

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: P332131-840

Luminaire Tested: **S123DIW-S560D755U840-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332131-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIW-S560D755U840-4F0-1E-UDD-F1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 755 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4987.6 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: General Diffuse

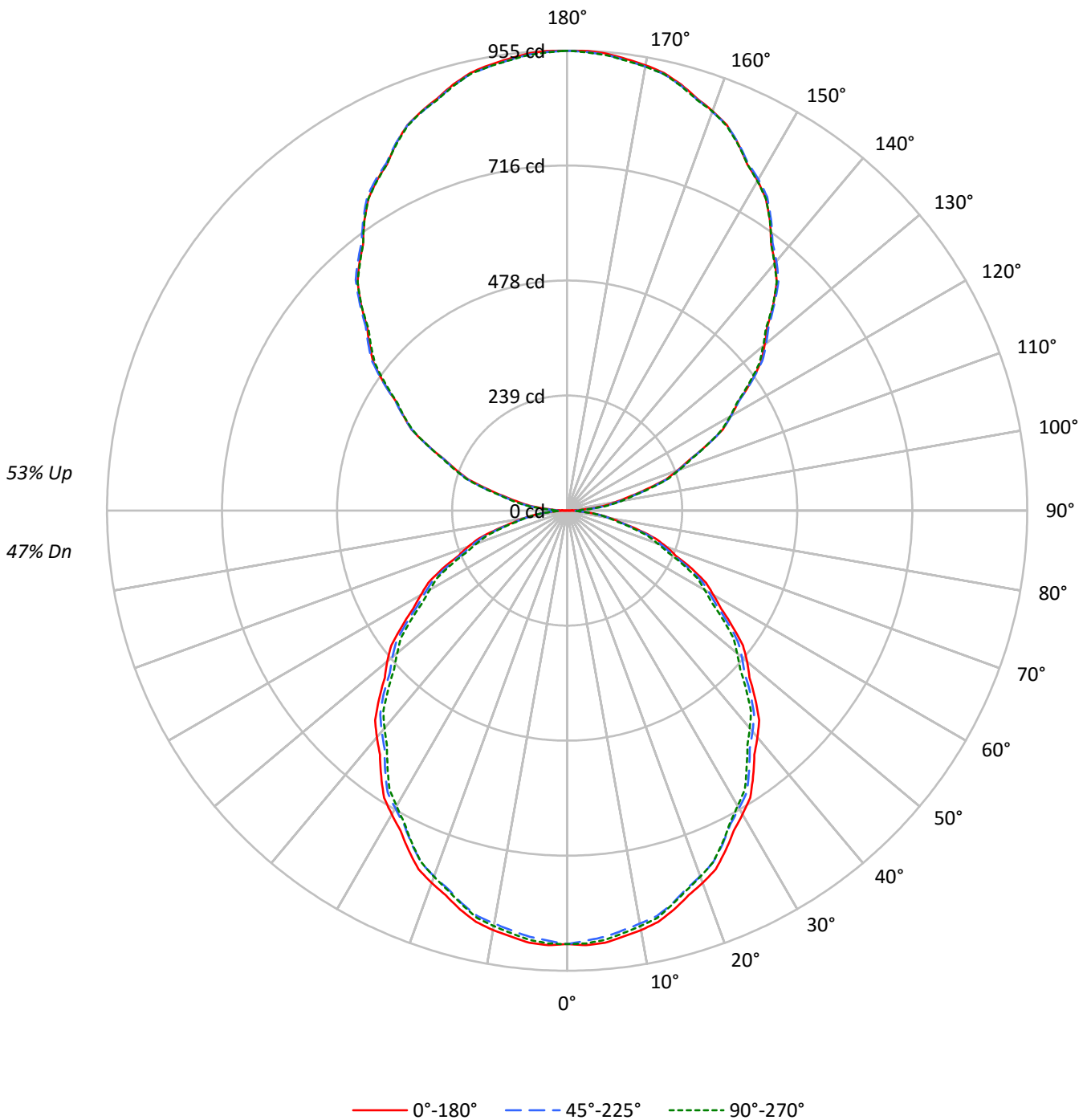
Input Watts (W): 37.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P332131-840

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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 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 106 | 106 | 106 | 106 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 67 | 67 | 67 | 53 | 53 | 53 | 47 |
| 1   | 97  | 93  | 89  | 85  | 89 | 85 | 82 | 79 | 71 | 69 | 67 | 59 | 57 | 56 | 47 | 46 | 45 | 39 |
| 2   | 88  | 81  | 75  | 70  | 81 | 75 | 69 | 65 | 63 | 59 | 55 | 52 | 49 | 46 | 41 | 39 | 38 | 33 |
| 3   | 81  | 71  | 64  | 58  | 74 | 66 | 59 | 54 | 55 | 50 | 46 | 46 | 42 | 39 | 37 | 34 | 32 | 28 |
| 4   | 74  | 63  | 55  | 49  | 67 | 58 | 51 | 46 | 49 | 44 | 40 | 41 | 37 | 34 | 33 | 30 | 28 | 24 |
| 5   | 68  | 56  | 48  | 42  | 62 | 52 | 45 | 39 | 44 | 38 | 34 | 36 | 32 | 29 | 29 | 26 | 24 | 21 |
| 6   | 62  | 50  | 42  | 36  | 57 | 46 | 39 | 34 | 39 | 34 | 30 | 33 | 29 | 25 | 27 | 24 | 21 | 18 |
| 7   | 58  | 45  | 37  | 32  | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 30 | 26 | 22 | 24 | 21 | 19 | 16 |
| 8   | 53  | 41  | 33  | 28  | 49 | 38 | 31 | 26 | 33 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 17 | 14 |
| 9   | 50  | 37  | 30  | 25  | 46 | 35 | 28 | 24 | 30 | 24 | 21 | 25 | 21 | 18 | 21 | 18 | 15 | 13 |
| 10  | 46  | 34  | 27  | 22  | 43 | 32 | 25 | 21 | 27 | 22 | 19 | 23 | 19 | 16 | 19 | 16 | 14 | 12 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9684 | 9684 | 9684 |
| 5°  | 9729 | 9596 | 9662 |
| 10° | 9664 | 9512 | 9571 |
| 15° | 9551 | 9404 | 9423 |
| 20° | 9419 | 9251 | 9260 |
| 25° | 9242 | 9069 | 9049 |
| 30° | 9047 | 8866 | 8797 |
| 35° | 8843 | 8650 | 8539 |
