

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: P333053-927

Luminaire Tested: **S124RDIW-S575D1560U927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333053-927  
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: S124RDIW-S575D1560U927-4F0-1E-UDD-F  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 575 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 1560 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6805.4 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

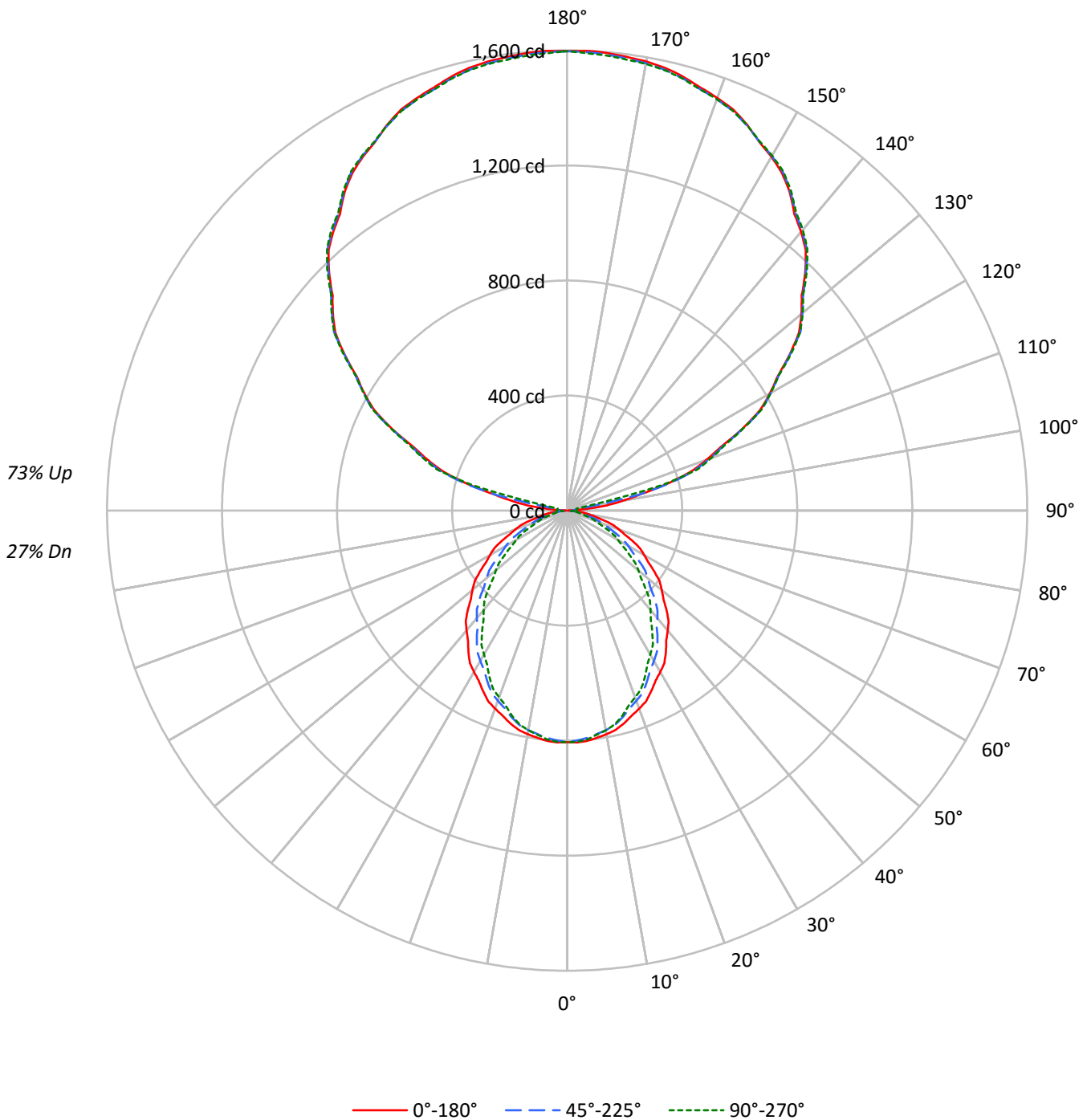
Input Watts (W): 60.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P333053-927

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 52 | 52 | 52 | 35 | 35 | 35 |
| 1   | 93  | 89  | 85  | 82  | 83 | 79 | 76 | 74 | 62 | 60 | 58 | 46 | 45 | 44 | 31 | 31 | 30 |
| 2   | 85  | 78  | 72  | 67  | 75 | 70 | 65 | 61 | 55 | 51 | 48 | 41 | 39 | 37 | 28 | 27 | 26 |
| 3   | 77  | 68  | 61  | 56  | 69 | 61 | 55 | 51 | 48 | 44 | 41 | 36 | 33 | 31 | 25 | 23 | 22 |
| 4   | 71  | 60  | 53  | 47  | 63 | 54 | 48 | 43 | 43 | 38 | 35 | 32 | 29 | 27 | 22 | 20 | 19 |
| 5   | 65  | 54  | 46  | 40  | 58 | 48 | 42 | 37 | 38 | 33 | 30 | 29 | 26 | 23 | 20 | 18 | 17 |
| 6   | 60  | 48  | 40  | 35  | 53 | 43 | 37 | 32 | 34 | 30 | 26 | 26 | 23 | 20 | 18 | 16 | 15 |
| 7   | 55  | 43  | 36  | 30  | 49 | 39 | 32 | 28 | 31 | 26 | 23 | 24 | 20 | 18 | 17 | 15 | 13 |
| 8   | 51  | 39  | 32  | 27  | 45 | 35 | 29 | 24 | 28 | 24 | 20 | 22 | 18 | 16 | 15 | 13 | 12 |
| 9   | 47  | 36  | 28  | 24  | 42 | 32 | 26 | 22 | 26 | 21 | 18 | 20 | 17 | 14 | 14 | 12 | 10 |
| 10  | 44  | 33  | 26  | 21  | 39 | 30 | 23 | 19 | 24 | 19 | 16 | 18 | 15 | 13 | 13 | 11 | 10 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6500 | 6500 | 6500 |
| 5°  | 6514 | 6434 | 6474 |
| 10° | 6473 | 6357 | 6357 |
| 15° | 6399 | 6224 | 6177 |
| 20° | 6296 | 6048 | 5936 |
| 25° | 6167 | 5842 | 5694 |
| 30° | 6039 | 5626 | 5390 |
| 35° | 5899 | 5401 | 5084 |
| 40° | 5730 | 5145 | 4755 |
| 45° | 5574 | 4891 | 4419 |
| 50° | 5397 | 4598 | 4064 |
| 55° | 5206 | 4294 | 3678 |
| 60° | 4996 | 3961 | 3284 |
| 65° | 4804 | 3543 | 2896 |
| 70° | 4525 | 3085 | 2460 |
| 75° | 4173 | 2558 | 1999 |
| 80° | 3640 | 1948 | 1836 |
