

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: P331396

Luminaire Tested: **S122DIP-S865D725U835-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331396  
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-S865D725U835-4F0-1E-UDD-D  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 725 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6392.6 lumens  
Efficiency: N/A  
Efficacy: 117.5 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

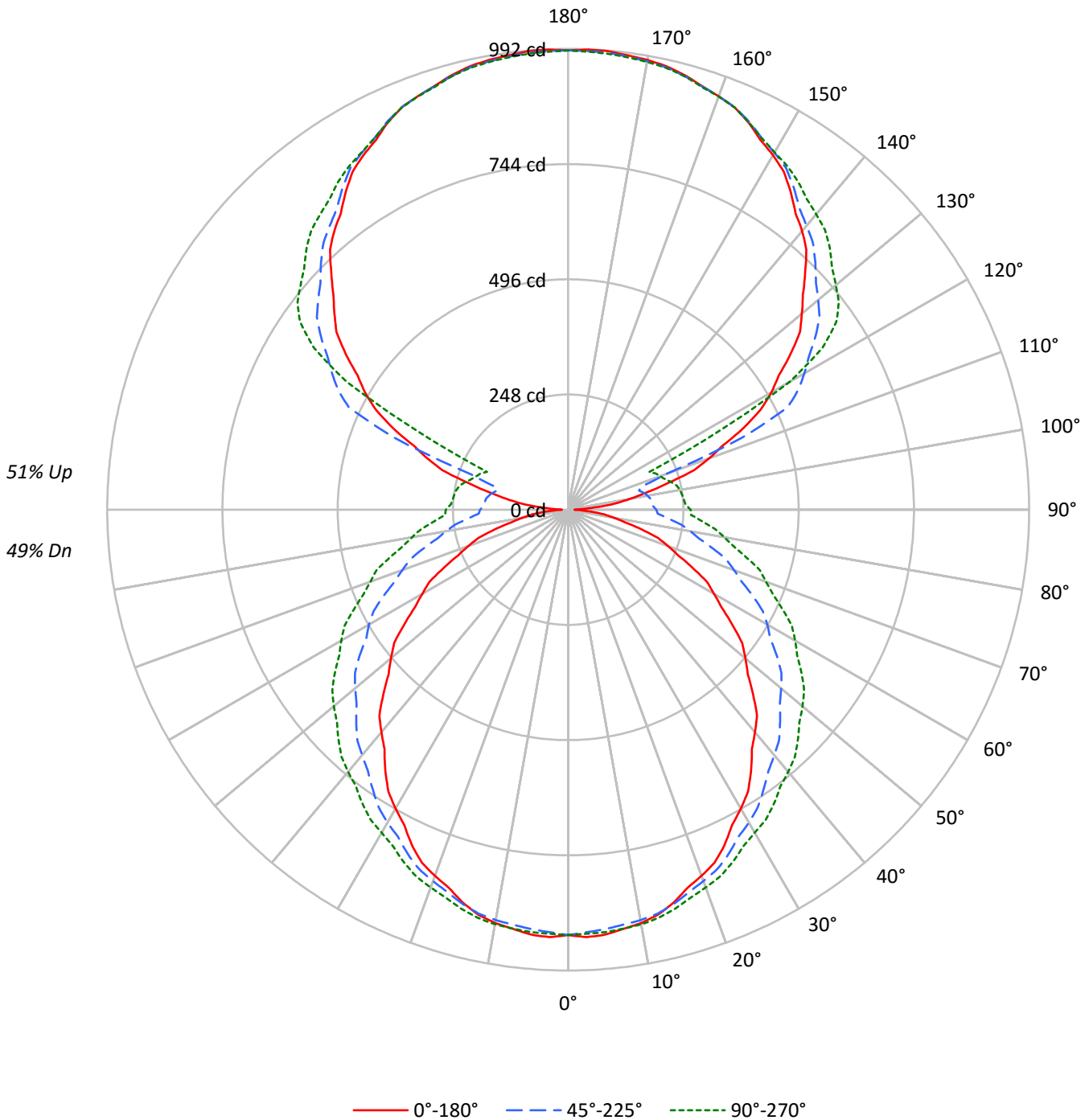
Input Watts (W): 54.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331396

