

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: P331506-940

Luminaire Tested: **S122DIW-S485D710U940-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331506-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S485D710U940-4F0-1E-UDD-F1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 710 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3957.7 lumens  
Efficiency: N/A  
Efficacy: 105.3 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: General Diffuse

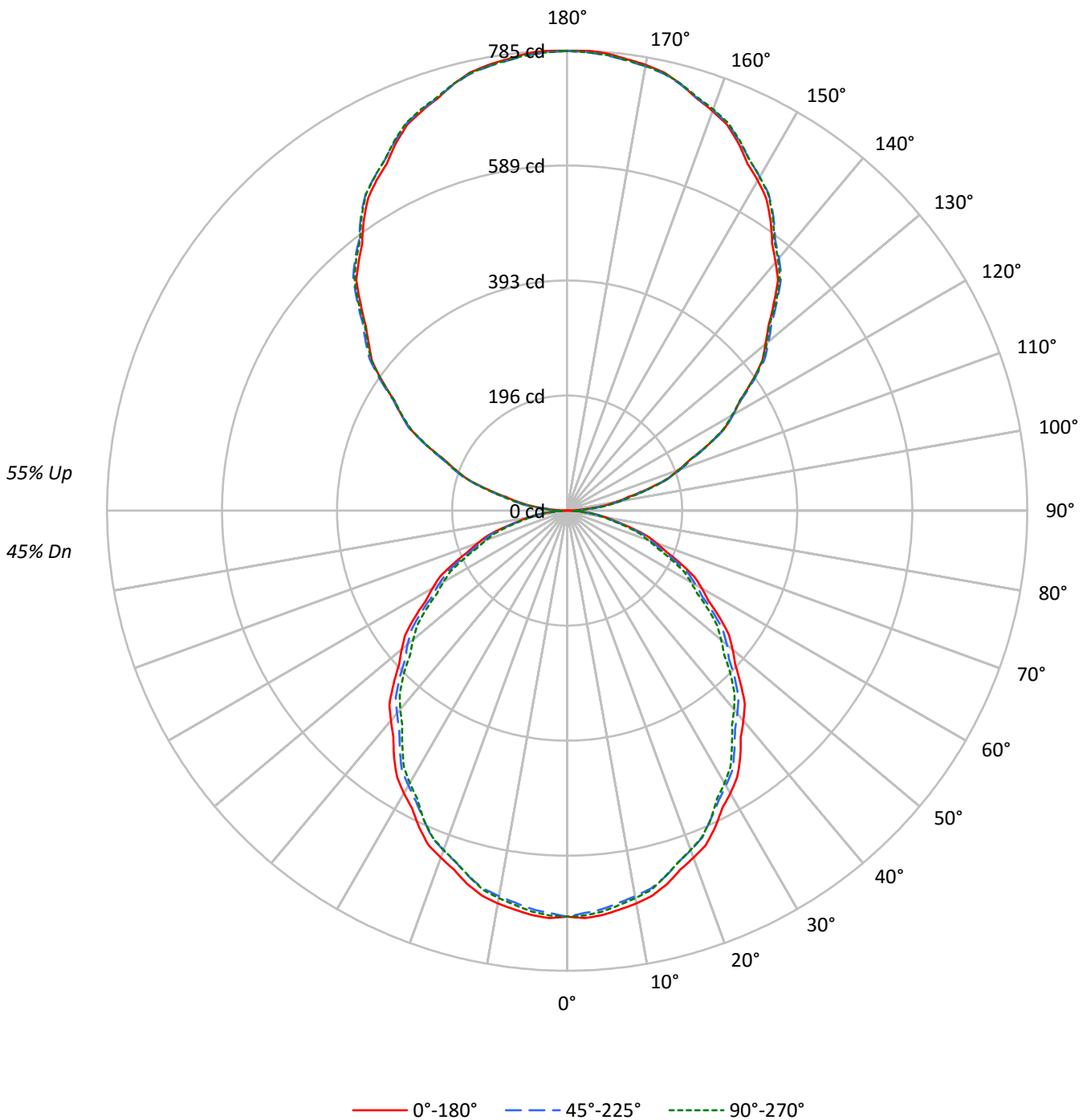
Input Watts (W): 37.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331506-940

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### Luminous Intensity Polar Plot





TEST NUMBER: P331506-940

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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 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 51 | 51 | 51 | 45 |
| 1   | 97  | 92  | 88  | 85  | 88 | 85 | 81 | 78 | 70 | 68 | 66 | 57 | 56 | 54 | 45 | 44 | 43 | 38 |
| 2   | 88  | 81  | 74  | 69  | 80 | 74 | 69 | 64 | 62 | 58 | 55 | 50 | 48 | 45 | 40 | 38 | 36 | 31 |
| 3   | 80  | 71  | 64  | 58  | 73 | 65 | 59 | 54 | 54 | 50 | 46 | 44 | 41 | 38 | 35 | 33 | 31 | 27 |
| 4   | 73  | 63  | 55  | 49  | 67 | 58 | 51 | 45 | 48 | 43 | 39 | 40 | 36 | 33 | 31 | 29 | 27 | 23 |
| 5   | 67  | 56  | 48  | 42  | 61 | 51 | 44 | 39 | 43 | 38 | 34 | 36 | 32 | 28 | 28 | 26 | 23 | 20 |
| 6   | 62  | 50  | 42  | 36  | 57 | 46 | 39 | 34 | 39 | 33 | 29 | 32 | 28 | 25 | 26 | 23 | 20 | 17 |
| 7   | 57  | 45  | 37  | 32  | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 23 | 20 | 18 | 15 |
| 8   | 53  | 41  | 33  | 28  | 49 | 38 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 16 | 14 |
| 9   | 49  | 37  | 30  | 25  | 45 | 35 | 28 | 23 | 29 | 24 | 20 | 25 | 20 | 18 | 20 | 17 | 15 | 12 |
| 10  | 46  | 34  | 27  | 22  | 42 | 32 | 25 | 21 | 27 | 22 | 18 | 23 | 19 | 16 | 18 | 15 | 13 | 11 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11183 | 11183 | 11183 |
| 5°  | 11225 | 11063 | 11128 |
| 10° | 11158 | 10952 | 11006 |
| 15° | 11020 | 10810 | 10798 |
| 20° | 10825 | 10596 | 10584 |
| 25° | 10630 | 10334 | 10334 |