| 85° | 3084 | 1769 | 1658 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 75.6   | 1.1       |
| 10°-20°   | 210.9  | 3.1       |
| 20°-30°   | 304.5  | 4.5       |
| 30°-40°   | 345.2  | 5.1       |
| 40°-50°   | 333.3  | 4.9       |
| 50°-60°   | 277.2  | 4.1       |
| 60°-70°   | 191.4  | 2.8       |
| 70°-80°   | 97.0   | 1.4       |
| 80°-90°   | 29.5   | 0.4       |
| 90°-100°  | 54.6   | 0.8       |
| 100°-110° | 348.3  | 5.1       |
| 110°-120° | 666.3  | 9.8       |
| 120°-130° | 845.9  | 12.4      |
| 130°-140° | 905.0  | 13.3      |
| 140°-150° | 846.3  | 12.4      |
| 150°-160° | 682.5  | 10.0      |
| 160°-170° | 440.2  | 6.5       |
| 170°-180° | 151.7  | 2.2       |
| 0°-30°    | 591.0  | 8.7       |
| 0°-40°    | 936.2  | 13.8      |
| 0°-60°    | 1546.7 | 22.7      |
| 0°-90°    | 1864.7 | 27.4      |
| 90°-120°  | 1069.3 | 15.7      |
| 90°-150°  | 3666.4 | 53.9      |
| 90°-180°  | 4941.0 | 72.6      |
| 0°-180°   | 6805.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 805  | 805   | 805  | 805   | 805  |      |
| 5°   | 804  | 801   | 794  | 800   | 799  | 76   |
| 15°  | 766  | 760   | 745  | 743   | 739  | 216  |
| 25°  | 692  | 680   | 656  | 646   | 639  | 319  |
| 35°  | 599  | 578   | 548  | 528   | 516  | 374  |
| 45°  | 488  | 465   | 428  | 399   | 387  | 376  |
| 55°  | 370  | 344   | 305  | 274   | 261  | 331  |
| 65°  | 252  | 224   | 186  | 160   | 152  | 248  |
| 75°  | 134  | 111   | 82   | 68    | 64   | 141  |
| 85°  | 33   | 22    | 19   | 18    | 18   | 38   |
| 90°  | 4    | 17    | 26   | 33    | 36   | 5    |
| 95°  | 66   | 27    | 26   | 33    | 35   | 84   |
| 105° | 360  | 367   | 373  | 380   | 340  | 376  |
| 115° | 671  | 675   | 674  | 676   | 676  | 660  |
| 125° | 944  | 948   | 946  | 950   | 951  | 842  |
| 135° | 1171 | 1170  | 1174 | 1177  | 1179 | 902  |
| 145° | 1350 | 1353  | 1354 | 1355  | 1357 | 843  |
| 155° | 1480 | 1481  | 1478 | 1482  | 1479 | 682  |
| 165° | 1561 | 1556  | 1555 | 1564  | 1554 | 441  |
| 175° | 1597 | 1591  | 1591 | 1601  | 1588 | 152  |
| 180° | 1597 | 1597  | 1597 | 1597  | 1597 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 805.1 | 805.1 | 805.1 | 805.1 | 805.1 | 805.1 | 805.1 | 805.1 | 805.1 | 805.1 | 805.1 |
