

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: P332565-840

Luminaire Tested: **S124DIP-S575D1035U840-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332565-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIP-S575D1035U840-4F0-1E-UDD-D  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 575 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1035 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6565.3 lumens  
Efficiency: N/A  
Efficacy: 147.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')  
CIE Type: Semi-Indirect

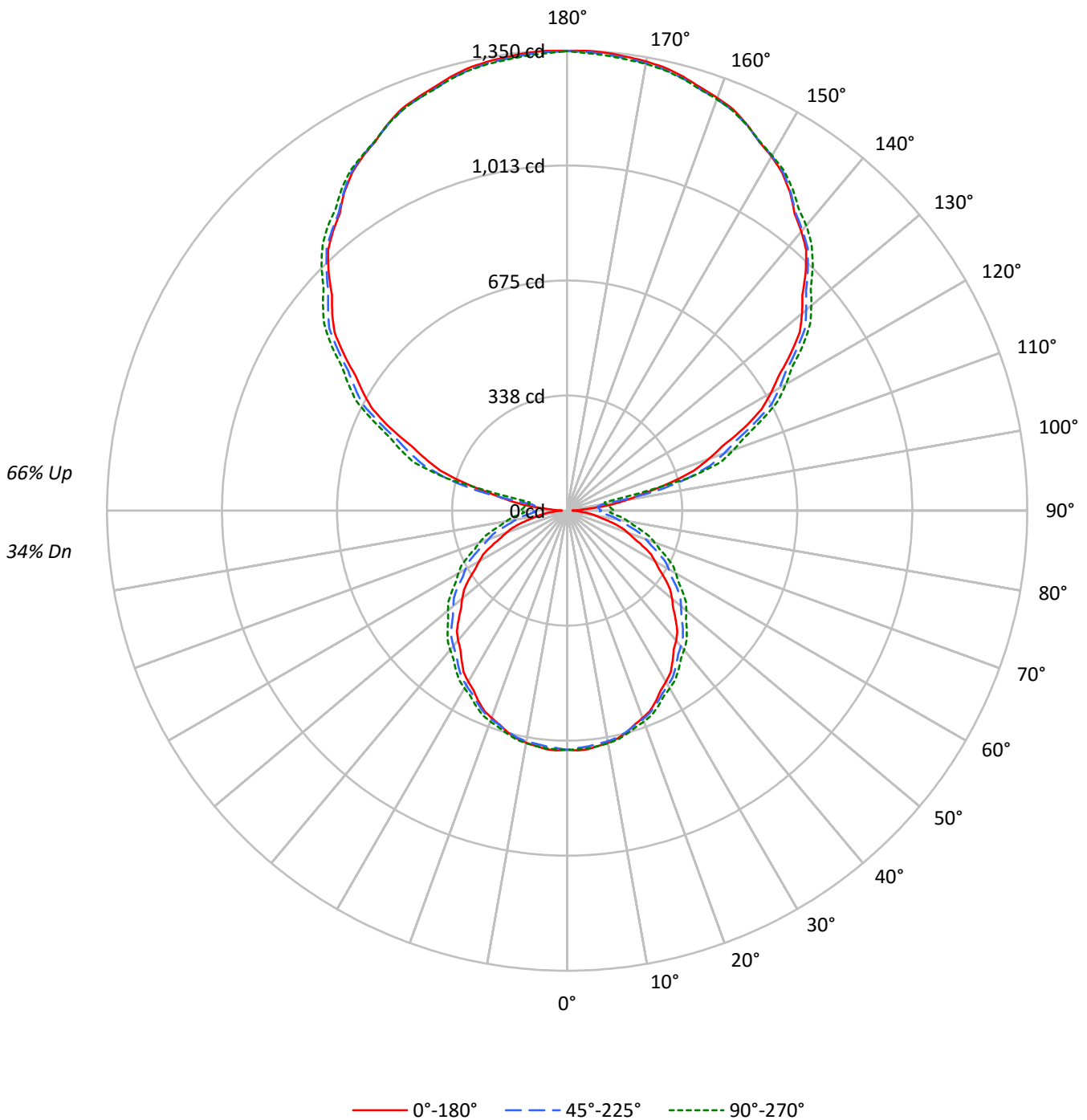
Input Watts (W): 44.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332565-840

CATALOG NUMBER: S124DIP-S575D1035U840-4F0-1E-UDD-D

### Luminous Intensity Polar Plot





TEST NUMBER: P332565-840

CATALOG NUMBER: S124DIP-S575D1035U840-4F0-1E-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   | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 57 | 57 | 57 | 41 | 41 | 41 | 34 |
| 1   | 93  | 89  | 85  | 81  | 84 | 80 | 77 | 74 | 64 | 62 | 59 | 49 | 47 | 46 | 35 | 34 | 33 | 27 |
| 2   | 85  | 77  | 71  | 66  | 76 | 70 | 64 | 60 | 56 | 52 | 49 | 43 | 40 | 38 | 31 | 29 | 28 | 22 |
| 3   | 77  | 68  | 60  | 54  | 69 | 61 | 55 | 50 | 49 | 44 | 40 | 37 | 34 | 32 | 27 | 25 | 23 | 18 |
| 4   | 70  | 60  | 52  | 46  | 63 | 54 | 47 | 42 | 43 | 38 | 34 | 33 | 30 | 27 | 24 | 22 | 20 | 16 |
| 5   | 64  | 53  | 45  | 39  | 58 | 48 | 41 | 36 | 38 | 33 | 29 | 30 | 26 | 23 | 21 | 19 | 17 | 13 |
| 6   | 59  | 47  | 39  | 33  | 53 | 43 | 36 | 31 | 34 | 29 | 25 | 27 | 23 | 20 | 19 | 17 | 15 | 12 |
| 7   | 55  | 42  | 35  | 29  | 49 | 39 | 32 | 27 | 31 | 26 | 22 | 24 | 20 | 18 | 18 | 15 | 13 | 10 |
| 8   | 51  | 38  | 31  | 25  | 45 | 35 | 28 | 23 | 28 | 23 | 19 | 22 | 18 | 16 | 16 | 14 | 12 | 9  |
| 9   | 47  | 35  | 28  | 23  | 42 | 32 | 25 | 21 | 26 | 21 | 17 | 20 | 16 | 14 | 15 | 12 | 10 | 8  |
| 10  | 44  | 32  | 25  | 20  | 39 | 29 | 23 | 18 | 24 | 19 | 15 | 19 | 15 | 12 | 14 | 11 | 9  | 7  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5666 | 5666 | 5666 |
| 5°  | 5683 | 5537 | 5552 |
| 10° | 5649 | 5446 | 5442 |
| 15° | 5598 | 5341 | 5312 |
| 20° | 5521 | 5226 | 5185 |
| 25° | 5435 | 5096 | 5047 |
| 30° | 5342 | 4967 | 4904 |
| 35° | 5237 | 4834 | 4779 |
