

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: P332411

Luminaire Tested: **S123RDIW-S560D460U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332411  
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: S123RDIW-S560D460U835-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

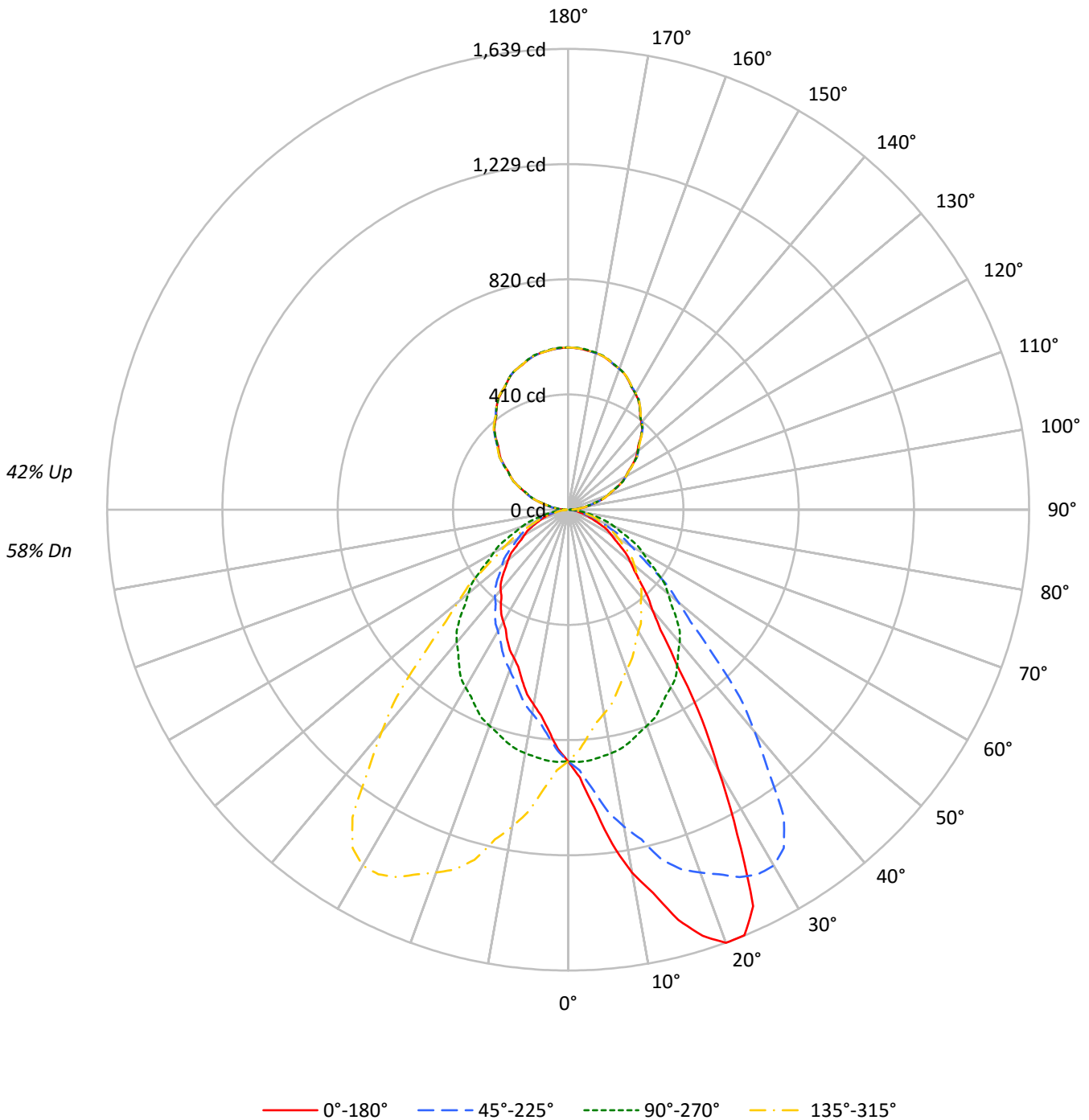
Lumens per Lamp: N/A  
Luminaire Lumens: 3827.8 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 30.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P332411

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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   | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 75 | 75 | 75 | 64 | 64 | 64 | 58 |
| 1   | 100 | 96  | 93  | 89  | 93  | 90  | 87  | 84  | 78 | 76 | 74 | 67 | 66 | 64 | 57 | 56 | 55 | 50 |
| 2   | 92  | 85  | 79  | 74  | 86  | 79  | 74  | 70  | 69 | 65 | 62 | 60 | 57 | 55 | 51 | 49 | 47 | 43 |
| 3   | 84  | 75  | 68  | 62  | 78  | 70  | 64  | 59  | 62 | 57 | 53 | 54 | 50 | 47 | 46 | 43 | 41 | 37 |
| 4   | 77  | 67  | 59  | 53  | 72  | 63  | 56  | 51  | 55 | 50 | 46 | 48 | 44 | 41 | 42 | 39 | 36 | 33 |
| 5   | 71  | 60  | 52  | 46  | 66  | 57  | 49  | 44  | 50 | 44 | 40 | 44 | 39 | 36 | 38 | 34 | 32 | 29 |
| 6   | 66  | 54  | 46  | 41  | 61  | 51  | 44  | 39  | 45 | 39 | 35 | 40 | 35 | 32 | 35 | 31 | 28 | 26 |
| 7   | 61  | 49  | 41  | 36  | 57  | 46  | 39  | 34  | 41 | 35 | 31 | 36 | 32 | 28 | 32 | 28 | 25 | 23 |
| 8   | 57  | 45  | 37  | 32  | 53  | 42  | 35  | 31  | 38 | 32 | 28 | 33 | 29 | 25 | 29 | 26 | 23 | 21 |
| 9   | 53  | 41  | 34  | 29  | 50  | 39  | 32  | 28  | 35 | 29 | 25 | 31 | 26 | 23 | 27 | 23 | 21 | 19 |
| 10  | 50  | 38  | 31  | 26  | 46  | 36  | 29  | 25  | 32 | 27 | 23 | 28 | 24 | 21 | 25 | 22 | 19 | 17 |

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

|     | 0°    | 90°  | 180° | 270° |
|-----|-------|------|------|------|
| 0°  | 9630  | 9630 | 9630 | 9630 |
| 5°  | 11480 | 9672 | 8518 | 9672 |
| 10° | 14335 | 9616 | 7695 | 9616 |
| 15° | 16826 | 9518 | 7017 | 9518 |
| 20° | 18778 | 9371 | 6441 | 9371 |
| 25° | 18478 | 9216 | 6087 | 9216 |
| 30° | 13282 | 9073 | 5722 | 9073 |
| 35° | 8868  | 8888 | 5486 | 8888 |
| 40° | 6534  | 8665 | 5243 | 8665 |
| 45° | 5480  | 8273 | 5002 | 8273 |