| 30° | 10381 | 10094 | 10006 |
| 35° | 10147 | 9806  | 9662  |
| 40° | 9853  | 9518  | 9333  |
| 45° | 9565  | 9229  | 9001  |
| 50° | 9251  | 8932  | 8616  |
| 55° | 8923  | 8586  | 8267  |
| 60° | 8557  | 8173  | 7869  |
| 65° | 8164  | 7759  | 7404  |
| 70° | 7671  | 7260  | 6916  |
| 75° | 6981  | 6687  | 6525  |
| 80° | 6192  | 6007  | 5700  |
| 85° | 5057  | 4798  | 4316  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 65.1   | 1.6       |
| 10°-20°   | 183.3  | 4.6       |
| 20°-30°   | 269.4  | 6.8       |
| 30°-40°   | 312.9  | 7.9       |
| 40°-50°   | 312.5  | 7.9       |
| 50°-60°   | 272.6  | 6.9       |
| 60°-70°   | 201.5  | 5.1       |
| 70°-80°   | 114.1  | 2.9       |
| 80°-90°   | 33.8   | 0.9       |
| 90°-100°  | 49.7   | 1.3       |
| 100°-110° | 154.3  | 3.9       |
| 110°-120° | 263.8  | 6.7       |
| 120°-130° | 346.9  | 8.8       |
| 130°-140° | 389.3  | 9.8       |
| 140°-150° | 381.7  | 9.6       |
| 150°-160° | 320.2  | 8.1       |
| 160°-170° | 212.4  | 5.4       |
| 170°-180° | 74.2   | 1.9       |
| 0°-30°    | 517.7  | 13.1      |
| 0°-40°    | 830.6  | 21.0      |
| 0°-60°    | 1415.7 | 35.8      |
| 0°-90°    | 1765.2 | 44.6      |
| 90°-120°  | 467.8  | 11.8      |
| 90°-150°  | 1585.7 | 40.1      |
| 90°-180°  | 2193.0 | 55.4      |
| 0°-180°   | 3957.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 693 | 693   | 693 | 693   | 693 |      |
| 5°   | 693 | 690   | 683 | 688   | 687 | 66   |
| 15°  | 659 | 655   | 647 | 649   | 646 | 186  |
| 25°  | 597 | 591   | 580 | 581   | 580 | 274  |
| 35°  | 515 | 508   | 498 | 494   | 490 | 321  |
| 45°  | 419 | 414   | 404 | 397   | 394 | 323  |
| 55°  | 317 | 313   | 305 | 297   | 294 | 283  |
| 65°  | 214 | 210   | 203 | 197   | 194 | 211  |
| 75°  | 112 | 110   | 107 | 104   | 105 | 120  |
| 85°  | 27  | 27    | 26  | 24    | 23  | 31   |
| 90°  | 1   | 9     | 23  | 22    | 22  | 3    |
| 95°  | 34  | 41    | 42  | 42    | 41  | 39   |
| 105° | 142 | 144   | 146 | 147   | 147 | 150  |
| 115° | 265 | 268   | 267 | 267   | 265 | 262  |
| 125° | 385 | 391   | 389 | 387   | 386 | 344  |
| 135° | 498 | 505   | 507 | 506   | 504 | 385  |
