

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: P331535-927

Luminaire Tested: **S122DIW-S675D710U927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331535-927  
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: S122DIW-S675D710U927-4F0-1E-UDD-F  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 710 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4387.7 lumens  
Efficiency: N/A  
Efficacy: 97.5 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

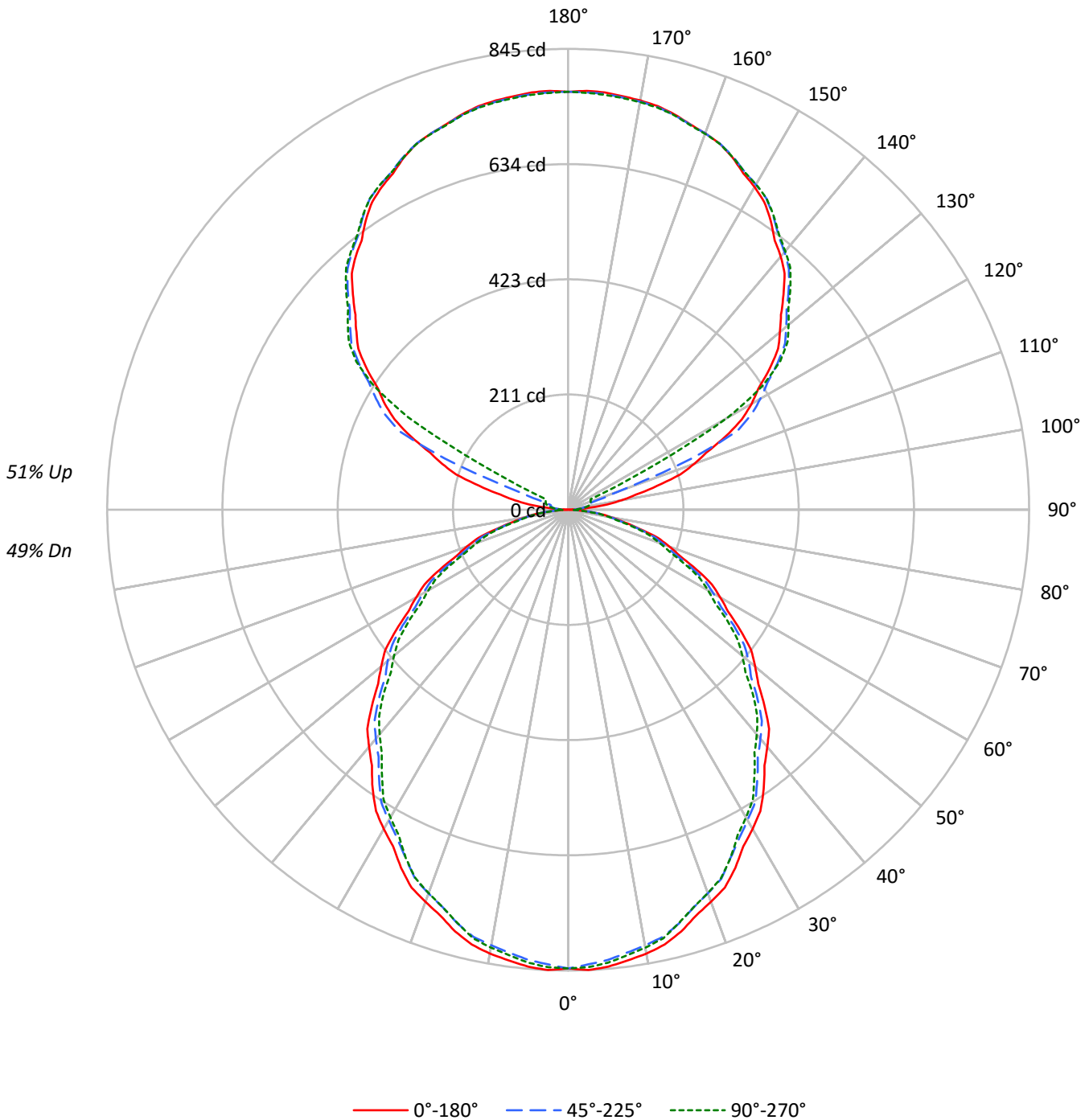
Input Watts (W): 45  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331535-927

CATALOG NUMBER: S122DIW-S675D710U927-4F0-1E-UDD-F

### Luminous Intensity Polar Plot





TEST NUMBER: P331535-927

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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   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 83 | 83 | 83 | 68 | 68 | 68 | 55 | 55 | 55 | 49 |
| 1   | 98  | 93  | 89  | 86  | 90 | 86 | 83 | 80 | 72 | 70 | 68 | 60 | 58 | 57 | 49 | 47 | 46 | 41 |
| 2   | 89  | 81  | 75  | 70  | 82 | 75 | 70 | 65 | 63 | 60 | 56 | 53 | 50 | 47 | 43 | 41 | 39 | 34 |
| 3   | 81  | 72  | 64  | 58  | 74 | 66 | 60 | 55 | 56 | 51 | 47 | 47 | 43 | 40 | 38 | 35 | 33 | 29 |
| 4   | 74  | 63  | 55  | 49  | 68 | 59 | 52 | 46 | 50 | 44 | 40 | 42 | 38 | 34 | 34 | 31 | 29 | 25 |
| 5   | 68  | 56  | 48  | 42  | 62 | 52 | 45 | 40 | 45 | 39 | 35 | 37 | 33 | 30 | 31 | 27 | 25 | 22 |
| 6   | 63  | 51  | 42  | 37  | 58 | 47 | 40 | 35 | 40 | 34 | 30 | 34 | 29 | 26 | 28 | 25 | 22 | 19 |
| 7   | 58  | 46  | 38  | 32  | 53 | 42 | 35 | 30 | 36 | 31 | 27 | 31 | 26 | 23 | 25 | 22 | 20 | 17 |
| 8   | 54  | 41  | 34  | 28  | 49 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 | 15 |
| 9   | 50  | 38  | 30  | 25  | 46 | 35 | 29 | 24 | 30 | 25 | 21 | 26 | 22 | 19 | 21 | 18 | 16 | 14 |
| 10  | 47  | 35  | 27  | 23  | 43 | 32 | 26 | 21 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | 12 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 13580 | 13580 | 13580 |
| 5°  | 13632 | 13434 | 13514 |
| 10° | 13550 | 13298 | 13365 |
| 15° | 13382 | 13125 | 13112 |
| 20° | 13144 | 12866 | 12854 |