| 40° | 5153 | 4710 | 4648 |
| 45° | 5027 | 4594 | 4537 |
| 50° | 4920 | 4460 | 4418 |
| 55° | 4811 | 4333 | 4278 |
| 60° | 4641 | 4173 | 4153 |
| 65° | 4454 | 4001 | 3997 |
| 70° | 4226 | 3805 | 3816 |
| 75° | 3910 | 3587 | 3652 |
| 80° | 3559 | 3381 | 3492 |
| 85° | 3112 | 3195 | 3398 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.5   | 1.0       |
| 10°-20°   | 190.4  | 2.9       |
| 20°-30°   | 287.9  | 4.4       |
| 30°-40°   | 348.3  | 5.3       |
| 40°-50°   | 368.3  | 5.6       |
| 50°-60°   | 346.6  | 5.3       |
| 60°-70°   | 287.5  | 4.4       |
| 70°-80°   | 202.0  | 3.1       |
| 80°-90°   | 118.1  | 1.8       |
| 90°-100°  | 113.9  | 1.7       |
| 100°-110° | 344.1  | 5.2       |
| 110°-120° | 596.0  | 9.1       |
| 120°-130° | 732.8  | 11.2      |
| 130°-140° | 771.9  | 11.8      |
| 140°-150° | 715.8  | 10.9      |
| 150°-160° | 575.9  | 8.8       |
| 160°-170° | 371.4  | 5.7       |
| 170°-180° | 128.0  | 1.9       |
| 0°-30°    | 544.7  | 8.3       |
| 0°-40°    | 893.1  | 13.6      |
| 0°-60°    | 1607.9 | 24.5      |
| 0°-90°    | 2215.5 | 33.7      |
| 90°-120°  | 1054.0 | 16.1      |
| 90°-150°  | 3274.5 | 49.9      |
| 90°-180°  | 4350.0 | 66.3      |
| 0°-180°   | 6565.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 702  | 702   | 702  | 702   | 702  |      |
| 5°   | 703  | 700   | 695  | 700   | 700  | 67   |
| 15°  | 674  | 674   | 672  | 678   | 678  | 190  |
| 25°  | 616  | 621   | 623  | 631   | 633  | 284  |
| 35°  | 539  | 548   | 556  | 567   | 570  | 337  |
| 45°  | 450  | 464   | 479  | 492   | 497  | 347  |
| 55°  | 352  | 369   | 392  | 407   | 412  | 314  |
| 65°  | 244  | 269   | 296  | 314   | 321  | 241  |
| 75°  | 135  | 164   | 197  | 218   | 226  | 144  |
| 85°  | 42   | 75    | 110  | 133   | 142  | 44   |
| 90°  | 16   | 58    | 100  | 128   | 137  | 11   |
| 95°  | 66   | 60    | 91   | 117   | 126  | 79   |
| 105° | 310  | 333   | 366  | 392   | 365  | 325  |
| 115° | 571  | 582   | 606  | 624   | 630  | 562  |
| 125° | 800  | 804   | 820  | 838   | 844  | 714  |
| 135° | 990  | 989   | 998  | 1012  | 1019 | 762  |
| 145° | 1140 | 1142  | 1142 | 1148  | 1153 | 712  |
| 155° | 1249 | 1250  | 1247 | 1251  | 1248 | 576  |
| 165° | 1318 | 1313  | 1312 | 1320  | 1312 | 372  |