| 145° | 605 | 609   | 613 | 614   | 611 | 378  |
| 155° | 691 | 693   | 695 | 698   | 697 | 318  |
| 165° | 752 | 752   | 752 | 756   | 753 | 212  |
| 175° | 783 | 781   | 779 | 784   | 780 | 74   |
| 180° | 784 | 784   | 784 | 784   | 784 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 |
| 2.5°   | 695.8 | 695.2 | 694.6 | 694.0 | 693.4 | 692.5 | 691.2 | 689.9 | 688.6 | 687.2 | 688.5 |
| 5°     | 692.6 | 692.0 | 691.4 | 690.8 | 690.3 | 689.1 | 687.5 | 685.9 | 684.2 | 682.6 | 683.8 |
| 7.5°   | 686.4 | 685.5 | 684.7 | 683.7 | 682.8 | 681.5 | 679.8 | 678.2 | 676.5 | 674.8 | 676.1 |
| 10°    | 680.6 | 679.6 | 678.5 | 677.5 | 676.5 | 675.0 | 673.2 | 671.5 | 669.8 | 668.0 | 669.1 |
| 12.5°  | 672.6 | 671.7 | 670.7 | 669.9 | 669.0 | 667.6 | 665.8 | 664.1 | 662.3 | 660.5 | 661.3 |
| 15°    | 659.3 | 658.4 | 657.5 | 656.7 | 655.8 | 654.3 | 652.4 | 650.5 | 648.5 | 646.7 | 647.2 |
| 17.5°  | 642.2 | 641.4 | 640.5 | 639.6 | 638.7 | 637.3 | 635.3 | 633.4 | 631.4 | 629.5 | 630.2 |
| 20°    | 630.0 | 629.1 | 628.2 | 627.3 | 626.4 | 625.0 | 622.9 | 620.8 | 618.8 | 616.7 | 617.2 |
| 22.5°  | 617.8 | 616.5 | 615.3 | 614.0 | 612.8 | 611.2 | 609.2 | 607.3 | 605.3 | 603.3 | 603.4 |
| 25°    | 596.7 | 595.5 | 594.3 | 593.2 | 592.0 | 590.1 | 587.6 | 585.1 | 582.6 | 580.1 | 580.3 |
| 27.5°  | 572.7 | 571.7 | 570.6 | 569.5 | 568.5 | 566.9 | 565.0 | 562.9 | 561.0 | 559.0 | 558.6 |
| 30°    | 556.8 | 555.5 | 554.4 | 553.2 | 552.0 | 550.3 | 548.0 | 545.9 | 543.7 | 541.4 | 541.0 |
| 32.5°  | 539.7 | 538.8 | 537.8 | 536.8 | 535.9 | 534.2 | 531.9 | 529.6 | 527.3 | 525.0 | 524.1 |
| 35°    | 514.8 | 513.3 | 511.8 | 510.3 | 508.9 | 506.9 | 504.6 | 502.2 | 499.8 | 497.5 | 496.6 |
| 37.5°  | 486.7 | 485.4 | 484.1 | 482.8 | 481.4 | 479.7 | 477.2 | 474.9 | 472.5 | 470.2 | 469.0 |
| 40°    | 467.5 | 466.3 | 465.1 | 464.0 | 462.8 | 461.0 | 458.6 | 456.3 | 453.9 | 451.6 | 450.2 |
| 42.5°  | 448.9 | 447.6 | 446.5 | 445.3 | 444.2 | 442.4 | 440.0 | 437.7 | 435.2 | 432.8 | 431.4 |
| 45°    | 418.9 | 417.9 | 416.8 | 415.8 | 414.7 | 413.1 | 410.9 | 408.7 | 406.4 | 404.2 | 402.6 |
| 47.5°  | 389.1 | 388.1 | 387.1 | 386.1 | 385.1 | 383.5 | 381.2 | 378.9 | 376.6 | 374.3 | 372.6 |
