

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: P332281-830

Luminaire Tested: **S123RDIP-S560D585U830-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332281-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S560D585U830-4F0-1E-UDD-F4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 585 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4011.2 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.06 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: General Diffuse

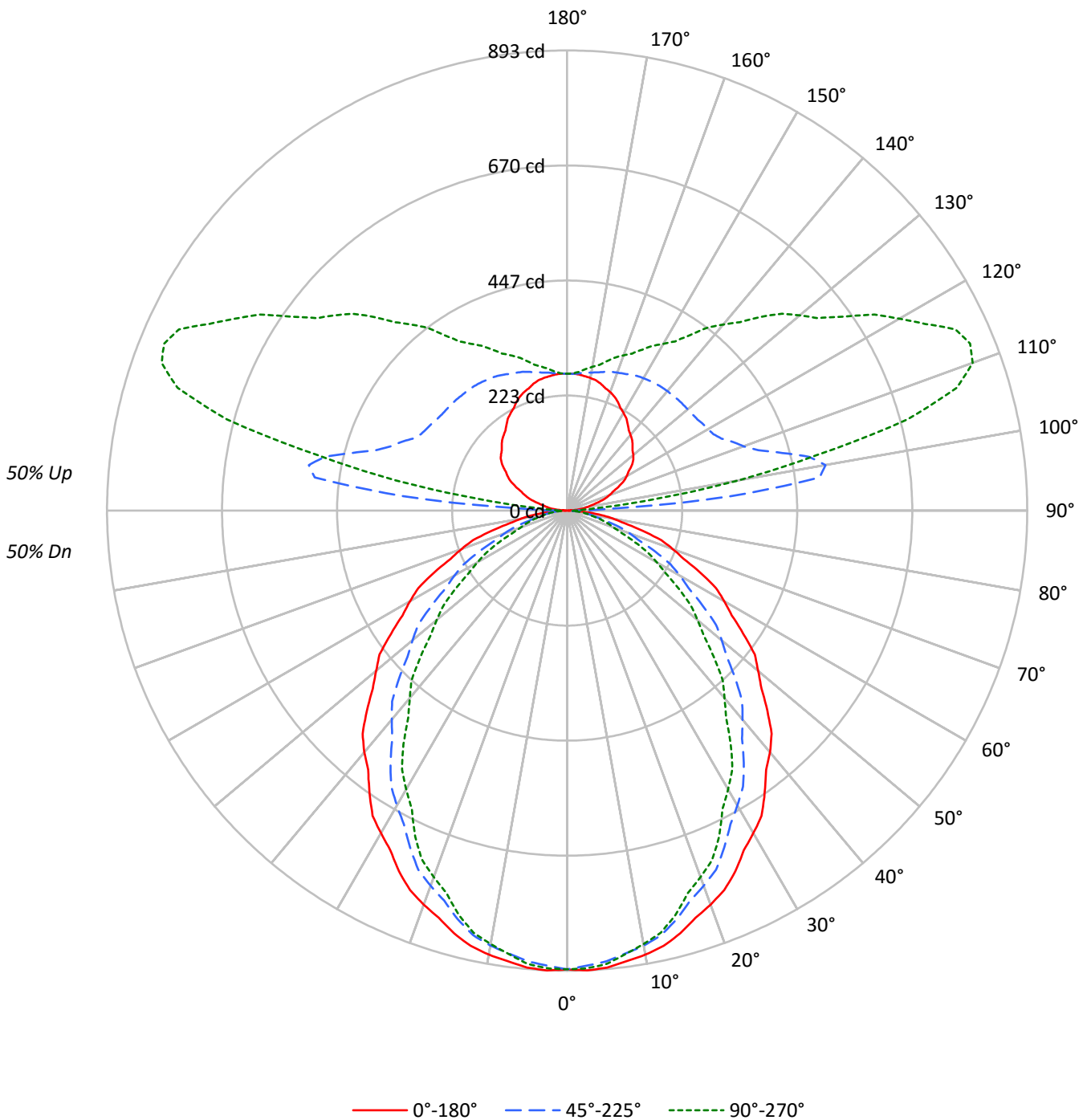
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332281-830

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### Luminous Intensity Polar Plot





TEST NUMBER: P332281-830

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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 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1   | 98  | 94  | 90  | 87  | 90 | 87 | 84 | 81 | 74 | 71 | 69 | 61 | 60 | 58 | 50 | 49 | 48 | 43 |
| 2   | 90  | 82  | 76  | 71  | 83 | 76 | 71 | 67 | 65 | 61 | 58 | 54 | 52 | 49 | 45 | 43 | 41 | 36 |
| 3   | 82  | 73  | 66  | 60  | 75 | 67 | 61 | 56 | 58 | 53 | 49 | 48 | 45 | 42 | 40 | 37 | 35 | 31 |
| 4   | 75  | 65  | 57  | 51  | 69 | 60 | 53 | 48 | 51 | 46 | 42 | 43 | 39 | 36 | 36 | 33 | 31 | 27 |
| 5   | 69  | 58  | 50  | 44  | 64 | 54 | 47 | 41 | 46 | 41 | 36 | 39 | 35 | 32 | 32 | 29 | 27 | 24 |
| 6   | 64  | 52  | 44  | 38  | 59 | 48 | 41 | 36 | 42 | 36 | 32 | 35 | 31 | 28 | 29 | 26 | 24 | 21 |
| 7   | 59  | 47  | 39  | 34  | 54 | 44 | 37 | 32 | 38 | 32 | 28 | 32 | 28 | 25 | 27 | 24 | 21 | 19 |
| 8   | 55  | 43  | 35  | 30  | 51 | 40 | 33 | 28 | 34 | 29 | 25 | 30 | 25 | 22 | 25 | 22 | 19 | 17 |
| 9   | 51  | 39  | 32  | 27  | 47 | 36 | 30 | 25 | 32 | 26 | 23 | 27 | 23 | 20 | 23 | 20 | 17 | 15 |
| 10  | 48  | 36  | 29  | 24  | 44 | 34 | 27 | 23 | 29 | 24 | 20 | 25 | 21 | 18 | 21 | 18 | 16 | 14 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9582 | 9582 | 9582 |
| 5°  | 9619 | 9487 | 9541 |
| 10° | 9565 | 9368 | 9335 |
| 15° | 9461 | 9149 | 9052 |
| 20° | 9321 | 8874 | 8668 |
| 25° | 9175 | 8567 | 8291 |
| 30° | 8983 | 8211 | 7762 |
| 35° | 8784 | 7857 | 7276 |