CATALOG NUMBER: S122DIP-S865D725U835-4F0-1E-UDD-D

### Luminous Intensity Polar Plot





TEST NUMBER: P331396

CATALOG NUMBER: S122DIP-S865D725U835-4F0-1E-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 | 50 | 30 | 10 | 0  |   |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| 0   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 83 | 83 | 83 | 68 | 68 | 68 | 55 | 55 | 55 | 49 |    |    |    |   |
| 1   | 96  | 91  | 87  | 83  | 88 | 84 | 80 | 76 | 70 | 67 | 65 | 58 | 56 | 54 | 46 | 45 | 43 | 38 |    |    |    |   |
| 2   | 87  | 79  | 72  | 66  | 79 | 72 | 67 | 62 | 61 | 56 | 52 | 50 | 47 | 44 | 40 | 37 | 35 | 31 |    |    |    |   |
| 3   | 79  | 69  | 61  | 55  | 72 | 63 | 56 | 51 | 53 | 48 | 43 | 44 | 40 | 36 | 35 | 32 | 29 | 25 |    |    |    |   |
| 4   | 72  | 60  | 52  | 46  | 66 | 56 | 48 | 43 | 47 | 41 | 37 | 38 | 34 | 31 | 31 | 28 | 25 | 21 |    |    |    |   |
| 5   | 66  | 54  | 45  | 39  | 60 | 49 | 42 | 36 | 42 | 36 | 31 | 34 | 30 | 26 | 28 | 24 | 22 | 18 |    |    |    |   |
| 6   | 61  | 48  | 40  | 33  | 55 | 44 | 37 | 31 | 37 | 31 | 27 | 31 | 26 | 23 | 25 | 21 | 19 | 16 |    |    |    |   |
| 7   | 56  | 43  | 35  | 29  | 51 | 40 | 33 | 27 | 34 | 28 | 24 | 28 | 23 | 20 | 23 | 19 | 17 | 14 |    |    |    |   |
| 8   | 52  | 39  | 31  | 26  | 47 | 36 | 29 | 24 | 31 | 25 | 21 | 26 | 21 | 18 | 21 | 17 | 15 | 12 |    |    |    |   |
| 9   | 48  | 36  | 28  | 23  | 44 | 33 | 26 | 21 | 28 | 23 | 19 | 24 | 19 | 16 | 19 | 16 | 13 | 11 |    |    |    |   |
| 10  | 45  | 33  | 25  | 20  | 41 | 30 | 24 | 19 | 26 | 20 | 17 | 22 | 17 | 14 | 18 | 14 | 12 | 10 |    |    |    |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 14783 | 14783 | 14783 |
| 5°  | 14855 | 14230 | 14176 |
| 10° | 14762 | 13809 | 13655 |
| 15° | 14558 | 13364 | 13106 |
| 20° | 14300 | 12888 | 12577 |
| 25° | 14048 | 12428 | 12096 |
| 30° | 13689 | 11955 | 11614 |
| 35° | 13327 | 11498 | 11275 |
| 40° | 12947 | 11110 | 10935 |
| 45° | 12584 | 10762 | 10645 |
| 50° | 12196 | 10448 | 10360 |
| 55° | 11790 | 10109 | 10067 |
| 60° | 11292 | 9759  | 9760  |
| 65° | 10774 | 9347  | 9393  |
| 70° | 10189 | 8905  | 8999  |
| 75° | 9446  | 8470  | 8637  |
| 80° | 8274  | 8029  | 8266  |
| 85° | 7152  | 7646  | 7981  |



