

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1037153

Luminaire Tested: S122RDS-B290DB2750-4F0-XX-W2A-A\_3000K

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1037153  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDS-B290DB2750-4F0-XX-W2A-A\_3000K  
Description: Define 2 Regressed Direct Surface with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

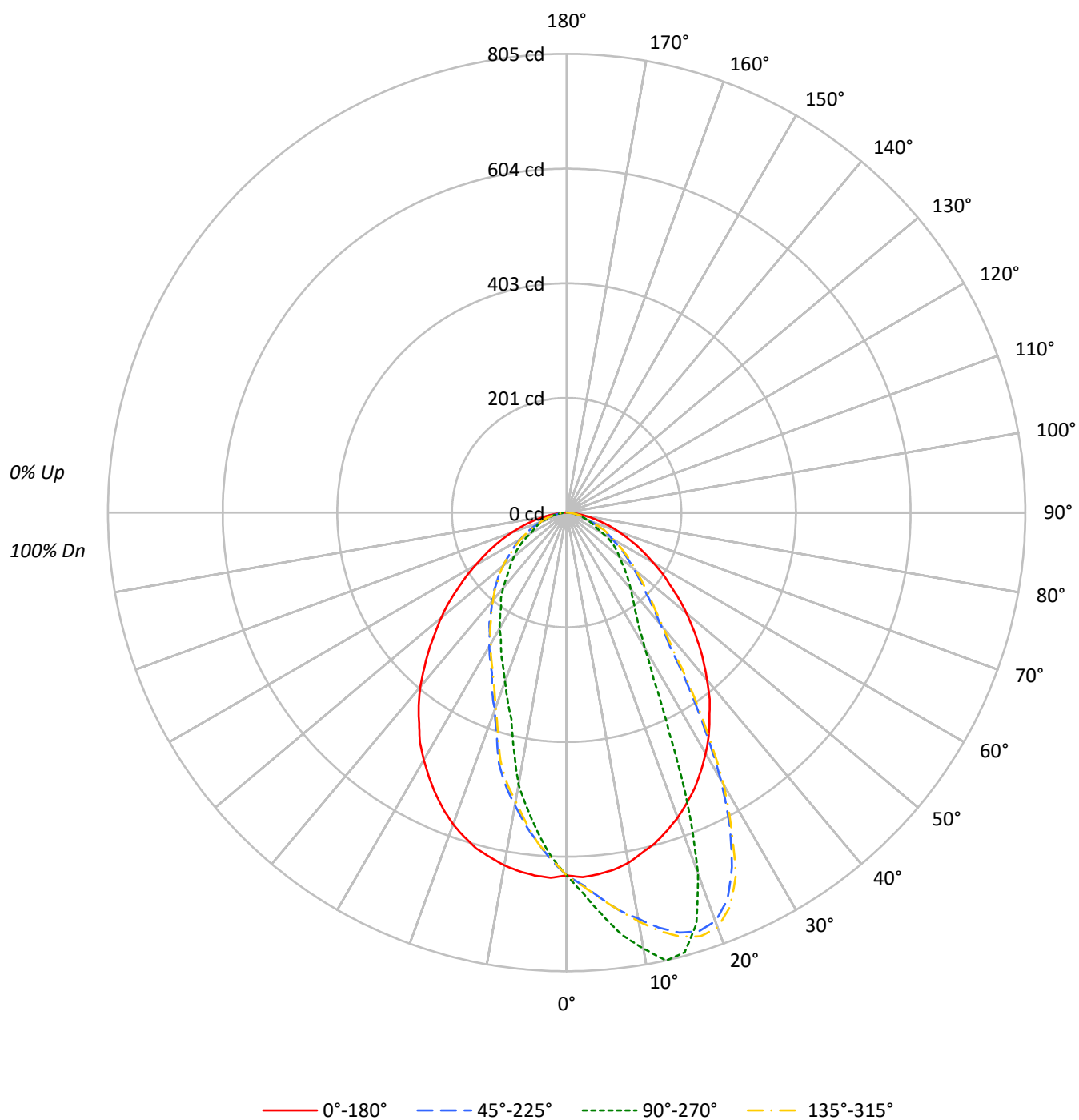
Lumens per Lamp: N/A  
Luminaire Lumens: 1100.0 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 13  
Input Voltage (V):  
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: 24 FT

TEST NUMBER: P1037153

CATALOG NUMBER: S122RDS-B290DB2750-4F0-XX-W2A-A\_3000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1037153

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

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|--|-----|
| RF  | 20  |     |     |     | 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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |  | 100 |
| 1   | 111 | 106 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 97  | 95  |  | 96  | 94  | 92  |  | 93  | 91  | 89  |  | 87  |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 81  |  | 87  | 83  | 80  |  | 84  | 81  | 78  |  | 76  |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 71  |  | 78  | 73  | 69  |  | 76  | 72  | 68  |  | 66  |
| 4   | 87  | 77  | 69  | 63  | 85  | 76  | 68  | 63  | 73  | 67  | 62  |  | 71  | 66  | 61  |  | 69  | 64  | 60  |  | 59  |
| 5   | 81  | 70  | 62  | 56  | 79  | 69  | 61  | 56  | 67  | 60  | 55  |  | 65  | 59  | 55  |  | 63  | 58  | 54  |  | 52  |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 55  | 50  | 61  | 54  | 49  |  | 60  | 54  | 49  |  | 58  | 53  | 49  |  | 47  |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  |  | 55  | 49  | 44  |  | 54  | 48  | 44  |  | 42  |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 41  |  | 51  | 45  | 40  |  | 50  | 44  | 40  |  | 39  |
| 9   | 62  | 50  | 43  | 38  | 61  | 50  | 42  | 37  | 49  | 42  | 37  |  | 47  | 41  | 37  |  | 47  | 41  | 37  |  | 35  |
| 10  | 59  | 47  | 39  | 35  | 58  | 46  | 39  | 35  | 45  | 39  | 34  |  | 44  | 38  | 34  |  | 44  | 38  | 34  |  | 33  |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 10075 | 10075 | 10075 | 10075 |
| 5°  | 10122 | 11253 | 10157 | 8990  |
| 10° | 10031 | 12486 | 10104 | 7792  |
| 15° | 9838  | 13099 | 10003 | 6140  |
| 20° | 9597  | 11355 | 9806  | 5313  |
| 25° | 9302  | 7447  | 9503  | 4744  |
| 30° | 8918  | 5014  | 9161  | 4294  |
| 35° | 8445  | 4060  | 8719  | 3873  |
| 40° | 7916  | 3610  | 8253  | 3583  |
| 45° | 7347  | 3268  | 7654  | 3199  |
| 50° | 6765  | 2975  | 7080  | 2963  |
| 55° | 6116  | 2796  | 6447  | 2760  |
| 60° | 5547  | 2340  | 5841  | 2311  |
| 65° | 5019  | 1970  | 5319  | 2236  |
| 70° | 4443  | 1824  | 4790  | 2110  |
| 75° | 3841  | 1706  | 4196  | 1945  |
| 80° | 3181  | 1577  | 3428  | 1732  |
| 85° | 2488  | 1453  | 2724  | 1526  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 160°