| 40° | 8604 | 7436 | 6674 |
| 45° | 8363 | 7024 | 6132 |
| 50° | 8100 | 6553 | 5526 |
| 55° | 7833 | 6016 | 4960 |
| 60° | 7584 | 5440 | 4336 |
| 65° | 7264 | 4819 | 3713 |
| 70° | 6861 | 4047 | 2999 |
| 75° | 6276 | 3182 | 2824 |
| 80° | 5597 | 2820 | 2591 |
| 85° | 4730 | 2495 | 2322 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 83.6   | 2.1       |
| 10°-20°   | 232.6  | 5.8       |
| 20°-30°   | 334.9  | 8.3       |
| 30°-40°   | 377.3  | 9.4       |
| 40°-50°   | 360.9  | 9.0       |
| 50°-60°   | 295.6  | 7.4       |
| 60°-70°   | 199.4  | 5.0       |
| 70°-80°   | 100.3  | 2.5       |
| 80°-90°   | 28.6   | 0.7       |
| 90°-100°  | 147.8  | 3.7       |
| 100°-110° | 418.5  | 10.4      |
| 110°-120° | 411.7  | 10.3      |
| 120°-130° | 328.4  | 8.2       |
| 130°-140° | 258.9  | 6.5       |
| 140°-150° | 193.2  | 4.8       |
| 150°-160° | 134.7  | 3.4       |
| 160°-170° | 79.1   | 2.0       |
| 170°-180° | 25.7   | 0.6       |
| 0°-30°    | 651.1  | 16.2      |
| 0°-40°    | 1028.4 | 25.6      |
| 0°-60°    | 1684.8 | 42.0      |
| 0°-90°    | 2013.2 | 50.2      |
| 90°-120°  | 978.0  | 24.4      |
| 90°-150°  | 1758.5 | 43.8      |
| 90°-180°  | 1998.0 | 49.8      |
| 0°-180°   | 4011.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 890 | 890   | 890 | 890   | 890 |      |
| 5°   | 890 | 886   | 878 | 884   | 883 | 84   |
| 15°  | 849 | 840   | 821 | 817   | 812 | 239  |
| 25°  | 772 | 754   | 721 | 706   | 698 | 355  |
| 35°  | 668 | 642   | 598 | 568   | 554 | 418  |
| 45°  | 549 | 516   | 461 | 422   | 403 | 424  |
| 55°  | 417 | 380   | 321 | 280   | 264 | 374  |
| 65°  | 285 | 245   | 189 | 155   | 146 | 282  |
| 75°  | 151 | 116   | 76  | 70    | 68  | 161  |
| 85°  | 38  | 23    | 20  | 19    | 19  | 43   |
| 90°  | 1   | 6     | 14  | 15    | 16  | 3    |
| 95°  | 18  | 59    | 319 | 93    | 62  | 20   |
| 105° | 62  | 92    | 432 | 756   | 684 | 66   |
| 115° | 110 | 137   | 331 | 725   | 832 | 109  |
| 125° | 153 | 181   | 309 | 559   | 656 | 136  |
| 135° | 180 | 214   | 304 | 460   | 532 | 139  |
| 145° | 205 | 235   | 300 | 378   | 416 | 128  |
| 155° | 233 | 251   | 291 | 331   | 345 | 107  |
| 165° | 254 | 262   | 278 | 295   | 300 | 72   |
