390 | 450 | 509 | 529 | 166 |
| 165° | 394 | 406 | 431 | 457 | 464 | 111 |
| 175° | 410 | 411 | 414 | 420 | 418 | 39 |
| 180° | 411 | 411 | 411 | 411 | 411 | |



TEST NUMBER: P331407-927

CATALOG NUMBER: S122DIP-S865D925U927-4F0-1E-UDD-D4

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° | 20.8 | 35.2 | 49.7 | 63.9 | 78.2 | 93.1 | 108.8 | 124.9 | 140.8 | 155.9 | 165.2 |
| 90° | 11.3 | 27.3 | 44.0 | 59.1 | 74.2 | 90.8 | 109.7 | 130.2 | 149.9 | 165.6 | 174.2 |
| 92.5° | 19.3 | 36.2 | 54.5 | 70.6 | 88.6 | 109.6 | 141.8 | 181.3 | 218.2 | 233.9 | 227.1 |
| 95° | 36.0 | 50.2 | 69.1 | 87.2 | 110.8 | 142.3 | 192.7 | 275.5 | 381.2 | 430.8 | 400.9 |
| 97.5° | 52.4 | 66.5 | 84.6 | 105.1 | 129.4 | 162.6 | 221.7 | 331.0 | 496.9 | 641.0 | 675.5 |
| 100° | 68.2 | 79.2 | 95.0 | 116.3 | 140.8 | 173.7 | 228.7 | 338.3 | 522.1 | 729.7 | 852.2 |
| 102.5° | 81.9 | 91.6 | 106.6 | 127.1 | 151.5 | 183.9 | 235.4 | 333.7 | 504.6 | 727.0 | 914.4 |
| 105° | 101.7 | 111.6 | 124.0 | 142.6 | 166.8 | 198.4 | 247.6 | 330.2 | 472.8 | 676.3 | 894.8 |
| 107.5° | 124.3 | 132.2 | 143.0 | 159.3 | 182.0 | 212.9 | 260.5 | 333.5 | 453.0 | 622.7 | 816.3 |
| 110° | 138.6 | 146.5 | 155.8 | 170.8 | 192.1 | 223.1 | 269.3 | 337.7 | 445.6 | 596.2 | 767.3 |



