

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: P331407-840

Luminaire Tested: **S122DIP-S865D925U840-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331407-840
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-S865D925U840-4F0-1E-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: 7179.3 lumens
Efficiency: N/A
Efficacy: 118.7 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

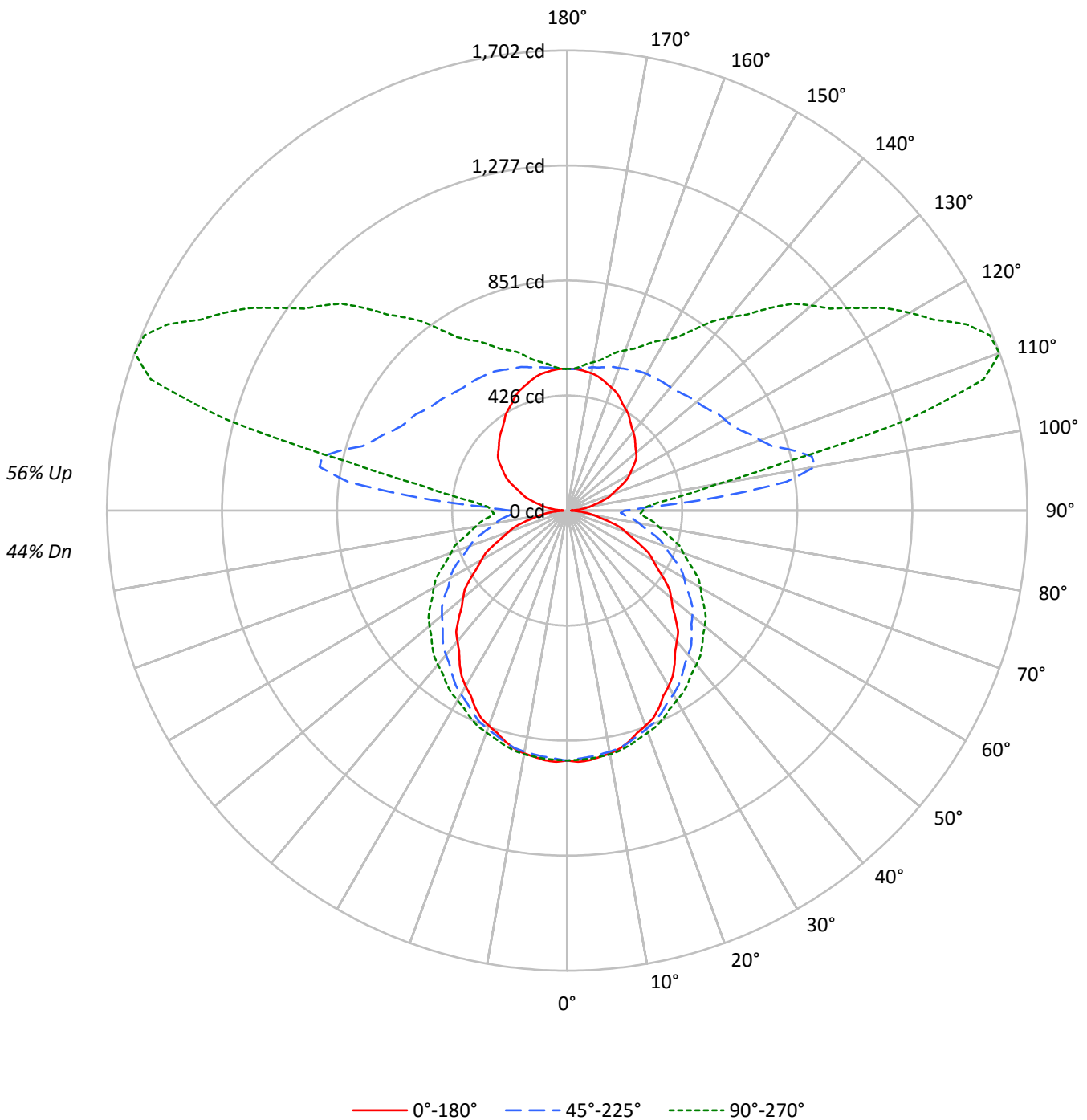
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331407-840