| 175° | 265 | 265   | 267 | 271   | 270 | 25   |
| 180° | 266 | 266   | 266 | 266   | 266 |      |



TEST NUMBER: P332281-830

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 890.2 | 890.2 | 890.2 | 890.2 | 890.2 | 890.2 | 890.2 | 890.2 | 890.2 | 890.2 | 890.2 |
| 2.5°   | 893.2 | 892.6 | 892.1 | 891.6 | 891.1 | 890.0 | 888.5 | 886.9 | 885.4 | 883.9 | 885.3 |
| 5°     | 890.2 | 889.5 | 888.6 | 887.9 | 887.0 | 885.7 | 883.7 | 881.8 | 879.9 | 878.0 | 879.4 |
| 7.5°   | 882.0 | 881.2 | 880.2 | 879.4 | 878.5 | 876.8 | 874.4 | 871.9 | 869.3 | 866.9 | 867.6 |
| 10°    | 875.1 | 873.9 | 872.8 | 871.7 | 870.6 | 868.6 | 865.7 | 862.8 | 859.9 | 857.1 | 857.1 |
| 12.5°  | 865.3 | 864.0 | 862.7 | 861.5 | 860.3 | 857.9 | 854.3 | 850.8 | 847.3 | 843.8 | 843.7 |
| 15°    | 849.0 | 847.3 | 845.6 | 843.8 | 842.1 | 838.9 | 834.4 | 829.9 | 825.4 | 821.0 | 820.1 |
| 17.5°  | 828.7 | 826.7 | 824.6 | 822.6 | 820.5 | 816.6 | 810.9 | 805.2 | 799.5 | 793.8 | 792.1 |
| 20°    | 813.7 | 811.2 | 808.6 | 806.0 | 803.4 | 799.1 | 793.0 | 786.9 | 780.8 | 774.7 | 772.6 |
| 22.5°  | 796.9 | 794.0 | 791.1 | 788.1 | 785.1 | 780.4 | 773.9 | 767.4 | 761.0 | 754.5 | 751.9 |
| 25°    | 772.5 | 768.5 | 764.5 | 760.5 | 756.5 | 750.8 | 743.4 | 736.0 | 728.7 | 721.3 | 717.9 |
| 27.5°  | 742.9 | 738.5 | 734.1 | 729.6 | 725.2 | 718.9 | 710.7 | 702.5 | 694.3 | 686.1 | 681.4 |
| 30°    | 722.7 | 717.9 | 713.1 | 708.3 | 703.5 | 696.5 | 687.6 | 678.6 | 669.6 | 660.6 | 655.2 |
| 32.5°  | 702.5 | 697.1 | 691.6 | 686.2 | 680.7 | 673.3 | 663.7 | 654.2 | 644.7 | 635.2 | 629.2 |
| 35°    | 668.5 | 662.8 | 657.0 | 651.3 | 645.5 | 637.6 | 627.6 | 617.7 | 607.8 | 597.9 | 590.9 |
| 37.5°  | 634.2 | 627.8 | 621.4 | 614.9 | 608.5 | 600.0 | 589.4 | 578.8 | 568.2 | 557.5 | 549.7 |
| 40°    | 612.3 | 605.2 | 598.1 | 591.1 | 584.0 | 574.8 | 563.5 | 552.0 | 540.6 | 529.2 | 520.8 |
| 42.5°  | 587.4 | 580.3 | 573.3 | 566.3 | 559.2 | 549.8 | 538.0 | 526.2 | 514.4 | 502.7 | 493.5 |
| 45°    | 549.4 | 542.2 | 535.0 | 527.8 | 520.6 | 510.8 | 498.4 | 486.1 | 473.7 | 461.4 | 452.2 |
| 47.5°  | 511.4 | 503.5 | 495.6 | 487.7 | 479.8 | 469.7 | 457.2 | 444.9 | 432.5 | 420.2 | 410.3 |
