

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: P331387-927

Luminaire Tested: **S122DIP-S865D530U927-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331387-927
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: S122DIP-S865D530U927-4F0-1E-UDD-D
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4442.9 lumens
Efficiency: N/A
Efficacy: 91.0 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

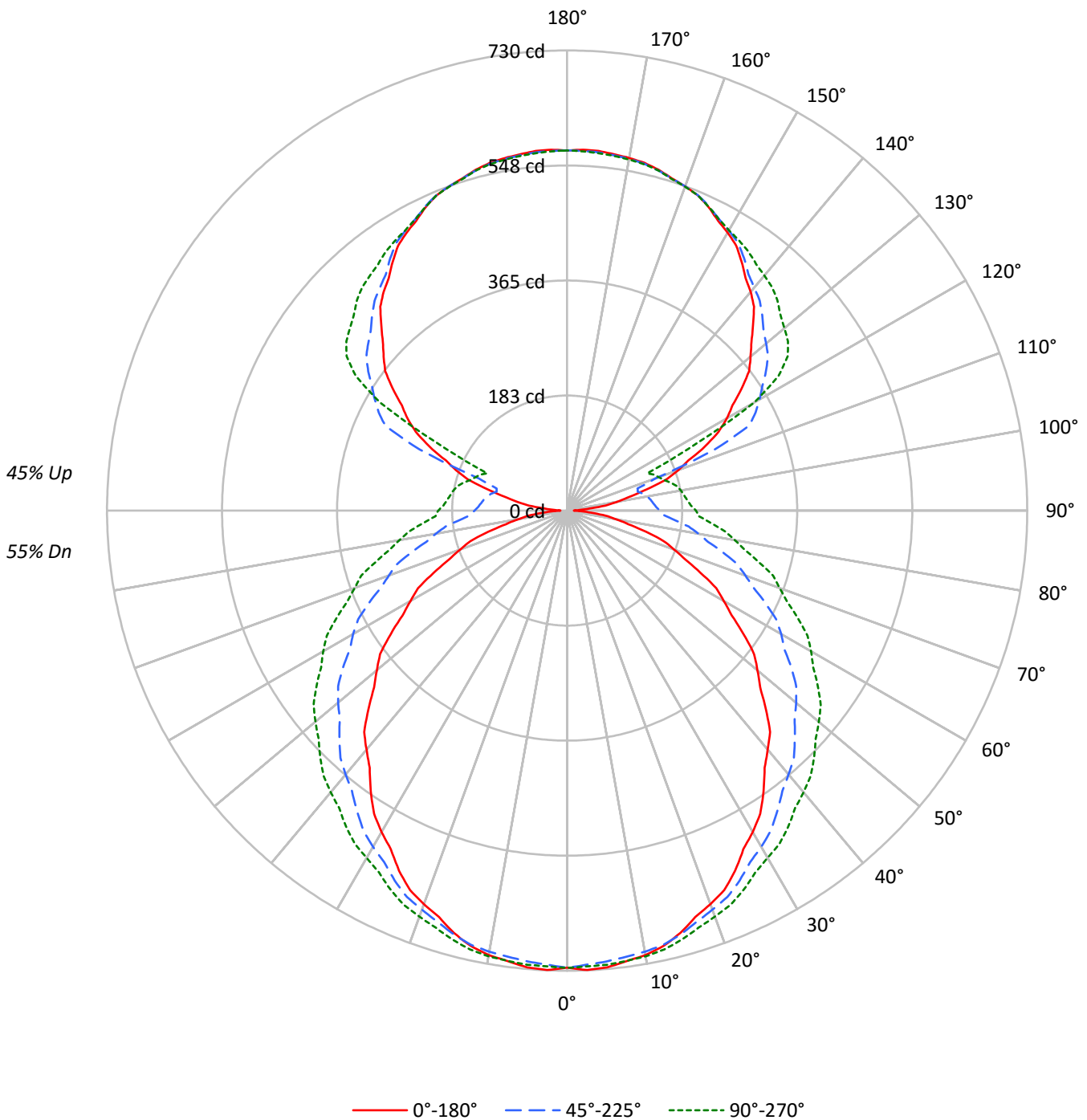
Input Watts (W): 48.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331387-927