| 50°    | 368.3 | 367.6 | 366.8 | 366.0 | 365.3 | 363.9 | 361.9 | 359.8 | 357.7 | 355.6 | 353.6 |
| 52.5°  | 348.0 | 347.1 | 346.1 | 345.1 | 344.1 | 342.7 | 340.7 | 338.8 | 336.8 | 334.8 | 333.1 |
| 55°    | 317.0 | 316.1 | 315.2 | 314.3 | 313.4 | 312.1 | 310.3 | 308.5 | 306.7 | 305.0 | 303.3 |
| 57.5°  | 285.8 | 285.1 | 284.4 | 283.7 | 283.0 | 281.7 | 279.7 | 277.8 | 275.8 | 273.8 | 272.1 |
| 60°    | 265.0 | 264.5 | 263.9 | 263.2 | 262.7 | 261.4 | 259.3 | 257.2 | 255.1 | 253.1 | 251.5 |
| 62.5°  | 244.8 | 243.9 | 242.9 | 241.9 | 241.0 | 239.8 | 238.2 | 236.6 | 235.0 | 233.4 | 231.8 |
| 65°    | 213.7 | 212.9 | 212.0 | 211.1 | 210.3 | 209.0 | 207.6 | 206.1 | 204.6 | 203.1 | 201.8 |
| 67.5°  | 182.2 | 181.5 | 180.7 | 180.0 | 179.3 | 178.3 | 177.0 | 175.7 | 174.3 | 173.0 | 172.0 |
| 70°    | 162.5 | 161.9 | 161.3 | 160.7 | 160.2 | 159.2 | 157.8 | 156.5 | 155.2 | 153.8 | 152.8 |
| 72.5°  | 142.2 | 141.7 | 141.1 | 140.4 | 139.9 | 139.2 | 138.3 | 137.4 | 136.6 | 135.7 | 134.6 |
| 75°    | 111.9 | 111.6 | 111.3 | 111.0 | 110.7 | 110.2 | 109.4 | 108.7 | 108.0 | 107.2 | 106.3 |
| 77.5°  | 84.7  | 84.2  | 83.7  | 83.2  | 82.7  | 82.3  | 82.0  | 81.7  | 81.4  | 81.1  | 80.7  |
| 80°    | 66.6  | 66.4  | 66.3  | 66.2  | 66.0  | 65.8  | 65.5  | 65.2  | 64.9  | 64.6  | 64.1  |
| 82.5°  | 49.6  | 49.5  | 49.5  | 49.5  | 49.4  | 49.3  | 49.1  | 49.0  | 48.8  | 48.6  | 48.1  |
| 85°    | 27.3  | 27.2  | 27.0  | 26.8  | 26.8  | 26.6  | 26.4  | 26.3  | 26.1  | 25.9  | 25.5  |
| 87.5°  | 9.7   | 9.8   | 10.0  | 10.1  | 10.2  | 10.4  | 10.9  | 11.2  | 11.7  | 12.1  | 11.7  |
| 90°    | 0.6   | 2.4   | 4.2   | 6.0   | 7.8   | 10.3  | 13.5  | 16.7  | 19.9  | 23.2  | 22.8  |
| 92.5°  | 11.8  | 13.1  | 14.4  | 15.7  | 16.9  | 18.0  | 18.7  | 19.5  | 20.2  | 21.0  | 21.1  |
| 95°    | 34.4  | 35.8  | 37.4  | 38.8  | 40.3  | 41.2  | 41.5  | 41.7  | 42.1  | 42.4  | 42.4  |
| 97.5°  | 62.9  | 64.1  | 65.5  | 66.7  | 68.0  | 68.9  | 69.6  | 70.1  | 70.6  | 71.2  | 71.2  |
| 100°   | 84.0  | 85.2  | 86.4  | 87.6  | 88.7  | 89.5  | 90.0  | 90.4  | 90.9  | 91.3  | 91.3  |
| 102.5° | 106.3 | 107.2 | 108.2 | 109.1 | 110.0 | 110.8 | 111.4 | 111.9 | 112.4 | 113.0 | 113.2 |