TEST NUMBER: P331396

CATALOG NUMBER: S122DIP-S865D725U835-4F0-1E-UDD-D

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.8   | 1.4       |
| 10°-20°   | 248.8  | 3.9       |
| 20°-30°   | 377.0  | 5.9       |
| 30°-40°   | 459.2  | 7.2       |
| 40°-50°   | 494.0  | 7.7       |
| 50°-60°   | 479.7  | 7.5       |
| 60°-70°   | 418.9  | 6.6       |
| 70°-80°   | 322.5  | 5.0       |
| 80°-90°   | 218.9  | 3.4       |
| 90°-100°  | 182.1  | 2.8       |
| 100°-110° | 229.8  | 3.6       |
| 110°-120° | 395.2  | 6.2       |
| 120°-130° | 573.7  | 9.0       |
| 130°-140° | 584.3  | 9.1       |
| 140°-150° | 530.4  | 8.3       |
| 150°-160° | 424.1  | 6.6       |
| 160°-170° | 273.3  | 4.3       |
| 170°-180° | 94.1   | 1.5       |
| 0°-30°    | 712.5  | 11.1      |
| 0°-40°    | 1171.7 | 18.3      |
| 0°-60°    | 2145.5 | 33.6      |
| 0°-90°    | 3105.7 | 48.6      |
| 90°-120°  | 807.0  | 12.6      |
| 90°-150°  | 2495.5 | 39.0      |
| 90°-180°  | 3287.0 | 51.4      |
| 0°-180°   | 6392.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 916 | 916   | 916 | 916   | 916 |      |
| 5°   | 918 | 914   | 906 | 914   | 913 | 87   |
| 15°  | 876 | 878   | 878 | 890   | 889 | 247  |
| 25°  | 796 | 806   | 817 | 833   | 837 | 366  |
| 35°  | 686 | 709   | 734 | 762   | 772 | 429  |
| 45°  | 563 | 599   | 645 | 684   | 699 | 434  |
| 55°  | 431 | 480   | 548 | 594   | 613 | 385  |
| 65°  | 295 | 360   | 438 | 490   | 510 | 293  |
| 75°  | 163 | 238   | 322 | 377   | 397 | 173  |
| 85°  | 48  | 130   | 215 | 269   | 289 | 51   |
| 90°  | 14  | 99    | 190 | 244   | 264 | 11   |
| 95°  | 57  | 98    | 180 | 232   | 250 | 65   |
| 105° | 224 | 274   | 158 | 210   | 230 | 240  |
| 115° | 417 | 446   | 521 | 244   | 193 | 410  |
| 125° | 584 | 596   | 650 | 689   | 704 | 521  |
| 135° | 721 | 733   | 752 | 786   | 796 | 557  |
| 145° | 835 | 835   | 846 | 859   | 862 | 522  |
| 155° | 919 | 914   | 921 | 925   | 920 | 423  |
| 165° | 969 | 965   | 966 | 971   | 966 | 274  |
| 175° | 991 | 986   | 987 | 992   | 985 | 94   |
| 180° | 989 | 989   | 989 | 989   | 989 |      |