CATALOG NUMBER: S122DIP-S865D530U927-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331387-927

CATALOG NUMBER: S122DIP-S865D530U927-4F0-1E-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 | 108 | 108 | 108 | 108 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 | 55 |
| 1 | 97 | 92 | 88 | 84 | 90 | 86 | 82 | 78 | 73 | 70 | 67 | 62 | 60 | 58 | 51 | 50 | 48 | 43 |
| 2 | 88 | 80 | 73 | 67 | 81 | 74 | 68 | 63 | 63 | 59 | 55 | 53 | 50 | 47 | 44 | 42 | 39 | 35 |
| 3 | 80 | 69 | 61 | 55 | 74 | 65 | 57 | 52 | 55 | 50 | 45 | 47 | 42 | 39 | 39 | 35 | 33 | 29 |
| 4 | 73 | 61 | 53 | 46 | 67 | 57 | 49 | 43 | 49 | 43 | 38 | 41 | 37 | 33 | 34 | 31 | 28 | 24 |
| 5 | 67 | 54 | 46 | 39 | 61 | 51 | 43 | 37 | 43 | 37 | 32 | 37 | 32 | 28 | 31 | 27 | 24 | 21 |
| 6 | 61 | 49 | 40 | 34 | 57 | 45 | 38 | 32 | 39 | 33 | 28 | 33 | 28 | 24 | 28 | 24 | 21 | 18 |
| 7 | 57 | 44 | 35 | 29 | 52 | 41 | 33 | 28 | 35 | 29 | 25 | 30 | 25 | 22 | 25 | 21 | 18 | 16 |
| 8 | 53 | 40 | 32 | 26 | 49 | 37 | 30 | 25 | 32 | 26 | 22 | 27 | 23 | 19 | 23 | 19 | 16 | 14 |
| 9 | 49 | 36 | 28 | 23 | 45 | 34 | 27 | 22 | 29 | 24 | 19 | 25 | 20 | 17 | 21 | 18 | 15 | 13 |
| 10 | 46 | 33 | 26 | 21 | 42 | 31 | 24 | 20 | 27 | 21 | 17 | 23 | 19 | 15 | 20 | 16 | 13 | 11 |

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: P331387-927

CATALOG NUMBER: S122DIP-S865D530U927-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.7 | 1.5 |
| 10°-20° | 197.1 | 4.4 |
| 20°-30° | 298.7 | 6.7 |
| 30°-40° | 363.8 | 8.2 |
| 40°-50° | 391.3 | 8.8 |
| 50°-60° | 380.0 | 8.6 |
| 60°-70° | 331.8 | 7.5 |
| 70°-80° | 255.5 | 5.7 |
| 80°-90° | 172.9 | 3.9 |
| 90°-100° | 137.2 | 3.1 |
| 100°-110° | 156.1 | 3.5 |
| 110°-120° | 243.8 | 5.5 |
| 120°-130° | 340.2 | 7.7 |
| 130°-140° | 341.3 | 7.7 |
| 140°-150° | 307.2 | 6.9 |
| 150°-160° | 245.1 | 5.5 |
| 160°-170° | 157.9 | 3.6 |
| 170°-180° | 54.4 | 1.2 |
| 0°-30° | 564.5 | 12.7 |
| 0°-40° | 928.2 | 20.9 |
| 0°-60° | 1699.6 | 38.3 |
| 0°-90° | 2459.8 | 55.4 |
| 90°-120° | 537.1 | 12.1 |
| 90°-150° | 1525.7 | 34.3 |
| 90°-180° | 1983.0 | 44.6 |
| 0°-180° | 4442.9 | 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 | 77 | 147 | 189 | 204 | 8 |
| 95° | 35 | 73 | 137 | 177 | 191 | 40 |
| 105° | 131 | 168 | 116 | 155 | 170 | 140 |
| 115° | 242 | 263 | 318 | 166 | 140 | 238 |
| 125° | 338 | 346 | 385 | 415 | 427 | 302 |
| 135° | 417 | 424 | 438 | 463 | 472 | 322 |
| 145° | 482 | 482 | 489 | 498 | 502 | 302 |
| 155° | 531 | 528 | 532 | 535 | 532 | 245 |
| 165° | 560 | 558 | 558 | 561 | 558 | 158 |
| 175° | 573 | 570 | 570 | 573 | 569 | 54 |
| 180° | 571 | 571 | 571 | 571 | 571 | |