CATALOG NUMBER: S122DIP-S865D925U840-4F0-1E-UDD-D4

Luminous Intensity Polar Plot





TEST NUMBER: P331407-840

CATALOG NUMBER: S122DIP-S865D925U840-4F0-1E-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° | 14928 | 14928 | 14928 |
| 5° | 15002 | 14370 | 14315 |
| 10° | 14907 | 13945 | 13789 |
| 15° | 14701 | 13496 | 13236 |
| 20° | 14442 | 13015 | 12701 |
| 25° | 14187 | 12551 | 12216 |
| 30° | 13824 | 12074 | 11729 |
| 35° | 13459 | 11611 | 11386 |
| 40° | 13075 | 11219 | 11044 |
| 45° | 12709 | 10869 | 10750 |
| 50° | 12316 | 10551 | 10462 |
| 55° | 11908 | 10209 | 10166 |
| 60° | 11404 | 9856 | 9857 |
| 65° | 10880 | 9439 | 9485 |
| 70° | 10292 | 8992 | 9089 |
| 75° | 9539 | 8554 | 8722 |
| 80° | 8357 | 8107 | 8349 |
| 85° | 7227 | 7720 | 8061 |



TEST NUMBER: P331407-840

CATALOG NUMBER: S122DIP-S865D925U840-4F0-1E-UDD-D4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.6 | 1.2 |
| 10°-20° | 251.2 | 3.5 |
| 20°-30° | 380.7 | 5.3 |
| 30°-40° | 463.7 | 6.5 |
| 40°-50° | 498.9 | 6.9 |
| 50°-60° | 484.5 | 6.7 |
| 60°-70° | 423.0 | 5.9 |
| 70°-80° | 325.7 | 4.5 |
| 80°-90° | 223.3 | 3.1 |
| 90°-100° | 360.1 | 5.0 |
| 100°-110° | 821.1 | 11.4 |
| 110°-120° | 828.1 | 11.5 |
| 120°-130° | 662.4 | 9.2 |
| 130°-140° | 516.4 | 7.2 |
| 140°-150° | 380.4 | 5.3 |
| 150°-160° | 265.2 | 3.7 |
| 160°-170° | 156.1 | 2.2 |
| 170°-180° | 50.8 | 0.7 |
| 0°-30° | 719.6 | 10.0 |
| 0°-40° | 1183.3 | 16.5 |
| 0°-60° | 2166.6 | 30.2 |
| 0°-90° | 3138.6 | 43.7 |
| 90°-120° | 2009.3 | 28.0 |
| 90°-150° | 3568.5 | 49.7 |
| 90°-180° | 4041.0 | 56.3 |
| 0°-180° | 7179.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 925 | 925 | 925 | 925 | 925 | |
| 5° | 927 | 923 | 915 | 923 | 922 | 88 |
| 15° | 884 | 887 | 887 | 898 | 898 | 249 |
| 25° | 804 | 814 | 826 | 841 | 846 | 369 |
| 35° | 693 | 716 | 741 | 769 | 780 | 433 |
| 45° | 568 | 605 | 651 | 691 | 706 | 438 |
| 55° | 436 | 485 | 553 | 600 | 619 | 389 |
| 65° | 298 | 364 | 442 | 495 | 514 | 295 |
| 75° | 165 | 240 | 326 | 381 | 401 | 174 |
| 85° | 48 | 132 | 217 | 271 | 292 | 52 |
| 90° | 14 | 105 | 211 | 261 | 280 | 11 |
| 95° | 46 | 161 | 549 | 352 | 336 | 46 |
| 105° | 130 | 233 | 862 | 1495 | 1313 | 138 |
| 115° | 222 | 296 | 705 | 1409 | 1630 | 220 |
| 125° | 305 | 363 | 646 | 1125 | 1306 | 271 |
| 135° | 356 | 425 | 608 | 920 | 1058 | 276 |
| 145° | 405 | 466 | 591 | 741 | 817 | 255 |
| 155° | 461 | 497 | 574 | 649 | 674 | 212 |
| 165° | 502 | 517 | 549 | 583 | 592 | 141 |
| 175° | 523 | 524 | 528 | 535 | 533 | 50 |
| 180° | 524 | 524 | 524 | 524 | 524 | |