TEST NUMBER: P331396

CATALOG NUMBER: S122DIP-S865D725U835-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 915.6 | 915.6 | 915.6 | 915.6 | 915.6 | 915.6 | 915.6 | 915.6 | 915.6 | 915.6 | 915.6 |
| 2.5°   | 920.9 | 920.2 | 919.5 | 918.8 | 918.1 | 916.9 | 915.2 | 913.6 | 911.9 | 910.3 | 911.5 |
| 5°     | 918.2 | 917.4 | 916.5 | 915.6 | 914.7 | 913.4 | 911.6 | 909.8 | 908.1 | 906.3 | 908.1 |
| 7.5°   | 910.0 | 909.4 | 908.8 | 908.3 | 907.7 | 906.7 | 905.3 | 904.0 | 902.6 | 901.3 | 903.4 |
| 10°    | 903.7 | 903.1 | 902.5 | 901.9 | 901.3 | 900.6 | 899.7 | 898.8 | 897.9 | 897.0 | 899.4 |
| 12.5°  | 893.0 | 893.2 | 893.3 | 893.4 | 893.5 | 893.2 | 892.6 | 891.9 | 891.3 | 890.6 | 893.0 |
| 15°    | 875.8 | 876.4 | 877.0 | 877.6 | 878.1 | 878.4 | 878.4 | 878.4 | 878.4 | 878.4 | 881.1 |
| 17.5°  | 853.5 | 854.7 | 856.0 | 857.2 | 858.4 | 859.5 | 860.5 | 861.4 | 862.4 | 863.3 | 866.1 |
| 20°    | 838.6 | 840.1 | 841.6 | 843.1 | 844.5 | 845.9 | 847.0 | 848.2 | 849.4 | 850.6 | 853.8 |
| 22.5°  | 822.7 | 824.4 | 826.1 | 827.8 | 829.5 | 831.2 | 832.9 | 834.5 | 836.2 | 837.8 | 841.1 |
| 25°    | 796.2 | 798.2 | 800.3 | 802.4 | 804.4 | 806.8 | 809.4 | 812.1 | 814.7 | 817.4 | 820.9 |
| 27.5°  | 764.3 | 767.7 | 771.0 | 774.4 | 777.8 | 781.0 | 784.1 | 787.3 | 790.4 | 793.5 | 798.0 |
| 30°    | 743.1 | 746.9 | 750.8 | 754.6 | 758.4 | 762.3 | 766.1 | 769.9 | 773.8 | 777.6 | 782.3 |
| 32.5°  | 719.7 | 724.0 | 728.3 | 732.7 | 737.0 | 741.4 | 745.9 | 750.5 | 755.0 | 759.5 | 765.0 |
| 35°    | 686.0 | 691.0 | 696.1 | 701.1 | 706.1 | 711.4 | 717.0 | 722.6 | 728.2 | 733.8 | 740.3 |
| 37.5°  | 649.4 | 655.2 | 661.0 | 666.7 | 672.5 | 679.0 | 686.3 | 693.6 | 700.8 | 708.1 | 715.3 |
| 40°    | 625.0 | 631.5 | 638.0 | 644.5 | 650.9 | 658.2 | 666.1 | 674.1 | 682.1 | 690.0 | 697.7 |
| 42.5°  | 601.6 | 608.1 | 614.6 | 621.1 | 627.6 | 635.4 | 644.5 | 653.7 | 662.8 | 672.0 | 680.3 |
| 45°    | 562.6 | 570.6 | 578.5 | 586.5 | 594.5 | 603.6 | 613.9 | 624.3 | 634.6 | 644.9 | 654.0 |
| 47.5°  | 524.1 | 532.8 | 541.5 | 550.2 | 558.8 | 569.2 | 581.3 | 593.4 | 605.5 | 617.6 | 627.1 |
| 50°    | 497.6 | 506.7 | 515.9 | 525.0 | 534.2 | 545.4 | 558.6 | 571.9 | 585.2 | 598.5 | 608.5 |
| 52.5°  | 472.1 | 481.7 | 491.4 | 501.0 | 510.6 | 522.4 | 536.4 | 550.3 | 564.3 | 578.3 | 588.5 |
| 55°    | 431.3 | 441.9 | 452.5 | 463.1 | 473.7 | 486.7 | 502.0 | 517.4 | 532.7 | 548.0 | 558.6 |
| 57.5°  | 390.9 | 402.9 | 414.9 | 426.8 | 438.8 | 452.6 | 468.2 | 483.9 | 499.5 | 515.1 | 526.6 |