| 50°    | 483.7 | 476.2 | 468.6 | 461.1 | 453.6 | 443.3 | 430.3 | 417.4 | 404.4 | 391.3 | 381.4 |
| 52.5°  | 458.9 | 450.7 | 442.5 | 434.3 | 426.2 | 415.7 | 402.7 | 389.9 | 377.0 | 364.2 | 353.8 |
| 55°    | 417.4 | 409.4 | 401.6 | 393.7 | 385.9 | 375.1 | 361.5 | 347.9 | 334.2 | 320.6 | 311.2 |
| 57.5°  | 378.9 | 370.3 | 361.7 | 353.2 | 344.6 | 333.5 | 319.8 | 306.1 | 292.4 | 278.7 | 269.9 |
| 60°    | 352.3 | 343.6 | 334.7 | 325.8 | 317.1 | 305.9 | 292.7 | 279.4 | 266.0 | 252.7 | 244.0 |
| 62.5°  | 325.7 | 317.0 | 308.1 | 299.3 | 290.5 | 279.4 | 266.1 | 252.8 | 239.4 | 226.1 | 218.0 |
| 65°    | 285.2 | 276.4 | 267.6 | 258.7 | 249.9 | 239.2 | 226.7 | 214.2 | 201.7 | 189.2 | 181.3 |
| 67.5°  | 244.6 | 235.7 | 226.8 | 217.8 | 209.0 | 198.5 | 186.4 | 174.5 | 162.5 | 150.4 | 144.6 |
| 70°    | 218.0 | 209.3 | 200.8 | 192.1 | 183.4 | 173.4 | 162.2 | 151.0 | 139.8 | 128.6 | 122.9 |
| 72.5°  | 191.4 | 182.9 | 174.4 | 165.9 | 157.3 | 148.0 | 137.8 | 127.5 | 117.3 | 107.2 | 102.5 |
| 75°    | 150.9 | 143.2 | 135.5 | 127.8 | 120.1 | 111.8 | 103.0 | 94.2  | 85.4  | 76.5  | 74.9  |
| 77.5°  | 114.0 | 107.0 | 100.0 | 93.0  | 86.1  | 79.7  | 74.1  | 68.4  | 62.7  | 57.0  | 56.2  |
| 80°    | 90.3  | 83.7  | 77.1  | 70.5  | 63.9  | 59.0  | 55.6  | 52.2  | 48.8  | 45.5  | 45.0  |
| 82.5°  | 67.8  | 62.0  | 56.4  | 50.7  | 45.0  | 41.4  | 39.8  | 38.3  | 36.7  | 35.1  | 34.6  |
| 85°    | 38.3  | 34.8  | 31.2  | 27.7  | 24.1  | 22.1  | 21.7  | 21.2  | 20.7  | 20.2  | 19.9  |
| 87.5°  | 14.0  | 12.9  | 11.7  | 10.6  | 9.4   | 8.9   | 9.2   | 9.5   | 9.9   | 10.2  | 10.0  |
| 90°    | 1.0   | 2.2   | 3.2   | 4.8   | 5.9   | 7.0   | 8.6   | 10.2  | 11.8  | 13.5  | 12.9  |
| 92.5°  | 6.7   | 9.9   | 14.4  | 18.6  | 23.1  | 31.1  | 45.1  | 68.2  | 91.0  | 82.7  | 62.4  |
| 95°    | 18.3  | 19.9  | 25.8  | 35.0  | 48.9  | 69.8  | 115.6 | 195.7 | 283.9 | 318.8 | 258.5 |
| 97.5°  | 31.2  | 31.8  | 36.4  | 44.3  | 58.1  | 80.8  | 124.4 | 214.7 | 361.7 | 494.1 | 528.6 |
| 100°   | 39.8  | 40.3  | 44.1  | 51.7  | 64.5  | 85.5  | 123.1 | 202.6 | 344.0 | 509.1 | 615.0 |
| 102.5° | 48.8  | 49.8  | 53.2  | 60.2  | 71.8  | 91.0  | 124.8 | 192.4 | 318.3 | 481.2 | 619.3 |