TEST NUMBER: P331407-840

CATALOG NUMBER: S122DIP-S865D925U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0° | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 |
| 2.5° | 930.0 | 929.3 | 928.6 | 927.9 | 927.2 | 925.9 | 924.2 | 922.6 | 920.9 | 919.3 | 920.5 |
| 5° | 927.3 | 926.5 | 925.5 | 924.6 | 923.7 | 922.4 | 920.6 | 918.8 | 917.1 | 915.2 | 917.1 |
| 7.5° | 919.0 | 918.4 | 917.8 | 917.3 | 916.7 | 915.6 | 914.2 | 912.9 | 911.5 | 910.2 | 912.3 |
| 10° | 912.6 | 912.0 | 911.4 | 910.8 | 910.2 | 909.5 | 908.6 | 907.7 | 906.8 | 905.8 | 908.3 |
| 12.5° | 901.8 | 902.0 | 902.1 | 902.2 | 902.3 | 902.0 | 901.4 | 900.7 | 900.1 | 899.4 | 901.8 |
| 15° | 884.4 | 885.0 | 885.7 | 886.3 | 886.8 | 887.1 | 887.1 | 887.1 | 887.1 | 887.1 | 889.8 |
| 17.5° | 861.9 | 863.1 | 864.4 | 865.7 | 866.9 | 868.0 | 869.0 | 869.9 | 870.9 | 871.8 | 874.6 |
| 20° | 846.9 | 848.4 | 849.9 | 851.4 | 852.8 | 854.2 | 855.4 | 856.6 | 857.8 | 859.0 | 862.2 |
| 22.5° | 830.8 | 832.5 | 834.2 | 836.0 | 837.7 | 839.4 | 841.1 | 842.7 | 844.4 | 846.1 | 849.4 |
| 25° | 804.1 | 806.1 | 808.2 | 810.3 | 812.3 | 814.8 | 817.4 | 820.1 | 822.7 | 825.5 | 829.0 |
| 27.5° | 771.8 | 775.3 | 778.6 | 782.0 | 785.5 | 788.7 | 791.8 | 795.1 | 798.2 | 801.3 | 805.9 |
| 30° | 750.4 | 754.3 | 758.2 | 762.0 | 765.9 | 769.8 | 773.7 | 777.5 | 781.4 | 785.3 | 790.0 |
| 32.5° | 726.8 | 731.1 | 735.5 | 739.9 | 744.3 | 748.7 | 753.3 | 757.9 | 762.4 | 767.0 | 772.5 |
| 35° | 692.8 | 697.8 | 703.0 | 708.0 | 713.1 | 718.4 | 724.1 | 729.7 | 735.4 | 741.0 | 747.6 |
| 37.5° | 655.8 | 661.7 | 667.5 | 673.3 | 679.1 | 685.7 | 693.1 | 700.4 | 707.7 | 715.1 | 722.4 |
| 40° | 631.2 | 637.7 | 644.3 | 650.9 | 657.3 | 664.7 | 672.7 | 680.8 | 688.8 | 696.8 | 704.6 |
| 42.5° | 607.5 | 614.1 | 620.7 | 627.2 | 633.8 | 641.7 | 650.9 | 660.1 | 669.3 | 678.6 | 687.0 |
| 45° | 568.2 | 576.2 | 584.2 | 592.3 | 600.4 | 609.6 | 620.0 | 630.5 | 640.9 | 651.3 | 660.5 |
| 47.5° | 529.3 | 538.1 | 546.8 | 555.6 | 564.3 | 574.8 | 587.0 | 599.3 | 611.5 | 623.7 | 633.3 |
| 50° | 502.5 | 511.7 | 521.0 | 530.2 | 539.5 | 550.8 | 564.1 | 577.5 | 591.0 | 604.4 | 614.5 |
| 52.5° | 476.8 | 486.5 | 496.2 | 505.9 | 515.6 | 527.6 | 541.7 | 555.7 | 569.9 | 584.0 | 594.3 |