| 40° | 8630 | 8413 | 8283 |
| 45° | 8397 | 8196 | 7995 |
| 50° | 8162 | 7927 | 7708 |
| 55° | 7854 | 7651 | 7418 |
| 60° | 7543 | 7326 | 7093 |
| 65° | 7272 | 6976 | 6757 |
| 70° | 6864 | 6571 | 6279 |
| 75° | 6276 | 6047 | 5793 |
| 80° | 5659 | 5424 | 5368 |
| 85° | 4965 | 4780 | 4594 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 84.7   | 1.7       |
| 10°-20°   | 239.3  | 4.8       |
| 20°-30°   | 353.5  | 7.1       |
| 30°-40°   | 412.9  | 8.3       |
| 40°-50°   | 415.1  | 8.3       |
| 50°-60°   | 364.6  | 7.3       |
| 60°-70°   | 271.7  | 5.4       |
| 70°-80°   | 154.8  | 3.1       |
| 80°-90°   | 47.3   | 0.9       |
| 90°-100°  | 62.2   | 1.2       |
| 100°-110° | 186.1  | 3.7       |
| 110°-120° | 316.4  | 6.3       |
| 120°-130° | 416.2  | 8.3       |
| 130°-140° | 467.8  | 9.4       |
| 140°-150° | 459.9  | 9.2       |
| 150°-160° | 387.1  | 7.8       |
| 160°-170° | 257.7  | 5.2       |
| 170°-180° | 90.2   | 1.8       |
| 0°-30°    | 677.5  | 13.6      |
| 0°-40°    | 1090.4 | 21.9      |
| 0°-60°    | 1870.2 | 37.5      |
| 0°-90°    | 2343.9 | 47.0      |
| 90°-120°  | 564.7  | 11.3      |
| 90°-150°  | 1908.6 | 38.3      |
| 90°-180°  | 2644.0 | 53.0      |
| 0°-180°   | 4987.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 900 | 900   | 900 | 900   | 900 |      |
| 5°   | 900 | 896   | 888 | 895   | 894 | 85   |
| 15°  | 857 | 854   | 844 | 850   | 846 | 242  |
| 25°  | 778 | 773   | 764 | 764   | 762 | 358  |
| 35°  | 673 | 668   | 658 | 654   | 650 | 421  |
| 45°  | 552 | 548   | 538 | 529   | 525 | 426  |
| 55°  | 418 | 417   | 408 | 399   | 395 | 375  |
| 65°  | 286 | 281   | 274 | 268   | 265 | 282  |
| 75°  | 151 | 148   | 145 | 142   | 139 | 161  |
| 85°  | 40  | 39    | 39  | 37    | 37  | 44   |
| 90°  | 1   | 8     | 18  | 21    | 22  | 5    |
| 95°  | 44  | 50    | 55  | 58    | 58  | 50   |
| 105° | 169 | 170   | 177 | 177   | 178 | 181  |
| 115° | 319 | 321   | 319 | 320   | 319 | 315  |
| 125° | 466 | 468   | 467 | 464   | 461 | 416  |
| 135° | 605 | 609   | 609 | 606   | 604 | 466  |
| 145° | 734 | 735   | 738 | 737   | 734 | 458  |
| 155° | 840 | 840   | 841 | 844   | 839 | 387  |