| 2.5°   | 807.1 | 806.6 | 806.2 | 805.7 | 805.3 | 804.5 | 803.3 | 802.1 | 800.8 | 799.6 | 800.8 |
| 5°     | 803.8 | 803.3 | 802.7 | 802.2 | 801.7 | 800.6 | 798.9 | 797.3 | 795.6 | 794.0 | 795.4 |
| 7.5°   | 796.5 | 796.0 | 795.4 | 794.9 | 794.2 | 792.9 | 790.8 | 788.6 | 786.5 | 784.3 | 785.2 |
| 10°    | 789.6 | 789.0 | 788.3 | 787.6 | 787.0 | 785.4 | 782.9 | 780.4 | 777.9 | 775.5 | 776.0 |
| 12.5°  | 780.8 | 780.0 | 779.2 | 778.4 | 777.6 | 775.8 | 772.9 | 769.9 | 767.1 | 764.1 | 764.5 |
| 15°    | 765.6 | 764.4 | 763.2 | 761.9 | 760.7 | 758.4 | 754.9 | 751.5 | 748.1 | 744.7 | 744.4 |
| 17.5°  | 747.3 | 745.4 | 743.7 | 741.9 | 740.1 | 737.2 | 733.1 | 729.0 | 724.8 | 720.7 | 720.0 |
| 20°    | 732.9 | 731.2 | 729.4 | 727.6 | 725.8 | 722.6 | 718.0 | 713.3 | 708.6 | 704.0 | 702.9 |
| 22.5°  | 717.2 | 715.2 | 713.2 | 711.1 | 709.2 | 705.7 | 700.7 | 695.7 | 690.7 | 685.7 | 684.0 |
| 25°    | 692.3 | 689.8 | 687.3 | 684.8 | 682.4 | 678.3 | 672.7 | 667.1 | 661.5 | 655.9 | 653.6 |
| 27.5°  | 666.1 | 663.1 | 660.0 | 656.9 | 653.7 | 649.2 | 643.2 | 637.2 | 631.2 | 625.2 | 622.3 |
| 30°    | 647.8 | 644.4 | 641.0 | 637.6 | 634.2 | 629.2 | 622.8 | 616.4 | 609.9 | 603.5 | 600.1 |
| 32.5°  | 628.7 | 624.8 | 620.9 | 617.0 | 613.2 | 607.9 | 601.3 | 594.6 | 588.0 | 581.3 | 577.3 |
| 35°    | 598.6 | 594.2 | 589.8 | 585.4 | 581.1 | 575.4 | 568.5 | 561.7 | 554.8 | 548.0 | 543.4 |
| 37.5°  | 566.4 | 561.9 | 557.4 | 552.9 | 548.3 | 542.2 | 534.6 | 527.0 | 519.5 | 511.9 | 506.7 |
| 40°    | 543.7 | 539.2 | 534.6 | 530.1 | 525.6 | 519.4 | 511.7 | 503.8 | 496.1 | 488.2 | 482.4 |
| 42.5°  | 522.0 | 517.3 | 512.5 | 507.8 | 503.0 | 496.6 | 488.5 | 480.3 | 472.2 | 464.1 | 458.2 |
| 45°    | 488.2 | 483.2 | 478.1 | 473.0 | 467.9 | 461.3 | 453.0 | 444.9 | 436.7 | 428.4 | 421.7 |
| 47.5°  | 453.4 | 448.1 | 442.8 | 437.6 | 432.4 | 425.5 | 416.9 | 408.4 | 399.9 | 391.3 | 384.4 |
| 50°    | 429.7 | 424.3 | 419.0 | 413.6 | 408.3 | 401.2 | 392.4 | 383.7 | 374.9 | 366.1 | 359.3 |
| 52.5°  | 405.5 | 400.3 | 395.1 | 389.8 | 384.5 | 377.5 | 368.4 | 359.5 | 350.5 | 341.5 | 334.5 |
| 55°    | 369.9 | 364.4 | 358.9 | 353.4 | 347.9 | 340.7 | 331.8 | 323.0 | 314.0 | 305.1 | 298.0 |