| 55° | 435.6 | 446.3 | 457.0 | 467.7 | 478.4 | 491.5 | 507.0 | 522.5 | 538.0 | 553.4 | 564.1 |
| 57.5° | 394.8 | 406.9 | 419.0 | 431.0 | 443.1 | 457.1 | 472.8 | 488.7 | 504.4 | 520.2 | 531.8 |
| 60° | 365.9 | 378.6 | 391.4 | 404.2 | 417.1 | 431.9 | 448.9 | 465.9 | 482.8 | 499.9 | 511.2 |
| 62.5° | 340.1 | 353.4 | 366.7 | 379.9 | 393.2 | 408.4 | 425.4 | 442.3 | 459.3 | 476.3 | 488.3 |
| 65° | 297.5 | 312.0 | 326.7 | 341.2 | 355.9 | 371.9 | 389.5 | 407.1 | 424.6 | 442.2 | 454.4 |
| 67.5° | 258.3 | 273.6 | 288.8 | 304.1 | 319.3 | 336.0 | 354.0 | 371.9 | 389.9 | 407.9 | 420.2 |
| 70° | 230.5 | 246.0 | 261.5 | 276.9 | 292.5 | 309.4 | 327.9 | 346.3 | 364.8 | 383.2 | 396.1 |
| 72.5° | 204.8 | 220.8 | 236.7 | 252.7 | 268.6 | 285.9 | 304.7 | 323.4 | 342.0 | 360.7 | 373.3 |
| 75° | 164.8 | 181.5 | 198.1 | 214.9 | 231.6 | 249.4 | 268.4 | 287.5 | 306.6 | 325.6 | 338.4 |
| 77.5° | 126.2 | 143.7 | 161.2 | 178.5 | 196.0 | 214.4 | 233.8 | 253.2 | 272.5 | 291.9 | 304.6 |
| 80° | 100.5 | 118.7 | 136.8 | 155.0 | 173.2 | 191.9 | 211.3 | 230.7 | 249.9 | 269.3 | 281.9 |
| 82.5° | 79.1 | 96.9 | 114.9 | 132.8 | 150.8 | 169.6 | 189.1 | 208.7 | 228.3 | 247.9 | 260.4 |
| 85° | 48.3 | 66.8 | 85.1 | 103.6 | 122.1 | 140.9 | 159.9 | 178.9 | 198.0 | 217.1 | 229.6 |
| 87.5° | 26.5 | 44.8 | 63.4 | 81.5 | 99.7 | 118.7 | 138.8 | 159.3 | 179.5 | 198.7 | 210.7 |
| 90° | 14.4 | 34.7 | 56.0 | 75.3 | 94.6 | 115.7 | 139.9 | 166.0 | 191.1 | 211.2 | 222.1 |
| 92.5° | 24.6 | 46.2 | 69.5 | 90.0 | 112.9 | 139.7 | 180.8 | 231.2 | 278.1 | 298.2 | 289.5 |
| 95° | 45.9 | 64.0 | 88.1 | 111.2 | 141.3 | 181.4 | 245.6 | 351.2 | 485.9 | 549.2 | 511.1 |
| 97.5° | 66.9 | 84.7 | 107.9 | 134.0 | 165.0 | 207.2 | 282.7 | 421.9 | 633.4 | 817.1 | 861.1 |
| 100° | 86.9 | 101.0 | 121.1 | 148.2 | 179.5 | 221.5 | 291.5 | 431.2 | 665.6 | 930.2 | 1086.4 |
| 102.5° | 104.4 | 116.7 | 135.9 | 162.1 | 193.1 | 234.5 | 300.0 | 425.5 | 643.3 | 926.8 | 1165.7 |
| 105° | 129.7 | 142.3 | 158.0 | 181.8 | 212.6 | 252.9 | 315.7 | 420.9 | 602.7 | 862.1 | 1140.6 |
| 107.5° | 158.4 | 168.5 | 182.3 | 203.1 | 232.0 | 271.4 | 332.0 | 425.2 | 577.4 | 793.9 | 1040.7 |
| 110° | 176.7 | 186.7 | 198.6 | 217.7 | 244.9 | 284.4 | 343.4 | 430.5 | 568.0 | 760.0 | 978.2 |