Vertical Angle: 45°

Luminance: 11061 cd/sqm

TEST NUMBER: P1037153

CATALOG NUMBER: S122RDS-B290DB2750-4F0-XX-W2A-A\_3000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.4   | 5.5       |
| 10°-20°   | 168.5  | 15.3      |
| 20°-30°   | 216.9  | 19.7      |
| 30°-40°   | 205.8  | 18.7      |
| 40°-50°   | 176.3  | 16.0      |
| 50°-60°   | 134.3  | 12.2      |
| 60°-70°   | 84.7   | 7.7       |
| 70°-80°   | 42.3   | 3.8       |
| 80°-90°   | 10.9   | 1.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 445.8  | 40.5      |
| 0°-40°    | 651.5  | 59.2      |
| 0°-60°    | 962.2  | 87.5      |
| 0°-90°    | 1100.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1100.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0°  | 636 | 636 | 636  | 636  | 636  |      |
| 5°  | 637 | 708 | 639  | 566  | 637  | 60   |
| 15° | 600 | 799 | 610  | 375  | 600  | 169  |
| 25° | 533 | 426 | 544  | 272  | 533  | 245  |
| 35° | 437 | 210 | 451  | 200  | 437  | 273  |
| 45° | 328 | 146 | 342  | 143  | 328  | 253  |
| 55° | 222 | 101 | 234  | 100  | 222  | 200  |
| 65° | 134 | 53  | 142  | 60   | 134  | 133  |
| 75° | 63  | 28  | 69   | 32   | 63   | 68   |
| 85° | 14  | 8   | 15   | 8    | 14   | 16   |
| 90° | 0   | 0   | 0    | 0    | 0    |      |

TEST NUMBER: P1037153

CATALOG NUMBER: S122RDS-B290DB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 |
| 2.5°  | 640.5 | 643.2 | 644.5 | 646.3 | 650.2 | 652.9 | 656.9 | 657.8 | 657.3 | 659.1 | 654.2 |
| 5°    | 637.0 | 642.7 | 648.0 | 652.5 | 659.5 | 664.0 | 668.8 | 674.6 | 675.9 | 682.5 | 678.6 |
| 7.5°  | 632.1 | 640.5 | 648.0 | 656.9 | 667.5 | 673.2 | 680.8 | 689.6 | 693.6 | 701.6 | 703.8 |
| 10°   | 624.1 | 636.1 | 648.9 | 658.2 | 672.8 | 683.0 | 690.1 | 704.2 | 713.5 | 725.4 | 723.7 |
| 12.5° | 611.3 | 626.8 | 644.0 | 659.5 | 678.6 | 685.2 | 698.5 | 713.1 | 725.0 | 736.1 | 745.8 |
| 15°   | 600.3 | 618.0 | 637.0 | 656.0 | 677.7 | 690.1 | 703.3 | 722.3 | 735.2 | 754.6 | 763.0 |
| 17.5° | 585.2 | 607.8 | 630.3 | 651.6 | 677.2 | 691.4 | 707.7 | 726.3 | 745.3 | 763.9 | 770.6 |
| 20°   | 569.7 | 594.1 | 618.4 | 647.1 | 676.3 | 690.1 | 706.9 | 729.9 | 748.4 | 763.0 | 763.0 |
| 22.5° | 551.2 | 580.8 | 608.7 | 636.1 | 667.9 | 687.8 | 705.1 | 732.1 | 745.3 | 748.4 | 736.5 |
| 25°   | 532.6 | 562.2 | 592.7 | 626.8 | 663.1 | 680.8 | 700.2 | 725.4 | 729.9 | 717.5 | 686.5 |
| 27.5° | 510.5 | 543.6 | 578.1 | 614.9 | 652.9 | 675.0 | 692.7 | 709.5 | 701.1 | 667.9 | 619.7 |
| 30°   | 487.9 | 523.7 | 562.7 | 597.6 | 643.6 | 664.0 | 679.0 | 683.9 | 657.3 | 603.4 | 541.0 |
| 32.5° | 464.5 | 499.4 | 540.5 | 582.6 | 629.0 | 648.5 | 658.2 | 645.4 | 596.7 | 528.6 | 452.5 |
| 35°   | 437.0 | 476.4 | 519.3 | 563.1 | 609.1 | 623.7 | 629.5 | 598.0 | 535.7 | 447.6 | 372.0 |
| 37.5° | 412.3 | 451.6 | 497.6 | 542.3 | 587.0 | 594.9 | 589.2 | 540.1 | 460.9 | 373.8 | 299.9 |
| 40°   | 383.1 | 425.1 | 470.2 | 520.2 | 556.9 | 559.1 | 545.0 | 481.3 | 383.1 | 301.2 | 255.7 |
| 42.5° | 356.1 | 398.5 | 443.7 | 494.5 | 522.4 | 514.9 | 495.9 | 412.3 | 319.8 | 259.7 | 222.9 |
| 45°   | 328.2 | 368.5 | 417.1 | 462.2 | 482.2 | 464.5 | 435.7 | 346.8 | 268.5 | 223.4 | 195.1 |
| 47.5° | 301.2 | 338.8 | 387.0 | 430.4 | 433.9 | 414.0 | 380.0 | 290.6 | 232.7 | 196.4 | 173.4 |
| 50°   | 274.7 | 312.3 | 357.4 | 393.2 | 389.7 | 362.3 | 323.8 | 252.6 | 202.1 | 173.4 | 154.4 |
| 52.5° | 248.2 | 282.2 | 326.0 | 354.3 | 339.3 | 312.7 | 274.7 | 214.1 | 176.5 | 151.3 | 136.7 |
| 55°   | 221.6 | 253.5 | 291.1 | 314.5 | 290.6 | 260.1 | 233.1 | 183.6 | 153.0 | 132.7 | 121.6 |
| 57.5° | 199.5 | 224.7 | 259.2 | 273.4 | 244.6 | 220.7 | 197.3 | 157.9 | 132.7 | 118.1 | 105.3 |
| 60°   | 175.2 | 198.2 | 226.5 | 234.9 | 205.2 | 185.8 | 165.9 | 133.6 | 113.7 | 100.9 | 92.4  |
| 62.5° | 154.4 | 173.4 | 195.1 | 195.1 | 169.0 | 154.4 | 139.3 | 111.9 | 95.5  | 85.4  | 81.4  |
| 65°   | 134.0 | 147.7 | 163.2 | 161.5 | 139.3 | 126.5 | 114.6 | 92.4  | 80.1  | 73.0  | 69.0  |
| 67.5° | 114.1 | 124.7 | 134.9 | 128.7 | 112.8 | 101.7 | 90.7  | 74.8  | 66.4  | 61.5  | 56.2  |
| 70°   | 96.0  | 104.4 | 109.7 | 104.0 | 88.0  | 78.7  | 70.8  | 60.2  | 53.5  | 47.3  | 44.2  |
| 72.5° | 80.5  | 84.0  | 85.8  | 78.7  | 65.5  | 60.2  | 54.4  | 46.9  | 41.1  | 38.0  | 37.2  |
| 75°   | 62.8  | 65.9  | 64.6  | 59.3  | 48.2  | 44.2  | 39.8  | 34.5  | 33.2  | 31.4  | 30.5  |
| 77.5° | 49.1  | 49.1  | 46.9  | 42.0  | 34.5  | 31.4  | 29.6  | 27.0  | 25.7  | 25.2  | 24.3  |
| 80°   | 34.9  | 34.5  | 33.2  | 27.9  | 23.4  | 21.7  | 21.7  | 19.9  | 19.5  | 18.6  | 18.6  |
| 82.5° | 23.0  | 23.0  | 21.2  | 16.8  | 15.5  | 15.0  | 14.6  | 13.7  | 13.7  | 13.3  | 13.3  |
| 85°   | 13.7  | 12.8  | 10.6  | 9.3   | 8.8   | 8.8   | 8.4   | 8.0   | 8.4   | 8.0   | 8.0   |
| 87.5° | 6.2   | 4.9   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