| 50° | 4836  | 7762 | 4669 | 7762 |
| 55° | 4241  | 7174 | 4211 | 7174 |
| 60° | 3776  | 6613 | 3860 | 6613 |
| 65° | 3316  | 6008 | 3591 | 6008 |
| 70° | 2603  | 5473 | 3279 | 5473 |
| 75° | 2296  | 4779 | 2994 | 4779 |
| 80° | 1996  | 4060 | 2944 | 4060 |
| 85° | 1606  | 3260 | 3125 | 3260 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 88.0   | 2.3       |
| 10°-20°   | 274.9  | 7.2       |
| 20°-30°   | 431.9  | 11.3      |
| 30°-40°   | 450.6  | 11.8      |
| 40°-50°   | 385.6  | 10.1      |
| 50°-60°   | 293.9  | 7.7       |
| 60°-70°   | 188.4  | 4.9       |
| 70°-80°   | 90.6   | 2.4       |
| 80°-90°   | 25.7   | 0.7       |
| 90°-100°  | 37.6   | 1.0       |
| 100°-110° | 112.5  | 2.9       |
| 110°-120° | 191.3  | 5.0       |
| 120°-130° | 251.7  | 6.6       |
| 130°-140° | 282.9  | 7.4       |
| 140°-150° | 278.0  | 7.3       |
| 150°-160° | 234.1  | 6.1       |
| 160°-170° | 155.8  | 4.1       |
| 170°-180° | 54.6   | 1.4       |
| 0°-30°    | 794.7  | 20.8      |
| 0°-40°    | 1245.3 | 32.5      |
| 0°-60°    | 1924.8 | 50.3      |
| 0°-90°    | 2229.5 | 58.2      |
| 90°-120°  | 341.4  | 8.9       |
| 90°-150°  | 1153.9 | 30.1      |
| 90°-180°  | 1598.0 | 41.7      |
| 0°-180°   | 3827.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90° | 180° | 270° | 360° | Flux |
|------|------|-----|------|------|------|------|
| 0°   | 895  | 895 | 895  | 895  | 895  |      |
| 5°   | 1062 | 895 | 788  | 895  | 1062 | 110  |
| 15°  | 1510 | 854 | 630  | 854  | 1510 | 428  |
| 25°  | 1556 | 776 | 512  | 776  | 1556 | 669  |
| 35°  | 675  | 676 | 418  | 676  | 675  | 442  |
| 45°  | 360  | 544 | 329  | 544  | 360  | 283  |
| 55°  | 226  | 382 | 224  | 382  | 226  | 204  |
| 65°  | 130  | 236 | 141  | 236  | 130  | 128  |
| 75°  | 55   | 115 | 72   | 115  | 55   | 59   |
| 85°  | 13   | 26  | 25   | 26   | 13   | 15   |
| 90°  | 14   | 0   | 14   | 0    | 14   | 7    |
| 95°  | 35   | 27  | 35   | 27   | 35   | 36   |
| 105° | 108  | 102 | 108  | 102  | 108  | 114  |
| 115° | 193  | 193 | 193  | 193  | 193  | 191  |
| 125° | 279  | 282 | 279  | 282  | 279  | 249  |
| 135° | 365  | 366 | 365  | 366  | 365  | 281  |
| 145° | 444  | 444 | 444  | 444  | 444  | 277  |
| 155° | 507  | 508 | 507  | 508  | 507  | 233  |
| 165° | 552  | 553 | 552  | 553  | 552  | 156  |
