

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: P331329-840

Luminaire Tested: **S122DIP-S485D1080U840-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331329-840  
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-S485D1080U840-4F0-1E-UDD-F4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

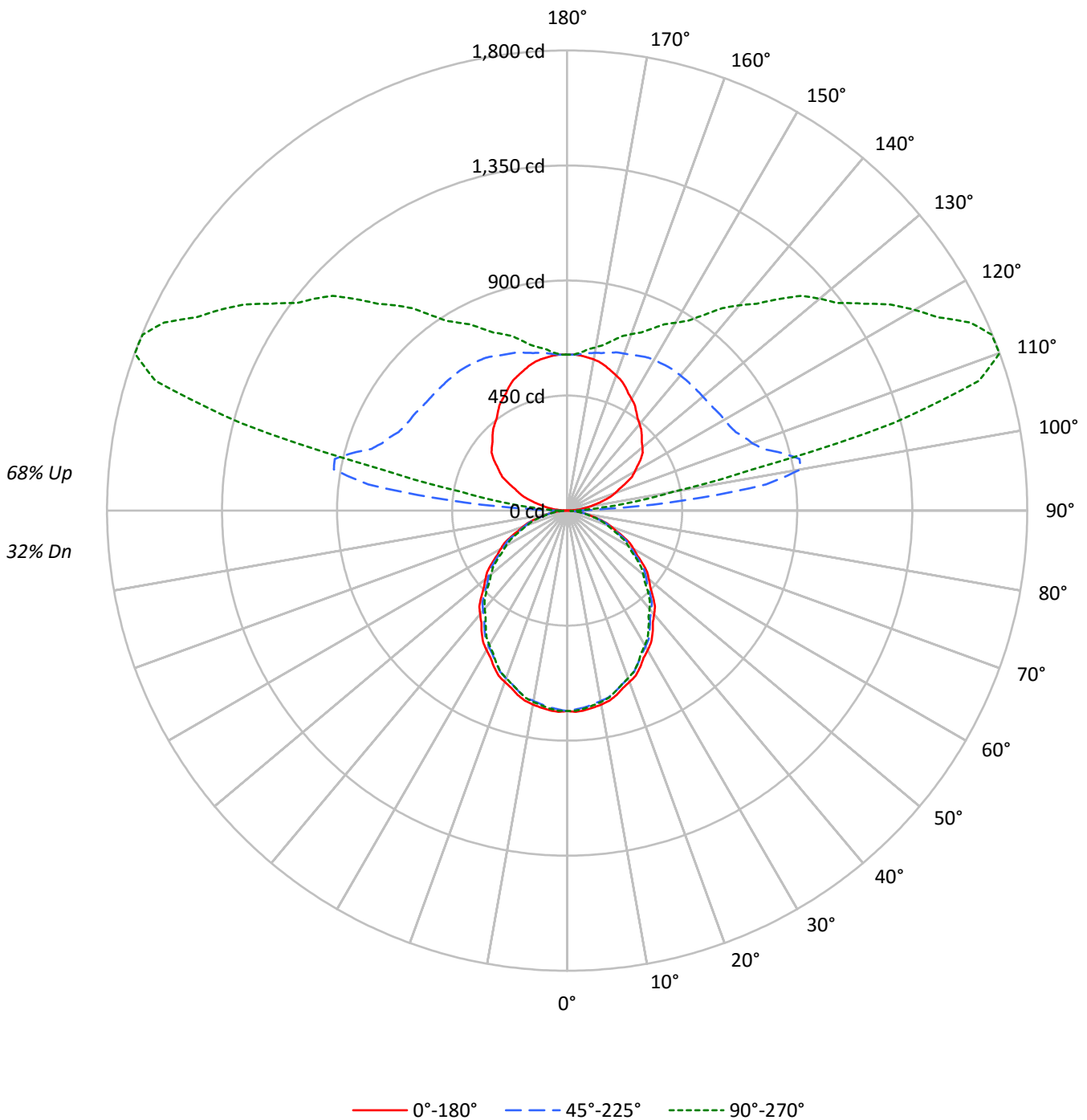
Lumens per Lamp: N/A  
Luminaire Lumens: 6246.0 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 49.4  
Input Voltage (V): 120  
Input Current (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: P331329-840

CATALOG NUMBER: S122DIP-S485D1080U840-4F0-1E-UDD-F4

### Luminous Intensity Polar Plot





TEST NUMBER: P331329-840

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**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   | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 73 | 73 | 73 | 56 | 56 | 56 | 40 | 40 | 40 | 32 |    |    |    |   |
| 1   | 94  | 90  | 86  | 82  | 84 | 81 | 78 | 75 | 64 | 62 | 60 | 49 | 48 | 46 | 35 | 34 | 33 | 27 |    |    |    |   |
| 2   | 85  | 78  | 72  | 67  | 77 | 70 | 65 | 61 | 56 | 53 | 50 | 43 | 41 | 39 | 31 | 29 | 28 | 23 |    |    |    |   |
| 3   | 78  | 69  | 62  | 56  | 70 | 62 | 56 | 51 | 50 | 45 | 42 | 38 | 35 | 33 | 27 | 25 | 24 | 19 |    |    |    |   |
| 4   | 71  | 61  | 53  | 47  | 64 | 55 | 48 | 43 | 44 | 39 | 35 | 34 | 31 | 28 | 24 | 22 | 21 | 16 |    |    |    |   |
| 5   | 65  | 54  | 46  | 40  | 58 | 49 | 42 | 37 | 39 | 34 | 30 | 30 | 27 | 24 | 22 | 20 | 18 | 14 |    |    |    |   |
| 6   | 60  | 48  | 40  | 35  | 54 | 44 | 37 | 32 | 35 | 30 | 26 | 27 | 24 | 21 | 20 | 18 | 16 | 13 |    |    |    |   |
| 7   | 55  | 43  | 36  | 30  | 50 | 39 | 33 | 28 | 32 | 27 | 23 | 25 | 21 | 19 | 18 | 16 | 14 | 11 |    |    |    |   |
| 8   | 51  | 39  | 32  | 27  | 46 | 36 | 29 | 25 | 29 | 24 | 20 | 23 | 19 | 16 | 17 | 14 | 12 | 10 |    |    |    |   |
| 9   | 48  | 36  | 29  | 24  | 43 | 33 | 26 | 22 | 26 | 22 | 18 | 21 | 17 | 15 | 15 | 13 | 11 | 9  |    |    |    |   |
| 10  | 44  | 33  | 26  | 21  | 40 | 30 | 24 | 19 | 24 | 20 | 16 | 19 | 16 | 13 | 14 | 12 | 10 | 8  |    |    |    |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12665 | 12665 | 12665 |
| 5°  | 12713 | 12530 | 12603 |
| 10° | 12637 | 12403 | 12463 |
| 15° | 12481 | 12242 | 12227 |