| 175° | 1348 | 1342  | 1343 | 1351  | 1340 | 128  |
| 180° | 1348 | 1348  | 1348 | 1348  | 1348 |      |



TEST NUMBER: P332565-840

CATALOG NUMBER: S124DIP-S575D1035U840-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 701.8 | 701.8 | 701.8 | 701.8 | 701.8 | 701.8 | 701.8 | 701.8 | 701.8 | 701.8 | 701.8 |
| 2.5°   | 704.3 | 703.9 | 703.5 | 703.0 | 702.6 | 701.9 | 700.7 | 699.6 | 698.4 | 697.3 | 698.3 |
| 5°     | 702.6 | 702.1 | 701.5 | 700.9 | 700.4 | 699.5 | 698.3 | 697.1 | 695.9 | 694.7 | 696.1 |
| 7.5°   | 696.6 | 696.2 | 695.9 | 695.6 | 695.3 | 694.7 | 693.7 | 692.7 | 691.6 | 690.5 | 692.2 |
| 10°    | 691.6 | 691.4 | 691.2 | 691.1 | 690.8 | 690.3 | 689.4 | 688.5 | 687.7 | 686.8 | 688.4 |
| 12.5°  | 684.6 | 684.6 | 684.6 | 684.5 | 684.5 | 684.2 | 683.6 | 683.0 | 682.4 | 681.8 | 683.2 |
| 15°    | 673.5 | 673.7 | 673.8 | 674.0 | 674.2 | 674.0 | 673.5 | 673.0 | 672.4 | 671.9 | 673.5 |
| 17.5°  | 658.2 | 658.7 | 659.2 | 659.7 | 660.4 | 660.6 | 660.5 | 660.4 | 660.2 | 660.1 | 661.7 |
| 20°    | 647.5 | 648.0 | 648.5 | 649.1 | 649.6 | 649.9 | 650.2 | 650.4 | 650.5 | 650.7 | 652.4 |
| 22.5°  | 635.6 | 636.2 | 636.9 | 637.5 | 638.2 | 638.7 | 639.0 | 639.3 | 639.6 | 640.0 | 641.8 |
| 25°    | 616.1 | 617.1 | 618.2 | 619.2 | 620.3 | 621.1 | 621.6 | 622.1 | 622.7 | 623.2 | 625.1 |
| 27.5°  | 594.4 | 595.9 | 597.4 | 599.1 | 600.6 | 601.7 | 602.5 | 603.3 | 604.1 | 604.9 | 606.7 |
| 30°    | 580.0 | 581.4 | 582.7 | 584.1 | 585.5 | 586.8 | 588.0 | 589.3 | 590.5 | 591.8 | 593.7 |
| 32.5°  | 564.2 | 565.9 | 567.5 | 569.3 | 571.0 | 572.5 | 573.8 | 575.2 | 576.5 | 577.9 | 580.1 |
| 35°    | 539.1 | 541.2 | 543.3 | 545.3 | 547.4 | 549.4 | 551.1 | 552.9 | 554.6 | 556.3 | 558.9 |
| 37.5°  | 513.8 | 516.1 | 518.6 | 521.0 | 523.4 | 525.7 | 527.9 | 530.1 | 532.2 | 534.3 | 536.8 |
| 40°    | 497.5 | 499.7 | 502.0 | 504.2 | 506.5 | 508.9 | 511.3 | 513.7 | 516.2 | 518.7 | 521.3 |
| 42.5°  | 478.6 | 481.1 | 483.6 | 486.3 | 488.8 | 491.5 | 494.3 | 497.2 | 500.1 | 502.9 | 505.8 |
| 45°    | 449.5 | 452.8 | 456.2 | 459.5 | 462.7 | 466.1 | 469.4 | 472.7 | 476.1 | 479.4 | 482.3 |
| 47.5°  | 421.7 | 425.1 | 428.5 | 431.9 | 435.4 | 439.0 | 442.8 | 446.7 | 450.5 | 454.3 | 457.5 |
| 50°    | 401.5 | 405.4 | 409.2 | 413.1 | 417.0 | 420.8 | 424.6 | 428.5 | 432.3 | 436.2 | 439.6 |