| 175° | 573  | 576 | 573  | 576  | 573  | 54   |
| 180° | 577  | 577 | 577  | 577  | 577  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 894.7  | 894.7  | 894.7  | 894.7  | 894.7  | 894.7  | 894.7  | 894.7  | 894.7  | 894.7  | 894.7  |
| 2.5°   | 952.9  | 954.2  | 950.2  | 949.6  | 945.0  | 943.8  | 943.8  | 937.3  | 933.3  | 928.1  | 925.1  |
| 5°     | 1062.5 | 1068.6 | 1065.6 | 1058.7 | 1047.2 | 1044.5 | 1037.2 | 1025.7 | 1012.7 | 996.6  | 989.0  |
| 7.5°   | 1199.3 | 1207.7 | 1204.4 | 1193.8 | 1181.8 | 1172.0 | 1151.5 | 1132.4 | 1105.7 | 1082.3 | 1062.2 |
| 10°    | 1311.5 | 1302.6 | 1295.8 | 1285.4 | 1274.3 | 1256.3 | 1234.9 | 1205.4 | 1171.3 | 1144.5 | 1114.6 |
| 12.5°  | 1395.4 | 1394.0 | 1385.2 | 1374.6 | 1358.9 | 1341.8 | 1315.4 | 1279.5 | 1239.9 | 1201.1 | 1167.0 |
| 15°    | 1509.9 | 1512.2 | 1506.4 | 1495.3 | 1473.1 | 1442.8 | 1403.0 | 1388.1 | 1331.4 | 1289.2 | 1247.1 |
| 17.5°  | 1589.1 | 1588.6 | 1587.8 | 1572.4 | 1549.8 | 1528.2 | 1491.3 | 1452.0 | 1400.7 | 1341.3 | 1284.6 |
| 20°    | 1639.3 | 1635.5 | 1636.3 | 1619.0 | 1602.2 | 1577.3 | 1541.3 | 1484.2 | 1442.1 | 1373.5 | 1314.9 |
| 22.5°  | 1638.1 | 1637.3 | 1640.2 | 1634.3 | 1622.1 | 1603.0 | 1574.7 | 1526.5 | 1472.7 | 1403.5 | 1337.6 |
| 25°    | 1555.8 | 1552.8 | 1570.8 | 1575.7 | 1595.3 | 1598.7 | 1590.3 | 1563.9 | 1512.9 | 1441.7 | 1360.1 |
| 27.5°  | 1302.1 | 1300.4 | 1333.8 | 1375.6 | 1428.7 | 1469.9 | 1509.7 | 1528.9 | 1512.9 | 1461.9 | 1380.2 |
| 30°    | 1068.6 | 1104.6 | 1121.5 | 1182.0 | 1249.4 | 1329.8 | 1400.3 | 1467.3 | 1483.8 | 1461.6 | 1394.6 |
| 32.5°  | 887.2  | 918.6  | 932.7  | 984.7  | 1047.5 | 1141.7 | 1247.4 | 1342.3 | 1409.4 | 1426.4 | 1386.0 |
| 35°    | 674.9  | 675.3  | 707.4  | 730.4  | 788.6  | 885.5  | 988.2  | 1115.3 | 1241.7 | 1337.5 | 1347.5 |
| 37.5°  | 538.5  | 540.4  | 559.9  | 582.8  | 626.5  | 677.7  | 768.1  | 873.8  | 1019.8 | 1166.8 | 1253.0 |
| 40°    | 465.0  | 468.4  | 483.0  | 505.6  | 537.0  | 575.7  | 646.2  | 745.7  | 867.5  | 1031.1 | 1164.8 |
| 42.5°  | 417.8  | 423.4  | 430.9  | 448.3  | 467.7  | 504.0  | 561.0  | 637.9  | 748.6  | 903.3  | 1057.5 |
| 45°    | 360.0  | 363.1  | 368.8  | 376.9  | 394.5  | 419.8  | 458.1  | 509.8  | 601.7  | 726.2  | 880.6  |