| 57.5°  | 334.6 | 328.9 | 323.2 | 317.5 | 311.8 | 304.6 | 295.8 | 287.0 | 278.3 | 269.5 | 262.3 |
| 60°    | 309.4 | 304.0 | 298.5 | 293.0 | 287.6 | 280.4 | 271.6 | 262.8 | 254.1 | 245.3 | 238.2 |
| 62.5°  | 286.8 | 281.1 | 275.4 | 269.7 | 264.0 | 256.7 | 247.6 | 238.7 | 229.7 | 220.7 | 214.1 |
| 65°    | 251.5 | 245.7 | 239.7 | 233.9 | 227.9 | 220.6 | 211.8 | 203.1 | 194.3 | 185.5 | 179.7 |
| 67.5°  | 214.9 | 209.2 | 203.6 | 198.0 | 192.3 | 185.4 | 177.3 | 169.1 | 161.1 | 152.9 | 147.8 |
| 70°    | 191.7 | 185.9 | 180.2 | 174.4 | 168.7 | 161.9 | 154.1 | 146.3 | 138.5 | 130.7 | 126.2 |
| 72.5°  | 167.1 | 161.8 | 156.6 | 151.5 | 146.2 | 140.0 | 132.6 | 125.2 | 117.8 | 110.4 | 106.6 |
| 75°    | 133.8 | 128.7 | 123.7 | 118.6 | 113.5 | 107.7 | 101.3 | 94.8  | 88.4  | 82.0  | 78.8  |
| 77.5°  | 100.0 | 95.7  | 91.4  | 87.1  | 82.8  | 78.0  | 72.8  | 67.7  | 62.4  | 57.2  | 55.4  |
| 80°    | 78.3  | 74.3  | 70.3  | 66.4  | 62.4  | 58.4  | 54.3  | 50.1  | 46.0  | 41.9  | 41.5  |
| 82.5°  | 59.6  | 55.9  | 52.3  | 48.6  | 45.0  | 42.0  | 39.6  | 37.2  | 34.9  | 32.6  | 32.2  |
| 85°    | 33.3  | 30.6  | 27.8  | 25.0  | 22.3  | 20.8  | 20.4  | 20.0  | 19.5  | 19.1  | 18.9  |
| 87.5°  | 12.0  | 11.8  | 11.5  | 11.2  | 10.9  | 10.9  | 11.2  | 11.6  | 11.9  | 12.2  | 12.4  |
| 90°    | 3.6   | 6.5   | 9.4   | 12.4  | 15.3  | 17.8  | 19.9  | 22.0  | 24.2  | 26.3  | 27.9  |
| 92.5°  | 15.1  | 15.2  | 15.4  | 15.5  | 15.7  | 16.8  | 18.9  | 21.1  | 23.2  | 25.3  | 26.9  |
| 95°    | 65.7  | 56.6  | 47.7  | 38.7  | 29.6  | 25.2  | 25.5  | 25.7  | 26.0  | 26.3  | 27.9  |
| 97.5°  | 139.5 | 145.1 | 150.8 | 156.5 | 162.1 | 150.0 | 120.4 | 90.8  | 61.2  | 31.5  | 31.7  |
| 100°   | 195.9 | 200.7 | 205.5 | 210.2 | 215.0 | 199.1 | 162.5 | 125.8 | 89.2  | 52.6  | 48.1  |
| 102.5° | 259.0 | 262.5 | 266.0 | 269.5 | 273.0 | 272.4 | 267.6 | 262.8 | 258.0 | 253.3 | 204.5 |
| 105°   | 359.6 | 361.2 | 362.7 | 364.4 | 366.0 | 367.4 | 368.8 | 370.1 | 371.4 | 372.7 | 375.1 |
| 107.5° | 453.0 | 453.8 | 454.6 | 455.4 | 456.2 | 457.5 | 459.3 | 461.1 | 462.9 | 464.7 | 465.9 |
| 110°   | 516.1 | 516.9 | 517.7 | 518.5 | 519.3 | 520.5 | 522.0 | 523.6 | 525.2 | 526.8 | 527.4 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 577.3  | 578.7  | 580.1  | 581.5  | 583.0  | 584.1  | 584.8  | 585.6  | 586.3  | 587.1  | 586.9  |