| 20° | 12259 | 12000 | 11986 |
| 25° | 12039 | 11703 | 11703 |
| 30° | 11757 | 11432 | 11332 |
| 35° | 11491 | 11105 | 10941 |
| 40° | 11160 | 10779 | 10570 |
| 45° | 10832 | 10453 | 10195 |
| 50° | 10477 | 10115 | 9756  |
| 55° | 10106 | 9723  | 9362  |
| 60° | 9691  | 9255  | 8913  |
| 65° | 9249  | 8787  | 8382  |
| 70° | 8686  | 8224  | 7832  |
| 75° | 7904  | 7573  | 7392  |
| 80° | 7011  | 6797  | 6453  |
| 85° | 5724  | 5446  | 4891  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.8   | 1.2       |
| 10°-20°   | 207.5  | 3.3       |
| 20°-30°   | 305.0  | 4.9       |
| 30°-40°   | 354.3  | 5.7       |
| 40°-50°   | 354.0  | 5.7       |
| 50°-60°   | 308.7  | 4.9       |
| 60°-70°   | 228.2  | 3.7       |
| 70°-80°   | 129.3  | 2.1       |
| 80°-90°   | 40.2   | 0.6       |
| 90°-100°  | 243.9  | 3.9       |
| 100°-110° | 827.7  | 13.3      |
| 110°-120° | 879.3  | 14.1      |
| 120°-130° | 723.9  | 11.6      |
| 130°-140° | 581.3  | 9.3       |
| 140°-150° | 439.3  | 7.0       |
| 150°-160° | 308.7  | 4.9       |
| 160°-170° | 181.7  | 2.9       |
| 170°-180° | 59.1   | 0.9       |
| 0°-30°    | 586.3  | 9.4       |
| 0°-40°    | 940.7  | 15.1      |
| 0°-60°    | 1603.3 | 25.7      |
| 0°-90°    | 2001.0 | 32.0      |
| 90°-120°  | 1951.0 | 31.2      |
| 90°-150°  | 3695.4 | 59.2      |
| 90°-180°  | 4245.0 | 68.0      |
| 0°-180°   | 6246.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 784 | 784   | 784 | 784   | 784  |      |
| 5°   | 784 | 781   | 773 | 779   | 778  | 74   |
| 15°  | 747 | 742   | 732 | 735   | 732  | 210  |
| 25°  | 676 | 669   | 657 | 658   | 657  | 311  |
| 35°  | 583 | 575   | 563 | 559   | 555  | 364  |
| 45°  | 474 | 469   | 458 | 450   | 446  | 366  |
| 55°  | 359 | 354   | 345 | 337   | 333  | 321  |
| 65°  | 242 | 237   | 230 | 223   | 219  | 239  |
| 75°  | 127 | 125   | 121 | 117   | 118  | 135  |
| 85°  | 31  | 30    | 29  | 27    | 26   | 35   |
| 90°  | 1   | 16    | 40  | 38    | 39   | 4    |
| 95°  | 41  | 101   | 460 | 174   | 134  | 44   |
| 105° | 143 | 216   | 869 | 1554  | 1322 | 152  |
| 115° | 252 | 319   | 727 | 1501  | 1740 | 250  |
| 125° | 352 | 416   | 699 | 1216  | 1411 | 312  |
| 135° | 413 | 493   | 691 | 1022  | 1170 | 319  |
| 145° | 472 | 542   | 687 | 854   | 934  | 296  |