| 60°    | 362.3 | 374.9 | 387.6 | 400.3 | 413.0 | 427.7 | 444.5 | 461.3 | 478.1 | 495.0 | 506.2 |
| 62.5°  | 336.8 | 349.9 | 363.1 | 376.2 | 389.4 | 404.4 | 421.2 | 438.0 | 454.8 | 471.6 | 483.5 |
| 65°    | 294.6 | 309.0 | 323.5 | 337.9 | 352.4 | 368.3 | 385.7 | 403.1 | 420.5 | 437.9 | 450.0 |
| 67.5°  | 255.8 | 270.9 | 286.0 | 301.1 | 316.2 | 332.7 | 350.5 | 368.3 | 386.1 | 403.9 | 416.1 |
| 70°    | 228.2 | 243.6 | 258.9 | 274.2 | 289.6 | 306.4 | 324.7 | 342.9 | 361.2 | 379.5 | 392.2 |
| 72.5°  | 202.8 | 218.6 | 234.4 | 250.2 | 266.0 | 283.1 | 301.7 | 320.2 | 338.7 | 357.2 | 369.7 |
| 75°    | 163.2 | 179.7 | 196.2 | 212.8 | 229.3 | 247.0 | 265.8 | 284.7 | 303.6 | 322.4 | 335.1 |
| 77.5°  | 125.0 | 142.3 | 159.6 | 176.8 | 194.1 | 212.3 | 231.5 | 250.7 | 269.8 | 289.0 | 301.6 |
| 80°    | 99.5  | 117.5 | 135.5 | 153.5 | 171.5 | 190.0 | 209.2 | 228.4 | 247.5 | 266.7 | 279.1 |
| 82.5°  | 78.3  | 96.0  | 113.8 | 131.5 | 149.3 | 167.9 | 187.3 | 206.7 | 226.1 | 245.5 | 257.9 |
| 85°    | 47.8  | 66.1  | 84.3  | 102.6 | 120.9 | 139.5 | 158.3 | 177.2 | 196.1 | 215.0 | 227.4 |
| 87.5°  | 26.2  | 44.1  | 62.0  | 79.9  | 97.8  | 116.4 | 135.5 | 154.6 | 173.8 | 192.9 | 205.1 |
| 90°    | 14.0  | 32.8  | 51.7  | 70.5  | 89.4  | 108.9 | 129.0 | 149.2 | 169.3 | 189.5 | 202.1 |
| 92.5°  | 26.7  | 42.4  | 58.2  | 74.0  | 89.7  | 107.0 | 125.8 | 144.6 | 163.4 | 182.2 | 194.2 |
| 95°    | 57.1  | 65.7  | 74.3  | 83.0  | 91.6  | 105.3 | 124.1 | 142.9 | 161.7 | 180.5 | 192.5 |
| 97.5°  | 101.6 | 99.1  | 96.7  | 94.2  | 91.7  | 100.3 | 119.8 | 139.4 | 159.0 | 178.5 | 190.1 |
| 100°   | 135.9 | 125.0 | 114.2 | 103.3 | 92.4  | 96.6  | 115.8 | 135.0 | 154.3 | 173.5 | 185.7 |
| 102.5° | 172.6 | 178.0 | 183.3 | 188.7 | 194.0 | 193.4 | 186.9 | 180.3 | 173.7 | 167.2 | 179.5 |
| 105°   | 224.1 | 237.4 | 250.7 | 264.1 | 277.4 | 270.0 | 241.9 | 213.9 | 185.8 | 157.8 | 169.8 |
| 107.5° | 284.3 | 295.0 | 305.7 | 316.4 | 327.1 | 313.8 | 276.4 | 239.0 | 201.7 | 164.3 | 172.5 |
| 110°   | 322.2 | 331.4 | 340.7 | 349.9 | 359.1 | 348.0 | 316.5 | 285.0 | 253.5 | 222.1 | 215.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 358.8 | 366.7 | 374.6 | 382.6 | 390.5 | 395.6 | 398.0 | 400.4 | 402.8 | 405.2 | 356.6 |
| 115°   | 416.6 | 422.6 | 428.5 | 434.5 | 440.4 | 452.0 | 469.2 | 486.5 | 503.7 | 521.0 | 456.2 |
| 117.5° | 466.9 | 472.1 | 477.2 | 482.4 | 487.5 | 497.6 | 512.6 | 527.6 | 542.6 | 557.6 | 548.5 |