| 52.5°  | 381.4 | 385.3 | 389.1 | 392.9 | 396.8 | 400.9 | 405.4 | 409.7 | 414.1 | 418.5 | 422.0 |
| 55°    | 352.0 | 355.7 | 359.4 | 363.0 | 366.7 | 371.1 | 376.4 | 381.6 | 386.9 | 392.1 | 395.7 |
| 57.5°  | 319.2 | 323.8 | 328.3 | 332.9 | 337.4 | 342.2 | 347.4 | 352.6 | 357.9 | 363.0 | 367.2 |
| 60°    | 297.8 | 302.4 | 306.9 | 311.4 | 316.0 | 321.1 | 326.9 | 332.6 | 338.4 | 344.2 | 348.2 |
| 62.5°  | 277.1 | 282.1 | 287.0 | 292.0 | 296.9 | 302.3 | 308.0 | 313.8 | 319.6 | 325.4 | 329.3 |
| 65°    | 243.6 | 249.2 | 254.8 | 260.3 | 266.0 | 271.8 | 277.6 | 283.6 | 289.5 | 295.5 | 299.8 |
| 67.5°  | 211.4 | 217.3 | 223.3 | 229.2 | 235.1 | 241.3 | 247.6 | 254.0 | 260.3 | 266.7 | 271.1 |
| 70°    | 189.3 | 195.3 | 201.3 | 207.2 | 213.2 | 219.4 | 226.0 | 232.7 | 239.3 | 246.0 | 250.6 |
| 72.5°  | 168.0 | 174.1 | 180.2 | 186.2 | 192.3 | 198.8 | 205.9 | 213.0 | 220.0 | 227.1 | 231.7 |
| 75°    | 135.1 | 141.6 | 148.0 | 154.5 | 161.0 | 167.9 | 175.2 | 182.6 | 190.0 | 197.2 | 202.2 |
| 77.5°  | 104.5 | 111.4 | 118.3 | 125.0 | 131.9 | 139.2 | 146.8 | 154.5 | 162.2 | 169.9 | 174.8 |
| 80°    | 85.6  | 92.6  | 99.7  | 106.6 | 113.6 | 120.9 | 128.7 | 136.3 | 144.0 | 151.7 | 156.9 |
| 82.5°  | 66.8  | 74.0  | 81.3  | 88.6  | 95.8  | 103.3 | 111.0 | 118.7 | 126.3 | 134.1 | 139.5 |
| 85°    | 41.6  | 49.0  | 56.4  | 63.6  | 71.0  | 78.6  | 86.4  | 94.3  | 102.2 | 110.0 | 115.2 |
| 87.5°  | 23.8  | 31.5  | 39.1  | 46.8  | 54.3  | 62.1  | 70.2  | 78.2  | 86.1  | 94.2  | 99.5  |
| 90°    | 15.6  | 25.0  | 34.5  | 43.9  | 53.4  | 62.8  | 72.1  | 81.4  | 90.7  | 100.0 | 106.3 |
| 92.5°  | 24.6  | 31.1  | 37.5  | 43.9  | 50.3  | 58.2  | 67.5  | 76.7  | 86.1  | 95.4  | 101.7 |
| 95°    | 65.6  | 63.8  | 61.9  | 60.1  | 58.3  | 61.0  | 68.4  | 75.7  | 83.1  | 90.6  | 96.6  |
| 97.5°  | 127.0 | 136.7 | 146.4 | 156.1 | 165.8 | 161.8 | 143.8 | 125.9 | 108.1 | 90.1  | 94.8  |
| 100°   | 174.0 | 182.6 | 191.2 | 199.7 | 208.2 | 200.5 | 176.4 | 152.3 | 128.2 | 104.1 | 105.0 |
| 102.5° | 227.2 | 234.2 | 241.1 | 248.0 | 255.0 | 259.7 | 262.4 | 265.0 | 267.6 | 270.3 | 233.8 |
| 105°   | 310.5 | 315.4 | 320.2 | 325.1 | 329.8 | 336.1 | 343.7 | 351.2 | 358.8 | 366.4 | 372.7 |
| 107.5° | 389.2 | 392.7 | 396.3 | 399.8 | 403.3 | 408.9 | 416.6 | 424.2 | 431.8 | 439.5 | 444.7 |