| 115°   | 671.4  | 672.2  | 673.0  | 673.8  | 674.5  | 674.9  | 674.5  | 674.3  | 674.1  | 673.8  | 674.3  |
| 117.5° | 756.2  | 757.2  | 758.4  | 759.4  | 760.5  | 761.3  | 761.8  | 762.5  | 763.0  | 763.6  | 763.5  |
| 120°   | 813.6  | 814.6  | 815.7  | 816.7  | 817.8  | 818.2  | 817.9  | 817.7  | 817.4  | 817.1  | 817.7  |
| 122.5° | 867.0  | 867.7  | 868.3  | 868.9  | 869.7  | 870.1  | 870.5  | 870.8  | 871.2  | 871.6  | 872.0  |
| 125°   | 943.8  | 944.8  | 945.9  | 947.0  | 948.0  | 948.2  | 947.8  | 947.2  | 946.7  | 946.2  | 947.0  |
| 127.5° | 1016.4 | 1016.7 | 1016.9 | 1017.2 | 1017.5 | 1018.2 | 1019.5 | 1020.6 | 1021.8 | 1023.1 | 1022.9 |
| 130°   | 1063.3 | 1063.5 | 1063.7 | 1064.1 | 1064.3 | 1064.9 | 1065.6 | 1066.4 | 1067.2 | 1068.0 | 1068.3 |
| 132.5° | 1106.2 | 1106.7 | 1107.2 | 1107.7 | 1108.2 | 1108.9 | 1109.9 | 1110.9 | 1111.9 | 1112.9 | 1113.2 |
| 135°   | 1170.8 | 1170.4 | 1170.2 | 1170.0 | 1169.7 | 1170.1 | 1171.2 | 1172.2 | 1173.3 | 1174.3 | 1174.9 |
| 137.5° | 1227.9 | 1228.0 | 1228.0 | 1228.2 | 1228.3 | 1228.9 | 1230.1 | 1231.3 | 1232.4 | 1233.6 | 1234.1 |
| 140°   | 1265.1 | 1265.7 | 1266.2 | 1266.7 | 1267.3 | 1267.8 | 1268.3 | 1268.8 | 1269.4 | 1269.9 | 1270.7 |
| 142.5° | 1298.5 | 1299.5 | 1300.5 | 1301.5 | 1302.4 | 1303.1 | 1303.4 | 1303.7 | 1304.0 | 1304.3 | 1304.9 |
| 145°   | 1350.0 | 1350.8 | 1351.5 | 1352.3 | 1353.1 | 1353.5 | 1353.5 | 1353.5 | 1353.5 | 1353.5 | 1353.8 |
| 147.5° | 1390.8 | 1392.3 | 1393.8 | 1395.3 | 1396.8 | 1397.3 | 1397.1 | 1396.9 | 1396.5 | 1396.3 | 1396.5 |
| 150°   | 1420.5 | 1421.5 | 1422.5 | 1423.6 | 1424.7 | 1425.1 | 1424.8 | 1424.6 | 1424.3 | 1424.0 | 1424.0 |
| 152.5° | 1445.3 | 1446.1 | 1447.0 | 1447.8 | 1448.7 | 1448.9 | 1448.3 | 1447.9 | 1447.4 | 1446.9 | 1447.4 |
| 155°   | 1480.2 | 1480.4 | 1480.7 | 1481.0 | 1481.2 | 1481.0 | 1480.2 | 1479.4 | 1478.6 | 1477.7 | 1478.8 |
| 157.5° | 1509.6 | 1509.4 | 1509.3 | 1509.1 | 1508.9 | 1508.4 | 1507.4 | 1506.6 | 1505.7 | 1504.8 | 1506.2 |
| 160°   | 1526.8 | 1526.0 | 1525.2 | 1524.4 | 1523.6 | 1523.0 | 1522.7 | 1522.5 | 1522.3 | 1521.9 | 1523.6 |
| 162.5° | 1542.1 | 1541.0 | 1540.0 | 1539.1 | 1538.0 | 1537.4 | 1537.1 | 1536.8 | 1536.6 | 1536.3 | 1537.9 |