TEST NUMBER: P331407-840

CATALOG NUMBER: S122DIP-S865D925U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 194.4 | 203.5 | 215.3 | 232.7 | 258.0 | 297.5 | 354.1 | 436.5 | 562.0 | 734.8 | 931.9 |
| 115° | 222.1 | 230.4 | 239.6 | 255.1 | 278.5 | 314.1 | 370.8 | 445.7 | 556.8 | 705.3 | 873.4 |
| 117.5° | 249.3 | 255.5 | 263.7 | 276.5 | 298.0 | 333.6 | 386.0 | 456.1 | 554.1 | 684.8 | 832.1 |
| 120° | 267.1 | 272.3 | 279.5 | 289.8 | 311.1 | 345.9 | 397.2 | 463.4 | 553.0 | 672.8 | 809.1 |
| 122.5° | 284.0 | 287.7 | 294.3 | 304.6 | 325.2 | 360.1 | 408.2 | 469.8 | 552.9 | 663.1 | 788.7 |
| 125° | 305.1 | 308.1 | 314.1 | 326.2 | 346.4 | 379.3 | 425.2 | 480.1 | 552.1 | 646.2 | 758.1 |
| 127.5° | 322.8 | 326.5 | 334.7 | 347.7 | 366.8 | 399.5 | 442.4 | 490.8 | 552.9 | 633.2 | 729.6 |
| 130° | 333.3 | 337.0 | 346.8 | 360.6 | 380.4 | 411.6 | 453.1 | 497.8 | 554.4 | 625.1 | 710.9 |
| 132.5° | 343.0 | 347.5 | 358.1 | 372.6 | 393.3 | 423.8 | 462.3 | 504.6 | 555.8 | 617.9 | 694.6 |
| 135° | 356.1 | 360.1 | 372.2 | 387.4 | 410.5 | 440.2 | 475.4 | 513.7 | 557.0 | 608.3 | 672.1 |
| 137.5° | 369.8 | 374.6 | 386.7 | 402.7 | 425.7 | 452.4 | 485.6 | 519.8 | 557.7 | 600.4 | 654.1 |
| 140° | 380.3 | 384.1 | 395.9 | 411.6 | 433.5 | 459.9 | 490.7 | 522.6 | 557.4 | 595.3 | 643.4 |
| 142.5° | 390.8 | 393.7 | 404.7 | 420.5 | 441.6 | 466.1 | 495.6 | 526.2 | 558.2 | 593.2 | 634.7 |
| 145° | 405.2 | 409.2 | 419.3 | 434.4 | 454.5 | 476.8 | 503.9 | 532.2 | 560.4 | 590.6 | 624.7 |
| 147.5° | 422.1 | 425.2 | 434.7 | 448.7 | 465.4 | 485.2 | 510.8 | 535.6 | 561.2 | 587.0 | 615.4 |
| 150° | 433.4 | 436.4 | 444.4 | 457.6 | 472.7 | 490.8 | 514.0 | 537.1 | 560.4 | 584.6 | 608.7 |
| 152.5° | 444.6 | 446.1 | 454.1 | 465.6 | 480.0 | 496.4 | 517.3 | 538.0 | 558.8 | 580.6 | 603.1 |
| 155° | 460.6 | 461.6 | 467.7 | 478.8 | 489.8 | 504.9 | 522.1 | 539.2 | 556.3 | 573.5 | 592.6 |
| 157.5° | 473.9 | 474.9 | 479.8 | 489.4 | 498.3 | 511.0 | 525.5 | 539.2 | 551.7 | 566.2 | 582.8 |
| 160° | 482.8 | 483.8 | 487.8 | 495.8 | 503.9 | 515.0 | 527.1 | 539.2 | 549.3 | 561.4 | 575.5 |
| 162.5° | 491.6 | 491.0 | 495.0 | 501.5 | 508.8 | 517.5 | 528.0 | 538.4 | 546.8 | 557.3 | 569.1 |
| 165° | 501.9 | 500.9 | 502.9 | 509.0 | 514.0 | 520.1 | 529.2 | 536.2 | 542.2 | 549.3 | 558.4 |
| 167.5° | 510.4 | 509.2 | 511.0 | 514.8 | 518.5 | 522.3 | 529.0 | 534.8 | 537.6 | 542.2 | 547.9 |
| 170° | 516.0 | 514.0 | 515.0 | 518.1 | 520.1 | 523.1 | 528.2 | 533.2 | 535.2 | 538.2 | 542.2 |
| 172.5° | 519.3 | 518.1 | 517.5 | 520.5 | 521.7 | 523.9 | 527.4 | 530.8 | 532.0 | 533.4 | 536.6 |
| 175° | 523.1 | 522.1 | 521.1 | 523.1 | 523.1 | 524.1 | 526.1 | 528.2 | 527.1 | 528.2 | 529.2 |
| 177.5° | 524.9 | 523.3 | 522.5 | 524.1 | 524.1 | 524.1 | 524.9 | 526.5 | 524.9 | 524.1 | 524.9 |
| 180° | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 |