| 120°   | 504.7 | 508.3 | 511.8 | 515.4 | 519.0 | 528.1 | 542.7 | 557.4 | 572.0 | 586.7 | 596.9 |
| 122.5° | 536.8 | 539.7 | 542.7 | 545.7 | 548.7 | 557.3 | 571.5 | 585.7 | 599.9 | 614.1 | 623.3 |
| 125°   | 584.2 | 586.3 | 588.4 | 590.4 | 592.5 | 599.7 | 612.2 | 624.7 | 637.1 | 649.6 | 658.6 |
| 127.5° | 628.4 | 630.4 | 632.4 | 634.4 | 636.4 | 642.3 | 652.2 | 662.1 | 671.9 | 681.8 | 690.7 |
| 130°   | 656.5 | 658.7 | 661.0 | 663.2 | 665.5 | 670.6 | 678.5 | 686.4 | 694.4 | 702.3 | 711.1 |
| 132.5° | 685.1 | 686.9 | 688.8 | 690.7 | 692.6 | 696.7 | 703.3 | 709.8 | 716.3 | 722.8 | 731.2 |
| 135°   | 721.0 | 723.5 | 726.0 | 728.6 | 731.1 | 734.6 | 739.0 | 743.3 | 747.7 | 752.1 | 759.9 |
| 137.5° | 758.6 | 760.3 | 762.0 | 763.7 | 765.5 | 767.8 | 770.7 | 773.6 | 776.5 | 779.5 | 786.4 |
| 140°   | 783.2 | 784.2 | 785.1 | 786.1 | 787.1 | 788.8 | 791.1 | 793.4 | 795.8 | 798.1 | 804.3 |
| 142.5° | 803.8 | 804.6 | 805.5 | 806.3 | 807.2 | 808.7 | 810.8 | 812.9 | 815.0 | 817.2 | 822.2 |
| 145°   | 834.8 | 834.6 | 834.5 | 834.3 | 834.2 | 835.4 | 838.1 | 840.8 | 843.5 | 846.2 | 849.1 |
| 147.5° | 863.0 | 862.4 | 861.8 | 861.2 | 860.6 | 861.6 | 864.3 | 866.9 | 869.6 | 872.3 | 873.3 |
| 150°   | 881.3 | 880.2 | 879.1 | 878.0 | 876.8 | 877.6 | 880.1 | 882.6 | 885.2 | 887.7 | 888.7 |
| 152.5° | 896.7 | 895.5 | 894.3 | 893.0 | 891.8 | 892.4 | 894.8 | 897.2 | 899.6 | 902.0 | 903.0 |
| 155°   | 919.2 | 917.8 | 916.3 | 914.9 | 913.5 | 913.7 | 915.6 | 917.5 | 919.4 | 921.3 | 922.3 |
| 157.5° | 936.8 | 935.6 | 934.4 | 933.2 | 932.0 | 932.0 | 933.4 | 934.7 | 936.0 | 937.4 | 938.5 |
| 160°   | 947.1 | 946.1 | 945.2 | 944.2 | 943.3 | 943.3 | 944.2 | 945.2 | 946.1 | 947.1 | 948.1 |
| 162.5° | 956.3 | 955.3 | 954.4 | 953.4 | 952.4 | 952.4 | 953.2 | 954.0 | 954.9 | 955.7 | 956.8 |
| 165°   | 968.6 | 967.6 | 966.7 | 965.7 | 964.7 | 964.5 | 965.0 | 965.5 | 965.9 | 966.4 | 967.5 |
| 167.5° | 977.7 | 976.8 | 975.8 | 974.9 | 973.9 | 973.6 | 974.1 | 974.5 | 975.0 | 975.4 | 976.5 |
| 170°   | 982.9 | 981.9 | 981.0 | 980.0 | 979.1 | 978.7 | 979.1 | 979.4 | 979.7 | 980.0 | 981.1 |
| 172.5° | 986.3 | 985.3 | 984.4 | 983.4 | 982.5 | 982.2 | 982.5 | 982.8 | 983.1 | 983.4 | 984.6 |
| 175°   | 990.7 | 989.6 | 988.5 | 987.4 | 986.3 | 985.9 | 986.2 | 986.5 | 986.8 | 987.2 | 988.3 |
| 177.5° | 991.5 | 990.6 | 989.7 | 988.8 | 987.9 | 987.5 | 987.6 | 987.8 | 987.9 | 988.0 | 988.9 |
| 180°   | 988.6 | 988.6 | 988.6 | 988.6 | 988.6 | 988.6 | 988.6 | 988.6 | 988.6 | 988.6 | 988.6 |