| 105°   | 62.4  | 64.0  | 67.2  | 73.6  | 83.9  | 100.6 | 129.6 | 184.9 | 286.5 | 432.3 | 586.5 |
| 107.5° | 76.7  | 78.4  | 81.5  | 87.8  | 97.5  | 112.9 | 138.4 | 184.4 | 266.4 | 389.0 | 529.1 |
| 110°   | 87.1  | 88.7  | 91.4  | 97.3  | 106.4 | 121.5 | 145.7 | 186.5 | 258.5 | 364.5 | 492.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 96.5  | 98.2  | 100.9 | 106.8 | 115.9 | 130.5 | 153.0 | 190.9 | 254.3 | 348.2 | 461.6 |
| 115°   | 110.2 | 112.4 | 115.6 | 120.9 | 130.1 | 144.6 | 165.0 | 197.8 | 252.7 | 330.6 | 423.7 |
| 117.5° | 123.9 | 126.3 | 129.0 | 133.9 | 144.2 | 157.6 | 177.9 | 207.1 | 253.6 | 320.3 | 400.8 |
| 120°   | 133.4 | 135.0 | 137.6 | 143.0 | 153.3 | 166.6 | 186.0 | 214.0 | 255.3 | 315.6 | 388.7 |
| 122.5° | 141.5 | 143.1 | 145.8 | 151.6 | 161.4 | 175.7 | 194.6 | 220.5 | 258.4 | 312.5 | 378.8 |
| 125°   | 153.3 | 154.3 | 157.5 | 163.4 | 173.6 | 188.1 | 207.0 | 230.6 | 262.9 | 308.6 | 366.1 |
| 127.5° | 162.1 | 163.7 | 167.8 | 173.7 | 185.0 | 199.5 | 217.7 | 239.0 | 268.1 | 306.6 | 355.0 |
| 130°   | 167.8 | 169.4 | 174.2 | 180.6 | 191.9 | 206.4 | 224.1 | 244.6 | 271.5 | 305.4 | 348.9 |
| 132.5° | 172.0 | 174.1 | 179.4 | 187.1 | 198.4 | 212.4 | 229.8 | 249.8 | 274.1 | 304.9 | 343.3 |
| 135°   | 179.6 | 181.7 | 187.7 | 195.7 | 207.0 | 221.5 | 238.2 | 256.5 | 278.0 | 304.3 | 336.0 |
| 137.5° | 186.6 | 188.9 | 194.7 | 203.3 | 214.5 | 227.9 | 243.9 | 261.4 | 280.5 | 303.1 | 329.7 |
| 140°   | 191.4 | 194.1 | 199.4 | 208.0 | 218.8 | 232.2 | 247.8 | 264.0 | 282.2 | 302.7 | 325.7 |
| 142.5° | 196.5 | 198.8 | 204.6 | 212.4 | 223.1 | 235.7 | 250.8 | 266.6 | 283.5 | 301.8 | 322.3 |
| 145°   | 204.8 | 206.4 | 211.3 | 219.3 | 228.5 | 240.8 | 254.9 | 269.4 | 284.4 | 300.5 | 317.7 |
| 147.5° | 213.2 | 214.1 | 219.0 | 225.9 | 234.7 | 245.2 | 258.1 | 271.1 | 284.4 | 298.5 | 313.2 |
| 150°   | 218.8 | 219.3 | 223.7 | 230.6 | 238.2 | 247.8 | 260.2 | 271.5 | 284.4 | 296.7 | 310.2 |
| 152.5° | 224.4 | 224.5 | 228.8 | 235.0 | 241.6 | 250.8 | 261.5 | 272.4 | 283.1 | 294.6 | 306.8 |
| 155°   | 232.8 | 232.8 | 236.0 | 241.4 | 247.3 | 254.9 | 264.0 | 272.6 | 281.7 | 290.9 | 301.6 |
| 157.5° | 239.4 | 239.9 | 242.4 | 247.2 | 252.2 | 258.1 | 265.3 | 273.1 | 279.8 | 287.5 | 295.8 |