TEST NUMBER: P1037153

CATALOG NUMBER: S122RDS-B290DB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 |
| 2.5°  | 659.1 | 660.0 | 661.3 | 667.5 | 668.4 | 670.1 | 669.3 | 669.3 | 669.7 | 668.8 | 669.3 |
| 5°    | 687.4 | 688.7 | 695.4 | 702.9 | 704.6 | 702.9 | 705.1 | 708.2 | 708.2 | 708.2 | 707.3 |
| 7.5°  | 713.9 | 718.8 | 726.3 | 737.4 | 739.6 | 741.8 | 745.8 | 743.1 | 744.0 | 748.0 | 746.7 |
| 10°   | 739.6 | 746.7 | 755.1 | 764.4 | 769.2 | 772.3 | 774.1 | 778.1 | 787.4 | 776.8 | 780.7 |
| 12.5° | 763.9 | 774.1 | 782.9 | 793.1 | 796.7 | 800.6 | 802.0 | 805.5 | 805.5 | 805.1 | 808.2 |
| 15°   | 779.8 | 789.1 | 797.1 | 803.7 | 804.6 | 803.7 | 802.8 | 803.3 | 804.6 | 799.3 | 802.4 |
| 17.5° | 783.4 | 784.3 | 786.9 | 784.3 | 784.7 | 775.4 | 770.1 | 768.8 | 756.4 | 756.8 | 767.0 |
| 20°   | 766.1 | 751.1 | 747.1 | 732.5 | 723.7 | 699.8 | 698.9 | 692.3 | 666.2 | 674.1 | 672.4 |
| 22.5° | 718.8 | 693.1 | 659.1 | 642.3 | 633.9 | 608.7 | 589.2 | 575.5 | 566.2 | 556.9 | 552.9 |
| 25°   | 656.4 | 614.9 | 566.6 | 533.5 | 528.6 | 505.2 | 469.3 | 452.5 | 432.6 | 426.4 | 437.0 |
| 27.5° | 575.9 | 522.0 | 467.6 | 416.7 | 407.4 | 386.2 | 368.0 | 356.1 | 333.1 | 331.8 | 332.6 |
| 30°   | 466.7 | 412.3 | 366.7 | 333.5 | 310.5 | 300.8 | 288.8 | 280.0 | 270.7 | 274.3 | 275.1 |
| 32.5° | 383.5 | 331.8 | 289.3 | 271.6 | 261.0 | 254.8 | 244.6 | 238.9 | 234.9 | 233.6 | 233.1 |
| 35°   | 304.8 | 270.3 | 251.2 | 234.0 | 227.8 | 223.4 | 215.9 | 213.2 | 209.7 | 210.1 | 210.1 |
| 37.5° | 261.0 | 232.2 | 218.1 | 209.2 | 203.5 | 201.3 | 196.4 | 193.7 | 191.5 | 190.6 | 192.0 |
| 40°   | 225.2 | 205.2 | 196.4 | 188.4 | 183.6 | 182.7 | 180.0 | 176.9 | 174.3 | 174.7 | 176.1 |
| 42.5° | 199.1 | 187.6 | 176.9 | 170.7 | 167.2 | 165.9 | 163.7 | 161.5 | 161.5 | 160.1 | 159.7 |
| 45°   | 178.3 | 169.0 | 160.1 | 154.4 | 152.2 | 150.4 | 147.7 | 147.3 | 145.5 | 146.0 | 146.4 |
| 47.5° | 159.7 | 152.2 | 145.5 | 139.8 | 137.6 | 137.1 | 134.5 | 132.7 | 132.7 | 132.3 | 131.8 |
| 50°   | 142.9 | 135.4 | 129.6 | 126.5 | 123.4 | 122.5 | 122.1 | 121.6 | 120.8 | 120.8 | 121.2 |
| 52.5° | 129.2 | 121.6 | 117.2 | 114.6 | 112.8 | 111.9 | 111.9 | 111.5 | 111.5 | 111.5 | 111.0 |
| 55°   | 114.1 | 107.9 | 104.4 | 103.5 | 102.6 | 102.2 | 101.7 | 100.9 | 100.4 | 101.3 | 100.4 |
| 57.5° | 100.0 | 97.8  | 94.7  | 93.8  | 91.6  | 91.6  | 90.2  | 89.4  | 88.5  | 89.4  | 89.4  |
| 60°   | 88.9  | 85.8  | 84.0  | 81.4  | 79.6  | 77.9  | 75.6  | 75.2  | 74.3  | 73.9  | 73.4  |
| 62.5° | 77.4  | 74.8  | 70.3  | 66.4  | 63.7  | 61.9  | 61.0  | 60.6  | 60.6  | 60.2  | 60.2  |
| 65°   | 64.6  | 58.4  | 56.2  | 54.9  | 54.4  | 54.0  | 53.1  | 52.6  | 53.1  | 52.6  | 53.1  |
| 67.5° | 50.4  | 49.5  | 48.2  | 47.3  | 46.9  | 46.4  | 46.4  | 46.0  | 46.0  | 46.0  | 46.0  |
| 70°   | 43.8  | 41.6  | 41.1  | 40.3  | 40.3  | 39.8  | 39.8  | 39.8  | 39.8  | 39.4  | 40.3  |
| 72.5° | 36.3  | 34.9  | 34.5  | 34.1  | 34.1  | 34.1  | 33.6  | 33.6  | 33.6  | 33.2  | 33.6  |
| 75°   | 29.6  | 29.2  | 28.3  | 28.3  | 27.9  | 28.3  | 27.9  | 27.9  | 27.4  | 27.9  | 27.9  |
| 77.5° | 23.9  | 23.4  | 23.0  | 23.0  | 22.6  | 22.6  | 22.6  | 22.6  | 22.6  | 22.6  | 23.0  |
| 80°   | 18.1  | 17.7  | 17.3  | 17.7  | 17.3  | 17.7  | 17.3  | 17.3  | 17.7  | 17.3  | 17.3  |
| 82.5° | 13.3  | 12.8  | 12.8  | 12.4  | 12.4  | 12.4  | 12.4  | 12.4  | 12.4  | 12.4  | 12.4  |
| 85°   | 8.0   | 7.5   | 7.5   | 8.0   | 7.5   | 8.0   | 7.5   | 7.5   | 7.5   | 8.0   | 8.0   |
| 87.5° | 3.5   | 4.0   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 4.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