| 110°   | 441.8 | 444.9 | 448.1 | 451.1 | 454.2 | 459.6 | 467.0 | 474.4 | 481.9 | 489.4 | 493.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 492.8  | 496.1  | 499.6  | 502.9  | 506.2  | 511.2  | 517.7  | 524.1  | 530.6  | 537.0  | 540.8  |
| 115°   | 571.3  | 573.5  | 575.7  | 578.0  | 580.3  | 584.1  | 589.5  | 594.8  | 600.2  | 605.5  | 609.8  |
| 117.5° | 642.7  | 644.5  | 646.4  | 648.2  | 650.1  | 653.8  | 659.5  | 665.2  | 671.0  | 676.6  | 680.1  |
| 120°   | 690.4  | 691.9  | 693.3  | 694.7  | 696.1  | 699.2  | 704.1  | 708.9  | 713.8  | 718.6  | 722.6  |
| 122.5° | 735.6  | 736.3  | 736.9  | 737.5  | 738.2  | 741.0  | 746.2  | 751.2  | 756.4  | 761.4  | 765.2  |
| 125°   | 799.5  | 800.3  | 801.0  | 801.7  | 802.4  | 804.8  | 808.7  | 812.6  | 816.5  | 820.4  | 824.5  |
| 127.5° | 860.7  | 860.7  | 860.8  | 860.8  | 860.9  | 863.1  | 867.5  | 871.9  | 876.3  | 880.6  | 883.6  |
| 130°   | 899.6  | 899.6  | 899.7  | 899.7  | 899.8  | 901.5  | 905.0  | 908.5  | 911.9  | 915.4  | 918.8  |
| 132.5° | 935.8  | 936.1  | 936.3  | 936.5  | 936.8  | 938.5  | 941.5  | 944.6  | 947.7  | 950.8  | 954.0  |
| 135°   | 989.6  | 989.3  | 989.1  | 988.9  | 988.7  | 989.6  | 991.7  | 993.8  | 995.9  | 998.0  | 1001.3 |
| 137.5° | 1037.7 | 1037.6 | 1037.5 | 1037.4 | 1037.3 | 1038.1 | 1039.7 | 1041.3 | 1042.9 | 1044.4 | 1047.4 |
| 140°   | 1069.1 | 1069.4 | 1069.8 | 1070.0 | 1070.3 | 1070.8 | 1071.4 | 1072.0 | 1072.6 | 1073.2 | 1076.1 |
| 142.5° | 1096.8 | 1097.5 | 1098.3 | 1099.0 | 1099.8 | 1100.3 | 1100.4 | 1100.7 | 1100.9 | 1101.0 | 1103.5 |
| 145°   | 1139.9 | 1140.4 | 1140.9 | 1141.5 | 1142.0 | 1142.2 | 1142.2 | 1142.2 | 1142.2 | 1142.2 | 1143.5 |
| 147.5° | 1174.5 | 1175.5 | 1176.6 | 1177.7 | 1178.7 | 1179.2 | 1178.9 | 1178.7 | 1178.5 | 1178.3 | 1178.6 |
| 150°   | 1199.4 | 1200.1 | 1200.8 | 1201.6 | 1202.3 | 1202.5 | 1202.3 | 1202.1 | 1201.9 | 1201.6 | 1201.6 |
| 152.5° | 1219.8 | 1220.4 | 1221.1 | 1221.8 | 1222.5 | 1222.6 | 1222.2 | 1221.8 | 1221.4 | 1221.0 | 1221.4 |
| 155°   | 1249.1 | 1249.3 | 1249.5 | 1249.7 | 1249.9 | 1249.7 | 1249.1 | 1248.4 | 1247.7 | 1247.1 | 1247.9 |
| 157.5° | 1273.8 | 1273.7 | 1273.5 | 1273.4 | 1273.3 | 1272.8 | 1272.1 | 1271.3 | 1270.6 | 1269.8 | 1271.0 |