| 165°   | 1561.4 | 1560.0 | 1558.8 | 1557.4 | 1556.1 | 1555.4 | 1555.4 | 1555.4 | 1555.4 | 1555.4 | 1557.5 |
| 167.5° | 1576.7 | 1575.3 | 1573.9 | 1572.6 | 1571.1 | 1570.4 | 1570.3 | 1570.1 | 1569.9 | 1569.8 | 1572.1 |
| 170°   | 1585.3 | 1583.7 | 1582.1 | 1580.5 | 1578.9 | 1578.3 | 1578.5 | 1578.8 | 1579.1 | 1579.3 | 1581.4 |
| 172.5° | 1591.0 | 1589.4 | 1587.9 | 1586.3 | 1584.7 | 1584.0 | 1584.3 | 1584.5 | 1584.8 | 1585.1 | 1587.1 |
| 175°   | 1597.2 | 1595.6 | 1594.0 | 1592.4 | 1590.9 | 1590.2 | 1590.5 | 1590.7 | 1591.0 | 1591.3 | 1593.6 |
| 177.5° | 1600.1 | 1598.6 | 1597.1 | 1595.6 | 1594.2 | 1593.6 | 1594.0 | 1594.5 | 1594.9 | 1595.3 | 1597.0 |
| 180°   | 1597.2 | 1597.2 | 1597.2 | 1597.2 | 1597.2 | 1597.2 | 1597.2 | 1597.2 | 1597.2 | 1597.2 | 1597.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 805.1 | 805.1 | 805.1 | 805.1 | 805.1 | 805.1 | 805.1 | 805.1 |
| 2.5°   | 802.1 | 803.3 | 804.5 | 805.0 | 804.9 | 804.8 | 804.7 | 804.6 |
| 5°     | 796.7 | 798.1 | 799.5 | 800.0 | 799.7 | 799.5 | 799.2 | 798.9 |
| 7.5°   | 786.1 | 787.0 | 787.9 | 788.1 | 787.7 | 787.2 | 786.8 | 786.3 |
| 10°    | 776.6 | 777.1 | 777.7 | 777.7 | 777.1 | 776.6 | 776.0 | 775.5 |
| 12.5°  | 764.8 | 765.1 | 765.5 | 765.2 | 764.5 | 763.7 | 763.0 | 762.2 |
| 15°    | 744.1 | 743.9 | 743.5 | 743.0 | 742.0 | 741.0 | 740.1 | 739.1 |
| 17.5°  | 719.2 | 718.4 | 717.6 | 716.5 | 715.1 | 713.7 | 712.2 | 710.7 |
| 20°    | 701.8 | 700.7 | 699.6 | 698.2 | 696.4 | 694.6 | 692.8 | 691.0 |
| 22.5°  | 682.5 | 680.8 | 679.1 | 677.6 | 676.1 | 674.7 | 673.3 | 671.8 |
| 25°    | 651.3 | 648.9 | 646.6 | 644.8 | 643.3 | 642.0 | 640.6 | 639.2 |
| 27.5°  | 619.4 | 616.6 | 613.7 | 611.2 | 609.3 | 607.3 | 605.4 | 603.4 |
| 30°    | 596.7 | 593.2 | 589.8 | 587.0 | 584.8 | 582.6 | 580.4 | 578.2 |
| 32.5°  | 573.4 | 569.4 | 565.4 | 562.4 | 560.3 | 558.3 | 556.1 | 554.1 |
| 35°    | 538.7 | 534.0 | 529.4 | 525.9 | 523.4 | 520.9 | 518.4 | 515.9 |
| 37.5°  | 501.5 | 496.3 | 491.1 | 487.3 | 484.7 | 482.3 | 479.8 | 477.4 |
| 40°    | 476.7 | 471.0 | 465.2 | 461.1 | 458.6 | 456.1 | 453.7 | 451.2 |
| 42.5°  | 452.3 | 446.5 | 440.6 | 436.4 | 433.8 | 431.3 | 428.6 | 426.1 |