| 25° | 12909 | 12549 | 12549 |
| 30° | 12603 | 12258 | 12152 |
| 35° | 12321 | 11907 | 11732 |
| 40° | 11965 | 11556 | 11335 |
| 45° | 11615 | 11209 | 10930 |
| 50° | 11233 | 10846 | 10462 |
| 55° | 10835 | 10427 | 10038 |
| 60° | 10395 | 9923  | 9558  |
| 65° | 9918  | 9425  | 8993  |
| 70° | 9314  | 8818  | 8398  |
| 75° | 8478  | 8122  | 7923  |
| 80° | 7522  | 7290  | 6918  |
| 85° | 6150  | 5835  | 5243  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 79.1   | 1.8       |
| 10°-20°   | 222.5  | 5.1       |
| 20°-30°   | 327.1  | 7.5       |
| 30°-40°   | 379.9  | 8.7       |
| 40°-50°   | 379.5  | 8.6       |
| 50°-60°   | 331.0  | 7.5       |
| 60°-70°   | 244.7  | 5.6       |
| 70°-80°   | 138.6  | 3.2       |
| 80°-90°   | 39.2   | 0.9       |
| 90°-100°  | 25.6   | 0.6       |
| 100°-110° | 93.8   | 2.1       |
| 110°-120° | 250.6  | 5.7       |
| 120°-130° | 413.7  | 9.4       |
| 130°-140° | 440.0  | 10.0      |
| 140°-150° | 408.9  | 9.3       |
| 150°-160° | 328.8  | 7.5       |
| 160°-170° | 211.9  | 4.8       |
| 170°-180° | 72.9   | 1.7       |
| 0°-30°    | 628.7  | 14.3      |
| 0°-40°    | 1008.6 | 23.0      |
| 0°-60°    | 1719.1 | 39.2      |
| 0°-90°    | 2141.6 | 48.8      |
| 90°-120°  | 369.9  | 8.4       |
| 90°-150°  | 1632.5 | 37.2      |
| 90°-180°  | 2246.0 | 51.2      |
| 0°-180°   | 4387.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 841 | 841   | 841 | 841   | 841 |      |
| 5°   | 841 | 838   | 829 | 835   | 834 | 80   |
| 15°  | 801 | 795   | 785 | 788   | 784 | 225  |
| 25°  | 725 | 718   | 704 | 706   | 704 | 333  |
| 35°  | 625 | 617   | 604 | 599   | 595 | 390  |
| 45°  | 509 | 503   | 491 | 482   | 479 | 392  |
| 55°  | 385 | 380   | 370 | 361   | 357 | 344  |
| 65°  | 260 | 254   | 247 | 240   | 235 | 257  |
| 75°  | 136 | 134   | 130 | 126   | 127 | 145  |
| 85°  | 33  | 32    | 32  | 29    | 28  | 38   |
| 90°  | 1   | 6     | 11  | 14    | 15  | 3    |
| 95°  | 36  | 19    | 22  | 24    | 24  | 44   |
| 105° | 169 | 176   | 34  | 40    | 42  | 180  |
| 115° | 319 | 329   | 342 | 97    | 46  | 314  |
| 125° | 451 | 458   | 469 | 472   | 474 | 402  |
| 135° | 558 | 567   | 572 | 577   | 576 | 431  |