| 160°   | 244.6 | 244.6 | 246.8 | 251.1 | 254.9 | 260.2 | 266.6 | 273.1 | 279.0 | 284.9 | 291.9 |
| 162.5° | 248.5 | 248.5 | 250.2 | 253.6 | 256.9 | 261.5 | 267.1 | 272.7 | 277.3 | 282.4 | 288.0 |
| 165°   | 254.3 | 253.7 | 254.9 | 257.5 | 259.7 | 263.4 | 267.7 | 271.5 | 274.8 | 278.5 | 282.8 |
| 167.5° | 258.7 | 258.1 | 258.5 | 260.6 | 262.1 | 264.5 | 267.6 | 270.6 | 272.1 | 274.6 | 277.8 |
| 170°   | 261.3 | 260.2 | 260.7 | 262.3 | 263.4 | 264.5 | 267.2 | 269.4 | 270.4 | 272.0 | 274.8 |
| 172.5° | 263.0 | 262.3 | 262.5 | 263.6 | 264.3 | 264.9 | 267.2 | 268.9 | 269.1 | 269.8 | 271.7 |
| 175°   | 265.0 | 264.5 | 264.0 | 265.0 | 265.0 | 265.6 | 266.6 | 267.7 | 267.2 | 267.2 | 268.2 |
| 177.5° | 266.0 | 265.6 | 265.1 | 265.6 | 265.6 | 265.6 | 266.0 | 266.8 | 266.0 | 265.6 | 266.0 |
| 180°   | 265.6 | 265.6 | 265.6 | 265.6 | 265.6 | 265.6 | 265.6 | 265.6 | 265.6 | 265.6 | 265.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 890.2 | 890.2 | 890.2 | 890.2 | 890.2 | 890.2 | 890.2 | 890.2 |
| 2.5°   | 886.7 | 888.2 | 889.6 | 890.1 | 889.9 | 889.6 | 889.4 | 889.1 |
| 5°     | 880.8 | 882.3 | 883.7 | 884.3 | 884.0 | 883.6 | 883.4 | 883.0 |
| 7.5°   | 868.5 | 869.2 | 870.1 | 870.2 | 869.6 | 869.1 | 868.6 | 868.0 |
| 10°    | 857.3 | 857.5 | 857.6 | 857.3 | 856.6 | 855.7 | 855.0 | 854.1 |
| 12.5°  | 843.6 | 843.5 | 843.4 | 842.8 | 841.9 | 840.9 | 840.1 | 839.1 |
| 15°    | 819.4 | 818.5 | 817.7 | 816.7 | 815.6 | 814.5 | 813.4 | 812.3 |
| 17.5°  | 790.4 | 788.7 | 786.9 | 785.3 | 783.6 | 781.9 | 780.2 | 778.6 |
| 20°    | 770.5 | 768.5 | 766.4 | 764.4 | 762.4 | 760.5 | 758.6 | 756.7 |
| 22.5°  | 749.3 | 746.7 | 744.1 | 741.9 | 740.1 | 738.3 | 736.5 | 734.7 |
| 25°    | 714.5 | 711.1 | 707.8 | 705.2 | 703.5 | 701.7 | 699.9 | 698.1 |
| 27.5°  | 676.7 | 672.0 | 667.3 | 663.6 | 660.9 | 658.3 | 655.5 | 652.8 |
| 30°    | 649.7 | 644.2 | 638.9 | 634.8 | 632.3 | 629.7 | 627.1 | 624.5 |
| 32.5°  | 623.3 | 617.3 | 611.3 | 607.0 | 604.4 | 601.6 | 598.9 | 596.3 |
| 35°    | 584.0 | 577.1 | 570.2 | 565.3 | 562.4 | 559.6 | 556.7 | 553.7 |
| 37.5°  | 541.9 | 534.0 | 526.2 | 520.6 | 517.0 | 513.4 | 509.8 | 506.2 |