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CATALOG NUMBER: S122DIP-S865D725U835-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 915.6 | 915.6 | 915.6 | 915.6 | 915.6 | 915.6 | 915.6 | 915.6 |
| 2.5°   | 912.6 | 913.8 | 915.0 | 915.4 | 914.9 | 914.4 | 913.9 | 913.5 |
| 5°     | 909.8 | 911.6 | 913.4 | 914.1 | 913.8 | 913.5 | 913.2 | 912.9 |
| 7.5°   | 905.5 | 907.6 | 909.8 | 910.7 | 910.4 | 910.1 | 909.8 | 909.5 |
| 10°    | 901.7 | 904.1 | 906.5 | 907.5 | 907.2 | 906.9 | 906.6 | 906.3 |
| 12.5°  | 895.4 | 897.7 | 900.1 | 901.1 | 900.8 | 900.5 | 900.2 | 899.9 |
| 15°    | 883.7 | 886.4 | 889.1 | 890.2 | 889.9 | 889.6 | 889.3 | 889.1 |
| 17.5°  | 868.9 | 871.6 | 874.4 | 875.8 | 875.8 | 875.8 | 875.8 | 875.8 |
| 20°    | 857.1 | 860.3 | 863.5 | 865.2 | 865.2 | 865.2 | 865.2 | 865.2 |
| 22.5°  | 844.3 | 847.6 | 850.8 | 852.7 | 853.1 | 853.6 | 854.1 | 854.6 |
| 25°    | 824.5 | 828.0 | 831.6 | 833.8 | 834.6 | 835.5 | 836.4 | 837.3 |
| 27.5°  | 802.5 | 807.0 | 811.4 | 814.0 | 814.7 | 815.3 | 816.0 | 816.6 |
| 30°    | 787.0 | 791.7 | 796.5 | 799.3 | 800.1 | 801.0 | 801.9 | 802.8 |
| 32.5°  | 770.4 | 775.8 | 781.2 | 784.8 | 786.3 | 787.9 | 789.5 | 791.1 |
| 35°    | 746.8 | 753.3 | 759.8 | 764.0 | 766.1 | 768.2 | 770.2 | 772.3 |
| 37.5°  | 722.4 | 729.6 | 736.8 | 741.5 | 743.7 | 745.9 | 748.1 | 750.3 |
| 40°    | 705.3 | 713.0 | 720.7 | 725.8 | 728.5 | 731.1 | 733.8 | 736.5 |
| 42.5°  | 688.7 | 697.1 | 705.5 | 711.0 | 713.6 | 716.3 | 718.9 | 721.6 |
| 45°    | 663.2 | 672.3 | 681.5 | 687.5 | 690.5 | 693.4 | 696.4 | 699.3 |
| 47.5°  | 636.7 | 646.2 | 655.8 | 662.2 | 665.4 | 668.7 | 671.9 | 675.2 |
| 50°    | 618.5 | 628.5 | 638.6 | 645.2 | 648.4 | 651.7 | 654.9 | 658.2 |
| 52.5°  | 598.8 | 609.1 | 619.3 | 626.2 | 629.7 | 633.2 | 636.6 | 640.1 |
| 55°    | 569.3 | 579.9 | 590.5 | 597.7 | 601.5 | 605.4 | 609.2 | 613.0 |
| 57.5°  | 538.0 | 549.4 | 560.9 | 568.6 | 572.4 | 576.3 | 580.2 | 584.1 |
| 60°    | 517.4 | 528.6 | 539.8 | 547.4 | 551.6 | 555.7 | 559.8 | 564.0 |
| 62.5°  | 495.4 | 507.3 | 519.2 | 527.2 | 531.0 | 534.9 | 538.8 | 542.7 |
| 65°    | 462.1 | 474.2 | 486.3 | 494.2 | 498.0 | 501.9 | 505.7 | 509.5 |
| 67.5°  | 428.3 | 440.5 | 452.8 | 460.9 | 464.9 | 468.9 | 472.9 | 476.9 |
| 70°    | 404.9 | 417.5 | 430.2 | 438.3 | 441.9 | 445.4 | 449.0 | 452.5 |
| 72.5°  | 382.1 | 394.5 | 407.0 | 415.3 | 419.6 | 423.8 | 428.1 | 432.3 |
| 75°    | 347.8 | 360.5 | 373.2 | 381.4 | 385.3 | 389.1 | 392.9 | 396.8 |
| 77.5°  | 314.3 | 326.9 | 339.5 | 347.9 | 352.0 | 356.1 | 360.3 | 364.4 |
| 80°    | 291.5 | 303.9 | 316.3 | 324.5 | 328.6 | 332.8 | 336.9 | 341.0 |
| 82.5°  | 270.3 | 282.6 | 295.0 | 303.2 | 307.1 | 310.9 | 314.8 | 318.7 |
| 85°    | 239.7 | 252.1 | 264.5 | 272.8 | 276.9 | 281.0 | 285.1 | 289.3 |
| 87.5°  | 217.3 | 229.4 | 241.6 | 249.7 | 253.5 | 257.3 | 261.2 | 265.0 |
| 90°    | 214.6 | 227.2 | 239.8 | 248.0 | 251.9 | 255.8 | 259.6 | 263.5 |
| 92.5°  | 206.1 | 218.1 | 230.1 | 237.9 | 241.7 | 245.4 | 249.1 | 252.9 |
| 95°    | 204.5 | 216.5 | 228.5 | 236.2 | 239.6 | 242.9 | 246.3 | 249.7 |
| 97.5°  | 201.6 | 213.2 | 224.7 | 232.3 | 236.0 | 239.7 | 243.3 | 247.0 |
| 100°   | 197.8 | 210.0 | 222.2 | 230.1 | 233.6 | 237.2 | 240.8 | 244.3 |
| 102.5° | 191.8 | 204.2 | 216.5 | 224.5 | 228.2 | 231.9 | 235.6 | 239.3 |
| 105°   | 181.9 | 194.0 | 206.0 | 214.0 | 217.9 | 221.8 | 225.6 | 229.5 |
| 107.5° | 180.6 | 188.7 | 196.8 | 202.8 | 206.7 | 210.6 | 214.5 | 218.4 |
| 110°   | 209.1 | 202.7 | 196.2 | 194.9 | 198.8 | 202.7 | 206.6 | 210.4 |