| 165° | 915 | 913   | 913 | 917   | 912 | 258  |
| 175° | 952 | 949   | 949 | 953   | 948 | 90   |
| 180° | 954 | 954   | 954 | 954   | 954 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 899.7 | 899.7 | 899.7 | 899.7 | 899.7 | 899.7 | 899.7 | 899.7 | 899.7 | 899.7 | 899.7 |
| 2.5°   | 902.7 | 902.2 | 901.7 | 901.1 | 900.6 | 899.5 | 898.0 | 896.5 | 895.0 | 893.5 | 894.8 |
| 5°     | 900.4 | 899.6 | 898.7 | 897.9 | 897.0 | 895.6 | 893.7 | 891.8 | 890.0 | 888.1 | 889.8 |
| 7.5°   | 891.6 | 890.8 | 889.9 | 889.1 | 888.2 | 886.8 | 884.8 | 882.8 | 880.9 | 879.0 | 880.5 |
| 10°    | 884.2 | 883.3 | 882.5 | 881.6 | 880.8 | 879.2 | 877.0 | 874.7 | 872.5 | 870.3 | 871.8 |
| 12.5°  | 874.3 | 873.5 | 872.8 | 872.1 | 871.4 | 870.0 | 867.9 | 865.8 | 863.7 | 861.6 | 862.7 |
| 15°    | 857.1 | 856.5 | 855.8 | 855.1 | 854.3 | 852.9 | 850.7 | 848.5 | 846.2 | 843.9 | 845.4 |
| 17.5°  | 837.2 | 836.3 | 835.4 | 834.5 | 833.5 | 832.0 | 829.8 | 827.6 | 825.4 | 823.0 | 824.0 |
| 20°    | 822.3 | 821.3 | 820.2 | 819.2 | 818.2 | 816.6 | 814.4 | 812.1 | 809.8 | 807.6 | 808.3 |
| 22.5°  | 805.6 | 804.6 | 803.5 | 802.5 | 801.4 | 799.8 | 797.6 | 795.4 | 793.1 | 790.9 | 791.4 |
| 25°    | 778.2 | 777.2 | 776.2 | 775.2 | 774.1 | 772.4 | 770.2 | 768.0 | 765.8 | 763.6 | 763.7 |
| 27.5°  | 749.0 | 748.0 | 747.0 | 746.0 | 745.0 | 743.3 | 740.8 | 738.5 | 736.1 | 733.7 | 733.8 |
| 30°    | 727.9 | 727.1 | 726.2 | 725.4 | 724.5 | 722.9 | 720.4 | 718.0 | 715.7 | 713.3 | 713.3 |
| 32.5°  | 706.9 | 705.8 | 704.6 | 703.5 | 702.4 | 700.8 | 699.0 | 697.1 | 695.3 | 693.5 | 692.5 |
| 35°    | 673.0 | 672.0 | 671.0 | 669.9 | 668.9 | 667.2 | 665.0 | 662.8 | 660.6 | 658.3 | 657.3 |
| 37.5°  | 638.3 | 637.0 | 635.7 | 634.4 | 633.1 | 631.4 | 629.0 | 626.8 | 624.5 | 622.3 | 621.1 |
| 40°    | 614.2 | 613.2 | 612.2 | 611.2 | 610.1 | 608.3 | 605.9 | 603.6 | 601.2 | 598.7 | 597.3 |
| 42.5°  | 590.1 | 589.0 | 587.7 | 586.5 | 585.4 | 583.6 | 581.2 | 578.9 | 576.4 | 574.0 | 572.6 |
| 45°    | 551.6 | 550.9 | 550.2 | 549.5 | 548.8 | 547.3 | 545.1 | 542.9 | 540.7 | 538.4 | 536.3 |
| 47.5°  | 513.3 | 512.3 | 511.4 | 510.4 | 509.4 | 507.8 | 505.7 | 503.6 | 501.5 | 499.4 | 497.4 |