| 47.5°  | 317.6  | 316.0  | 322.0  | 328.6  | 340.3  | 357.5  | 383.2  | 425.4  | 491.0  | 590.8  | 721.8  |
| 50°    | 288.8  | 288.4  | 292.6  | 297.6  | 308.7  | 321.4  | 342.4  | 374.2  | 426.3  | 509.0  | 628.9  |
| 52.5°  | 261.8  | 263.3  | 266.3  | 272.5  | 280.5  | 290.7  | 309.6  | 332.5  | 377.3  | 448.7  | 548.6  |
| 55°    | 226.0  | 227.1  | 231.3  | 234.8  | 240.5  | 250.9  | 262.8  | 281.9  | 312.5  | 362.3  | 444.7  |
| 57.5°  | 195.6  | 195.1  | 199.2  | 200.0  | 206.5  | 214.9  | 224.1  | 239.0  | 261.2  | 298.2  | 353.7  |
| 60°    | 175.4  | 174.3  | 177.7  | 180.4  | 183.8  | 190.7  | 198.4  | 213.0  | 230.6  | 257.8  | 305.3  |
| 62.5°  | 157.0  | 156.5  | 159.0  | 161.7  | 164.5  | 170.8  | 177.3  | 188.4  | 202.4  | 225.3  | 263.0  |
| 65°    | 130.2  | 131.4  | 132.5  | 133.7  | 135.2  | 139.0  | 145.2  | 152.8  | 162.4  | 178.5  | 205.7  |
| 67.5°  | 102.3  | 103.5  | 103.9  | 106.2  | 109.5  | 111.9  | 115.7  | 122.5  | 129.2  | 142.7  | 158.2  |
| 70°    | 82.7   | 82.3   | 82.7   | 83.9   | 88.1   | 92.3   | 97.3   | 102.3  | 106.5  | 116.1  | 129.1  |
| 72.5°  | 71.1   | 70.4   | 71.4   | 71.6   | 73.7   | 74.8   | 78.0   | 82.7   | 88.1   | 94.6   | 104.0  |
| 75°    | 55.2   | 55.2   | 55.2   | 55.2   | 56.7   | 57.5   | 58.6   | 59.8   | 61.7   | 64.7   | 71.6   |
| 77.5°  | 40.8   | 40.8   | 41.4   | 41.7   | 42.1   | 42.5   | 43.2   | 44.4   | 45.0   | 46.7   | 49.6   |
| 80°    | 32.2   | 32.6   | 32.2   | 32.6   | 32.6   | 33.3   | 33.7   | 34.9   | 35.2   | 37.2   | 38.3   |
| 82.5°  | 24.2   | 24.0   | 24.2   | 24.6   | 24.6   | 25.4   | 25.4   | 26.3   | 26.4   | 27.3   | 28.5   |
| 85°    | 13.0   | 12.3   | 13.0   | 12.6   | 13.4   | 12.6   | 13.0   | 13.8   | 13.8   | 14.2   | 15.7   |
| 87.5°  | 5.8    | 6.4    | 5.7    | 6.0    | 5.9    | 6.2    | 6.1    | 6.0    | 6.5    | 6.2    | 6.2    |
| 90°    | 13.6   | 13.4   | 13.2   | 13.0   | 12.8   | 12.5   | 12.1   | 11.7   | 11.3   | 10.9   | 9.6    |
| 92.5°  | 18.3   | 18.4   | 18.5   | 18.7   | 18.8   | 18.7   | 18.4   | 18.0   | 17.7   | 17.4   | 16.7   |
| 95°    | 35.3   | 35.3   | 35.3   | 35.3   | 35.3   | 35.1   | 34.7   | 34.3   | 33.9   | 33.5   | 32.7   |
| 97.5°  | 54.4   | 54.4   | 54.5   | 54.5   | 54.5   | 54.3   | 53.9   | 53.4   | 52.9   | 52.5   | 51.9   |