| 160°   | 1288.4 | 1287.7 | 1287.1 | 1286.4 | 1285.7 | 1285.3 | 1285.1 | 1284.8 | 1284.5 | 1284.3 | 1285.7 |
| 162.5° | 1301.3 | 1300.4 | 1299.6 | 1298.7 | 1297.9 | 1297.4 | 1297.1 | 1296.9 | 1296.7 | 1296.5 | 1297.8 |
| 165°   | 1317.6 | 1316.5 | 1315.3 | 1314.2 | 1313.1 | 1312.5 | 1312.5 | 1312.5 | 1312.5 | 1312.5 | 1314.3 |
| 167.5° | 1330.5 | 1329.4 | 1328.2 | 1327.1 | 1325.9 | 1325.2 | 1325.0 | 1324.9 | 1324.8 | 1324.6 | 1326.7 |
| 170°   | 1337.8 | 1336.5 | 1335.0 | 1333.7 | 1332.4 | 1331.8 | 1332.0 | 1332.3 | 1332.5 | 1332.7 | 1334.5 |
| 172.5° | 1342.6 | 1341.3 | 1339.9 | 1338.6 | 1337.3 | 1336.7 | 1336.9 | 1337.2 | 1337.4 | 1337.6 | 1339.4 |
| 175°   | 1347.9 | 1346.6 | 1345.1 | 1343.8 | 1342.5 | 1341.9 | 1342.1 | 1342.4 | 1342.6 | 1342.8 | 1344.8 |
| 177.5° | 1350.3 | 1349.0 | 1347.8 | 1346.6 | 1345.2 | 1344.8 | 1345.1 | 1345.5 | 1345.8 | 1346.3 | 1347.7 |
| 180°   | 1347.9 | 1347.9 | 1347.9 | 1347.9 | 1347.9 | 1347.9 | 1347.9 | 1347.9 | 1347.9 | 1347.9 | 1347.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 701.8 | 701.8 | 701.8 | 701.8 | 701.8 | 701.8 | 701.8 | 701.8 |
| 2.5°   | 699.3 | 700.2 | 701.3 | 701.7 | 701.6 | 701.4 | 701.3 | 701.1 |
| 5°     | 697.5 | 698.8 | 700.2 | 700.8 | 700.7 | 700.5 | 700.3 | 700.1 |
| 7.5°   | 693.8 | 695.3 | 696.9 | 697.6 | 697.4 | 697.2 | 697.0 | 696.9 |
| 10°    | 689.9 | 691.6 | 693.1 | 693.8 | 693.7 | 693.5 | 693.3 | 693.1 |
| 12.5°  | 684.7 | 686.1 | 687.5 | 688.2 | 688.2 | 688.1 | 688.1 | 688.1 |
| 15°    | 675.0 | 676.6 | 678.1 | 678.8 | 678.7 | 678.5 | 678.3 | 678.1 |
| 17.5°  | 663.3 | 664.9 | 666.5 | 667.2 | 667.1 | 667.0 | 666.8 | 666.7 |
| 20°    | 654.2 | 655.9 | 657.6 | 658.5 | 658.5 | 658.5 | 658.5 | 658.5 |
| 22.5°  | 643.5 | 645.2 | 646.9 | 648.0 | 648.2 | 648.5 | 648.8 | 649.1 |
| 25°    | 627.0 | 628.9 | 630.9 | 631.9 | 632.1 | 632.3 | 632.4 | 632.6 |
| 27.5°  | 608.5 | 610.3 | 612.1 | 613.1 | 613.3 | 613.5 | 613.7 | 613.9 |
| 30°    | 595.6 | 597.5 | 599.5 | 600.6 | 600.9 | 601.3 | 601.6 | 602.0 |
| 32.5°  | 582.3 | 584.5 | 586.7 | 587.9 | 588.3 | 588.7 | 589.1 | 589.4 |
| 35°    | 561.3 | 563.7 | 566.1 | 567.6 | 568.2 | 568.7 | 569.2 | 569.8 |
| 37.5°  | 539.4 | 541.8 | 544.3 | 545.8 | 546.3 | 546.9 | 547.4 | 548.1 |
| 40°    | 523.9 | 526.5 | 529.2 | 530.8 | 531.5 | 532.2 | 532.9 | 533.6 |