TEST NUMBER: P1037153

CATALOG NUMBER: S122RDS-B290DB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 636.5 | 636.5 | 636.5 | 636.5  | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 |
| 2.5°  | 671.0 | 667.9 | 667.0 | 667.9  | 667.0 | 667.5 | 664.4 | 652.9 | 656.0 | 651.1 | 653.8 |
| 5°    | 709.1 | 706.4 | 700.7 | 699.8  | 698.9 | 698.0 | 693.6 | 683.4 | 679.4 | 672.8 | 672.4 |
| 7.5°  | 745.3 | 745.3 | 740.9 | 737.8  | 733.8 | 730.7 | 725.0 | 710.0 | 703.8 | 695.8 | 691.4 |
| 10°   | 781.2 | 769.7 | 774.5 | 771.4  | 761.7 | 759.9 | 749.3 | 740.5 | 728.5 | 720.6 | 713.5 |
| 12.5° | 806.8 | 803.3 | 798.9 | 796.2  | 793.6 | 787.8 | 780.7 | 758.2 | 752.0 | 736.1 | 728.1 |
| 15°   | 805.9 | 803.7 | 805.1 | 805.1  | 804.2 | 802.8 | 797.1 | 780.7 | 770.1 | 754.6 | 740.9 |
| 17.5° | 762.6 | 768.3 | 774.1 | 778.1  | 786.9 | 790.9 | 796.2 | 786.5 | 779.8 | 766.6 | 752.0 |
| 20°   | 687.0 | 701.1 | 717.9 | 721.5  | 729.4 | 752.9 | 763.5 | 771.9 | 774.5 | 770.1 | 758.2 |
| 22.5° | 581.7 | 593.6 | 634.3 | 633.4  | 644.9 | 672.8 | 703.8 | 729.0 | 748.9 | 759.9 | 755.5 |
| 25°   | 455.6 | 472.4 | 494.1 | 510.5  | 548.1 | 589.6 | 628.1 | 668.4 | 702.9 | 733.4 | 740.9 |
| 27.5° | 344.6 | 366.7 | 384.0 | 405.6  | 424.6 | 473.7 | 523.3 | 586.1 | 626.4 | 684.3 | 714.4 |
| 30°   | 278.7 | 288.8 | 306.1 | 316.3  | 325.6 | 363.2 | 419.3 | 481.3 | 552.0 | 618.8 | 670.6 |
| 32.5° | 238.0 | 245.1 | 257.9 | 262.3  | 272.0 | 297.3 | 332.6 | 389.3 | 462.2 | 543.2 | 611.3 |
| 35°   | 213.7 | 221.2 | 223.8 | 227.8  | 235.8 | 251.7 | 276.0 | 317.2 | 383.1 | 462.2 | 543.6 |
| 37.5° | 192.9 | 196.8 | 204.4 | 207.0  | 209.7 | 221.6 | 238.0 | 266.7 | 310.5 | 375.5 | 465.8 |
| 40°   | 178.3 | 180.5 | 184.5 | 186.7  | 188.4 | 196.8 | 211.4 | 230.9 | 263.2 | 312.7 | 395.9 |
| 42.5° | 162.8 | 165.4 | 168.1 | 170.7  | 173.0 | 179.6 | 188.4 | 207.0 | 228.7 | 266.3 | 326.4 |
| 45°   | 147.7 | 149.5 | 152.6 | 154.4  | 157.5 | 162.8 | 170.7 | 183.6 | 203.0 | 226.9 | 275.6 |
| 47.5° | 134.0 | 136.2 | 137.6 | 139.8  | 142.0 | 147.7 | 155.3 | 163.7 | 179.6 | 203.0 | 238.4 |
| 50°   | 121.6 | 124.3 | 126.1 | 126.5  | 128.3 | 133.6 | 139.8 | 149.1 | 159.2 | 177.4 | 208.3 |
| 52.5° | 112.8 | 113.2 | 114.6 | 116.3  | 115.9 | 119.0 | 124.7 | 131.8 | 142.4 | 157.0 | 179.6 |
| 55°   | 102.6 | 104.0 | 104.8 | 105.3  | 105.3 | 107.9 | 111.0 | 117.7 | 126.1 | 138.0 | 157.0 |
| 57.5° | 89.8  | 91.1  | 93.8  | 94.7   | 96.0  | 97.3  | 98.6  | 103.1 | 110.1 | 121.6 | 137.1 |
| 60°   | 76.5  | 77.4  | 80.1  | 81.8   | 82.7  | 86.3  | 88.0  | 91.6  | 95.5  | 104.0 | 118.5 |
| 62.5° | 61.5  | 62.4  | 63.7  | 65.5   | 67.2  | 72.5  | 77.0  | 80.5  | 83.6  | 89.4  | 101.3 |
| 65°   | 53.5  | 54.0  | 54.9  | 55.3   | 55.7  | 57.9  | 61.9  | 66.8  | 72.5  | 77.0  | 84.0  |
| 67.5° | 46.4  | 46.9  | 47.3  | 48.2   | 48.7  | 49.1  | 50.9  | 52.2  | 57.9  | 64.1  | 69.4  |
| 70°   | 39.8  | 40.7  | 41.1  | 41.1   | 41.6  | 42.5  | 43.3  | 45.1  | 46.9  | 50.0  | 56.6  |
| 72.5° | 33.6  | 34.1  | 34.9  | 34.9   | 34.9  | 35.8  | 36.7  | 37.6  | 38.5  | 40.3  | 42.9  |
| 75°   | 27.9  | 28.8  | 28.8  | 28.8   | 29.2  | 29.2  | 30.1  | 31.0  | 31.8  | 33.2  | 34.1  |
| 77.5° | 23.0  | 23.0  | 23.0  | 23.0   | 23.4  | 23.4  | 23.9  | 24.8  | 25.2  | 25.7  | 26.5  |
| 80°   | 17.3  | 17.7  | 17.7  | 17.7   | 18.1  | 18.1  | 18.1  | 19.0  | 19.5  | 19.5  | 20.3  |
| 82.5° | 12.8  | 12.8  | 12.8  | 13.3   | 12.8  | 13.3  | 13.3  | 13.7  | 13.3  | 13.7  | 14.2  |
| 85°   | 8.0   | 8.0   | 8.0   | 8.4    | 8.4   | 8.4   | 8.4   | 8.4   | 8.4   | 8.4   | 8.8   |
| 87.5° | 4.0   | 4.0   | 4.0   | 4.0    | 4.0   | 4.0   | 4.0   | 4.0   | 4.4   | 4.0   | 4.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