TEST NUMBER: P331407-840

CATALOG NUMBER: S122DIP-S865D925U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 |
| 2.5° | 921.6 | 922.8 | 924.0 | 924.4 | 923.9 | 923.4 | 922.9 | 922.5 |
| 5° | 918.8 | 920.6 | 922.4 | 923.1 | 922.8 | 922.5 | 922.2 | 921.9 |
| 7.5° | 914.4 | 916.6 | 918.8 | 919.7 | 919.4 | 919.1 | 918.8 | 918.5 |
| 10° | 910.6 | 913.0 | 915.4 | 916.5 | 916.1 | 915.8 | 915.5 | 915.2 |
| 12.5° | 904.2 | 906.6 | 909.0 | 910.0 | 909.7 | 909.4 | 909.1 | 908.8 |
| 15° | 892.4 | 895.1 | 897.9 | 899.0 | 898.7 | 898.4 | 898.1 | 897.9 |
| 17.5° | 877.5 | 880.2 | 883.0 | 884.4 | 884.4 | 884.4 | 884.4 | 884.4 |
| 20° | 865.6 | 868.8 | 872.0 | 873.7 | 873.7 | 873.7 | 873.7 | 873.7 |
| 22.5° | 852.6 | 856.0 | 859.2 | 861.1 | 861.5 | 862.0 | 862.5 | 863.0 |
| 25° | 832.6 | 836.2 | 839.8 | 842.0 | 842.8 | 843.7 | 844.7 | 845.6 |
| 27.5° | 810.4 | 815.0 | 819.4 | 822.0 | 822.7 | 823.3 | 824.0 | 824.7 |
| 30° | 794.8 | 799.5 | 804.4 | 807.2 | 808.0 | 808.9 | 809.8 | 810.7 |
| 32.5° | 778.0 | 783.5 | 788.9 | 792.5 | 794.1 | 795.7 | 797.3 | 798.9 |
| 35° | 754.2 | 760.7 | 767.3 | 771.5 | 773.7 | 775.8 | 777.8 | 779.9 |
| 37.5° | 729.5 | 736.8 | 744.1 | 748.8 | 751.0 | 753.3 | 755.5 | 757.7 |
| 40° | 712.3 | 720.0 | 727.8 | 733.0 | 735.7 | 738.3 | 741.0 | 743.8 |
| 42.5° | 695.5 | 704.0 | 712.5 | 718.0 | 720.6 | 723.4 | 726.0 | 728.7 |
| 45° | 669.7 | 678.9 | 688.2 | 694.3 | 697.3 | 700.2 | 703.3 | 706.2 |
| 47.5° | 643.0 | 652.6 | 662.3 | 668.7 | 672.0 | 675.3 | 678.5 | 681.9 |
| 50° | 624.6 | 634.7 | 644.9 | 651.6 | 654.8 | 658.1 | 661.4 | 664.7 |
| 52.5° | 604.7 | 615.1 | 625.4 | 632.4 | 635.9 | 639.4 | 642.9 | 646.4 |