| 100°   | 68.9   | 68.7   | 68.5   | 68.3   | 68.1   | 67.8   | 67.5   | 67.2   | 66.9   | 66.6   | 66.1   |
| 102.5° | 83.7   | 83.8   | 83.8   | 83.9   | 83.9   | 83.8   | 83.5   | 83.2   | 82.9   | 82.6   | 81.9   |
| 105°   | 107.9  | 107.7  | 107.5  | 107.3  | 107.0  | 106.9  | 106.9  | 106.9  | 106.9  | 106.9  | 106.0  |
| 107.5° | 133.0  | 133.1  | 133.2  | 133.3  | 133.4  | 133.3  | 133.0  | 132.7  | 132.4  | 132.1  | 131.7  |
| 110°   | 150.0  | 150.2  | 150.4  | 150.6  | 150.8  | 150.7  | 150.3  | 149.9  | 149.5  | 149.1  | 148.9  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 168.1 | 168.2 | 168.2 | 168.2 | 168.3 | 168.1 | 167.6 | 167.1 | 166.6 | 166.1 | 166.1 |
| 115°   | 193.1 | 193.2 | 193.3 | 193.4 | 193.5 | 193.5 | 193.4 | 193.3 | 193.2 | 193.1 | 193.3 |
| 117.5° | 218.3 | 218.6 | 218.9 | 219.2 | 219.5 | 219.6 | 219.6 | 219.7 | 219.7 | 219.7 | 220.0 |
| 120°   | 236.1 | 236.3 | 236.5 | 236.7 | 236.9 | 237.1 | 237.2 | 237.3 | 237.4 | 237.5 | 238.0 |
| 122.5° | 253.1 | 253.4 | 253.7 | 254.0 | 254.3 | 254.5 | 254.8 | 255.1 | 255.3 | 255.6 | 255.9 |
| 125°   | 278.7 | 279.1 | 279.5 | 279.9 | 280.3 | 280.7 | 281.1 | 281.5 | 281.9 | 282.3 | 282.5 |
| 127.5° | 304.2 | 304.6 | 305.1 | 305.6 | 306.0 | 306.5 | 307.1 | 307.7 | 308.2 | 308.8 | 309.0 |
| 130°   | 320.8 | 321.6 | 322.3 | 323.0 | 323.7 | 324.2 | 324.6 | 325.0 | 325.4 | 325.8 | 326.1 |
| 132.5° | 338.2 | 338.8 | 339.3 | 339.9 | 340.4 | 340.9 | 341.4 | 341.9 | 342.4 | 342.9 | 343.1 |
| 135°   | 365.3 | 365.5 | 365.7 | 365.9 | 366.1 | 366.4 | 366.8 | 367.2 | 367.6 | 368.0 | 368.1 |
| 137.5° | 389.1 | 389.5 | 389.9 | 390.2 | 390.6 | 391.0 | 391.5 | 391.9 | 392.3 | 392.7 | 392.5 |
| 140°   | 404.7 | 405.4 | 406.1 | 406.8 | 407.5 | 407.9 | 408.0 | 408.1 | 408.2 | 408.3 | 408.2 |
| 142.5° | 420.6 | 421.2 | 421.7 | 422.3 | 422.8 | 423.1 | 423.2 | 423.3 | 423.4 | 423.5 | 423.4 |
| 145°   | 443.7 | 444.1 | 444.5 | 444.9 | 445.3 | 445.5 | 445.6 | 445.7 | 445.8 | 445.9 | 445.6 |
| 147.5° | 464.1 | 464.7 | 465.3 | 466.0 | 466.6 | 466.9 | 466.9 | 466.9 | 466.9 | 466.9 | 466.6 |
| 150°   | 477.2 | 477.8 | 478.4 | 479.0 | 479.6 | 479.9 | 479.9 | 479.9 | 479.9 | 479.9 | 479.7 |
| 152.5° | 489.9 | 490.4 | 490.9 | 491.5 | 492.0 | 492.2 | 492.0 | 491.8 | 491.7 | 491.5 | 491.4 |