| 155° | 536 | 579   | 668 | 755   | 785  | 247  |
| 165° | 584 | 602   | 639 | 678   | 689  | 165  |
| 175° | 609 | 609   | 615 | 622   | 621  | 58   |
| 180° | 610 | 610   | 610 | 610   | 610  |      |



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CATALOG NUMBER: S122DIP-S485D1080U840-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 784.4 | 784.4 | 784.4 | 784.4 | 784.4 | 784.4 | 784.4 | 784.4 | 784.4 | 784.4 | 784.4  |
| 2.5°   | 788.0 | 787.3 | 786.7 | 786.0 | 785.3 | 784.3 | 782.7 | 781.3 | 779.8 | 778.3 | 779.7  |
| 5°     | 784.4 | 783.7 | 783.0 | 782.3 | 781.7 | 780.4 | 778.6 | 776.8 | 774.9 | 773.1 | 774.4  |
| 7.5°   | 777.4 | 776.4 | 775.4 | 774.3 | 773.3 | 771.8 | 769.9 | 768.1 | 766.2 | 764.3 | 765.7  |
| 10°    | 770.8 | 769.6 | 768.4 | 767.3 | 766.1 | 764.5 | 762.4 | 760.5 | 758.5 | 756.5 | 757.8  |
| 12.5°  | 761.7 | 760.7 | 759.6 | 758.6 | 757.6 | 756.1 | 754.1 | 752.0 | 750.0 | 748.0 | 748.9  |
| 15°    | 746.7 | 745.7 | 744.7 | 743.7 | 742.7 | 741.0 | 738.8 | 736.7 | 734.5 | 732.4 | 733.0  |
| 17.5°  | 727.3 | 726.4 | 725.4 | 724.4 | 723.4 | 721.8 | 719.5 | 717.3 | 715.1 | 712.9 | 713.7  |
| 20°    | 713.5 | 712.5 | 711.4 | 710.4 | 709.4 | 707.8 | 705.4 | 703.1 | 700.7 | 698.4 | 698.9  |
| 22.5°  | 699.6 | 698.2 | 696.8 | 695.4 | 694.0 | 692.2 | 689.9 | 687.7 | 685.5 | 683.3 | 683.4  |
| 25°    | 675.8 | 674.4 | 673.1 | 671.8 | 670.4 | 668.3 | 665.5 | 662.6 | 659.7 | 656.9 | 657.2  |
| 27.5°  | 648.6 | 647.4 | 646.2 | 645.0 | 643.8 | 642.1 | 639.9 | 637.5 | 635.3 | 633.1 | 632.6  |
| 30°    | 630.6 | 629.1 | 627.8 | 626.5 | 625.1 | 623.2 | 620.7 | 618.2 | 615.7 | 613.2 | 612.7  |
| 32.5°  | 611.2 | 610.2 | 609.0 | 607.9 | 606.9 | 605.0 | 602.4 | 599.8 | 597.1 | 594.5 | 593.6  |
| 35°    | 583.0 | 581.3 | 579.7 | 577.9 | 576.3 | 574.1 | 571.5 | 568.8 | 566.0 | 563.4 | 562.4  |
| 37.5°  | 551.2 | 549.7 | 548.3 | 546.7 | 545.2 | 543.2 | 540.5 | 537.9 | 535.1 | 532.5 | 531.2  |
| 40°    | 529.5 | 528.1 | 526.7 | 525.4 | 524.1 | 522.1 | 519.4 | 516.7 | 514.0 | 511.4 | 509.9  |
| 42.5°  | 508.4 | 507.0 | 505.6 | 504.3 | 503.0 | 501.0 | 498.3 | 495.6 | 492.9 | 490.2 | 488.6  |
| 45°    | 474.4 | 473.2 | 472.0 | 470.9 | 469.7 | 467.9 | 465.3 | 462.8 | 460.3 | 457.8 | 456.0  |
| 47.5°  | 440.6 | 439.5 | 438.4 | 437.3 | 436.2 | 434.3 | 431.7 | 429.1 | 426.5 | 423.8 | 421.9  |