| 105°   | 142.2 | 142.7 | 143.1 | 143.6 | 144.0 | 144.4 | 144.7 | 145.0 | 145.3 | 145.6 | 145.9 |
| 107.5° | 178.5 | 179.1 | 179.9 | 180.5 | 181.1 | 181.5 | 181.5 | 181.5 | 181.5 | 181.5 | 181.6 |
| 110°   | 201.8 | 202.7 | 203.6 | 204.5 | 205.4 | 205.8 | 205.8 | 205.8 | 205.8 | 205.8 | 205.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 227.2 | 228.1 | 229.0 | 229.9 | 230.8 | 231.1 | 231.0 | 230.9 | 230.8 | 230.7 | 230.3 |
| 115°   | 264.7 | 265.6 | 266.4 | 267.3 | 268.2 | 268.5 | 268.2 | 267.9 | 267.6 | 267.3 | 267.2 |
| 117.5° | 302.0 | 303.2 | 304.3 | 305.5 | 306.7 | 306.8 | 306.0 | 305.2 | 304.4 | 303.6 | 303.3 |
| 120°   | 326.9 | 328.1 | 329.2 | 330.4 | 331.5 | 331.5 | 330.4 | 329.2 | 328.1 | 326.9 | 326.9 |
| 122.5° | 349.6 | 351.1 | 352.5 | 353.8 | 355.3 | 355.6 | 354.7 | 353.9 | 353.1 | 352.3 | 352.0 |
| 125°   | 385.1 | 386.5 | 387.7 | 389.1 | 390.4 | 390.8 | 390.4 | 389.9 | 389.5 | 389.1 | 388.6 |
| 127.5° | 419.6 | 421.3 | 423.0 | 424.6 | 426.3 | 427.0 | 426.4 | 425.9 | 425.3 | 424.8 | 424.3 |
| 130°   | 441.3 | 443.3 | 445.1 | 447.1 | 449.0 | 449.8 | 449.5 | 449.2 | 448.9 | 448.6 | 448.4 |
| 132.5° | 465.7 | 467.3 | 468.9 | 470.4 | 471.9 | 472.8 | 472.8 | 472.9 | 473.0 | 473.0 | 472.3 |
| 135°   | 498.3 | 499.9 | 501.5 | 503.1 | 504.7 | 505.7 | 506.0 | 506.3 | 506.6 | 506.8 | 506.7 |
| 137.5° | 532.5 | 533.9 | 535.2 | 536.5 | 537.8 | 538.7 | 539.0 | 539.5 | 539.8 | 540.2 | 540.1 |
| 140°   | 553.2 | 554.5 | 555.8 | 557.1 | 558.5 | 559.5 | 560.3 | 561.0 | 561.7 | 562.4 | 562.4 |
| 142.5° | 574.4 | 575.7 | 577.0 | 578.4 | 579.6 | 580.6 | 581.0 | 581.6 | 582.0 | 582.6 | 582.6 |
| 145°   | 604.8 | 605.8 | 606.8 | 607.9 | 608.9 | 609.8 | 610.7 | 611.6 | 612.5 | 613.4 | 613.5 |
| 147.5° | 632.0 | 633.1 | 634.4 | 635.6 | 636.9 | 637.8 | 638.4 | 638.9 | 639.5 | 640.2 | 640.4 |
| 150°   | 650.4 | 651.3 | 652.2 | 653.1 | 654.0 | 654.7 | 655.3 | 655.9 | 656.5 | 657.1 | 657.5 |
| 152.5° | 666.8 | 667.7 | 668.6 | 669.5 | 670.4 | 671.2 | 671.9 | 672.6 | 673.3 | 674.0 | 674.6 |
| 155°   | 691.4 | 691.9 | 692.3 | 692.8 | 693.2 | 693.7 | 694.1 | 694.6 | 695.0 | 695.4 | 696.2 |
| 157.5° | 712.5 | 712.8 | 713.1 | 713.4 | 713.7 | 714.0 | 714.3 | 714.5 | 714.8 | 715.1 | 716.0 |