| 45°    | 415.0 | 408.3 | 401.6 | 397.0 | 394.5 | 392.1 | 389.6 | 387.1 |
| 47.5°  | 377.4 | 370.4 | 363.5 | 358.6 | 355.9 | 353.2 | 350.5 | 347.8 |
| 50°    | 352.4 | 345.6 | 338.7 | 334.1 | 331.4 | 328.8 | 326.2 | 323.6 |
| 52.5°  | 327.6 | 320.6 | 313.7 | 308.9 | 306.1 | 303.4 | 300.7 | 298.0 |
| 55°    | 290.9 | 283.8 | 276.6 | 271.8 | 269.2 | 266.6 | 264.0 | 261.3 |
| 57.5°  | 255.0 | 247.8 | 240.6 | 236.0 | 234.0 | 232.0 | 230.0 | 228.1 |
| 60°    | 231.1 | 223.9 | 216.8 | 212.2 | 210.0 | 207.8 | 205.7 | 203.4 |
| 62.5°  | 207.6 | 201.0 | 194.4 | 190.2 | 188.5 | 186.7 | 185.0 | 183.2 |
| 65°    | 173.8 | 167.9 | 162.0 | 158.2 | 156.6 | 155.0 | 153.3 | 151.6 |
| 67.5°  | 142.8 | 137.7 | 132.6 | 129.2 | 127.4 | 125.6 | 123.7 | 121.9 |
| 70°    | 121.7 | 117.2 | 112.6 | 109.6 | 108.3 | 106.9 | 105.5 | 104.2 |
| 72.5°  | 102.7 | 98.9  | 95.0  | 92.4  | 91.2  | 89.9  | 88.6  | 87.4  |
| 75°    | 75.7  | 72.6  | 69.4  | 67.4  | 66.5  | 65.8  | 65.0  | 64.1  |
| 77.5°  | 53.6  | 51.7  | 49.8  | 48.8  | 48.6  | 48.3  | 48.1  | 47.8  |
| 80°    | 41.1  | 40.7  | 40.2  | 40.0  | 39.8  | 39.7  | 39.6  | 39.5  |
| 82.5°  | 31.9  | 31.6  | 31.4  | 31.1  | 31.0  | 30.8  | 30.7  | 30.6  |
| 85°    | 18.5  | 18.3  | 18.0  | 17.9  | 17.9  | 17.9  | 17.9  | 17.9  |
| 87.5°  | 12.6  | 12.8  | 13.0  | 13.2  | 13.4  | 13.6  | 13.9  | 14.1  |
| 90°    | 29.5  | 31.1  | 32.6  | 33.7  | 34.2  | 34.8  | 35.3  | 35.8  |
| 92.5°  | 28.5  | 30.1  | 31.7  | 32.6  | 32.6  | 32.8  | 32.9  | 33.0  |
| 95°    | 29.5  | 31.1  | 32.6  | 33.6  | 33.8  | 34.1  | 34.4  | 34.6  |
| 97.5°  | 31.8  | 32.0  | 32.2  | 32.4  | 32.6  | 33.0  | 33.2  | 33.4  |
| 100°   | 43.6  | 39.1  | 34.5  | 32.4  | 32.6  | 33.0  | 33.2  | 33.4  |
| 102.5° | 155.9 | 107.2 | 58.5  | 34.2  | 34.2  | 34.3  | 34.4  | 34.4  |
| 105°   | 377.5 | 379.9 | 382.3 | 378.7 | 369.2 | 359.6 | 350.1 | 340.5 |
| 107.5° | 467.1 | 468.3 | 469.4 | 470.5 | 471.5 | 472.5 | 473.5 | 474.5 |
| 110°   | 527.9 | 528.5 | 528.9 | 529.7 | 530.4 | 531.2 | 532.0 | 532.8 |





TEST NUMBER: P333053-927

CATALOG NUMBER: S124RDIW-S575D1560U927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 586.8  | 586.7  | 586.6  | 587.1  | 588.1  | 589.1  | 590.1  | 591.1  |