| 50°    | 417.1 | 416.3 | 415.4 | 414.5 | 413.7 | 412.1 | 409.8 | 407.5 | 405.1 | 402.7 | 400.4  |
| 52.5°  | 394.2 | 393.0 | 391.9 | 390.8 | 389.7 | 388.1 | 385.9 | 383.6 | 381.4 | 379.2 | 377.3  |
| 55°    | 359.0 | 358.0 | 357.0 | 356.0 | 355.0 | 353.5 | 351.4 | 349.4 | 347.4 | 345.4 | 343.5  |
| 57.5°  | 323.7 | 322.9 | 322.0 | 321.3 | 320.5 | 319.0 | 316.8 | 314.6 | 312.4 | 310.1 | 308.1  |
| 60°    | 300.1 | 299.5 | 298.8 | 298.1 | 297.5 | 296.0 | 293.7 | 291.2 | 288.9 | 286.6 | 284.8  |
| 62.5°  | 277.2 | 276.2 | 275.1 | 274.0 | 273.0 | 271.6 | 269.7 | 267.9 | 266.1 | 264.3 | 262.6  |
| 65°    | 242.1 | 241.1 | 240.0 | 239.0 | 238.1 | 236.7 | 235.1 | 233.4 | 231.7 | 230.0 | 228.5  |
| 67.5°  | 206.3 | 205.5 | 204.7 | 203.9 | 203.1 | 202.0 | 200.5 | 198.9 | 197.4 | 195.9 | 194.8  |
| 70°    | 184.0 | 183.4 | 182.7 | 182.0 | 181.4 | 180.3 | 178.7 | 177.2 | 175.7 | 174.2 | 173.1  |
| 72.5°  | 161.1 | 160.5 | 159.8 | 159.1 | 158.4 | 157.6 | 156.6 | 155.6 | 154.7 | 153.7 | 152.5  |
| 75°    | 126.7 | 126.3 | 126.0 | 125.7 | 125.3 | 124.8 | 123.9 | 123.1 | 122.3 | 121.4 | 120.4  |
| 77.5°  | 95.9  | 95.3  | 94.8  | 94.2  | 93.6  | 93.2  | 92.9  | 92.5  | 92.2  | 91.9  | 91.4   |
| 80°    | 75.4  | 75.2  | 75.1  | 74.9  | 74.7  | 74.5  | 74.1  | 73.8  | 73.5  | 73.1  | 72.6   |
| 82.5°  | 56.1  | 56.0  | 56.0  | 56.0  | 55.9  | 55.8  | 55.6  | 55.4  | 55.2  | 55.0  | 54.4   |
| 85°    | 30.9  | 30.8  | 30.6  | 30.4  | 30.3  | 30.1  | 29.9  | 29.8  | 29.6  | 29.4  | 28.9   |
| 87.5°  | 11.1  | 11.5  | 12.2  | 12.4  | 12.6  | 13.0  | 13.9  | 15.3  | 16.5  | 16.5  | 15.8   |
| 90°    | 1.2   | 4.6   | 9.4   | 11.7  | 14.0  | 17.6  | 23.4  | 31.7  | 38.7  | 39.9  | 38.7   |
| 92.5°  | 14.3  | 20.6  | 29.1  | 34.2  | 42.2  | 53.2  | 79.8  | 117.0 | 150.4 | 152.5 | 128.9  |
| 95°    | 41.1  | 45.7  | 57.5  | 68.1  | 86.8  | 114.9 | 169.0 | 270.9 | 407.1 | 459.9 | 402.4  |
| 97.5°  | 66.9  | 73.2  | 85.6  | 101.6 | 123.2 | 155.1 | 222.9 | 365.1 | 591.3 | 785.1 | 823.5  |
| 100°   | 90.3  | 93.8  | 104.4 | 123.2 | 146.6 | 179.5 | 241.7 | 384.8 | 638.1 | 926.8 | 1095.7 |
| 102.5° | 111.9 | 114.5 | 125.0 | 143.8 | 168.2 | 201.1 | 258.5 | 385.8 | 620.4 | 931.5 | 1197.1 |
| 105°   | 143.1 | 147.8 | 156.0 | 173.6 | 199.4 | 232.3 | 287.4 | 391.8 | 585.4 | 869.3 | 1181.3 |