| 50°    | 487.4 | 486.5 | 485.6 | 484.7 | 483.9 | 482.4 | 480.1 | 477.9 | 475.6 | 473.4 | 471.5 |
| 52.5°  | 460.1 | 459.5 | 459.0 | 458.4 | 457.8 | 456.3 | 453.9 | 451.6 | 449.2 | 446.9 | 445.2 |
| 55°    | 418.5 | 418.3 | 418.2 | 418.0 | 417.8 | 416.6 | 414.3 | 412.1 | 409.9 | 407.7 | 405.8 |
| 57.5°  | 378.9 | 378.3 | 377.7 | 377.2 | 376.6 | 375.4 | 373.5 | 371.8 | 370.0 | 368.2 | 366.6 |
| 60°    | 350.4 | 350.2 | 350.1 | 349.9 | 349.7 | 348.6 | 346.6 | 344.5 | 342.4 | 340.3 | 338.8 |
| 62.5°  | 325.1 | 324.6 | 324.2 | 323.8 | 323.3 | 322.0 | 319.9 | 317.9 | 315.8 | 313.8 | 312.3 |
| 65°    | 285.5 | 284.6 | 283.8 | 282.9 | 282.1 | 280.7 | 279.0 | 277.3 | 275.6 | 273.9 | 272.5 |
| 67.5°  | 243.5 | 242.8 | 242.0 | 241.3 | 240.4 | 239.4 | 238.1 | 236.8 | 235.5 | 234.3 | 233.1 |
| 70°    | 218.1 | 217.1 | 216.1 | 215.1 | 214.0 | 213.0 | 212.0 | 211.0 | 209.8 | 208.8 | 207.6 |
| 72.5°  | 191.6 | 190.8 | 190.1 | 189.2 | 188.5 | 187.5 | 186.4 | 185.2 | 184.0 | 182.9 | 181.8 |
| 75°    | 150.9 | 150.2 | 149.5 | 148.8 | 148.1 | 147.5 | 146.9 | 146.4 | 145.9 | 145.4 | 144.6 |
| 77.5°  | 114.8 | 114.4 | 114.0 | 113.7 | 113.3 | 112.8 | 112.2 | 111.6 | 110.9 | 110.3 | 109.8 |
| 80°    | 91.3  | 90.8  | 90.3  | 89.8  | 89.2  | 88.8  | 88.5  | 88.1  | 87.8  | 87.5  | 87.3  |
| 82.5°  | 68.4  | 68.3  | 68.2  | 68.1  | 68.0  | 67.9  | 67.9  | 67.8  | 67.7  | 67.7  | 67.3  |
| 85°    | 40.2  | 39.9  | 39.6  | 39.2  | 38.9  | 38.7  | 38.7  | 38.7  | 38.7  | 38.7  | 38.4  |
| 87.5°  | 16.3  | 16.2  | 16.1  | 16.0  | 16.0  | 16.1  | 16.4  | 16.7  | 17.0  | 17.2  | 17.2  |
| 90°    | 0.7   | 2.4   | 4.0   | 5.8   | 7.4   | 9.3   | 11.5  | 13.6  | 15.9  | 18.0  | 18.7  |
| 92.5°  | 18.2  | 19.3  | 20.4  | 21.5  | 22.6  | 23.8  | 25.0  | 26.4  | 27.6  | 28.8  | 29.3  |
| 95°    | 44.2  | 45.3  | 46.6  | 47.8  | 48.9  | 50.1  | 51.5  | 52.8  | 54.1  | 55.4  | 56.1  |
| 97.5°  | 78.6  | 79.4  | 80.3  | 81.2  | 82.0  | 82.9  | 83.9  | 84.8  | 85.8  | 86.8  | 87.6  |
| 100°   | 101.9 | 102.9 | 103.9 | 104.9 | 105.9 | 106.8 | 107.7 | 108.6 | 109.4 | 110.2 | 110.7 |
| 102.5° | 129.0 | 129.6 | 130.2 | 130.7 | 131.3 | 132.2 | 133.3 | 134.4 | 135.4 | 136.5 | 137.0 |