| 145° | 647 | 647   | 656 | 660   | 657 | 405  |
| 155° | 713 | 708   | 714 | 717   | 713 | 328  |
| 165° | 751 | 748   | 749 | 753   | 749 | 212  |
| 175° | 768 | 764   | 765 | 769   | 764 | 73   |
| 180° | 766 | 766   | 766 | 766   | 766 |      |



TEST NUMBER: P331535-927

CATALOG NUMBER: S122DIW-S675D710U927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 |
| 2.5°   | 844.9 | 844.2 | 843.5 | 842.8 | 842.1 | 840.9 | 839.3 | 837.7 | 836.1 | 834.6 | 836.0 |
| 5°     | 841.1 | 840.3 | 839.6 | 838.9 | 838.2 | 836.9 | 834.9 | 832.9 | 830.9 | 828.9 | 830.4 |
| 7.5°   | 833.6 | 832.5 | 831.4 | 830.3 | 829.2 | 827.6 | 825.6 | 823.6 | 821.6 | 819.5 | 820.9 |
| 10°    | 826.5 | 825.2 | 823.9 | 822.7 | 821.5 | 819.8 | 817.6 | 815.5 | 813.3 | 811.1 | 812.5 |
| 12.5°  | 816.8 | 815.7 | 814.5 | 813.4 | 812.3 | 810.7 | 808.5 | 806.4 | 804.2 | 802.1 | 803.1 |
| 15°    | 800.6 | 799.5 | 798.4 | 797.4 | 796.3 | 794.6 | 792.3 | 789.9 | 787.6 | 785.2 | 786.0 |
| 17.5°  | 779.9 | 778.8 | 777.8 | 776.7 | 775.6 | 773.9 | 771.5 | 769.1 | 766.8 | 764.4 | 765.2 |
| 20°    | 765.0 | 764.0 | 762.9 | 761.8 | 760.7 | 758.9 | 756.4 | 753.9 | 751.4 | 748.8 | 749.4 |
| 22.5°  | 750.1 | 748.6 | 747.1 | 745.6 | 744.1 | 742.2 | 739.8 | 737.4 | 735.1 | 732.7 | 732.8 |
| 25°    | 724.6 | 723.2 | 721.8 | 720.3 | 718.8 | 716.6 | 713.5 | 710.5 | 707.4 | 704.4 | 704.7 |
| 27.5°  | 695.5 | 694.2 | 692.9 | 691.6 | 690.3 | 688.5 | 686.0 | 683.7 | 681.2 | 678.8 | 678.3 |
| 30°    | 676.0 | 674.6 | 673.2 | 671.8 | 670.3 | 668.3 | 665.6 | 662.9 | 660.2 | 657.5 | 657.0 |
| 32.5°  | 655.4 | 654.2 | 653.1 | 651.9 | 650.8 | 648.8 | 645.9 | 643.1 | 640.2 | 637.4 | 636.4 |
| 35°    | 625.1 | 623.4 | 621.5 | 619.7 | 617.9 | 615.6 | 612.8 | 609.8 | 607.0 | 604.1 | 603.0 |
| 37.5°  | 591.0 | 589.4 | 587.8 | 586.2 | 584.7 | 582.4 | 579.6 | 576.7 | 573.9 | 570.9 | 569.6 |
| 40°    | 567.7 | 566.3 | 564.8 | 563.4 | 562.0 | 559.8 | 556.9 | 554.1 | 551.2 | 548.3 | 546.7 |
| 42.5°  | 545.1 | 543.6 | 542.2 | 540.7 | 539.3 | 537.2 | 534.2 | 531.4 | 528.5 | 525.7 | 523.9 |
| 45°    | 508.7 | 507.4 | 506.1 | 504.9 | 503.7 | 501.7 | 499.0 | 496.3 | 493.6 | 490.9 | 488.9 |