TEST NUMBER: P1037153

CATALOG NUMBER: S122RDS-B290DB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 636.5 | 636.5 | 636.5  | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 |
| 2.5°  | 649.8 | 647.6 | 647.6  | 646.3 | 646.3 | 639.2 | 639.2 | 641.4 | 638.7 | 635.6 | 631.2 |
| 5°    | 666.6 | 661.7 | 660.4  | 658.6 | 652.9 | 644.0 | 640.5 | 639.2 | 633.9 | 627.2 | 619.7 |
| 7.5°  | 682.5 | 674.6 | 670.6  | 666.6 | 659.1 | 646.7 | 639.6 | 634.8 | 626.8 | 616.6 | 606.9 |
| 10°   | 698.0 | 687.8 | 677.7  | 672.8 | 662.2 | 646.7 | 636.5 | 628.6 | 617.1 | 603.4 | 589.6 |
| 12.5° | 712.2 | 690.9 | 689.2  | 679.4 | 664.0 | 646.3 | 630.8 | 619.3 | 604.7 | 588.8 | 572.8 |
| 15°   | 724.6 | 702.9 | 692.3  | 683.4 | 663.1 | 641.0 | 624.6 | 610.4 | 591.0 | 572.8 | 553.4 |
| 17.5° | 730.7 | 707.3 | 700.2  | 685.6 | 664.8 | 636.1 | 614.0 | 596.7 | 575.5 | 553.8 | 531.7 |
| 20°   | 736.9 | 709.5 | 698.0  | 687.8 | 659.5 | 626.8 | 602.0 | 582.1 | 558.7 | 533.0 | 508.7 |
| 22.5° | 740.0 | 709.5 | 695.8  | 681.6 | 654.2 | 616.6 | 587.4 | 564.0 | 536.6 | 510.5 | 481.3 |
| 25°   | 734.7 | 706.9 | 690.5  | 675.9 | 644.9 | 604.2 | 570.6 | 544.1 | 514.9 | 485.2 | 455.6 |
| 27.5° | 721.5 | 700.7 | 681.6  | 666.6 | 632.1 | 588.3 | 552.9 | 522.8 | 492.8 | 459.6 | 429.5 |
| 30°   | 696.7 | 687.4 | 672.4  | 655.5 | 618.0 | 574.2 | 532.1 | 501.2 | 468.0 | 434.8 | 403.4 |
| 32.5° | 658.2 | 666.2 | 656.4  | 641.8 | 601.1 | 554.7 | 510.0 | 478.6 | 442.3 | 406.5 | 377.8 |
| 35°   | 611.3 | 639.6 | 634.3  | 624.1 | 583.4 | 533.9 | 489.2 | 451.2 | 414.9 | 378.6 | 349.9 |
| 37.5° | 560.0 | 602.9 | 607.3  | 601.1 | 563.1 | 512.7 | 463.6 | 426.4 | 389.3 | 352.5 | 323.4 |
| 40°   | 489.7 | 555.6 | 569.7  | 572.4 | 541.9 | 487.0 | 435.7 | 399.4 | 362.7 | 326.9 | 291.5 |
| 42.5° | 425.1 | 508.2 | 525.9  | 537.0 | 514.9 | 461.8 | 410.0 | 369.8 | 333.5 | 301.2 | 265.8 |
| 45°   | 364.5 | 451.2 | 479.9  | 494.1 | 484.4 | 433.1 | 379.5 | 341.9 | 308.8 | 279.1 | 245.1 |
| 47.5° | 302.1 | 389.3 | 429.5  | 452.1 | 452.1 | 403.9 | 350.3 | 313.2 | 281.3 | 256.1 | 226.0 |
| 50°   | 260.5 | 333.1 | 374.7  | 404.3 | 412.3 | 374.2 | 323.8 | 287.5 | 257.4 | 230.0 | 207.0 |
| 52.5° | 222.1 | 287.1 | 321.6  | 352.5 | 375.5 | 342.4 | 294.2 | 261.4 | 231.8 | 206.1 | 188.0 |
| 55°   | 192.0 | 240.6 | 272.0  | 306.1 | 331.8 | 310.1 | 265.4 | 233.6 | 207.9 | 186.7 | 171.2 |
| 57.5° | 163.2 | 205.7 | 231.3  | 261.4 | 288.8 | 272.5 | 236.7 | 209.2 | 186.7 | 168.1 | 154.4 |
| 60°   | 138.9 | 173.4 | 193.3  | 216.7 | 250.8 | 239.3 | 209.7 | 184.5 | 166.3 | 149.5 | 138.0 |
| 62.5° | 118.1 | 145.5 | 162.3  | 179.1 | 210.1 | 204.8 | 181.8 | 162.3 | 146.9 | 132.7 | 123.0 |
| 65°   | 96.9  | 119.4 | 132.7  | 147.3 | 172.1 | 174.3 | 155.7 | 142.0 | 127.8 | 115.5 | 106.6 |
| 67.5° | 78.3  | 96.0  | 107.9  | 120.3 | 140.2 | 146.4 | 133.6 | 122.1 | 110.1 | 100.0 | 92.0  |
| 70°   | 63.3  | 75.6  | 84.5   | 94.2  | 110.6 | 118.1 | 111.5 | 103.5 | 93.8  | 85.4  | 78.3  |
| 72.5° | 50.0  | 57.9  | 63.3   | 70.8  | 84.0  | 91.6  | 91.1  | 84.0  | 77.0  | 71.2  | 65.5  |
| 75°   | 36.7  | 42.9  | 47.3   | 52.2  | 62.8  | 69.9  | 71.7  | 68.6  | 61.5  | 57.1  | 52.6  |
| 77.5° | 27.9  | 31.4  | 33.6   | 37.2  | 44.7  | 50.9  | 53.5  | 52.6  | 47.8  | 44.2  | 41.1  |
| 80°   | 21.2  | 22.1  | 23.0   | 24.3  | 30.5  | 36.3  | 38.0  | 37.6  | 34.9  | 33.6  | 30.1  |
| 82.5° | 15.0  | 15.5  | 15.9   | 16.4  | 18.6  | 23.4  | 25.2  | 26.1  | 23.9  | 22.6  | 19.5  |
| 85°   | 8.8   | 9.3   | 9.3    | 10.2  | 10.6  | 11.9  | 15.0  | 15.0  | 14.6  | 12.8  | 12.4  |
| 87.5° | 4.4   | 4.4   | 4.0    | 4.0   | 4.4   | 4.9   | 5.8   | 6.6   | 5.8   | 5.3   | 4.9   |
| 90°   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