TEST NUMBER: P331396

CATALOG NUMBER: S122DIP-S865D725U835-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 308.1 | 259.5 | 211.0 | 188.6 | 192.3 | 196.1 | 199.8 | 203.6 |
| 115°   | 391.5 | 326.7 | 262.0 | 225.5 | 217.3 | 209.1 | 200.9 | 192.7 |
| 117.5° | 539.4 | 530.4 | 521.3 | 499.5 | 464.9 | 430.2 | 395.6 | 361.0 |
| 120°   | 607.0 | 617.2 | 627.4 | 623.3 | 605.1 | 586.9 | 568.7 | 550.5 |
| 122.5° | 632.4 | 641.6 | 650.8 | 654.6 | 653.3 | 651.9 | 650.5 | 649.1 |
| 125°   | 667.7 | 676.8 | 685.9 | 692.0 | 695.1 | 698.2 | 701.4 | 704.5 |
| 127.5° | 699.7 | 708.6 | 717.5 | 723.3 | 726.0 | 728.7 | 731.4 | 734.1 |
| 130°   | 720.0 | 728.8 | 737.6 | 743.1 | 745.3 | 747.5 | 749.7 | 751.9 |
| 132.5° | 739.5 | 747.9 | 756.2 | 761.5 | 763.7 | 765.9 | 768.1 | 770.3 |
| 135°   | 767.7 | 775.5 | 783.2 | 788.1 | 790.2 | 792.2 | 794.3 | 796.3 |
| 137.5° | 793.4 | 800.4 | 807.4 | 811.6 | 813.1 | 814.5 | 816.0 | 817.5 |
| 140°   | 810.4 | 816.6 | 822.7 | 826.3 | 827.2 | 828.2 | 829.2 | 830.2 |
| 142.5° | 827.3 | 832.4 | 837.5 | 840.4 | 841.1 | 841.9 | 842.6 | 843.3 |
| 145°   | 852.0 | 854.9 | 857.8 | 859.5 | 860.2 | 860.9 | 861.6 | 862.3 |
| 147.5° | 874.4 | 875.5 | 876.5 | 877.1 | 877.1 | 877.2 | 877.2 | 877.2 |
| 150°   | 889.6 | 890.6 | 891.5 | 891.6 | 890.8 | 890.0 | 889.2 | 888.4 |
| 152.5° | 903.9 | 904.9 | 905.9 | 905.8 | 904.8 | 903.7 | 902.7 | 901.6 |
| 155°   | 923.3 | 924.2 | 925.2 | 925.0 | 923.7 | 922.5 | 921.2 | 919.9 |
| 157.5° | 939.5 | 940.6 | 941.7 | 941.6 | 940.4 | 939.1 | 937.9 | 936.7 |
| 160°   | 949.0 | 950.0 | 950.9 | 950.8 | 949.7 | 948.6 | 947.5 | 946.4 |
| 162.5° | 957.8 | 958.9 | 960.0 | 959.9 | 958.5 | 957.1 | 955.8 | 954.4 |
| 165°   | 968.6 | 969.8 | 970.9 | 970.9 | 969.8 | 968.6 | 967.5 | 966.4 |
| 167.5° | 977.7 | 978.8 | 979.9 | 979.7 | 978.3 | 976.9 | 975.4 | 974.0 |
| 170°   | 982.2 | 983.3 | 984.5 | 984.3 | 982.9 | 981.4 | 980.0 | 978.6 |
| 172.5° | 985.7 | 986.8 | 987.9 | 987.7 | 986.3 | 984.9 | 983.4 | 982.0 |
| 175°   | 989.4 | 990.5 | 991.6 | 991.4 | 989.8 | 988.2 | 986.6 | 985.0 |
| 177.5° | 989.8 | 990.7 | 991.6 | 991.5 | 990.3 | 989.2 | 988.0 | 986.9 |
| 180°   | 988.6 | 988.6 | 988.6 | 988.6 | 988.6 | 988.6 | 988.6 | 988.6 |

(END OF REPORT)