| 47.5°  | 472.5 | 471.3 | 470.1 | 468.9 | 467.7 | 465.7 | 462.9 | 460.1 | 457.3 | 454.5 | 452.4 |
| 50°    | 447.2 | 446.3 | 445.4 | 444.5 | 443.6 | 441.9 | 439.4 | 436.9 | 434.4 | 431.8 | 429.4 |
| 52.5°  | 422.6 | 421.4 | 420.3 | 419.1 | 417.9 | 416.1 | 413.8 | 411.4 | 409.0 | 406.6 | 404.6 |
| 55°    | 384.9 | 383.9 | 382.8 | 381.7 | 380.6 | 379.0 | 376.8 | 374.7 | 372.6 | 370.4 | 368.2 |
| 57.5°  | 347.1 | 346.3 | 345.4 | 344.5 | 343.6 | 342.1 | 339.7 | 337.3 | 334.9 | 332.6 | 330.4 |
| 60°    | 321.9 | 321.2 | 320.4 | 319.7 | 319.0 | 317.3 | 314.9 | 312.4 | 309.8 | 307.3 | 305.3 |
| 62.5°  | 297.3 | 296.1 | 295.0 | 293.8 | 292.7 | 291.1 | 289.2 | 287.2 | 285.3 | 283.4 | 281.5 |
| 65°    | 259.6 | 258.5 | 257.5 | 256.4 | 255.2 | 253.8 | 252.1 | 250.3 | 248.4 | 246.7 | 245.0 |
| 67.5°  | 221.3 | 220.4 | 219.5 | 218.6 | 217.8 | 216.6 | 214.9 | 213.3 | 211.8 | 210.1 | 208.8 |
| 70°    | 197.3 | 196.6 | 195.9 | 195.2 | 194.5 | 193.3 | 191.6 | 190.0 | 188.5 | 186.8 | 185.5 |
| 72.5°  | 172.8 | 172.0 | 171.3 | 170.6 | 169.8 | 169.0 | 167.9 | 166.9 | 165.9 | 164.8 | 163.6 |
| 75°    | 135.9 | 135.5 | 135.1 | 134.8 | 134.4 | 133.8 | 132.9 | 132.0 | 131.1 | 130.2 | 129.1 |
| 77.5°  | 102.9 | 102.3 | 101.6 | 101.0 | 100.4 | 100.0 | 99.6  | 99.2  | 98.9  | 98.5  | 98.0  |
| 80°    | 80.9  | 80.7  | 80.5  | 80.3  | 80.2  | 79.9  | 79.5  | 79.1  | 78.8  | 78.4  | 77.9  |
| 82.5°  | 60.2  | 60.1  | 60.1  | 60.0  | 60.0  | 59.9  | 59.7  | 59.5  | 59.3  | 59.0  | 58.4  |
| 85°    | 33.2  | 33.0  | 32.8  | 32.6  | 32.4  | 32.2  | 32.1  | 31.9  | 31.7  | 31.5  | 31.0  |
| 87.5°  | 11.7  | 11.7  | 11.7  | 11.7  | 11.7  | 11.6  | 11.6  | 11.5  | 11.3  | 11.2  | 10.9  |
| 90°    | 0.6   | 1.9   | 3.2   | 4.6   | 5.9   | 7.1   | 8.2   | 9.1   | 10.1  | 11.1  | 11.7  |
| 92.5°  | 11.2  | 11.1  | 10.9  | 10.9  | 10.7  | 10.9  | 11.4  | 11.9  | 12.4  | 12.8  | 13.2  |
| 95°    | 36.0  | 32.0  | 27.9  | 23.8  | 19.8  | 18.1  | 19.0  | 19.9  | 20.8  | 21.6  | 22.3  |
| 97.5°  | 71.5  | 60.0  | 48.6  | 37.2  | 25.7  | 21.0  | 23.0  | 25.0  | 26.9  | 28.9  | 29.5  |
| 100°   | 98.2  | 81.3  | 64.4  | 47.5  | 30.7  | 23.2  | 25.3  | 27.4  | 29.5  | 31.6  | 32.6  |