| 115°   | 674.9  | 675.3  | 675.9  | 676.2  | 676.2  | 676.2  | 676.2  | 676.2  |
| 117.5° | 763.4  | 763.3  | 763.2  | 763.1  | 763.0  | 762.9  | 762.8  | 762.6  |
| 120°   | 818.2  | 818.7  | 819.3  | 819.3  | 818.7  | 818.2  | 817.7  | 817.1  |
| 122.5° | 872.3  | 872.6  | 872.9  | 872.7  | 872.3  | 871.7  | 871.2  | 870.7  |
| 125°   | 947.8  | 948.6  | 949.4  | 949.9  | 950.1  | 950.4  | 950.7  | 950.9  |
| 127.5° | 1022.8 | 1022.6 | 1022.5 | 1022.2 | 1022.1 | 1021.8 | 1021.6 | 1021.4 |
| 130°   | 1068.6 | 1068.8 | 1069.1 | 1069.2 | 1069.2 | 1069.2 | 1069.2 | 1069.2 |
| 132.5° | 1113.5 | 1113.7 | 1114.0 | 1114.0 | 1113.8 | 1113.6 | 1113.4 | 1113.2 |
| 135°   | 1175.4 | 1175.9 | 1176.5 | 1177.0 | 1177.5 | 1178.1 | 1178.6 | 1179.1 |
| 137.5° | 1234.8 | 1235.3 | 1236.0 | 1236.1 | 1236.0 | 1235.8 | 1235.6 | 1235.5 |
| 140°   | 1271.5 | 1272.3 | 1273.1 | 1273.6 | 1273.9 | 1274.1 | 1274.4 | 1274.7 |
| 142.5° | 1305.5 | 1306.1 | 1306.6 | 1306.9 | 1307.0 | 1307.1 | 1307.1 | 1307.2 |
| 145°   | 1354.1 | 1354.3 | 1354.6 | 1355.0 | 1355.5 | 1356.1 | 1356.6 | 1357.1 |
| 147.5° | 1396.7 | 1396.9 | 1397.2 | 1397.4 | 1397.6 | 1397.9 | 1398.2 | 1398.4 |
| 150°   | 1424.0 | 1424.0 | 1424.0 | 1424.2 | 1424.4 | 1424.7 | 1425.0 | 1425.2 |
| 152.5° | 1447.8 | 1448.2 | 1448.7 | 1448.7 | 1448.6 | 1448.4 | 1448.3 | 1448.1 |
| 155°   | 1479.9 | 1481.0 | 1482.0 | 1482.2 | 1481.4 | 1480.6 | 1479.8 | 1479.0 |
| 157.5° | 1507.5 | 1508.9 | 1510.3 | 1510.3 | 1508.9 | 1507.5 | 1506.2 | 1504.8 |
| 160°   | 1525.2 | 1526.8 | 1528.4 | 1528.4 | 1526.8 | 1525.2 | 1523.6 | 1521.9 |
| 162.5° | 1539.5 | 1541.1 | 1542.7 | 1542.5 | 1540.8 | 1539.0 | 1537.2 | 1535.3 |
| 165°   | 1559.6 | 1561.8 | 1563.9 | 1563.8 | 1561.4 | 1559.0 | 1556.6 | 1554.3 |
| 167.5° | 1574.5 | 1576.8 | 1579.1 | 1579.0 | 1576.3 | 1573.7 | 1571.0 | 1568.4 |
| 170°   | 1583.6 | 1585.7 | 1587.9 | 1587.5 | 1584.9 | 1582.2 | 1579.6 | 1576.9 |
| 172.5° | 1589.3 | 1591.4 | 1593.6 | 1593.2 | 1590.3 | 1587.5 | 1584.6 | 1581.7 |
| 175°   | 1596.0 | 1598.5 | 1600.8 | 1600.4 | 1597.2 | 1594.0 | 1590.9 | 1587.7 |
| 177.5° | 1598.7 | 1600.4 | 1602.1 | 1601.7 | 1599.2 | 1596.6 | 1594.0 | 1591.5 |
| 180°   | 1597.2 | 1597.2 | 1597.2 | 1597.2 | 1597.2 | 1597.2 | 1597.2 | 1597.2 |

(END OF REPORT)