TEST NUMBER: P331387-927

CATALOG NUMBER: S122DIP-S865D530U927-4F0-1E-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 | 49.0 | 63.1 | 77.2 | 91.8 | 106.9 | 122.0 | 137.0 | 152.2 | 161.8 |
| 90° | 10.9 | 25.5 | 40.0 | 54.6 | 69.2 | 84.3 | 100.0 | 115.7 | 131.3 | 147.0 | 156.9 |
| 92.5° | 18.0 | 30.6 | 43.1 | 55.6 | 68.1 | 81.8 | 96.5 | 111.3 | 126.0 | 140.8 | 150.2 |
| 95° | 35.3 | 43.3 | 51.2 | 59.1 | 67.1 | 78.3 | 93.0 | 107.7 | 122.3 | 137.0 | 146.3 |
| 97.5° | 60.7 | 61.9 | 63.1 | 64.3 | 65.6 | 73.7 | 88.6 | 103.5 | 118.5 | 133.4 | 142.4 |
| 100° | 80.6 | 76.6 | 72.6 | 68.7 | 64.7 | 70.1 | 84.8 | 99.4 | 114.1 | 128.7 | 138.1 |
| 102.5° | 101.6 | 106.8 | 112.0 | 117.2 | 122.5 | 124.8 | 124.5 | 124.1 | 123.8 | 123.4 | 132.8 |
| 105° | 130.9 | 140.5 | 150.0 | 159.5 | 169.1 | 167.4 | 154.4 | 141.5 | 128.6 | 115.7 | 124.8 |
| 107.5° | 165.7 | 173.3 | 181.0 | 188.6 | 196.3 | 190.8 | 172.5 | 154.0 | 135.5 | 117.1 | 123.9 |
| 110° | 187.4 | 193.9 | 200.6 | 207.2 | 213.7 | 209.5 | 194.4 | 179.3 | 164.2 | 149.1 | 147.3 |