| 102.5° | 127.5 | 123.9 | 120.3 | 116.7 | 113.1 | 102.6 | 85.1  | 67.6  | 50.0  | 32.5  | 33.7  |
| 105°   | 168.6 | 172.3 | 176.0 | 179.7 | 183.4 | 168.4 | 134.8 | 101.1 | 67.5  | 33.8  | 35.2  |
| 107.5° | 215.5 | 218.5 | 221.5 | 224.4 | 227.4 | 208.7 | 168.4 | 128.1 | 87.7  | 47.4  | 45.9  |
| 110°   | 245.7 | 248.3 | 250.9 | 253.4 | 256.0 | 239.5 | 203.9 | 168.3 | 132.7 | 97.0  | 84.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 274.1 | 276.4 | 278.7 | 280.9 | 283.2 | 280.0 | 271.2 | 262.4 | 253.6 | 244.8 | 199.9 |
| 115°   | 318.9 | 321.0 | 323.1 | 325.2 | 327.3 | 329.9 | 333.0 | 336.0 | 339.1 | 342.1 | 285.1 |
| 117.5° | 358.9 | 361.2 | 363.6 | 365.9 | 368.3 | 370.5 | 372.6 | 374.8 | 376.8 | 379.0 | 365.2 |
| 120°   | 388.2 | 390.1 | 391.9 | 393.7 | 395.6 | 397.6 | 399.8 | 402.0 | 404.3 | 406.5 | 408.0 |
| 122.5° | 413.0 | 415.0 | 416.9 | 418.9 | 420.8 | 423.0 | 425.4 | 427.9 | 430.2 | 432.7 | 433.6 |
| 125°   | 450.8 | 452.5 | 454.1 | 455.7 | 457.2 | 459.2 | 461.6 | 463.9 | 466.3 | 468.6 | 469.4 |
| 127.5° | 485.1 | 486.9 | 488.7 | 490.4 | 492.3 | 494.0 | 495.7 | 497.5 | 499.2 | 501.0 | 502.2 |
| 130°   | 506.8 | 508.8 | 510.8 | 512.8 | 514.8 | 516.4 | 517.8 | 519.1 | 520.5 | 521.9 | 523.2 |
| 132.5° | 529.1 | 530.8 | 532.4 | 534.1 | 535.8 | 537.3 | 538.6 | 540.0 | 541.4 | 542.7 | 543.8 |
| 135°   | 557.9 | 559.8 | 561.8 | 563.8 | 565.8 | 567.4 | 568.5 | 569.6 | 570.7 | 571.8 | 573.0 |
| 137.5° | 587.1 | 588.4 | 589.9 | 591.2 | 592.6 | 593.9 | 595.2 | 596.4 | 597.7 | 599.0 | 600.2 |
| 140°   | 606.2 | 607.1 | 608.1 | 609.1 | 610.1 | 611.2 | 612.6 | 613.9 | 615.3 | 616.7 | 617.8 |
| 142.5° | 622.1 | 623.0 | 623.9 | 624.8 | 625.7 | 626.9 | 628.4 | 630.0 | 631.5 | 633.1 | 634.1 |
| 145°   | 647.2 | 647.1 | 647.0 | 646.8 | 646.7 | 647.7 | 649.7 | 651.9 | 653.9 | 656.1 | 657.0 |
| 147.5° | 669.0 | 668.6 | 668.1 | 667.7 | 667.2 | 668.0 | 670.0 | 672.1 | 674.1 | 676.2 | 676.9 |
| 150°   | 683.3 | 682.4 | 681.5 | 680.6 | 679.8 | 680.3 | 682.3 | 684.3 | 686.3 | 688.2 | 689.0 |
| 152.5° | 695.2 | 694.3 | 693.3 | 692.3 | 691.3 | 691.8 | 693.7 | 695.5 | 697.4 | 699.3 | 700.1 |
| 155°   | 712.6 | 711.5 | 710.4 | 709.3 | 708.2 | 708.4 | 709.9 | 711.3 | 712.8 | 714.3 | 715.0 |