| 42.5°  | 508.8 | 511.6 | 514.5 | 516.2 | 516.8 | 517.4 | 518.0 | 518.5 |
| 45°    | 485.3 | 488.3 | 491.2 | 493.1 | 494.0 | 494.9 | 495.7 | 496.7 |
| 47.5°  | 460.5 | 463.6 | 466.7 | 468.7 | 469.8 | 470.8 | 471.9 | 472.9 |
| 50°    | 443.1 | 446.7 | 450.1 | 452.4 | 453.4 | 454.4 | 455.6 | 456.6 |
| 52.5°  | 425.6 | 429.0 | 432.5 | 434.7 | 435.9 | 436.9 | 437.9 | 439.0 |
| 55°    | 399.1 | 402.6 | 406.1 | 408.4 | 409.4 | 410.5 | 411.5 | 412.5 |
| 57.5°  | 371.3 | 375.6 | 379.7 | 382.2 | 383.2 | 384.2 | 385.2 | 386.2 |
| 60°    | 352.2 | 356.3 | 360.2 | 362.9 | 364.4 | 365.8 | 367.2 | 368.6 |
| 62.5°  | 333.4 | 337.4 | 341.4 | 344.1 | 345.5 | 346.9 | 348.3 | 349.7 |
| 65°    | 304.2 | 308.6 | 313.0 | 315.8 | 317.2 | 318.6 | 320.0 | 321.4 |
| 67.5°  | 275.6 | 280.0 | 284.5 | 287.3 | 288.7 | 290.0 | 291.4 | 292.8 |
| 70°    | 255.4 | 260.1 | 264.8 | 267.8 | 269.0 | 270.2 | 271.5 | 272.7 |
| 72.5°  | 236.2 | 240.9 | 245.4 | 248.3 | 249.7 | 251.1 | 252.5 | 253.8 |
| 75°    | 207.0 | 211.9 | 216.8 | 220.0 | 221.6 | 223.2 | 224.8 | 226.3 |
| 77.5°  | 179.9 | 184.8 | 189.8 | 193.1 | 194.7 | 196.4 | 198.0 | 199.8 |
| 80°    | 162.2 | 167.3 | 172.6 | 175.9 | 177.3 | 178.7 | 180.2 | 181.6 |
| 82.5°  | 144.8 | 150.2 | 155.6 | 159.1 | 160.6 | 162.1 | 163.6 | 165.2 |
| 85°    | 120.5 | 125.7 | 131.0 | 134.5 | 136.2 | 137.9 | 139.7 | 141.5 |
| 87.5°  | 104.8 | 110.2 | 115.5 | 119.0 | 120.6 | 122.2 | 123.9 | 125.5 |
| 90°    | 112.8 | 119.2 | 125.6 | 129.8 | 131.6 | 133.4 | 135.3 | 137.1 |
| 92.5°  | 108.0 | 114.2 | 120.5 | 124.3 | 125.8 | 127.3 | 128.9 | 130.3 |
| 95°    | 102.7 | 108.8 | 114.8 | 118.8 | 120.5 | 122.3 | 124.1 | 125.9 |
| 97.5°  | 99.6  | 104.2 | 109.0 | 112.2 | 113.9 | 115.6 | 117.3 | 119.1 |
| 100°   | 105.9 | 106.8 | 107.8 | 108.9 | 110.4 | 111.8 | 113.2 | 114.6 |
| 102.5° | 197.3 | 160.8 | 124.2 | 106.7 | 108.2 | 109.5 | 110.9 | 112.3 |
| 105°   | 379.2 | 385.6 | 391.9 | 391.8 | 385.2 | 378.5 | 371.7 | 365.1 |
| 107.5° | 450.0 | 455.3 | 460.6 | 464.3 | 466.4 | 468.5 | 470.6 | 472.7 |
| 110°   | 498.3 | 502.8 | 507.3 | 510.5 | 512.6 | 514.6 | 516.7 | 518.8 |





TEST NUMBER: P332565-840

CATALOG NUMBER: S124DIP-S575D1035U840-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 544.6  | 548.4  | 552.2  | 555.2  | 557.4  | 559.7  | 562.0  | 564.2  |