| 107.5° | 176.9 | 180.7 | 188.6 | 204.8 | 230.5 | 263.5 | 317.0 | 408.0 | 568.0 | 802.6 | 1078.3 |
| 110°   | 199.4 | 204.1 | 211.2 | 226.4 | 251.1 | 285.1 | 336.7 | 421.1 | 564.3 | 770.7 | 1013.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 220.0 | 224.8 | 232.8 | 247.0 | 270.7 | 305.7 | 355.5 | 435.3 | 565.2 | 750.1 | 968.6 |
| 115°   | 252.3 | 258.1 | 265.1 | 279.2 | 302.7 | 334.4 | 384.8 | 456.4 | 570.2 | 727.3 | 912.7 |
| 117.5° | 285.6 | 290.2 | 297.3 | 309.7 | 332.2 | 365.1 | 411.7 | 478.9 | 578.6 | 716.3 | 877.5 |
| 120°   | 306.2 | 310.8 | 317.9 | 328.5 | 351.9 | 384.8 | 430.5 | 493.9 | 584.2 | 709.7 | 858.7 |
| 122.5° | 325.9 | 329.6 | 336.7 | 348.2 | 371.6 | 405.5 | 448.4 | 507.1 | 590.8 | 706.0 | 842.7 |
| 125°   | 351.9 | 355.5 | 362.5 | 376.6 | 400.0 | 432.9 | 475.1 | 528.0 | 600.7 | 699.2 | 820.0 |
| 127.5° | 372.5 | 377.3 | 387.2 | 402.6 | 425.2 | 458.9 | 500.0 | 547.3 | 610.8 | 695.2 | 798.9 |
| 130°   | 384.8 | 389.5 | 401.2 | 417.7 | 441.1 | 473.9 | 515.0 | 559.6 | 618.2 | 693.3 | 784.9 |
| 132.5° | 396.1 | 401.7 | 414.3 | 431.7 | 456.2 | 489.0 | 528.2 | 571.8 | 625.7 | 692.4 | 773.6 |
| 135°   | 412.9 | 417.7 | 431.7 | 449.3 | 476.3 | 509.2 | 546.6 | 587.7 | 634.7 | 690.9 | 757.8 |
| 137.5° | 428.9 | 434.5 | 448.6 | 467.4 | 494.1 | 524.6 | 561.7 | 600.0 | 642.7 | 690.7 | 746.8 |
| 140°   | 441.1 | 445.8 | 459.9 | 478.7 | 504.4 | 534.9 | 570.2 | 606.5 | 646.4 | 689.8 | 740.2 |
| 142.5° | 453.3 | 457.1 | 470.2 | 489.0 | 513.8 | 542.5 | 576.7 | 612.2 | 649.2 | 689.8 | 733.7 |
| 145°   | 471.6 | 476.3 | 488.1 | 505.6 | 529.1 | 554.9 | 586.5 | 619.5 | 652.3 | 687.4 | 725.0 |
| 147.5° | 491.3 | 494.8 | 506.0 | 522.3 | 541.8 | 564.7 | 594.5 | 623.4 | 653.2 | 683.3 | 716.1 |
| 150°   | 504.4 | 508.0 | 517.4 | 532.6 | 550.2 | 571.3 | 598.3 | 625.3 | 652.3 | 680.4 | 708.5 |
| 152.5° | 517.6 | 519.3 | 528.6 | 542.0 | 558.7 | 577.8 | 602.1 | 626.2 | 650.4 | 675.7 | 702.0 |
| 155°   | 536.1 | 537.2 | 544.3 | 557.2 | 570.2 | 587.7 | 607.6 | 627.6 | 647.5 | 667.5 | 689.8 |
| 157.5° | 551.6 | 552.8 | 558.5 | 569.7 | 580.0 | 594.8 | 611.7 | 627.6 | 642.2 | 659.0 | 678.3 |
| 160°   | 561.9 | 563.1 | 567.7 | 577.1 | 586.5 | 599.5 | 613.6 | 627.6 | 639.3 | 653.5 | 669.8 |