| 105°   | 168.6 | 169.0 | 169.4 | 169.7 | 170.0 | 170.9 | 172.4 | 173.9 | 175.4 | 176.9 | 176.9 |
| 107.5° | 214.8 | 215.0 | 215.2 | 215.4 | 215.6 | 216.0 | 216.6 | 217.2 | 217.8 | 218.4 | 218.9 |
| 110°   | 243.6 | 244.0 | 244.3 | 244.6 | 244.9 | 245.3 | 245.6 | 245.9 | 246.3 | 246.6 | 247.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 273.6 | 273.8 | 274.0 | 274.2 | 274.4 | 274.5 | 274.6 | 274.7 | 274.7 | 274.8 | 275.6 |
| 115°   | 318.6 | 319.0 | 319.5 | 320.0 | 320.5 | 320.6 | 320.3 | 320.0 | 319.6 | 319.3 | 319.5 |
| 117.5° | 363.9 | 364.2 | 364.5 | 364.9 | 365.2 | 365.2 | 364.7 | 364.3 | 363.9 | 363.3 | 363.3 |
| 120°   | 392.0 | 393.0 | 394.0 | 395.1 | 396.1 | 396.1 | 395.3 | 394.5 | 393.6 | 392.7 | 392.6 |
| 122.5° | 421.4 | 422.1 | 422.8 | 423.6 | 424.3 | 424.4 | 424.0 | 423.6 | 423.2 | 422.7 | 422.3 |
| 125°   | 466.3 | 466.8 | 467.3 | 467.8 | 468.3 | 468.3 | 468.0 | 467.7 | 467.3 | 467.0 | 466.4 |
| 127.5° | 507.6 | 508.7 | 509.8 | 510.8 | 511.9 | 512.2 | 511.9 | 511.5 | 511.1 | 510.8 | 509.8 |
| 130°   | 535.2 | 536.5 | 537.9 | 539.2 | 540.5 | 541.0 | 540.5 | 540.0 | 539.5 | 539.0 | 538.3 |
| 132.5° | 562.8 | 564.1 | 565.4 | 566.7 | 568.2 | 568.6 | 568.3 | 567.8 | 567.4 | 567.1 | 566.3 |
| 135°   | 604.9 | 605.9 | 606.9 | 607.9 | 608.8 | 609.4 | 609.2 | 608.9 | 608.8 | 608.6 | 607.9 |
| 137.5° | 643.9 | 644.7 | 645.5 | 646.4 | 647.2 | 647.8 | 648.2 | 648.7 | 649.1 | 649.5 | 648.8 |
| 140°   | 670.9 | 671.7 | 672.6 | 673.4 | 674.2 | 674.7 | 674.9 | 675.0 | 675.2 | 675.4 | 675.2 |
| 142.5° | 695.5 | 696.3 | 697.1 | 697.9 | 698.7 | 699.3 | 699.6 | 699.9 | 700.2 | 700.5 | 700.3 |
| 145°   | 733.9 | 734.2 | 734.5 | 734.8 | 735.2 | 735.6 | 736.1 | 736.6 | 737.1 | 737.6 | 737.4 |
| 147.5° | 767.4 | 768.0 | 768.6 | 769.2 | 769.8 | 770.3 | 770.8 | 771.2 | 771.7 | 772.2 | 772.2 |
| 150°   | 790.8 | 791.1 | 791.4 | 791.8 | 792.1 | 792.4 | 792.7 | 793.1 | 793.5 | 793.8 | 793.8 |
| 152.5° | 810.0 | 810.4 | 810.9 | 811.4 | 811.8 | 812.1 | 812.3 | 812.5 | 812.7 | 812.9 | 813.2 |
| 155°   | 840.3 | 840.3 | 840.3 | 840.3 | 840.3 | 840.3 | 840.5 | 840.7 | 840.8 | 841.0 | 841.7 |