| 155°   | 507.1 | 507.8 | 508.5 | 509.2 | 509.9 | 510.1 | 509.7 | 509.3 | 508.9 | 508.5 | 508.4 |
| 157.5° | 522.8 | 523.3 | 523.9 | 524.5 | 525.0 | 525.1 | 524.7 | 524.3 | 523.8 | 523.4 | 523.3 |
| 160°   | 532.9 | 533.3 | 533.7 | 534.1 | 534.5 | 534.5 | 534.0 | 533.5 | 533.0 | 532.5 | 532.5 |
| 162.5° | 540.5 | 541.2 | 541.8 | 542.5 | 543.1 | 543.2 | 542.7 | 542.2 | 541.7 | 541.2 | 541.1 |
| 165°   | 551.5 | 552.2 | 552.9 | 553.6 | 554.3 | 554.4 | 553.8 | 553.2 | 552.6 | 552.0 | 552.0 |
| 167.5° | 560.8 | 561.5 | 562.1 | 562.7 | 563.3 | 563.3 | 562.7 | 562.1 | 561.5 | 560.8 | 560.8 |
| 170°   | 565.6 | 566.3 | 567.0 | 567.7 | 568.4 | 568.4 | 567.7 | 567.0 | 566.3 | 565.6 | 565.6 |
| 172.5° | 569.2 | 569.9 | 570.6 | 571.3 | 572.0 | 572.0 | 571.4 | 570.8 | 570.2 | 569.5 | 569.5 |
| 175°   | 573.3 | 574.0 | 574.7 | 575.4 | 576.1 | 576.1 | 575.5 | 574.9 | 574.3 | 573.7 | 573.7 |
| 177.5° | 575.4 | 576.0 | 576.6 | 577.1 | 577.7 | 577.7 | 577.3 | 576.8 | 576.3 | 575.8 | 575.8 |
| 180°   | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 894.7  | 894.7  | 894.7  | 894.7  | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 |
| 2.5°   | 923.8  | 922.9  | 918.6  | 913.7  | 907.3 | 903.0 | 899.6 | 897.8 | 892.3 | 885.5 | 880.9 |
| 5°     | 980.9  | 969.4  | 957.2  | 942.2  | 928.4 | 914.3 | 905.5 | 895.1 | 882.5 | 868.3 | 858.3 |
| 7.5°   | 1042.0 | 1019.5 | 995.2  | 970.2  | 945.4 | 923.2 | 903.6 | 886.8 | 866.7 | 846.4 | 832.1 |
| 10°    | 1088.9 | 1056.0 | 1021.9 | 987.0  | 955.2 | 925.4 | 902.4 | 879.8 | 855.7 | 832.3 | 814.7 |
| 12.5°  | 1131.5 | 1088.2 | 1048.9 | 1006.0 | 965.4 | 929.7 | 896.6 | 870.0 | 841.0 | 816.1 | 796.0 |
| 15°    | 1185.4 | 1141.0 | 1093.5 | 1028.4 | 974.4 | 929.2 | 889.0 | 854.1 | 818.9 | 788.3 | 768.7 |
| 17.5°  | 1235.8 | 1169.0 | 1105.2 | 1050.8 | 980.7 | 924.2 | 875.1 | 833.4 | 794.8 | 762.3 | 738.2 |
| 20°    | 1256.7 | 1192.0 | 1122.6 | 1053.3 | 984.4 | 921.2 | 864.1 | 818.1 | 777.9 | 741.1 | 718.9 |
| 22.5°  | 1269.2 | 1195.9 | 1122.9 | 1048.4 | 975.2 | 909.5 | 853.1 | 802.5 | 758.9 | 724.0 | 696.6 |
| 25°    | 1283.9 | 1196.5 | 1116.1 | 1042.6 | 967.9 | 896.6 | 829.6 | 776.0 | 728.9 | 691.7 | 662.6 |
| 27.5°  | 1293.5 | 1190.8 | 1095.7 | 1014.0 | 938.2 | 867.3 | 805.9 | 749.0 | 701.2 | 661.9 | 630.7 |