| 40°    | 512.6 | 504.2 | 495.9 | 489.8 | 486.2 | 482.5 | 478.8 | 475.0 |
| 42.5°  | 484.5 | 475.3 | 466.2 | 460.0 | 456.7 | 453.4 | 450.1 | 446.8 |
| 45°    | 443.1 | 433.9 | 424.8 | 418.3 | 414.4 | 410.6 | 406.7 | 402.8 |
| 47.5°  | 400.3 | 390.4 | 380.4 | 373.7 | 370.3 | 366.8 | 363.4 | 360.0 |
| 50°    | 371.5 | 361.5 | 351.6 | 344.7 | 341.0 | 337.3 | 333.7 | 330.0 |
| 52.5°  | 343.6 | 333.2 | 322.8 | 316.0 | 312.7 | 309.4 | 306.1 | 302.8 |
| 55°    | 302.0 | 292.7 | 283.3 | 277.1 | 273.9 | 270.7 | 267.5 | 264.3 |
| 57.5°  | 261.1 | 252.3 | 243.6 | 237.8 | 235.1 | 232.3 | 229.6 | 226.9 |
| 60°    | 235.4 | 226.7 | 218.0 | 212.4 | 209.6 | 206.9 | 204.2 | 201.4 |
| 62.5°  | 209.8 | 201.7 | 193.5 | 188.0 | 185.2 | 182.3 | 179.5 | 176.6 |
| 65°    | 173.4 | 165.6 | 157.7 | 152.9 | 151.2 | 149.4 | 147.6 | 145.8 |
| 67.5°  | 138.7 | 132.8 | 127.0 | 123.1 | 121.2 | 119.3 | 117.4 | 115.6 |
| 70°    | 117.3 | 111.7 | 106.0 | 102.4 | 100.6 | 98.9  | 97.1  | 95.3  |
| 72.5°  | 97.9  | 93.4  | 88.8  | 86.1  | 85.4  | 84.6  | 83.9  | 83.1  |
| 75°    | 73.3  | 71.7  | 70.1  | 69.2  | 68.8  | 68.5  | 68.1  | 67.9  |
| 77.5°  | 55.3  | 54.5  | 53.5  | 53.0  | 52.7  | 52.3  | 52.0  | 51.7  |
| 80°    | 44.5  | 44.0  | 43.5  | 43.2  | 42.9  | 42.5  | 42.2  | 41.8  |
| 82.5°  | 34.1  | 33.6  | 33.2  | 32.9  | 32.8  | 32.8  | 32.7  | 32.6  |
| 85°    | 19.6  | 19.2  | 18.9  | 18.8  | 18.8  | 18.8  | 18.8  | 18.8  |
| 87.5°  | 9.9   | 9.9   | 9.9   | 10.0  | 9.7   | 9.7   | 9.7   | 9.4   |
| 90°    | 13.5  | 13.9  | 14.5  | 15.6  | 15.1  | 15.6  | 16.1  | 15.6  |
| 92.5°  | 45.2  | 35.9  | 31.8  | 28.9  | 28.0  | 26.3  | 26.9  | 25.9  |
| 95°    | 193.5 | 131.2 | 102.6 | 83.3  | 73.1  | 68.2  | 64.5  | 62.4  |
| 97.5°  | 482.5 | 386.4 | 317.1 | 252.8 | 213.1 | 188.9 | 174.4 | 169.8 |
| 100°   | 633.9 | 590.3 | 527.4 | 451.0 | 396.7 | 357.5 | 336.6 | 337.1 |
| 102.5° | 684.2 | 682.8 | 646.1 | 597.7 | 555.4 | 524.3 | 506.8 | 494.5 |
| 105°   | 698.9 | 752.6 | 762.9 | 748.9 | 724.2 | 703.7 | 686.5 | 683.8 |
| 107.5° | 656.5 | 743.9 | 790.9 | 810.0 | 810.5 | 803.6 | 797.8 | 792.9 |
| 110°   | 616.0 | 715.0 | 782.8 | 820.4 | 835.5 | 839.7 | 838.7 | 837.5 |





TEST NUMBER: P332281-830