| 157.5° | 866.1 | 865.9 | 865.7 | 865.5 | 865.3 | 865.3 | 865.4 | 865.5 | 865.7 | 865.8 | 866.5 |
| 160°   | 882.2 | 881.9 | 881.6 | 881.2 | 880.9 | 880.7 | 880.7 | 880.7 | 880.7 | 880.7 | 881.6 |
| 162.5° | 896.7 | 896.2 | 895.6 | 895.2 | 894.7 | 894.6 | 894.7 | 894.8 | 895.0 | 895.1 | 896.0 |
| 165°   | 915.2 | 914.7 | 914.2 | 913.7 | 913.2 | 912.9 | 912.9 | 912.9 | 912.9 | 912.9 | 913.9 |
| 167.5° | 930.1 | 929.4 | 928.8 | 928.1 | 927.4 | 927.2 | 927.3 | 927.4 | 927.6 | 927.7 | 928.7 |
| 170°   | 938.5 | 937.8 | 937.2 | 936.4 | 935.7 | 935.4 | 935.4 | 935.4 | 935.4 | 935.4 | 936.6 |
| 172.5° | 945.0 | 944.4 | 943.7 | 943.0 | 942.4 | 942.0 | 942.0 | 942.0 | 942.0 | 942.0 | 943.1 |
| 175°   | 951.9 | 951.3 | 950.6 | 950.0 | 949.3 | 949.0 | 949.0 | 949.0 | 949.0 | 949.0 | 950.0 |
| 177.5° | 954.8 | 954.2 | 953.7 | 953.2 | 952.7 | 952.4 | 952.4 | 952.4 | 952.4 | 952.4 | 953.2 |
| 180°   | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 899.7 | 899.7 | 899.7 | 899.7 | 899.7 | 899.7 | 899.7 | 899.7 |
| 2.5°   | 896.3 | 897.6 | 899.0 | 899.6 | 899.5 | 899.3 | 899.2 | 899.1 |
| 5°     | 891.5 | 893.2 | 894.9 | 895.6 | 895.2 | 894.9 | 894.6 | 894.2 |
| 7.5°   | 882.0 | 883.5 | 885.1 | 885.8 | 885.6 | 885.3 | 885.1 | 884.9 |
| 10°    | 873.3 | 874.9 | 876.5 | 877.1 | 876.8 | 876.4 | 876.1 | 875.7 |
| 12.5°  | 863.8 | 865.1 | 866.2 | 866.6 | 866.4 | 866.2 | 866.0 | 865.8 |
| 15°    | 846.8 | 848.1 | 849.5 | 849.6 | 848.6 | 847.6 | 846.6 | 845.6 |
| 17.5°  | 825.1 | 826.0 | 827.0 | 827.2 | 826.9 | 826.5 | 826.1 | 825.7 |
| 20°    | 809.0 | 809.7 | 810.3 | 810.4 | 809.9 | 809.4 | 808.9 | 808.4 |
| 22.5°  | 792.0 | 792.5 | 793.1 | 793.0 | 792.4 | 791.7 | 791.1 | 790.4 |
| 25°    | 763.9 | 764.1 | 764.2 | 764.1 | 763.6 | 763.1 | 762.4 | 761.9 |
| 27.5°  | 734.0 | 734.1 | 734.2 | 734.0 | 733.3 | 732.7 | 732.0 | 731.3 |
| 30°    | 713.3 | 713.3 | 713.3 | 712.7 | 711.4 | 710.2 | 709.0 | 707.8 |
| 32.5°  | 691.6 | 690.5 | 689.5 | 688.7 | 688.1 | 687.5 | 686.8 | 686.2 |
| 35°    | 656.2 | 655.2 | 654.2 | 653.3 | 652.4 | 651.6 | 650.7 | 649.8 |
| 37.5°  | 619.8 | 618.5 | 617.3 | 616.4 | 615.9 | 615.3 | 614.8 | 614.2 |
| 40°    | 596.0 | 594.6 | 593.3 | 592.2 | 591.5 | 590.9 | 590.2 | 589.5 |