| 160°   | 725.2 | 725.5 | 725.8 | 726.1 | 726.4 | 726.7 | 726.7 | 726.9 | 727.0 | 727.2 | 728.1 |
| 162.5° | 736.8 | 736.9 | 737.0 | 737.0 | 737.1 | 737.2 | 737.4 | 737.5 | 737.6 | 737.8 | 738.8 |
| 165°   | 752.3 | 752.2 | 752.1 | 751.9 | 751.8 | 751.7 | 751.7 | 751.7 | 751.7 | 751.7 | 752.7 |
| 167.5° | 765.4 | 764.9 | 764.5 | 764.0 | 763.6 | 763.3 | 763.3 | 763.2 | 763.2 | 763.2 | 764.2 |
| 170°   | 772.2 | 771.8 | 771.3 | 770.9 | 770.4 | 770.2 | 770.0 | 769.8 | 769.7 | 769.5 | 770.6 |
| 172.5° | 776.9 | 776.5 | 776.1 | 775.6 | 775.2 | 774.9 | 774.7 | 774.6 | 774.5 | 774.3 | 775.3 |
| 175°   | 782.7 | 782.4 | 781.9 | 781.5 | 781.0 | 780.7 | 780.3 | 780.1 | 779.8 | 779.4 | 780.5 |
| 177.5° | 785.2 | 784.8 | 784.4 | 784.1 | 783.7 | 783.5 | 783.2 | 783.0 | 782.7 | 782.5 | 783.2 |
| 180°   | 784.1 | 784.1 | 784.1 | 784.1 | 784.1 | 784.1 | 784.1 | 784.1 | 784.1 | 784.1 | 784.1 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 | 692.6 |
| 2.5°   | 689.6 | 690.8 | 692.0 | 692.5 | 692.2 | 692.0 | 691.8 | 691.5 |
| 5°     | 685.0 | 686.2 | 687.3 | 687.8 | 687.5 | 687.2 | 686.9 | 686.6 |
| 7.5°   | 677.3 | 678.4 | 679.7 | 680.0 | 679.8 | 679.4 | 679.0 | 678.8 |
| 10°    | 670.3 | 671.5 | 672.7 | 673.1 | 672.6 | 672.2 | 671.7 | 671.3 |
| 12.5°  | 662.2 | 663.0 | 663.8 | 664.1 | 663.7 | 663.4 | 663.1 | 662.7 |
| 15°    | 647.8 | 648.5 | 649.0 | 648.9 | 648.2 | 647.5 | 646.8 | 646.0 |
| 17.5°  | 630.8 | 631.5 | 632.2 | 632.1 | 631.4 | 630.8 | 630.1 | 629.4 |
| 20°    | 617.6 | 618.0 | 618.5 | 618.4 | 617.8 | 617.2 | 616.6 | 616.0 |
| 22.5°  | 603.5 | 603.6 | 603.7 | 603.6 | 603.2 | 602.9 | 602.5 | 602.2 |
| 25°    | 580.7 | 580.9 | 581.2 | 581.2 | 580.9 | 580.7 | 580.3 | 580.1 |
| 27.5°  | 558.1 | 557.7 | 557.2 | 556.7 | 556.0 | 555.3 | 554.6 | 553.8 |
| 30°    | 540.6 | 540.1 | 539.7 | 539.1 | 538.5 | 538.0 | 537.3 | 536.7 |
| 32.5°  | 523.3 | 522.5 | 521.7 | 521.0 | 520.4 | 519.9 | 519.2 | 518.6 |
| 35°    | 495.7 | 494.8 | 493.9 | 493.1 | 492.4 | 491.6 | 490.9 | 490.2 |
| 37.5°  | 468.0 | 466.9 | 465.8 | 464.8 | 464.1 | 463.4 | 462.7 | 462.1 |
| 40°    | 448.9 | 447.5 | 446.2 | 445.2 | 444.6 | 444.1 | 443.4 | 442.8 |