| 157.5° | 726.3 | 725.3 | 724.4 | 723.4 | 722.5 | 722.5 | 723.6 | 724.6 | 725.6 | 726.7 | 727.5 |
| 160°   | 734.3 | 733.5 | 732.8 | 732.1 | 731.3 | 731.3 | 732.1 | 732.8 | 733.5 | 734.3 | 735.0 |
| 162.5° | 741.3 | 740.6 | 739.9 | 739.1 | 738.4 | 738.3 | 738.9 | 739.7 | 740.3 | 740.9 | 741.7 |
| 165°   | 750.9 | 750.1 | 749.4 | 748.7 | 747.9 | 747.7 | 748.1 | 748.5 | 748.8 | 749.2 | 750.1 |
| 167.5° | 758.0 | 757.2 | 756.5 | 755.7 | 755.0 | 754.9 | 755.2 | 755.5 | 755.9 | 756.2 | 757.1 |
| 170°   | 762.0 | 761.2 | 760.5 | 759.8 | 759.0 | 758.8 | 759.0 | 759.3 | 759.5 | 759.8 | 760.7 |
| 172.5° | 764.6 | 763.9 | 763.2 | 762.4 | 761.7 | 761.4 | 761.7 | 761.9 | 762.2 | 762.4 | 763.3 |
| 175°   | 768.1 | 767.2 | 766.4 | 765.5 | 764.6 | 764.3 | 764.5 | 764.9 | 765.1 | 765.3 | 766.2 |
| 177.5° | 768.7 | 767.9 | 767.2 | 766.6 | 765.9 | 765.6 | 765.6 | 765.8 | 765.9 | 766.0 | 766.7 |
| 180°   | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 |
| 2.5°   | 837.4 | 838.9 | 840.3 | 840.9 | 840.6 | 840.3 | 840.0 | 839.8 |
| 5°     | 831.8 | 833.2 | 834.6 | 835.2 | 834.9 | 834.5 | 834.2 | 833.8 |
| 7.5°   | 822.4 | 823.9 | 825.3 | 825.8 | 825.4 | 825.1 | 824.7 | 824.3 |
| 10°    | 814.0 | 815.5 | 816.9 | 817.3 | 816.8 | 816.3 | 815.7 | 815.2 |
| 12.5°  | 804.1 | 805.1 | 806.1 | 806.4 | 806.0 | 805.6 | 805.3 | 804.9 |
| 15°    | 786.7 | 787.4 | 788.1 | 788.1 | 787.1 | 786.2 | 785.4 | 784.4 |
| 17.5°  | 766.0 | 766.8 | 767.7 | 767.7 | 766.8 | 766.0 | 765.1 | 764.2 |
| 20°    | 750.0 | 750.5 | 751.0 | 750.9 | 750.2 | 749.5 | 748.8 | 748.1 |
| 22.5°  | 732.9 | 733.0 | 733.1 | 732.9 | 732.5 | 732.1 | 731.7 | 731.3 |
| 25°    | 705.1 | 705.4 | 705.8 | 705.8 | 705.4 | 705.1 | 704.7 | 704.4 |
| 27.5°  | 677.7 | 677.2 | 676.7 | 676.0 | 675.1 | 674.2 | 673.4 | 672.5 |
| 30°    | 656.4 | 655.8 | 655.3 | 654.7 | 653.9 | 653.2 | 652.5 | 651.8 |
| 32.5°  | 635.5 | 634.5 | 633.5 | 632.7 | 632.0 | 631.3 | 630.5 | 629.8 |
| 35°    | 602.0 | 600.9 | 599.8 | 598.8 | 597.9 | 597.0 | 596.1 | 595.2 |
| 37.5°  | 568.3 | 567.0 | 565.6 | 564.5 | 563.6 | 562.8 | 562.0 | 561.1 |
| 40°    | 545.1 | 543.4 | 541.9 | 540.7 | 540.0 | 539.2 | 538.5 | 537.8 |