| 42.5°  | 571.3 | 569.9 | 568.5 | 567.4 | 566.7 | 566.1 | 565.4 | 564.7 |
| 45°    | 534.3 | 532.2 | 530.2 | 528.7 | 527.9 | 526.9 | 526.1 | 525.2 |
| 47.5°  | 495.3 | 493.3 | 491.3 | 489.9 | 489.2 | 488.4 | 487.7 | 486.9 |
| 50°    | 469.7 | 467.8 | 465.9 | 464.4 | 463.3 | 462.3 | 461.3 | 460.3 |
| 52.5°  | 443.6 | 442.0 | 440.4 | 439.0 | 438.0 | 437.0 | 436.0 | 434.9 |
| 55°    | 403.8 | 402.0 | 400.1 | 398.7 | 397.9 | 397.0 | 396.2 | 395.3 |
| 57.5°  | 364.9 | 363.1 | 361.5 | 360.1 | 359.1 | 358.2 | 357.2 | 356.2 |
| 60°    | 337.3 | 335.8 | 334.2 | 333.0 | 332.1 | 331.2 | 330.4 | 329.5 |
| 62.5°  | 310.6 | 309.1 | 307.6 | 306.5 | 305.9 | 305.4 | 304.8 | 304.2 |
| 65°    | 271.0 | 269.7 | 268.3 | 267.4 | 266.9 | 266.4 | 265.9 | 265.3 |
| 67.5°  | 231.9 | 230.7 | 229.4 | 228.4 | 227.7 | 227.0 | 226.3 | 225.6 |
| 70°    | 206.4 | 205.3 | 204.1 | 203.0 | 202.2 | 201.3 | 200.5 | 199.5 |
| 72.5°  | 180.8 | 179.7 | 178.6 | 177.8 | 177.4 | 176.9 | 176.5 | 176.0 |
| 75°    | 143.7 | 142.9 | 142.0 | 141.3 | 140.8 | 140.3 | 139.8 | 139.3 |
| 77.5°  | 109.2 | 108.6 | 108.0 | 107.7 | 107.7 | 107.7 | 107.7 | 107.7 |
| 80°    | 87.1  | 86.8  | 86.7  | 86.6  | 86.6  | 86.6  | 86.6  | 86.6  |
| 82.5°  | 67.0  | 66.7  | 66.3  | 66.1  | 66.0  | 65.8  | 65.7  | 65.6  |
| 85°    | 38.0  | 37.7  | 37.3  | 37.2  | 37.2  | 37.2  | 37.2  | 37.2  |
| 87.5°  | 17.2  | 17.2  | 17.2  | 17.3  | 17.3  | 17.4  | 17.5  | 17.5  |
| 90°    | 19.3  | 20.0  | 20.7  | 21.1  | 21.5  | 21.8  | 22.1  | 22.5  |
| 92.5°  | 29.9  | 30.4  | 30.9  | 31.1  | 30.9  | 30.7  | 30.5  | 30.3  |
| 95°    | 56.8  | 57.5  | 58.2  | 58.5  | 58.5  | 58.5  | 58.5  | 58.5  |
| 97.5°  | 88.4  | 89.1  | 89.9  | 90.2  | 90.2  | 90.1  | 90.0  | 90.0  |
| 100°   | 111.2 | 111.7 | 112.2 | 112.6 | 112.9 | 113.3 | 113.6 | 113.9 |
| 102.5° | 137.5 | 138.0 | 138.6 | 138.8 | 138.8 | 138.7 | 138.6 | 138.6 |
| 105°   | 176.9 | 176.9 | 176.9 | 177.0 | 177.4 | 177.7 | 178.0 | 178.4 |
| 107.5° | 219.4 | 220.0 | 220.6 | 220.8 | 220.6 | 220.4 | 220.2 | 219.9 |
| 110°   | 247.9 | 248.6 | 249.2 | 249.4 | 249.1 | 248.7 | 248.4 | 248.1 |





TEST NUMBER: P332131-840