| 55° | 574.9 | 585.6 | 596.3 | 603.6 | 607.4 | 611.4 | 615.2 | 619.0 |
| 57.5° | 543.3 | 554.8 | 566.4 | 574.2 | 578.0 | 582.0 | 585.9 | 589.9 |
| 60° | 522.5 | 533.8 | 545.1 | 552.8 | 557.0 | 561.2 | 565.3 | 569.6 |
| 62.5° | 500.3 | 512.3 | 524.3 | 532.4 | 536.2 | 540.2 | 544.1 | 548.1 |
| 65° | 466.7 | 478.9 | 491.1 | 499.1 | 502.9 | 506.9 | 510.7 | 514.5 |
| 67.5° | 432.5 | 444.8 | 457.3 | 465.4 | 469.5 | 473.5 | 477.6 | 481.6 |
| 70° | 408.9 | 421.6 | 434.4 | 442.6 | 446.3 | 449.8 | 453.4 | 457.0 |
| 72.5° | 385.9 | 398.4 | 411.0 | 419.4 | 423.7 | 428.0 | 432.3 | 436.6 |
| 75° | 351.2 | 364.1 | 376.9 | 385.2 | 389.1 | 392.9 | 396.8 | 400.7 |
| 77.5° | 317.4 | 330.1 | 342.8 | 351.3 | 355.5 | 359.6 | 363.9 | 368.0 |
| 80° | 294.4 | 306.9 | 319.4 | 327.7 | 331.8 | 336.1 | 340.2 | 344.4 |
| 82.5° | 273.0 | 285.4 | 297.9 | 306.2 | 310.1 | 314.0 | 317.9 | 321.8 |
| 85° | 242.1 | 254.6 | 267.1 | 275.5 | 279.6 | 283.8 | 287.9 | 292.2 |
| 87.5° | 222.7 | 234.4 | 246.9 | 255.1 | 258.9 | 262.8 | 266.6 | 270.3 |
| 90° | 233.0 | 242.9 | 256.8 | 265.5 | 269.1 | 272.7 | 276.3 | 279.8 |
| 92.5° | 278.4 | 277.6 | 280.8 | 282.3 | 285.0 | 285.4 | 289.7 | 291.6 |
| 95° | 440.8 | 390.6 | 359.6 | 344.9 | 335.4 | 330.8 | 331.4 | 336.0 |
| 97.5° | 780.8 | 679.7 | 581.8 | 516.2 | 471.6 | 450.3 | 439.1 | 434.1 |
| 100° | 1076.2 | 962.3 | 835.3 | 720.4 | 640.1 | 600.0 | 574.0 | 559.2 |
| 102.5° | 1267.4 | 1250.0 | 1159.7 | 1037.5 | 950.0 | 879.2 | 846.1 | 824.8 |
| 105° | 1360.7 | 1485.0 | 1508.5 | 1482.1 | 1422.9 | 1363.6 | 1323.6 | 1312.7 |
| 107.5° | 1273.0 | 1454.6 | 1569.4 | 1624.9 | 1636.0 | 1635.8 | 1630.4 | 1615.0 |
| 110° | 1200.3 | 1390.3 | 1528.8 | 1617.9 | 1664.5 | 1686.9 | 1699.3 | 1701.5 |