TEST NUMBER: P1037153

CATALOG NUMBER: S122RDS-B290DB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 636.5 | 636.5  | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 |
| 2.5°  | 629.5 | 629.9  | 631.2 | 627.2 | 621.0 | 618.4 | 610.4 | 609.1 | 607.8 | 607.8 | 609.1 |
| 5°    | 615.3 | 613.5  | 614.0 | 606.4 | 597.6 | 592.3 | 581.2 | 583.0 | 577.3 | 573.7 | 574.6 |
| 7.5°  | 599.8 | 594.9  | 594.5 | 584.8 | 573.7 | 564.0 | 552.5 | 549.8 | 544.5 | 538.3 | 535.7 |
| 10°   | 580.4 | 576.8  | 570.2 | 559.1 | 545.0 | 537.0 | 521.5 | 512.2 | 510.9 | 501.6 | 498.1 |
| 12.5° | 560.4 | 554.3  | 547.6 | 532.1 | 516.2 | 503.4 | 491.9 | 481.7 | 474.6 | 466.7 | 461.4 |
| 15°   | 537.4 | 529.9  | 522.4 | 506.0 | 487.5 | 474.6 | 457.4 | 442.3 | 421.6 | 405.2 | 395.9 |
| 17.5° | 512.2 | 503.8  | 493.7 | 475.5 | 457.4 | 439.7 | 407.8 | 390.1 | 375.5 | 365.8 | 360.1 |
| 20°   | 486.1 | 476.8  | 466.7 | 448.5 | 417.1 | 386.2 | 368.5 | 354.8 | 345.9 | 336.2 | 329.1 |
| 22.5° | 458.7 | 449.0  | 437.9 | 409.6 | 376.4 | 354.8 | 341.0 | 328.2 | 315.4 | 310.1 | 306.5 |
| 25°   | 433.1 | 424.2  | 410.0 | 371.6 | 345.5 | 325.6 | 310.1 | 301.7 | 295.0 | 288.0 | 281.3 |
| 27.5° | 406.5 | 390.1  | 370.2 | 337.9 | 321.6 | 301.2 | 290.2 | 284.0 | 272.5 | 267.6 | 264.5 |
| 30°   | 374.7 | 356.5  | 337.5 | 314.5 | 295.5 | 281.3 | 271.2 | 261.0 | 254.3 | 249.5 | 244.2 |
| 32.5° | 342.4 | 325.1  | 313.2 | 289.3 | 275.1 | 260.5 | 250.8 | 244.6 | 234.9 | 231.8 | 229.6 |
| 35°   | 314.5 | 299.9  | 289.3 | 269.8 | 256.6 | 243.3 | 236.2 | 226.9 | 220.7 | 215.0 | 211.4 |
| 37.5° | 287.1 | 279.1  | 268.1 | 251.7 | 237.5 | 226.9 | 217.2 | 214.1 | 205.7 | 202.6 | 199.1 |
| 40°   | 268.1 | 256.1  | 246.8 | 232.7 | 220.7 | 209.2 | 203.0 | 196.0 | 190.2 | 185.3 | 184.0 |
| 42.5° | 245.1 | 236.2  | 230.9 | 215.4 | 203.0 | 196.4 | 188.9 | 180.9 | 176.5 | 172.5 | 167.6 |
| 45°   | 227.8 | 219.8  | 212.3 | 199.9 | 188.9 | 180.5 | 173.8 | 168.5 | 161.0 | 159.2 | 151.7 |
| 47.5° | 209.7 | 201.7  | 196.0 | 183.6 | 173.4 | 165.4 | 160.6 | 153.5 | 147.3 | 143.3 | 139.8 |
| 50°   | 191.5 | 184.9  | 179.6 | 169.0 | 160.1 | 151.7 | 145.1 | 138.0 | 135.4 | 128.7 | 126.5 |
| 52.5° | 174.3 | 169.9  | 164.1 | 153.9 | 145.1 | 138.0 | 130.9 | 125.2 | 121.2 | 117.7 | 115.0 |
| 55°   | 159.7 | 152.6  | 150.0 | 138.9 | 131.4 | 123.9 | 117.7 | 114.1 | 109.3 | 107.0 | 104.8 |
| 57.5° | 143.3 | 139.3  | 134.9 | 126.5 | 118.1 | 111.0 | 106.6 | 101.3 | 98.6  | 96.0  | 94.2  |
| 60°   | 129.2 | 123.4  | 119.9 | 112.8 | 105.3 | 98.6  | 94.7  | 90.7  | 87.1  | 84.9  | 81.4  |
| 62.5° | 112.8 | 108.4  | 106.2 | 98.6  | 92.4  | 86.3  | 82.7  | 78.7  | 76.1  | 72.1  | 67.7  |
| 65°   | 98.6  | 95.1   | 92.4  | 86.3  | 80.5  | 74.8  | 71.2  | 66.4  | 62.8  | 60.6  | 60.2  |
| 67.5° | 86.3  | 83.6   | 79.6  | 73.9  | 68.1  | 63.7  | 59.7  | 55.7  | 55.3  | 54.4  | 54.4  |
| 70°   | 72.5  | 69.9   | 67.7  | 61.5  | 56.6  | 51.8  | 50.9  | 49.5  | 48.2  | 47.8  | 46.9  |
| 72.5° | 60.6  | 58.4   | 55.7  | 50.4  | 45.6  | 44.2  | 43.3  | 42.5  | 41.1  | 40.7  | 40.3  |
| 75°   | 49.1  | 46.0   | 44.2  | 39.4  | 38.0  | 37.2  | 36.3  | 34.9  | 34.1  | 33.6  | 32.7  |
| 77.5° | 37.6  | 34.5   | 34.5  | 31.8  | 31.0  | 29.6  | 28.8  | 27.9  | 27.4  | 26.5  | 26.5  |
| 80°   | 26.5  | 26.5   | 25.7  | 24.3  | 23.0  | 22.6  | 21.2  | 20.8  | 20.3  | 20.8  | 19.9  |
| 82.5° | 19.5  | 17.7   | 17.7  | 16.8  | 15.9  | 15.5  | 14.6  | 14.6  | 14.2  | 14.2  | 14.2  |
| 85°   | 11.1  | 11.1   | 10.6  | 9.7   | 9.3   | 9.3   | 8.8   | 8.8   | 8.4   | 8.4   | 8.0   |
| 87.5° | 4.4   | 4.0    | 4.4   | 4.0   | 4.0   | 3.5   | 3.5   | 3.5   | 3.1   | 3.5   | 3.1   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