TEST NUMBER: P331387-927

CATALOG NUMBER: S122DIP-S865D530U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 208.5 | 214.1 | 219.8 | 225.4 | 231.1 | 236.0 | 240.3 | 244.7 | 249.0 | 253.3 | 227.3 |
| 115° | 241.9 | 246.1 | 250.2 | 254.3 | 258.4 | 266.9 | 279.7 | 292.6 | 305.3 | 318.1 | 282.7 |
| 117.5° | 270.7 | 274.2 | 277.6 | 281.0 | 284.4 | 291.8 | 303.1 | 314.4 | 325.7 | 337.0 | 333.6 |
| 120° | 292.6 | 294.9 | 297.1 | 299.4 | 301.8 | 308.5 | 319.4 | 330.4 | 341.4 | 352.4 | 360.0 |
| 122.5° | 311.1 | 312.9 | 314.7 | 316.6 | 318.4 | 324.6 | 335.2 | 345.7 | 356.3 | 366.9 | 373.9 |
| 125° | 338.2 | 339.4 | 340.6 | 341.8 | 343.0 | 348.2 | 357.4 | 366.6 | 375.9 | 385.1 | 392.1 |
| 127.5° | 363.8 | 364.9 | 365.9 | 367.0 | 368.1 | 372.3 | 379.7 | 387.0 | 394.3 | 401.6 | 408.4 |
| 130° | 379.9 | 381.2 | 382.5 | 383.7 | 384.9 | 388.5 | 394.4 | 400.3 | 406.2 | 412.2 | 418.7 |
| 132.5° | 396.5 | 397.5 | 398.5 | 399.6 | 400.5 | 403.5 | 408.3 | 413.0 | 417.9 | 422.6 | 429.0 |
| 135° | 416.9 | 418.4 | 419.9 | 421.4 | 422.8 | 425.2 | 428.3 | 431.5 | 434.7 | 437.8 | 443.6 |
| 137.5° | 438.7 | 439.7 | 440.7 | 441.6 | 442.6 | 444.1 | 446.1 | 448.1 | 450.0 | 451.9 | 457.2 |
| 140° | 452.9 | 453.4 | 453.9 | 454.4 | 455.0 | 455.9 | 457.4 | 458.8 | 460.3 | 461.8 | 466.4 |
| 142.5° | 464.9 | 465.2 | 465.6 | 466.1 | 466.5 | 467.4 | 468.7 | 469.8 | 471.1 | 472.4 | 476.1 |
| 145° | 482.4 | 482.4 | 482.3 | 482.2 | 482.1 | 482.8 | 484.4 | 485.9 | 487.5 | 489.1 | 491.2 |
| 147.5° | 498.8 | 498.4 | 498.0 | 497.7 | 497.3 | 498.0 | 499.5 | 501.1 | 502.6 | 504.1 | 504.8 |
| 150° | 509.3 | 508.7 | 508.0 | 507.4 | 506.8 | 507.2 | 508.7 | 510.1 | 511.6 | 513.0 | 513.6 |
| 152.5° | 518.2 | 517.5 | 516.8 | 516.1 | 515.4 | 515.7 | 517.1 | 518.6 | 519.9 | 521.3 | 521.9 |
| 155° | 531.2 | 530.4 | 529.6 | 528.8 | 527.9 | 528.1 | 529.2 | 530.3 | 531.4 | 532.5 | 533.1 |
| 157.5° | 541.4 | 540.7 | 540.0 | 539.3 | 538.6 | 538.7 | 539.4 | 540.2 | 541.0 | 541.8 | 542.3 |
| 160° | 547.4 | 546.8 | 546.3 | 545.7 | 545.2 | 545.2 | 545.7 | 546.3 | 546.8 | 547.4 | 548.0 |
| 162.5° | 552.6 | 552.1 | 551.5 | 551.0 | 550.5 | 550.4 | 550.9 | 551.4 | 551.8 | 552.3 | 552.9 |
| 165° | 559.8 | 559.2 | 558.6 | 558.1 | 557.5 | 557.5 | 557.7 | 557.9 | 558.3 | 558.5 | 559.2 |
| 167.5° | 565.1 | 564.5 | 564.0 | 563.4 | 562.8 | 562.7 | 562.9 | 563.2 | 563.5 | 563.7 | 564.4 |
| 170° | 568.0 | 567.5 | 567.0 | 566.4 | 565.9 | 565.6 | 565.9 | 566.0 | 566.2 | 566.4 | 567.0 |
| 172.5° | 570.1 | 569.5 | 568.9 | 568.4 | 567.8 | 567.6 | 567.8 | 568.0 | 568.2 | 568.4 | 569.0 |
| 175° | 572.6 | 572.0 | 571.3 | 570.7 | 570.0 | 569.8 | 570.0 | 570.1 | 570.3 | 570.5 | 571.2 |
| 177.5° | 573.0 | 572.5 | 572.0 | 571.5 | 570.9 | 570.7 | 570.8 | 570.8 | 570.9 | 571.0 | 571.6 |
| 180° | 571.3 | 571.3 | 571.3 | 571.3 | 571.3 | 571.3 | 571.3 | 571.3 | 571.3 | 571.3 | 571.3 |



TEST NUMBER: P331387-927

CATALOG NUMBER: S122DIP-S865D530U927-4F0-1E-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° | 171.4 | 181.0 | 190.7 | 197.0 | 200.0 | 203.0 | 206.0 | 209.1 |
| 90° | 166.6 | 176.4 | 186.2 | 192.7 | 195.6 | 198.6 | 201.6 | 204.5 |
| 92.5° | 159.5 | 169.0 | 178.4 | 184.5 | 187.4 | 190.4 | 193.3 | 196.1 |
| 95° | 155.7 | 165.0 | 174.4 | 180.4 | 183.1 | 185.8 | 188.5 | 191.2 |
| 97.5° | 151.5 | 160.5 | 169.4 | 175.4 | 178.2 | 181.2 | 184.0 | 186.9 |
| 100° | 147.4 | 156.9 | 166.2 | 172.3 | 175.0 | 177.8 | 180.5 | 183.3 |
| 102.5° | 142.3 | 151.7 | 161.1 | 167.2 | 170.1 | 172.9 | 175.7 | 178.6 |
| 105° | 134.0 | 143.1 | 152.3 | 158.4 | 161.4 | 164.3 | 167.2 | 170.2 |
| 107.5° | 130.7 | 137.5 | 144.3 | 149.2 | 152.2 | 155.1 | 158.0 | 161.0 |
| 110° | 145.7 | 143.9 | 142.3 | 142.8 | 145.8 | 148.7 | 151.6 | 154.6 |