| 162.5° | 572.3 | 571.6 | 576.2 | 583.7 | 592.2 | 602.3 | 614.5 | 626.7 | 636.5 | 648.7 | 662.4 |
| 165°   | 584.2 | 583.1 | 585.4 | 592.4 | 598.3 | 605.3 | 615.9 | 624.1 | 631.2 | 639.3 | 649.9 |
| 167.5° | 594.1 | 592.7 | 594.8 | 599.3 | 603.5 | 607.9 | 615.6 | 622.5 | 625.7 | 631.2 | 637.7 |
| 170°   | 600.7 | 598.3 | 599.5 | 603.0 | 605.3 | 608.8 | 614.7 | 620.6 | 622.9 | 626.4 | 631.2 |
| 172.5° | 604.4 | 603.0 | 602.3 | 605.8 | 607.2 | 609.8 | 613.8 | 617.7 | 619.1 | 620.9 | 624.6 |
| 175°   | 608.8 | 607.6 | 606.5 | 608.8 | 608.8 | 610.1 | 612.4 | 614.7 | 613.6 | 614.7 | 615.9 |
| 177.5° | 611.0 | 609.0 | 608.1 | 610.1 | 610.1 | 610.1 | 611.0 | 612.9 | 611.0 | 610.1 | 611.0 |
| 180°   | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 784.4  | 784.4  | 784.4  | 784.4  | 784.4  | 784.4  | 784.4  | 784.4  |
| 2.5°   | 781.0  | 782.3  | 783.7  | 784.3  | 784.0  | 783.7  | 783.5  | 783.2  |
| 5°     | 775.8  | 777.1  | 778.4  | 778.9  | 778.6  | 778.2  | 777.9  | 777.6  |
| 7.5°   | 767.0  | 768.3  | 769.7  | 770.1  | 769.8  | 769.4  | 769.0  | 768.7  |
| 10°    | 759.1  | 760.5  | 761.8  | 762.2  | 761.7  | 761.2  | 760.7  | 760.2  |
| 12.5°  | 749.9  | 750.8  | 751.7  | 752.0  | 751.6  | 751.3  | 750.9  | 750.5  |
| 15°    | 733.7  | 734.4  | 735.0  | 734.9  | 734.1  | 733.3  | 732.5  | 731.5  |
| 17.5°  | 714.4  | 715.2  | 716.0  | 715.9  | 715.1  | 714.4  | 713.6  | 712.8  |
| 20°    | 699.4  | 699.9  | 700.4  | 700.3  | 699.6  | 698.9  | 698.3  | 697.6  |
| 22.5°  | 683.5  | 683.6  | 683.7  | 683.6  | 683.2  | 682.8  | 682.4  | 682.0  |
| 25°    | 657.6  | 657.9  | 658.2  | 658.2  | 657.9  | 657.6  | 657.2  | 656.9  |
| 27.5°  | 632.1  | 631.6  | 631.1  | 630.5  | 629.7  | 628.8  | 628.0  | 627.2  |
| 30°    | 612.2  | 611.7  | 611.2  | 610.6  | 609.9  | 609.3  | 608.5  | 607.8  |
| 32.5°  | 592.7  | 591.8  | 590.9  | 590.1  | 589.4  | 588.8  | 588.0  | 587.3  |
| 35°    | 561.4  | 560.4  | 559.4  | 558.5  | 557.6  | 556.7  | 555.9  | 555.1  |
| 37.5°  | 530.0  | 528.8  | 527.6  | 526.4  | 525.6  | 524.8  | 524.0  | 523.3  |
| 40°    | 508.4  | 506.9  | 505.3  | 504.2  | 503.5  | 502.9  | 502.2  | 501.5  |
| 42.5°  | 487.0  | 485.3  | 483.6  | 482.4  | 481.4  | 480.5  | 479.6  | 478.6  |
| 45°    | 454.1  | 452.3  | 450.4  | 449.2  | 448.5  | 447.9  | 447.2  | 446.5  |