| 42.5°  | 522.1 | 520.4 | 518.6 | 517.2 | 516.2 | 515.2 | 514.2 | 513.2 |
| 45°    | 487.0 | 485.0 | 483.0 | 481.6 | 480.9 | 480.2 | 479.5 | 478.7 |
| 47.5°  | 450.4 | 448.2 | 446.2 | 444.6 | 443.5 | 442.5 | 441.5 | 440.5 |
| 50°    | 426.8 | 424.3 | 421.8 | 420.1 | 419.1 | 418.3 | 417.4 | 416.5 |
| 52.5°  | 402.4 | 400.4 | 398.3 | 396.6 | 395.5 | 394.3 | 393.1 | 391.9 |
| 55°    | 366.1 | 363.9 | 361.8 | 360.2 | 359.3 | 358.5 | 357.5 | 356.6 |
| 57.5°  | 328.3 | 326.1 | 324.1 | 322.7 | 321.9 | 321.3 | 320.6 | 319.9 |
| 60°    | 303.3 | 301.3 | 299.4 | 298.2 | 297.6 | 297.1 | 296.5 | 296.0 |
| 62.5°  | 279.7 | 277.9 | 276.1 | 274.8 | 274.1 | 273.4 | 272.7 | 272.0 |
| 65°    | 243.4 | 241.8 | 240.2 | 238.9 | 238.1 | 237.1 | 236.2 | 235.4 |
| 67.5°  | 207.6 | 206.4 | 205.1 | 204.1 | 203.4 | 202.6 | 201.9 | 201.2 |
| 70°    | 184.3 | 183.1 | 181.8 | 180.8 | 180.1 | 179.4 | 178.6 | 177.9 |
| 72.5°  | 162.3 | 161.1 | 159.8 | 158.8 | 158.3 | 157.7 | 157.2 | 156.5 |
| 75°    | 128.0 | 127.0 | 125.9 | 125.6 | 125.9 | 126.3 | 126.6 | 127.0 |
| 77.5°  | 97.4  | 96.9  | 96.3  | 95.9  | 95.3  | 94.8  | 94.3  | 93.8  |
| 80°    | 77.4  | 76.8  | 76.3  | 75.8  | 75.5  | 75.1  | 74.8  | 74.4  |
| 82.5°  | 57.7  | 57.0  | 56.3  | 55.9  | 55.8  | 55.8  | 55.7  | 55.6  |
| 85°    | 30.5  | 29.9  | 29.4  | 29.0  | 28.8  | 28.7  | 28.5  | 28.3  |
| 87.5°  | 10.7  | 10.4  | 10.1  | 9.8   | 9.7   | 9.7   | 9.6   | 9.4   |
| 90°    | 12.4  | 12.9  | 13.5  | 14.0  | 14.3  | 14.5  | 14.7  | 15.0  |
| 92.5°  | 13.5  | 13.9  | 14.2  | 14.4  | 14.5  | 14.7  | 14.8  | 15.0  |
| 95°    | 22.9  | 23.4  | 24.1  | 24.3  | 24.2  | 24.1  | 24.0  | 23.8  |
| 97.5°  | 29.9  | 30.4  | 30.9  | 31.2  | 31.4  | 31.5  | 31.7  | 31.8  |
| 100°   | 33.6  | 34.5  | 35.6  | 36.2  | 36.4  | 36.7  | 36.9  | 37.2  |
| 102.5° | 35.1  | 36.4  | 37.6  | 38.4  | 38.8  | 39.1  | 39.5  | 39.8  |
| 105°   | 36.5  | 37.9  | 39.2  | 40.2  | 40.6  | 41.2  | 41.7  | 42.1  |
| 107.5° | 44.6  | 43.3  | 41.8  | 41.4  | 41.9  | 42.4  | 42.9  | 43.3  |
| 110°   | 72.4  | 60.0  | 47.8  | 41.8  | 42.3  | 42.9  | 43.3  | 43.8  |





TEST NUMBER: P331535-927