TEST NUMBER: P331387-927

CATALOG NUMBER: S122DIP-S865D530U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 201.2 | 175.2 | 149.2 | 137.6 | 140.5 | 143.3 | 146.2 | 149.0 |
| 115° | 247.1 | 211.6 | 176.0 | 156.2 | 152.2 | 148.1 | 144.1 | 140.1 |
| 117.5° | 330.3 | 326.9 | 323.4 | 312.1 | 292.8 | 273.4 | 254.1 | 234.7 |
| 120° | 367.7 | 375.3 | 383.0 | 381.9 | 372.1 | 362.3 | 352.4 | 342.6 |
| 122.5° | 381.0 | 387.9 | 395.0 | 398.4 | 398.2 | 397.9 | 397.8 | 397.5 |
| 125° | 398.9 | 405.9 | 412.9 | 417.6 | 419.9 | 422.3 | 424.7 | 427.1 |
| 127.5° | 415.1 | 421.8 | 428.6 | 433.0 | 435.1 | 437.2 | 439.3 | 441.4 |
| 130° | 425.4 | 432.0 | 438.6 | 442.8 | 444.6 | 446.4 | 448.1 | 450.0 |
| 132.5° | 435.2 | 441.5 | 447.7 | 451.8 | 453.6 | 455.3 | 457.2 | 458.9 |
| 135° | 449.4 | 455.3 | 461.1 | 464.9 | 466.5 | 468.2 | 469.9 | 471.6 |
| 137.5° | 462.3 | 467.5 | 472.8 | 476.0 | 477.3 | 478.6 | 479.8 | 481.1 |
| 140° | 471.0 | 475.5 | 480.1 | 482.8 | 483.8 | 484.7 | 485.7 | 486.6 |
| 142.5° | 479.8 | 483.6 | 487.4 | 489.6 | 490.4 | 491.1 | 491.9 | 492.7 |
| 145° | 493.1 | 495.2 | 497.3 | 498.6 | 499.3 | 500.0 | 500.7 | 501.5 |
| 147.5° | 505.4 | 506.1 | 506.8 | 507.2 | 507.4 | 507.6 | 507.7 | 507.9 |
| 150° | 514.1 | 514.7 | 515.2 | 515.3 | 514.8 | 514.4 | 513.9 | 513.5 |
| 152.5° | 522.4 | 523.0 | 523.6 | 523.5 | 522.9 | 522.3 | 521.7 | 521.1 |
| 155° | 533.6 | 534.2 | 534.7 | 534.6 | 533.9 | 533.1 | 532.4 | 531.6 |
| 157.5° | 543.0 | 543.6 | 544.2 | 544.2 | 543.4 | 542.7 | 542.0 | 541.3 |
| 160° | 548.4 | 549.0 | 549.5 | 549.5 | 548.9 | 548.3 | 547.6 | 546.9 |
| 162.5° | 553.6 | 554.2 | 554.8 | 554.8 | 554.0 | 553.2 | 552.4 | 551.6 |
| 165° | 559.8 | 560.5 | 561.1 | 561.1 | 560.5 | 559.8 | 559.2 | 558.5 |
| 167.5° | 565.0 | 565.7 | 566.3 | 566.3 | 565.4 | 564.6 | 563.7 | 562.9 |
| 170° | 567.7 | 568.3 | 568.9 | 568.9 | 568.0 | 567.2 | 566.4 | 565.5 |
| 172.5° | 569.7 | 570.3 | 570.9 | 570.8 | 570.1 | 569.2 | 568.4 | 567.5 |
| 175° | 571.8 | 572.4 | 573.1 | 573.0 | 572.0 | 571.1 | 570.2 | 569.3 |
| 177.5° | 572.0 | 572.6 | 573.1 | 573.0 | 572.4 | 571.6 | 571.0 | 570.4 |
| 180° | 571.3 | 571.3 | 571.3 | 571.3 | 571.3 | 571.3 | 571.3 | 571.3 |

(END OF REPORT)