| 47.5°  | 420.0  | 418.0  | 416.1  | 414.7  | 413.6  | 412.7  | 411.7  | 410.7  |
| 50°    | 398.1  | 395.7  | 393.3  | 391.7  | 390.9  | 390.1  | 389.2  | 388.4  |
| 52.5°  | 375.4  | 373.3  | 371.4  | 369.9  | 368.8  | 367.7  | 366.6  | 365.5  |
| 55°    | 341.4  | 339.4  | 337.4  | 336.0  | 335.1  | 334.3  | 333.5  | 332.6  |
| 57.5°  | 306.2  | 304.2  | 302.3  | 300.9  | 300.2  | 299.6  | 299.0  | 298.3  |
| 60°    | 282.9  | 281.0  | 279.2  | 278.0  | 277.5  | 277.0  | 276.5  | 276.0  |
| 62.5°  | 260.8  | 259.1  | 257.4  | 256.3  | 255.6  | 255.0  | 254.4  | 253.7  |
| 65°    | 227.0  | 225.5  | 224.0  | 222.8  | 222.0  | 221.2  | 220.4  | 219.4  |
| 67.5°  | 193.6  | 192.4  | 191.3  | 190.4  | 189.7  | 188.9  | 188.3  | 187.6  |
| 70°    | 171.9  | 170.7  | 169.6  | 168.6  | 167.9  | 167.2  | 166.6  | 165.9  |
| 72.5°  | 151.4  | 150.2  | 149.1  | 148.1  | 147.6  | 147.0  | 146.5  | 146.0  |
| 75°    | 119.4  | 118.5  | 117.4  | 117.0  | 117.4  | 117.8  | 118.1  | 118.5  |
| 77.5°  | 90.9   | 90.4   | 89.9   | 89.4   | 88.9   | 88.5   | 88.0   | 87.5   |
| 80°    | 72.1   | 71.6   | 71.2   | 70.7   | 70.4   | 70.1   | 69.7   | 69.4   |
| 82.5°  | 53.8   | 53.1   | 52.5   | 52.1   | 52.1   | 52.0   | 51.9   | 51.9   |
| 85°    | 28.4   | 27.9   | 27.4   | 27.1   | 26.9   | 26.8   | 26.6   | 26.4   |
| 87.5°  | 15.1   | 14.2   | 14.3   | 14.3   | 14.1   | 14.0   | 13.9   | 13.7   |
| 90°    | 37.6   | 35.2   | 37.6   | 38.7   | 38.7   | 38.7   | 38.7   | 38.7   |
| 92.5°  | 102.3  | 87.8   | 77.9   | 70.6   | 69.7   | 65.9   | 66.9   | 65.0   |
| 95°    | 307.4  | 235.8  | 186.5  | 160.7  | 145.4  | 136.1  | 132.6  | 133.7  |
| 97.5°  | 717.2  | 586.8  | 459.9  | 375.2  | 319.1  | 290.2  | 273.1  | 263.3  |
| 100°   | 1071.1 | 925.6  | 764.9  | 622.9  | 525.5  | 475.1  | 441.1  | 420.0  |
| 102.5° | 1302.9 | 1270.0 | 1152.5 | 1002.1 | 896.3  | 810.2  | 767.7  | 739.1  |
| 105°   | 1425.3 | 1557.9 | 1573.2 | 1534.5 | 1461.7 | 1389.0 | 1338.6 | 1322.1 |
| 107.5° | 1337.2 | 1536.8 | 1658.8 | 1715.6 | 1724.7 | 1720.7 | 1710.6 | 1688.8 |
| 110°   | 1261.1 | 1471.1 | 1621.2 | 1717.5 | 1767.9 | 1790.2 | 1800.8 | 1799.6 |





TEST NUMBER: P331329-840

CATALOG NUMBER: S122DIP-S485D1080U840-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1191.6 | 1393.2 | 1553.7 | 1664.0 | 1734.1 | 1771.4 | 1791.4 | 1797.7 |