CATALOG NUMBER: S123RDIP-S560D585U830-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 576.1 | 677.1 | 753.1 | 801.4 | 829.0 | 842.4 | 846.4 | 846.6 |
| 115°   | 523.1 | 616.6 | 695.7 | 754.2 | 794.6 | 818.2 | 829.0 | 831.7 |
| 117.5° | 484.7 | 565.4 | 636.4 | 695.9 | 737.9 | 765.0 | 780.5 | 784.1 |
| 120°   | 464.5 | 537.1 | 601.5 | 655.9 | 698.3 | 728.5 | 741.3 | 744.6 |
| 122.5° | 448.6 | 514.3 | 574.0 | 624.4 | 662.2 | 689.3 | 703.5 | 707.6 |
| 125°   | 427.3 | 486.0 | 537.6 | 580.6 | 615.0 | 638.7 | 652.1 | 655.9 |
| 127.5° | 408.9 | 461.2 | 507.7 | 546.9 | 577.5 | 597.7 | 609.8 | 613.3 |
| 130°   | 397.3 | 445.6 | 489.2 | 525.8 | 554.3 | 573.6 | 584.9 | 589.2 |
| 132.5° | 386.5 | 431.0 | 471.6 | 506.4 | 533.2 | 552.5 | 562.5 | 565.5 |
| 135°   | 372.0 | 410.2 | 445.2 | 475.8 | 502.1 | 518.2 | 527.9 | 531.7 |
| 137.5° | 358.8 | 390.1 | 420.2 | 446.8 | 468.9 | 485.2 | 493.4 | 495.9 |
| 140°   | 351.1 | 378.4 | 404.3 | 427.3 | 447.8 | 462.9 | 471.5 | 470.9 |
| 142.5° | 343.7 | 367.3 | 389.6 | 409.7 | 427.2 | 440.5 | 448.3 | 447.7 |
| 145°   | 334.9 | 352.7 | 369.9 | 385.5 | 398.9 | 410.2 | 414.5 | 415.6 |
| 147.5° | 327.7 | 341.8 | 355.7 | 366.7 | 376.9 | 384.6 | 388.7 | 389.1 |
| 150°   | 322.5 | 334.9 | 346.2 | 356.5 | 364.5 | 370.4 | 373.6 | 373.6 |
| 152.5° | 317.8 | 328.5 | 338.5 | 346.9 | 353.3 | 358.8 | 360.7 | 360.7 |
| 155°   | 310.8 | 319.3 | 327.4 | 333.8 | 338.7 | 343.0 | 344.0 | 344.6 |
| 157.5° | 303.2 | 310.4 | 316.7 | 321.7 | 325.9 | 329.1 | 330.0 | 329.9 |
| 160°   | 298.9 | 304.8 | 310.2 | 314.0 | 317.7 | 320.9 | 320.9 | 320.4 |
| 162.5° | 293.8 | 298.8 | 303.8 | 307.1 | 309.5 | 312.4 | 312.4 | 311.8 |
| 165°   | 287.1 | 290.3 | 294.1 | 296.7 | 298.9 | 301.0 | 300.5 | 300.5 |
| 167.5° | 281.3 | 283.7 | 285.9 | 287.9 | 288.8 | 290.3 | 289.7 | 289.7 |
| 170°   | 277.4 | 279.0 | 281.2 | 282.2 | 282.8 | 283.9 | 283.3 | 283.3 |
| 172.5° | 274.0 | 275.1 | 276.8 | 277.5 | 277.6 | 278.7 | 277.8 | 277.3 |
| 175°   | 269.4 | 269.8 | 271.0 | 271.0 | 271.0 | 271.5 | 271.0 | 270.4 |
| 177.5° | 266.5 | 266.8 | 267.3 | 267.3 | 266.8 | 267.3 | 266.5 | 266.5 |
| 180°   | 265.6 | 265.6 | 265.6 | 265.6 | 265.6 | 265.6 | 265.6 | 265.6 |

(END OF REPORT)