TEST NUMBER: P331407-840

CATALOG NUMBER: S122DIP-S865D925U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1133.2 | 1315.9 | 1463.3 | 1564.4 | 1627.9 | 1663.2 | 1683.6 | 1692.4 |
| 115° | 1048.6 | 1212.8 | 1353.8 | 1463.7 | 1538.5 | 1588.2 | 1617.7 | 1630.0 |
| 117.5° | 982.2 | 1127.3 | 1255.9 | 1359.2 | 1435.1 | 1487.2 | 1517.8 | 1528.5 |
| 120° | 947.5 | 1080.8 | 1195.9 | 1293.4 | 1367.3 | 1418.0 | 1450.5 | 1463.8 |
| 122.5° | 918.8 | 1041.4 | 1150.6 | 1238.9 | 1305.0 | 1354.4 | 1383.2 | 1394.4 |
| 125° | 876.0 | 987.8 | 1084.6 | 1165.6 | 1226.7 | 1267.7 | 1295.6 | 1306.3 |
| 127.5° | 833.8 | 935.1 | 1026.1 | 1101.0 | 1154.5 | 1193.1 | 1217.4 | 1226.5 |
| 130° | 806.8 | 900.6 | 987.3 | 1058.6 | 1110.3 | 1147.0 | 1169.5 | 1180.0 |
| 132.5° | 780.5 | 867.6 | 947.7 | 1014.8 | 1065.8 | 1102.5 | 1123.4 | 1133.0 |
| 135° | 743.9 | 816.6 | 889.4 | 950.2 | 995.8 | 1031.5 | 1052.1 | 1058.4 |
| 137.5° | 713.0 | 774.1 | 832.3 | 885.3 | 926.9 | 957.5 | 975.4 | 983.5 |
| 140° | 693.6 | 746.7 | 797.8 | 845.5 | 879.5 | 907.5 | 924.3 | 932.2 |
| 142.5° | 678.2 | 723.2 | 766.9 | 806.6 | 838.8 | 864.1 | 879.2 | 881.9 |
| 145° | 657.7 | 692.8 | 725.8 | 756.6 | 782.3 | 800.9 | 812.5 | 817.0 |
| 147.5° | 642.3 | 668.7 | 693.4 | 715.2 | 735.9 | 750.3 | 757.9 | 760.4 |
| 150° | 633.0 | 655.1 | 676.3 | 694.4 | 709.5 | 721.6 | 727.7 | 728.7 |
| 152.5° | 624.1 | 644.6 | 662.6 | 678.3 | 690.1 | 700.6 | 705.1 | 705.3 |
| 155° | 611.8 | 627.9 | 643.0 | 654.1 | 665.2 | 672.3 | 676.3 | 674.3 |
| 157.5° | 597.4 | 611.0 | 623.7 | 632.4 | 640.2 | 646.0 | 647.8 | 647.8 |
| 160° | 588.5 | 599.7 | 610.8 | 617.8 | 624.9 | 630.0 | 631.0 | 631.0 |
| 162.5° | 579.8 | 589.2 | 598.6 | 604.1 | 611.2 | 614.6 | 615.6 | 614.8 |
| 165° | 566.4 | 573.5 | 580.6 | 584.6 | 588.5 | 592.6 | 592.6 | 591.6 |
| 167.5° | 553.7 | 559.2 | 564.0 | 567.6 | 569.5 | 571.7 | 571.5 | 570.3 |
| 170° | 547.2 | 550.3 | 554.3 | 556.3 | 557.3 | 560.4 | 559.4 | 557.3 |
| 172.5° | 540.0 | 542.2 | 545.4 | 546.6 | 547.6 | 549.1 | 548.1 | 546.8 |
| 175° | 532.2 | 533.2 | 534.2 | 535.2 | 535.2 | 536.2 | 535.2 | 533.2 |
| 177.5° | 526.5 | 526.5 | 527.4 | 527.4 | 527.4 | 527.4 | 526.5 | 524.9 |
| 180° | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 |

(END OF REPORT)