| 115°   | 1106.3 | 1287.0 | 1440.6 | 1561.5 | 1644.8 | 1698.7 | 1729.2 | 1739.8 |
| 117.5° | 1042.0 | 1200.6 | 1340.0 | 1453.3 | 1538.2 | 1595.2 | 1627.4 | 1636.3 |
| 120°   | 1010.1 | 1155.5 | 1279.9 | 1386.6 | 1468.7 | 1523.9 | 1557.9 | 1569.6 |
| 122.5° | 984.7  | 1118.0 | 1235.8 | 1332.2 | 1405.8 | 1460.1 | 1490.4 | 1500.2 |
| 125°   | 947.9  | 1068.7 | 1171.9 | 1259.9 | 1328.0 | 1372.6 | 1401.9 | 1411.3 |
| 127.5° | 911.5  | 1020.9 | 1118.2 | 1199.4 | 1258.8 | 1300.5 | 1325.9 | 1333.4 |
| 130°   | 888.1  | 989.0  | 1081.7 | 1159.0 | 1216.6 | 1256.5 | 1279.9 | 1289.3 |
| 132.5° | 865.6  | 959.0  | 1044.1 | 1116.8 | 1173.4 | 1213.3 | 1234.9 | 1243.2 |
| 135°   | 834.0  | 911.5  | 989.0  | 1054.6 | 1105.1 | 1143.8 | 1164.9 | 1169.6 |
| 137.5° | 809.0  | 873.7  | 935.2  | 992.5  | 1038.4 | 1071.8 | 1090.4 | 1097.3 |
| 140°   | 793.0  | 849.4  | 903.3  | 954.9  | 992.5  | 1023.0 | 1040.6 | 1047.6 |
| 142.5° | 779.9  | 827.8  | 874.2  | 917.4  | 953.0  | 980.8  | 996.4  | 997.8  |
| 145°   | 761.3  | 800.1  | 836.5  | 870.5  | 898.6  | 918.6  | 930.3  | 933.8  |
| 147.5° | 747.1  | 777.6  | 806.0  | 830.8  | 854.0  | 870.0  | 878.0  | 880.1  |
| 150°   | 736.7  | 762.5  | 787.2  | 808.3  | 825.9  | 840.0  | 847.0  | 848.2  |
| 152.5° | 726.4  | 750.3  | 771.2  | 789.5  | 803.3  | 815.6  | 820.7  | 820.9  |
| 155°   | 712.1  | 730.8  | 748.4  | 761.3  | 774.3  | 782.4  | 787.2  | 784.9  |
| 157.5° | 695.4  | 711.1  | 725.9  | 736.0  | 745.2  | 751.9  | 754.1  | 754.1  |
| 160°   | 685.1  | 698.0  | 710.9  | 719.1  | 727.3  | 733.2  | 734.4  | 734.4  |
| 162.5° | 674.8  | 685.8  | 696.8  | 703.2  | 711.3  | 715.4  | 716.5  | 715.6  |
| 165°   | 659.3  | 667.5  | 675.7  | 680.4  | 685.1  | 689.8  | 689.8  | 688.6  |
| 167.5° | 644.5  | 650.9  | 656.5  | 660.8  | 662.8  | 665.4  | 665.2  | 663.8  |
| 170°   | 637.0  | 640.6  | 645.2  | 647.5  | 648.7  | 652.3  | 651.1  | 648.7  |
| 172.5° | 628.5  | 631.2  | 634.9  | 636.3  | 637.5  | 639.1  | 637.9  | 636.5  |
| 175°   | 619.5  | 620.6  | 621.8  | 622.9  | 622.9  | 624.1  | 622.9  | 620.6  |
| 177.5° | 612.9  | 612.9  | 613.8  | 613.8  | 613.8  | 613.8  | 612.9  | 611.0  |
| 180°   | 610.1  | 610.1  | 610.1  | 610.1  | 610.1  | 610.1  | 610.1  | 610.1  |

(END OF REPORT)