CATALOG NUMBER: S122DIW-S675D710U927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 154.9 | 110.0 | 65.0  | 42.7  | 43.1  | 43.5  | 43.9  | 44.3  |
| 115°   | 228.1 | 171.0 | 113.9 | 81.0  | 72.1  | 63.2  | 54.3  | 45.5  |
| 117.5° | 351.4 | 337.5 | 323.8 | 302.3 | 273.1 | 244.0 | 214.8 | 185.7 |
| 120°   | 409.5 | 410.9 | 412.4 | 404.8 | 388.2 | 371.5 | 354.9 | 338.3 |
| 122.5° | 434.4 | 435.3 | 436.3 | 435.1 | 431.8 | 428.6 | 425.4 | 422.2 |
| 125°   | 470.3 | 471.2 | 472.1 | 472.7 | 473.0 | 473.4 | 473.8 | 474.1 |
| 127.5° | 503.5 | 504.8 | 506.0 | 506.7 | 506.8 | 506.8 | 506.9 | 507.0 |
| 130°   | 524.6 | 525.9 | 527.3 | 527.9 | 527.8 | 527.7 | 527.5 | 527.4 |
| 132.5° | 545.0 | 546.2 | 547.3 | 547.9 | 547.7 | 547.6 | 547.5 | 547.4 |
| 135°   | 574.3 | 575.4 | 576.7 | 577.2 | 576.9 | 576.7 | 576.5 | 576.2 |
| 137.5° | 601.3 | 602.5 | 603.8 | 604.2 | 603.7 | 603.3 | 602.9 | 602.5 |
| 140°   | 618.9 | 620.0 | 621.2 | 621.4 | 620.8 | 620.1 | 619.5 | 618.9 |
| 142.5° | 635.1 | 636.1 | 637.2 | 637.3 | 636.8 | 636.1 | 635.5 | 634.9 |
| 145°   | 657.7 | 658.6 | 659.5 | 659.7 | 659.0 | 658.4 | 657.7 | 657.2 |
| 147.5° | 677.6 | 678.2 | 678.8 | 678.9 | 678.3 | 677.9 | 677.3 | 676.8 |
| 150°   | 689.7 | 690.5 | 691.2 | 691.3 | 690.6 | 690.0 | 689.4 | 688.8 |
| 152.5° | 700.8 | 701.6 | 702.3 | 702.3 | 701.4 | 700.6 | 699.8 | 698.9 |
| 155°   | 715.7 | 716.5 | 717.2 | 717.1 | 716.1 | 715.2 | 714.2 | 713.2 |
| 157.5° | 728.4 | 729.2 | 730.1 | 730.0 | 729.0 | 728.1 | 727.1 | 726.1 |
| 160°   | 735.7 | 736.5 | 737.2 | 737.1 | 736.3 | 735.4 | 734.6 | 733.7 |
| 162.5° | 742.6 | 743.4 | 744.3 | 744.2 | 743.1 | 742.0 | 740.9 | 739.9 |
| 165°   | 751.0 | 751.8 | 752.7 | 752.7 | 751.8 | 751.0 | 750.1 | 749.2 |
| 167.5° | 758.0 | 758.8 | 759.6 | 759.5 | 758.4 | 757.3 | 756.2 | 755.1 |
| 170°   | 761.5 | 762.3 | 763.2 | 763.1 | 762.0 | 760.9 | 759.8 | 758.7 |
| 172.5° | 764.1 | 765.0 | 765.9 | 765.7 | 764.6 | 763.5 | 762.4 | 761.3 |
| 175°   | 767.1 | 767.9 | 768.7 | 768.6 | 767.3 | 766.1 | 764.9 | 763.7 |
| 177.5° | 767.4 | 768.0 | 768.7 | 768.7 | 767.8 | 766.8 | 766.0 | 765.1 |
| 180°   | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 |

(END OF REPORT)