TEST NUMBER: P1037153

CATALOG NUMBER: S122RDS-B290DB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°    | 636.5  | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5  |
| 2.5°  | 609.1  | 608.2 | 605.6 | 606.4 | 605.1 | 605.1 | 604.2 | 604.2 | 604.2 | 606.4 | 605.1  |
| 5°    | 575.9  | 572.8 | 569.7 | 568.4 | 567.1 | 565.8 | 565.8 | 565.3 | 569.3 | 568.4 | 571.9  |
| 7.5°  | 534.8  | 533.9 | 527.7 | 527.7 | 525.5 | 524.6 | 526.8 | 527.3 | 527.7 | 528.6 | 530.8  |
| 10°   | 498.1  | 495.9 | 487.0 | 487.9 | 486.6 | 484.8 | 486.1 | 485.2 | 488.3 | 489.2 | 488.3  |
| 12.5° | 454.7  | 450.7 | 441.0 | 436.1 | 430.8 | 426.9 | 431.7 | 428.2 | 440.6 | 444.1 | 453.8  |
| 15°   | 397.2  | 389.7 | 383.1 | 383.1 | 378.2 | 374.7 | 376.9 | 380.9 | 383.5 | 387.5 | 389.3  |
| 17.5° | 358.7  | 355.6 | 350.3 | 347.2 | 345.9 | 344.6 | 344.6 | 346.4 | 352.1 | 351.7 | 355.2  |
| 20°   | 326.0  | 324.2 | 321.6 | 317.6 | 316.3 | 315.4 | 315.4 | 315.4 | 319.4 | 322.9 | 325.1  |
| 22.5° | 303.4  | 302.1 | 300.3 | 295.0 | 292.4 | 291.5 | 293.7 | 295.0 | 298.1 | 300.8 | 303.0  |
| 25°   | 280.9  | 277.8 | 274.7 | 272.9 | 271.6 | 271.6 | 272.5 | 272.9 | 274.3 | 275.6 | 278.2  |
| 27.5° | 262.3  | 260.1 | 255.7 | 250.8 | 250.8 | 249.5 | 250.4 | 251.2 | 254.3 | 258.8 | 261.0  |
| 30°   | 241.5  | 241.1 | 239.3 | 237.5 | 235.8 | 234.9 | 236.7 | 238.0 | 238.4 | 240.6 | 240.6  |
| 32.5° | 226.5  | 223.4 | 220.3 | 218.5 | 217.6 | 217.2 | 217.6 | 219.4 | 219.4 | 222.1 | 225.2  |
| 35°   | 211.4  | 209.7 | 206.6 | 203.5 | 202.6 | 200.4 | 202.1 | 203.9 | 207.0 | 208.3 | 209.7  |
| 37.5° | 195.1  | 192.9 | 191.5 | 190.6 | 188.9 | 189.3 | 188.0 | 190.6 | 193.3 | 192.9 | 193.7  |
| 40°   | 182.7  | 178.7 | 174.7 | 174.3 | 173.8 | 173.4 | 173.4 | 173.8 | 175.6 | 177.4 | 180.0  |
| 42.5° | 166.8  | 165.4 | 161.9 | 158.4 | 157.5 | 156.6 | 155.7 | 157.5 | 161.0 | 164.1 | 165.4  |
| 45°   | 150.4  | 148.6 | 147.7 | 145.1 | 143.3 | 142.9 | 142.0 | 144.2 | 147.3 | 148.6 | 149.5  |
| 47.5° | 135.4  | 134.9 | 132.3 | 132.7 | 131.4 | 131.8 | 131.4 | 132.7 | 132.7 | 134.0 | 134.9  |
| 50°   | 125.2  | 123.9 | 122.5 | 121.6 | 120.3 | 120.3 | 119.9 | 120.3 | 122.1 | 123.9 | 123.4  |
| 52.5° | 115.0  | 112.8 | 112.4 | 111.9 | 111.0 | 111.9 | 110.6 | 111.0 | 112.8 | 113.7 | 113.2  |
| 55°   | 103.1  | 102.6 | 101.7 | 100.9 | 100.4 | 100.0 | 100.0 | 100.0 | 101.7 | 103.1 | 103.5  |
| 57.5° | 93.8   | 91.6  | 89.8  | 89.8  | 88.0  | 87.6  | 88.5  | 88.9  | 90.2  | 91.1  | 92.0   |
| 60°   | 80.9   | 80.1  | 77.4  | 76.1  | 73.4  | 73.0  | 73.0  | 74.8  | 77.0  | 80.1  | 80.9   |
| 62.5° | 67.2   | 65.9  | 65.5  | 65.5  | 65.5  | 65.5  | 65.5  | 65.5  | 65.5  | 65.9  | 65.9   |
| 65°   | 59.7   | 60.2  | 59.7  | 59.3  | 59.7  | 59.7  | 59.3  | 59.3  | 59.3  | 59.7  | 60.2   |
| 67.5° | 53.5   | 53.1  | 53.5  | 53.1  | 52.6  | 52.6  | 52.2  | 52.6  | 53.1  | 53.5  | 53.5   |
| 70°   | 46.4   | 46.4  | 46.0  | 46.4  | 46.0  | 45.6  | 45.1  | 45.1  | 46.0  | 46.4  | 46.4   |
| 72.5° | 39.8   | 39.8  | 39.4  | 39.4  | 38.5  | 38.5  | 38.9  | 38.5  | 38.5  | 39.8  | 39.8   |
| 75°   | 33.2   | 32.7  | 32.3  | 32.3  | 31.8  | 31.8  | 31.8  | 31.4  | 32.3  | 32.3  | 32.7   |
| 77.5° | 26.1   | 26.1  | 26.1  | 25.7  | 25.7  | 25.2  | 25.2  | 25.7  | 25.7  | 25.7  | 26.1   |
| 80°   | 19.9   | 19.9  | 19.9  | 19.5  | 19.0  | 19.0  | 19.0  | 19.0  | 19.0  | 19.5  | 19.0   |
| 82.5° | 13.7   | 13.7  | 13.7  | 13.7  | 13.7  | 13.3  | 13.3  | 13.3  | 13.7  | 13.7  | 13.3   |
| 85°   | 8.4    | 8.0   | 8.4   | 8.4   | 8.0   | 8.4   | 8.0   | 8.0   | 7.5   | 7.5   | 8.0    |
| 87.5° | 3.5    | 3.1   | 2.7   | 2.7   | 3.1   | 2.7   | 2.7   | 2.7   | 3.1   | 2.7   | 2.7    |
| 90°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |

TEST NUMBER: P1037153

CATALOG NUMBER: S122RDS-B290DB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 0°    | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5 | 636.5  | 636.5 |
| 2.5°  | 606.4 | 608.7 | 607.8 | 602.9 | 607.8 | 609.1 | 611.8 | 614.4 | 616.2 | 618.8  | 621.0 |
| 5°    | 568.4 | 572.8 | 575.5 | 572.8 | 581.7 | 583.0 | 589.2 | 592.7 | 598.0 | 602.5  | 606.0 |
| 7.5°  | 532.6 | 536.1 | 541.4 | 542.3 | 547.6 | 553.8 | 562.7 | 571.5 | 579.9 | 584.3  | 588.3 |
| 10°   | 494.1 | 500.3 | 508.2 | 506.5 | 514.4 | 524.2 | 533.5 | 547.6 | 554.7 | 562.7  | 569.7 |
| 12.5° | 455.6 | 459.6 | 470.2 | 473.7 | 485.2 | 492.8 | 505.6 | 514.4 | 532.1 | 541.4  | 547.6 |
| 15°   | 388.4 | 404.7 | 418.0 | 433.9 | 449.0 | 463.1 | 474.6 | 490.6 | 506.0 | 513.1  | 523.3 |
| 17.5° | 357.9 | 365.4 | 373.3 | 381.3 | 400.8 | 426.0 | 446.3 | 463.6 | 476.8 | 486.1  | 498.1 |
| 20°   | 326.0 | 333.5 | 342.4 | 349.9 | 361.8 | 380.0 | 405.2 | 434.8 | 450.7 | 460.5  | 472.0 |
| 22.5° | 303.4 | 310.5 | 316.3 | 322.9 | 332.2 | 345.5 | 364.5 | 401.2 | 422.4 | 434.4  | 444.6 |
| 25°   | 279.1 | 288.0 | 294.2 | 299.0 | 306.5 | 321.1 | 336.6 | 357.4 | 395.5 | 404.7  | 418.9 |
| 27.5° | 262.3 | 265.0 | 272.0 | 279.6 | 287.1 | 295.0 | 311.0 | 328.7 | 354.3 | 374.7  | 391.9 |
| 30°   | 242.4 | 249.0 | 255.7 | 258.8 | 265.4 | 276.9 | 286.6 | 305.7 | 325.6 | 341.5  | 362.3 |
| 32.5° | 227.4 | 231.3 | 235.8 | 243.3 | 249.5 | 257.4 | 267.2 | 283.1 | 299.9 | 310.1  | 326.0 |
| 35°   | 210.6 | 213.2 | 222.5 | 225.6 | 231.8 | 239.7 | 249.5 | 261.9 | 280.0 | 288.0  | 299.5 |
| 37.5° | 194.6 | 200.8 | 203.5 | 210.6 | 216.3 | 224.3 | 231.3 | 245.5 | 257.4 | 266.7  | 277.3 |
| 40°   | 182.2 | 184.9 | 189.8 | 196.0 | 200.8 | 207.0 | 215.9 | 226.0 | 238.9 | 246.4  | 255.7 |
| 42.5° | 167.2 | 169.4 | 175.6 | 179.1 | 187.1 | 192.9 | 198.2 | 210.6 | 222.1 | 227.8  | 237.1 |
| 45°   | 150.8 | 156.1 | 160.1 | 167.2 | 171.6 | 178.7 | 185.3 | 194.2 | 204.8 | 211.4  | 216.7 |
| 47.5° | 136.7 | 142.0 | 146.0 | 152.6 | 159.7 | 162.8 | 169.9 | 179.1 | 188.9 | 194.2  | 201.7 |
| 50°   | 125.2 | 127.0 | 134.5 | 137.6 | 145.1 | 151.3 | 156.1 | 164.1 | 174.7 | 177.8  | 184.0 |
| 52.5° | 114.1 | 115.5 | 120.3 | 124.3 | 130.9 | 136.2 | 142.4 | 150.0 | 158.8 | 163.7  | 168.5 |
| 55°   | 104.4 | 105.3 | 107.5 | 111.9 | 116.3 | 123.0 | 128.7 | 135.8 | 143.3 | 148.6  | 153.0 |
| 57.5° | 93.3  | 95.1  | 96.9  | 99.5  | 104.0 | 110.1 | 116.3 | 123.0 | 129.2 | 132.7  | 138.5 |
| 60°   | 80.5  | 83.2  | 86.3  | 89.4  | 92.4  | 96.9  | 104.0 | 110.1 | 115.9 | 119.0  | 123.4 |
| 62.5° | 66.8  | 72.1  | 74.8  | 78.3  | 80.9  | 84.9  | 90.2  | 97.3  | 101.3 | 105.3  | 108.8 |
| 65°   | 60.2  | 60.6  | 61.0  | 64.6  | 69.4  | 73.4  | 78.3  | 83.6  | 89.8  | 92.4   | 95.1  |
| 67.5° | 53.5  | 54.0  | 54.9  | 55.3  | 57.1  | 61.5  | 66.8  | 72.5  | 77.4  | 79.2   | 81.8  |
| 70°   | 46.9  | 46.9  | 48.7  | 49.1  | 49.5  | 50.0  | 54.4  | 60.2  | 64.6  | 66.8   | 69.9  |
| 72.5° | 39.8  | 40.3  | 41.1  | 41.6  | 42.5  | 43.3  | 44.7  | 47.8  | 53.1  | 55.3   | 58.8  |
| 75°   | 32.7  | 33.2  | 33.6  | 34.1  | 35.4  | 35.8  | 37.2  | 38.9  | 41.1  | 43.8   | 46.0  |
| 77.5° | 26.1  | 26.1  | 26.5  | 27.4  | 28.3  | 28.8  | 30.1  | 31.0  | 31.8  | 33.2   | 34.9  |
| 80°   | 19.5  | 19.9  | 19.9  | 20.8  | 20.8  | 21.2  | 21.7  | 23.0  | 23.9  | 24.8   | 25.7  |
| 82.5° | 13.3  | 14.2  | 14.2  | 14.2  | 14.6  | 15.0  | 15.5  | 15.5  | 16.4  | 16.8   | 18.1  |
| 85°   | 8.0   | 8.4   | 8.4   | 8.4   | 8.0   | 8.8   | 8.8   | 9.3   | 9.3   | 9.3    | 9.7   |
| 87.5° | 3.1   | 2.7   | 3.1   | 3.1   | 3.1   | 3.5   | 3.1   | 3.1   | 3.5   | 4.0    | 4.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |

TEST NUMBER: P1037153

CATALOG NUMBER: S122RDS-B290DB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 345°  | 350°  | 355°  | 360°  |
|-------|-------|-------|-------|-------|
| 0°    | 636.5 | 636.5 | 636.5 | 636.5 |
| 2.5°  | 625.0 | 623.7 | 631.7 | 640.5 |
| 5°    | 612.2 | 614.4 | 624.6 | 637.0 |
| 7.5°  | 598.9 | 603.8 | 615.7 | 632.1 |
| 10°   | 580.4 | 589.2 | 607.3 | 624.1 |
| 12.5° | 562.2 | 574.2 | 591.4 | 611.3 |
| 15°   | 541.9 | 555.1 | 576.4 | 600.3 |
| 17.5° | 519.3 | 534.3 | 559.1 | 585.2 |
| 20°   | 495.4 | 515.3 | 541.4 | 569.7 |
| 22.5° | 468.9 | 492.8 | 519.8 | 551.2 |
| 25°   | 443.2 | 469.3 | 496.3 | 532.6 |
| 27.5° | 418.0 | 443.7 | 473.7 | 510.5 |
| 30°   | 392.8 | 416.2 | 448.5 | 487.9 |
| 32.5° | 365.8 | 390.1 | 424.2 | 464.5 |
| 35°   | 341.0 | 365.4 | 397.2 | 437.0 |
| 37.5° | 314.5 | 340.6 | 371.1 | 412.3 |
| 40°   | 283.5 | 314.1 | 343.7 | 383.1 |
| 42.5° | 257.9 | 290.2 | 318.9 | 356.1 |
| 45°   | 237.5 | 268.1 | 291.9 | 328.2 |
| 47.5° | 218.5 | 243.3 | 267.6 | 301.2 |
| 50°   | 200.4 | 219.4 | 244.6 | 274.7 |
| 52.5° | 181.8 | 198.2 | 219.8 | 248.2 |
| 55°   | 165.0 | 180.5 | 199.9 | 221.6 |
| 57.5° | 149.5 | 160.6 | 180.0 | 199.5 |
| 60°   | 132.3 | 143.8 | 158.8 | 175.2 |
| 62.5° | 117.7 | 126.5 | 140.7 | 154.4 |
| 65°   | 102.2 | 110.6 | 121.2 | 134.0 |
| 67.5° | 88.0  | 95.5  | 104.0 | 114.1 |
| 70°   | 75.2  | 80.9  | 87.1  | 96.0  |
| 72.5° | 61.5  | 67.7  | 73.4  | 80.5  |
| 75°   | 50.4  | 53.1  | 57.9  | 62.8  |
| 77.5° | 38.9  | 42.5  | 45.1  | 49.1  |
| 80°   | 27.9  | 31.0  | 31.8  | 34.9  |
| 82.5° | 18.6  | 20.3  | 22.1  | 23.0  |
| 85°   | 10.6  | 11.5  | 13.3  | 13.7  |
| 87.5° | 4.0   | 4.4   | 5.3   | 6.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)