CATALOG NUMBER: S123DIW-S560D755U840-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 276.4 | 277.2 | 278.0 | 278.3 | 278.3 | 278.2 | 278.1 | 278.1 |
| 115°   | 319.6 | 319.8 | 320.0 | 320.0 | 319.8 | 319.6 | 319.5 | 319.3 |
| 117.5° | 363.3 | 363.2 | 363.2 | 363.0 | 362.5 | 362.0 | 361.6 | 361.1 |
| 120°   | 392.4 | 392.2 | 392.1 | 391.8 | 391.5 | 391.2 | 390.8 | 390.5 |
| 122.5° | 421.9 | 421.4 | 421.0 | 420.6 | 420.1 | 419.6 | 419.2 | 418.7 |
| 125°   | 465.6 | 464.9 | 464.3 | 463.6 | 463.0 | 462.3 | 461.6 | 461.0 |
| 127.5° | 508.9 | 508.0 | 507.1 | 506.1 | 505.4 | 504.6 | 503.9 | 503.1 |
| 130°   | 537.7 | 536.9 | 536.2 | 535.3 | 534.2 | 533.0 | 531.9 | 530.7 |
| 132.5° | 565.5 | 564.7 | 563.9 | 563.1 | 562.2 | 561.3 | 560.4 | 559.5 |
| 135°   | 607.3 | 606.6 | 606.0 | 605.5 | 605.1 | 604.8 | 604.5 | 604.1 |
| 137.5° | 648.1 | 647.4 | 646.8 | 646.1 | 645.5 | 644.8 | 644.2 | 643.6 |
| 140°   | 675.0 | 674.9 | 674.7 | 674.0 | 672.9 | 671.7 | 670.6 | 669.3 |
| 142.5° | 700.2 | 700.0 | 699.8 | 699.3 | 698.4 | 697.5 | 696.6 | 695.7 |
| 145°   | 737.2 | 737.1 | 736.9 | 736.5 | 735.8 | 735.2 | 734.5 | 733.9 |
| 147.5° | 772.2 | 772.2 | 772.2 | 771.7 | 770.7 | 769.7 | 768.7 | 767.7 |
| 150°   | 793.8 | 793.8 | 793.8 | 793.2 | 792.2 | 791.3 | 790.3 | 789.3 |
| 152.5° | 813.5 | 813.7 | 814.1 | 813.7 | 812.8 | 812.0 | 811.1 | 810.3 |
| 155°   | 842.3 | 843.0 | 843.6 | 843.4 | 842.2 | 841.1 | 839.9 | 838.8 |
| 157.5° | 867.2 | 867.9 | 868.6 | 868.4 | 867.5 | 866.6 | 865.7 | 864.6 |
| 160°   | 882.4 | 883.2 | 884.0 | 884.1 | 883.5 | 882.8 | 882.1 | 881.5 |
| 162.5° | 896.8 | 897.7 | 898.5 | 898.4 | 897.3 | 896.3 | 895.1 | 894.0 |
| 165°   | 914.9 | 915.9 | 917.0 | 916.9 | 915.7 | 914.5 | 913.4 | 912.2 |
| 167.5° | 929.7 | 930.8 | 931.8 | 931.8 | 930.8 | 929.7 | 928.7 | 927.7 |
| 170°   | 937.8 | 939.0 | 940.1 | 940.1 | 939.0 | 937.8 | 936.6 | 935.4 |
| 172.5° | 944.1 | 945.1 | 946.1 | 946.1 | 944.9 | 943.8 | 942.6 | 941.5 |
| 175°   | 951.0 | 951.9 | 952.9 | 952.9 | 951.7 | 950.5 | 949.4 | 948.2 |
| 177.5° | 954.0 | 954.8 | 955.6 | 955.5 | 954.6 | 953.6 | 952.7 | 951.8 |
| 180°   | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 |

(END OF REPORT)