TEST NUMBER: P331407-927

CATALOG NUMBER: S122DIP-S865D925U927-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 152.5 | 159.6 | 168.9 | 182.5 | 202.4 | 233.4 | 277.7 | 342.4 | 440.8 | 576.4 | 731.0 |
| 115° | 174.2 | 180.7 | 188.0 | 200.1 | 218.5 | 246.4 | 290.9 | 349.6 | 436.8 | 553.3 | 685.2 |
| 117.5° | 195.6 | 200.4 | 206.8 | 216.9 | 233.8 | 261.7 | 302.8 | 357.7 | 434.7 | 537.2 | 652.8 |
| 120° | 209.5 | 213.6 | 219.3 | 227.4 | 244.1 | 271.3 | 311.6 | 363.5 | 433.8 | 527.8 | 634.7 |
| 122.5° | 222.8 | 225.7 | 230.8 | 238.9 | 255.1 | 282.5 | 320.2 | 368.5 | 433.7 | 520.1 | 618.7 |
| 125° | 239.3 | 241.7 | 246.4 | 255.9 | 271.7 | 297.5 | 333.5 | 376.6 | 433.1 | 506.9 | 594.7 |
| 127.5° | 253.2 | 256.1 | 262.5 | 272.7 | 287.7 | 313.4 | 347.1 | 385.0 | 433.7 | 496.7 | 572.4 |
| 130° | 261.4 | 264.4 | 272.0 | 282.9 | 298.4 | 322.9 | 355.5 | 390.5 | 434.9 | 490.4 | 557.7 |
| 132.5° | 269.0 | 272.6 | 280.9 | 292.3 | 308.6 | 332.5 | 362.7 | 395.9 | 436.0 | 484.7 | 544.9 |
| 135° | 279.3 | 282.5 | 292.0 | 303.9 | 322.0 | 345.3 | 373.0 | 403.0 | 437.0 | 477.2 | 527.2 |
| 137.5° | 290.1 | 293.8 | 303.3 | 315.9 | 333.9 | 354.9 | 381.0 | 407.7 | 437.5 | 471.0 | 513.1 |
| 140° | 298.3 | 301.3 | 310.5 | 322.9 | 340.1 | 360.8 | 384.9 | 410.0 | 437.3 | 467.0 | 504.7 |
| 142.5° | 306.6 | 308.9 | 317.4 | 329.9 | 346.4 | 365.6 | 388.8 | 412.8 | 437.8 | 465.3 | 497.9 |
| 145° | 317.8 | 321.0 | 328.9 | 340.8 | 356.6 | 374.0 | 395.3 | 417.5 | 439.6 | 463.3 | 490.0 |
| 147.5° | 331.1 | 333.5 | 341.0 | 352.0 | 365.1 | 380.6 | 400.7 | 420.2 | 440.2 | 460.5 | 482.8 |
| 150° | 340.0 | 342.3 | 348.6 | 358.9 | 370.8 | 385.0 | 403.2 | 421.4 | 439.6 | 458.6 | 477.5 |
| 152.5° | 348.8 | 349.9 | 356.2 | 365.3 | 376.5 | 389.4 | 405.8 | 422.0 | 438.3 | 455.4 | 473.1 |
| 155° | 361.3 | 362.1 | 366.9 | 375.6 | 384.2 | 396.1 | 409.6 | 422.9 | 436.4 | 449.9 | 464.9 |
| 157.5° | 371.8 | 372.6 | 376.4 | 383.9 | 390.9 | 400.8 | 412.3 | 422.9 | 432.8 | 444.2 | 457.2 |
| 160° | 378.7 | 379.5 | 382.6 | 389.0 | 395.3 | 404.0 | 413.5 | 422.9 | 430.9 | 440.4 | 451.5 |
| 162.5° | 385.6 | 385.2 | 388.3 | 393.4 | 399.1 | 405.9 | 414.2 | 422.3 | 429.0 | 437.2 | 446.4 |
| 165° | 393.7 | 392.9 | 394.5 | 399.3 | 403.2 | 408.0 | 415.1 | 420.6 | 425.3 | 430.9 | 438.0 |
| 167.5° | 400.4 | 399.4 | 400.8 | 403.9 | 406.7 | 409.7 | 414.9 | 419.5 | 421.7 | 425.3 | 429.8 |
| 170° | 404.8 | 403.2 | 404.0 | 406.4 | 408.0 | 410.4 | 414.3 | 418.3 | 419.9 | 422.2 | 425.3 |
| 172.5° | 407.3 | 406.4 | 405.9 | 408.3 | 409.2 | 411.0 | 413.7 | 416.4 | 417.3 | 418.4 | 421.0 |
| 175° | 410.4 | 409.6 | 408.8 | 410.4 | 410.4 | 411.1 | 412.7 | 414.3 | 413.5 | 414.3 | 415.1 |
| 177.5° | 411.8 | 410.5 | 409.9 | 411.1 | 411.1 | 411.1 | 411.8 | 413.0 | 411.8 | 411.1 | 411.8 |
| 180° | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 |



TEST NUMBER: P331407-927

CATALOG NUMBER: S122DIP-S865D925U927-4F0-1E-UDD-D4

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° | 174.7 | 183.9 | 193.7 | 200.1 | 203.1 | 206.1 | 209.1 | 212.1 |
| 90° | 182.8 | 190.5 | 201.5 | 208.3 | 211.1 | 213.9 | 216.7 | 219.5 |
| 92.5° | 218.4 | 217.8 | 220.3 | 221.4 | 223.6 | 223.9 | 227.3 | 228.8 |
| 95° | 345.8 | 306.4 | 282.1 | 270.5 | 263.1 | 259.5 | 260.0 | 263.6 |
| 97.5° | 612.5 | 533.2 | 456.4 | 405.0 | 369.9 | 353.2 | 344.4 | 340.6 |
| 100° | 844.2 | 754.9 | 655.2 | 565.1 | 502.1 | 470.6 | 450.3 | 438.6 |
| 102.5° | 994.2 | 980.6 | 909.7 | 813.9 | 745.2 | 689.7 | 663.7 | 647.0 |
| 105° | 1067.4 | 1164.9 | 1183.4 | 1162.6 | 1116.2 | 1069.7 | 1038.3 | 1029.8 |
| 107.5° | 998.6 | 1141.1 | 1231.1 | 1274.6 | 1283.3 | 1283.2 | 1279.0 | 1266.9 |
| 110° | 941.6 | 1090.6 | 1199.3 | 1269.2 | 1305.7 | 1323.3 | 1333.0 | 1334.7 |