| 42.5°  | 430.0 | 428.6 | 427.0 | 426.0 | 425.1 | 424.3 | 423.5 | 422.6 |
| 45°    | 401.0 | 399.4 | 397.7 | 396.6 | 396.0 | 395.5 | 394.8 | 394.2 |
| 47.5°  | 370.9 | 369.1 | 367.4 | 366.1 | 365.2 | 364.4 | 363.6 | 362.7 |
| 50°    | 351.5 | 349.4 | 347.3 | 345.9 | 345.2 | 344.5 | 343.7 | 343.0 |
| 52.5°  | 331.4 | 329.7 | 328.0 | 326.6 | 325.7 | 324.7 | 323.7 | 322.7 |
| 55°    | 301.5 | 299.7 | 297.9 | 296.7 | 295.9 | 295.2 | 294.4 | 293.7 |
| 57.5°  | 270.4 | 268.6 | 266.9 | 265.7 | 265.1 | 264.6 | 264.0 | 263.4 |
| 60°    | 249.8 | 248.2 | 246.6 | 245.5 | 245.0 | 244.6 | 244.2 | 243.7 |
| 62.5°  | 230.3 | 228.8 | 227.3 | 226.3 | 225.7 | 225.2 | 224.6 | 224.0 |
| 65°    | 200.5 | 199.1 | 197.8 | 196.7 | 196.0 | 195.3 | 194.6 | 193.8 |
| 67.5°  | 170.9 | 169.9 | 168.9 | 168.1 | 167.5 | 166.8 | 166.3 | 165.7 |
| 70°    | 151.8 | 150.7 | 149.7 | 148.9 | 148.3 | 147.7 | 147.1 | 146.5 |
| 72.5°  | 133.7 | 132.6 | 131.6 | 130.8 | 130.4 | 129.8 | 129.4 | 128.9 |
| 75°    | 105.4 | 104.6 | 103.7 | 103.3 | 103.7 | 104.0 | 104.2 | 104.6 |
| 77.5°  | 80.3  | 79.8  | 79.4  | 78.9  | 78.5  | 78.1  | 77.7  | 77.2  |
| 80°    | 63.7  | 63.2  | 62.9  | 62.4  | 62.2  | 61.9  | 61.5  | 61.3  |
| 82.5°  | 47.5  | 46.9  | 46.4  | 46.0  | 46.0  | 45.9  | 45.8  | 45.8  |
| 85°    | 25.1  | 24.6  | 24.2  | 23.9  | 23.7  | 23.6  | 23.5  | 23.3  |
| 87.5°  | 11.2  | 10.9  | 10.4  | 10.2  | 10.1  | 10.0  | 9.9   | 9.8   |
| 90°    | 22.6  | 22.3  | 22.0  | 21.9  | 22.0  | 22.2  | 22.4  | 22.5  |
| 92.5°  | 21.1  | 21.2  | 21.3  | 21.3  | 21.3  | 21.4  | 21.4  | 21.4  |
| 95°    | 42.4  | 42.4  | 42.4  | 42.2  | 41.9  | 41.6  | 41.3  | 41.0  |
| 97.5°  | 71.2  | 71.2  | 71.2  | 71.2  | 71.2  | 71.2  | 71.1  | 71.1  |
| 100°   | 91.3  | 91.3  | 91.3  | 91.2  | 91.1  | 91.0  | 90.8  | 90.7  |
| 102.5° | 113.2 | 113.3 | 113.5 | 113.5 | 113.3 | 113.2 | 113.1 | 112.9 |
| 105°   | 146.2 | 146.4 | 146.8 | 146.9 | 146.9 | 146.9 | 146.9 | 146.9 |
| 107.5° | 181.6 | 181.8 | 181.9 | 181.6 | 180.9 | 180.3 | 179.6 | 179.0 |
| 110°   | 205.8 | 205.8 | 205.8 | 205.5 | 205.1 | 204.6 | 204.2 | 203.8 |





TEST NUMBER: P331506-940