| 115°   | 614.1  | 618.3  | 622.7  | 625.4  | 626.6  | 627.8  | 629.1  | 630.4  |
| 117.5° | 683.7  | 687.2  | 690.7  | 693.2  | 694.5  | 695.8  | 697.1  | 698.4  |
| 120°   | 726.5  | 730.4  | 734.4  | 736.8  | 737.8  | 738.7  | 739.7  | 740.6  |
| 122.5° | 769.0  | 772.7  | 776.5  | 778.8  | 779.6  | 780.4  | 781.2  | 782.0  |
| 125°   | 828.4  | 832.4  | 836.4  | 839.0  | 840.3  | 841.5  | 842.8  | 844.1  |
| 127.5° | 886.7  | 889.7  | 892.7  | 894.6  | 895.6  | 896.7  | 897.7  | 898.7  |
| 130°   | 922.1  | 925.5  | 928.9  | 931.1  | 932.1  | 933.2  | 934.2  | 935.2  |
| 132.5° | 957.3  | 960.5  | 963.7  | 965.7  | 966.6  | 967.5  | 968.4  | 969.3  |
| 135°   | 1004.5 | 1007.7 | 1011.0 | 1013.4 | 1014.9 | 1016.4 | 1017.8 | 1019.4 |
| 137.5° | 1050.6 | 1053.6 | 1056.6 | 1058.5 | 1059.2 | 1060.0 | 1060.8 | 1061.5 |
| 140°   | 1079.0 | 1082.1 | 1085.0 | 1087.0 | 1088.1 | 1089.1 | 1090.3 | 1091.4 |
| 142.5° | 1105.9 | 1108.4 | 1111.0 | 1112.6 | 1113.3 | 1114.1 | 1114.9 | 1115.7 |
| 145°   | 1144.8 | 1146.0 | 1147.3 | 1148.5 | 1149.6 | 1150.7 | 1152.0 | 1153.1 |
| 147.5° | 1178.9 | 1179.2 | 1179.5 | 1180.1 | 1180.9 | 1181.6 | 1182.5 | 1183.3 |
| 150°   | 1201.6 | 1201.6 | 1201.6 | 1201.7 | 1202.0 | 1202.2 | 1202.4 | 1202.6 |
| 152.5° | 1221.7 | 1222.1 | 1222.4 | 1222.5 | 1222.4 | 1222.3 | 1222.1 | 1222.0 |
| 155°   | 1248.8 | 1249.7 | 1250.6 | 1250.7 | 1250.1 | 1249.4 | 1248.7 | 1248.1 |
| 157.5° | 1272.1 | 1273.3 | 1274.4 | 1274.4 | 1273.3 | 1272.1 | 1271.0 | 1269.8 |
| 160°   | 1287.1 | 1288.4 | 1289.7 | 1289.7 | 1288.4 | 1287.1 | 1285.7 | 1284.3 |
| 162.5° | 1299.1 | 1300.5 | 1301.8 | 1301.7 | 1300.2 | 1298.7 | 1297.2 | 1295.7 |
| 165°   | 1316.2 | 1318.0 | 1319.7 | 1319.6 | 1317.6 | 1315.6 | 1313.5 | 1311.5 |
| 167.5° | 1328.6 | 1330.6 | 1332.5 | 1332.4 | 1330.2 | 1328.0 | 1325.6 | 1323.4 |
| 170°   | 1336.4 | 1338.1 | 1339.9 | 1339.7 | 1337.5 | 1335.2 | 1332.9 | 1330.7 |
| 172.5° | 1341.2 | 1342.9 | 1344.7 | 1344.4 | 1342.0 | 1339.6 | 1337.2 | 1334.7 |
| 175°   | 1346.9 | 1348.9 | 1350.9 | 1350.5 | 1347.9 | 1345.1 | 1342.5 | 1339.8 |
| 177.5° | 1349.1 | 1350.5 | 1352.0 | 1351.6 | 1349.5 | 1347.4 | 1345.1 | 1343.0 |
| 180°   | 1347.9 | 1347.9 | 1347.9 | 1347.9 | 1347.9 | 1347.9 | 1347.9 | 1347.9 |

(END OF REPORT)