TEST NUMBER: P331407-927

CATALOG NUMBER: S122DIP-S865D925U927-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 888.9 | 1032.2 | 1147.9 | 1227.2 | 1277.0 | 1304.7 | 1320.7 | 1327.6 |
| 115° | 822.6 | 951.4 | 1062.0 | 1148.2 | 1206.9 | 1245.9 | 1269.0 | 1278.7 |
| 117.5° | 770.5 | 884.3 | 985.2 | 1066.2 | 1125.8 | 1166.6 | 1190.6 | 1199.0 |
| 120° | 743.2 | 847.8 | 938.1 | 1014.6 | 1072.5 | 1112.3 | 1137.8 | 1148.3 |
| 122.5° | 720.7 | 816.9 | 902.6 | 971.8 | 1023.7 | 1062.5 | 1085.1 | 1093.8 |
| 125° | 687.1 | 774.9 | 850.8 | 914.3 | 962.3 | 994.4 | 1016.3 | 1024.7 |
| 127.5° | 654.1 | 733.6 | 804.9 | 863.6 | 905.6 | 935.9 | 955.0 | 962.1 |
| 130° | 632.9 | 706.5 | 774.5 | 830.4 | 871.0 | 899.8 | 917.4 | 925.7 |
| 132.5° | 612.3 | 680.6 | 743.4 | 796.1 | 836.1 | 864.8 | 881.2 | 888.7 |
| 135° | 583.5 | 640.6 | 697.7 | 745.4 | 781.2 | 809.1 | 825.3 | 830.3 |
| 137.5° | 559.3 | 607.2 | 652.9 | 694.5 | 727.1 | 751.1 | 765.2 | 771.5 |
| 140° | 544.1 | 585.7 | 625.8 | 663.2 | 689.9 | 711.9 | 725.1 | 731.3 |
| 142.5° | 532.0 | 567.3 | 601.6 | 632.7 | 658.0 | 677.9 | 689.7 | 691.8 |
| 145° | 515.9 | 543.4 | 569.3 | 593.5 | 613.7 | 628.3 | 637.4 | 640.9 |
| 147.5° | 503.8 | 524.6 | 543.9 | 561.0 | 577.3 | 588.6 | 594.5 | 596.5 |
| 150° | 496.5 | 513.9 | 530.5 | 544.7 | 556.6 | 566.1 | 570.8 | 571.6 |
| 152.5° | 489.6 | 505.6 | 519.8 | 532.1 | 541.4 | 549.6 | 553.1 | 553.3 |
| 155° | 479.9 | 492.6 | 504.4 | 513.1 | 521.8 | 527.4 | 530.5 | 528.9 |
| 157.5° | 468.7 | 479.3 | 489.3 | 496.1 | 502.2 | 506.8 | 508.2 | 508.2 |
| 160° | 461.7 | 470.4 | 479.1 | 484.7 | 490.2 | 494.2 | 495.0 | 495.0 |
| 162.5° | 454.8 | 462.2 | 469.6 | 473.9 | 479.4 | 482.1 | 482.9 | 482.3 |
| 165° | 444.3 | 449.9 | 455.4 | 458.6 | 461.7 | 464.9 | 464.9 | 464.1 |
| 167.5° | 434.4 | 438.6 | 442.4 | 445.3 | 446.7 | 448.5 | 448.3 | 447.3 |
| 170° | 429.3 | 431.7 | 434.8 | 436.4 | 437.2 | 439.6 | 438.8 | 437.2 |
| 172.5° | 423.6 | 425.3 | 427.9 | 428.8 | 429.6 | 430.7 | 429.9 | 429.0 |
| 175° | 417.5 | 418.3 | 419.1 | 419.9 | 419.9 | 420.6 | 419.9 | 418.3 |
| 177.5° | 413.0 | 413.0 | 413.7 | 413.7 | 413.7 | 413.7 | 413.0 | 411.8 |
| 180° | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 | 411.1 |

(END OF REPORT)