CATALOG NUMBER: S122DIW-S485D710U940-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 230.0 | 229.6 | 229.3 | 228.9 | 228.6 | 228.3 | 227.9 | 227.7 |
| 115°   | 267.1 | 266.9 | 266.7 | 266.4 | 266.0 | 265.6 | 265.1 | 264.7 |
| 117.5° | 302.9 | 302.6 | 302.2 | 301.8 | 301.3 | 300.9 | 300.4 | 300.0 |
| 120°   | 326.9 | 326.9 | 326.9 | 326.6 | 326.2 | 325.7 | 325.3 | 324.9 |
| 122.5° | 351.6 | 351.2 | 350.9 | 350.5 | 350.2 | 349.9 | 349.6 | 349.3 |
| 125°   | 388.2 | 387.7 | 387.3 | 387.0 | 386.9 | 386.7 | 386.6 | 386.5 |
| 127.5° | 423.7 | 423.2 | 422.7 | 422.2 | 421.7 | 421.2 | 420.8 | 420.4 |
| 130°   | 448.1 | 447.7 | 447.5 | 447.0 | 446.4 | 445.9 | 445.2 | 444.7 |
| 132.5° | 471.7 | 471.0 | 470.4 | 469.8 | 469.4 | 468.9 | 468.4 | 468.0 |
| 135°   | 506.6 | 506.4 | 506.3 | 506.0 | 505.5 | 505.1 | 504.6 | 504.2 |
| 137.5° | 539.9 | 539.8 | 539.8 | 539.4 | 538.8 | 538.2 | 537.6 | 537.0 |
| 140°   | 562.4 | 562.4 | 562.4 | 562.1 | 561.6 | 561.0 | 560.4 | 559.8 |
| 142.5° | 582.8 | 582.9 | 583.0 | 582.8 | 582.2 | 581.6 | 581.0 | 580.4 |
| 145°   | 613.7 | 613.9 | 613.9 | 613.8 | 613.1 | 612.6 | 612.0 | 611.4 |
| 147.5° | 640.8 | 641.1 | 641.4 | 641.3 | 640.8 | 640.2 | 639.6 | 639.1 |
| 150°   | 657.9 | 658.4 | 658.8 | 658.8 | 658.4 | 657.9 | 657.5 | 657.1 |
| 152.5° | 675.1 | 675.6 | 676.3 | 676.3 | 675.6 | 675.1 | 674.6 | 674.0 |
| 155°   | 696.9 | 697.7 | 698.4 | 698.6 | 698.1 | 697.7 | 697.2 | 696.8 |
| 157.5° | 717.0 | 718.0 | 719.0 | 719.2 | 718.5 | 717.7 | 717.0 | 716.3 |
| 160°   | 729.0 | 729.9 | 730.8 | 730.8 | 730.3 | 729.7 | 729.2 | 728.5 |
| 162.5° | 739.8 | 740.8 | 741.8 | 741.9 | 741.2 | 740.6 | 739.9 | 739.1 |
| 165°   | 753.8 | 754.7 | 755.8 | 756.0 | 755.2 | 754.5 | 753.8 | 753.0 |
| 167.5° | 765.3 | 766.2 | 767.3 | 767.4 | 766.7 | 765.9 | 765.2 | 764.4 |
| 170°   | 771.6 | 772.7 | 773.6 | 773.7 | 772.8 | 772.0 | 771.1 | 770.2 |
| 172.5° | 776.4 | 777.4 | 778.5 | 778.5 | 777.7 | 776.8 | 775.9 | 775.0 |
| 175°   | 781.5 | 782.6 | 783.6 | 783.6 | 782.7 | 781.9 | 781.0 | 780.2 |
| 177.5° | 783.9 | 784.6 | 785.3 | 785.3 | 784.6 | 783.9 | 783.2 | 782.5 |
| 180°   | 784.1 | 784.1 | 784.1 | 784.1 | 784.1 | 784.1 | 784.1 | 784.1 |

(END OF REPORT)