| 30°    | 1295.4 | 1186.2 | 1080.1 | 991.6  | 914.6 | 849.5 | 784.4 | 730.0 | 679.5 | 637.7 | 608.6 |
| 32.5°  | 1297.8 | 1174.9 | 1059.0 | 965.0  | 886.2 | 821.7 | 762.7 | 710.7 | 658.9 | 617.8 | 588.1 |
| 35°    | 1287.7 | 1168.6 | 1026.9 | 918.9  | 840.0 | 777.5 | 724.3 | 676.4 | 625.5 | 585.6 | 555.4 |
| 37.5°  | 1244.2 | 1143.7 | 993.6  | 866.9  | 784.4 | 726.6 | 683.2 | 641.5 | 594.8 | 551.8 | 523.3 |
| 40°    | 1200.4 | 1119.2 | 967.9  | 835.4  | 749.2 | 689.8 | 650.7 | 616.7 | 571.5 | 531.2 | 500.6 |
| 42.5°  | 1135.1 | 1085.8 | 943.4  | 802.3  | 709.3 | 652.1 | 619.2 | 587.2 | 547.6 | 506.7 | 477.9 |
| 45°    | 1015.4 | 1021.9 | 893.2  | 749.6  | 654.2 | 596.7 | 565.7 | 543.5 | 508.3 | 474.6 | 445.1 |
| 47.5°  | 865.2  | 926.1  | 834.3  | 693.4  | 596.1 | 542.1 | 515.0 | 495.6 | 471.9 | 438.8 | 411.9 |
| 50°    | 767.2  | 854.1  | 787.1  | 655.7  | 559.6 | 506.0 | 479.2 | 463.5 | 442.8 | 416.7 | 391.1 |
| 52.5°  | 676.8  | 770.2  | 730.1  | 613.7  | 520.1 | 471.0 | 444.8 | 431.9 | 415.5 | 391.0 | 367.8 |
| 55°    | 551.9  | 646.5  | 637.3  | 550.4  | 460.8 | 416.7 | 396.8 | 382.3 | 371.1 | 352.8 | 334.4 |
| 57.5°  | 446.4  | 536.1  | 540.9  | 479.9  | 408.5 | 365.0 | 347.9 | 336.9 | 329.6 | 315.8 | 298.8 |
| 60°    | 380.0  | 462.3  | 478.4  | 432.4  | 371.1 | 332.8 | 316.0 | 307.2 | 301.4 | 290.3 | 277.3 |
| 62.5°  | 324.8  | 394.9  | 413.1  | 380.0  | 335.3 | 299.4 | 286.3 | 277.8 | 273.9 | 264.3 | 252.8 |
| 65°    | 248.6  | 306.8  | 324.4  | 306.0  | 282.7 | 253.9 | 243.2 | 235.9 | 232.5 | 227.1 | 218.7 |
| 67.5°  | 186.9  | 229.4  | 248.7  | 235.7  | 227.3 | 209.1 | 202.3 | 198.4 | 195.3 | 191.7 | 184.6 |
| 70°    | 150.1  | 181.6  | 201.5  | 198.0  | 191.1 | 181.6 | 176.6 | 173.9 | 170.8 | 167.8 | 161.6 |
| 72.5°  | 120.7  | 142.3  | 161.0  | 162.8  | 157.1 | 155.2 | 150.8 | 149.7 | 147.8 | 144.2 | 140.8 |
| 75°    | 80.1   | 95.0   | 108.0  | 113.0  | 115.3 | 117.2 | 115.3 | 114.9 | 114.5 | 111.5 | 109.5 |
| 77.5°  | 52.5   | 60.5   | 68.7   | 77.2   | 80.8  | 83.4  | 84.0  | 85.4  | 84.4  | 82.8  | 81.9  |
| 80°    | 40.2   | 42.1   | 47.9   | 55.2   | 60.9  | 63.2  | 64.7  | 65.5  | 65.1  | 64.7  | 63.2  |
| 82.5°  | 29.2   | 30.8   | 33.5   | 38.6   | 43.4  | 47.3  | 48.2  | 48.0  | 48.9  | 49.1  | 47.9  |
| 85°    | 15.7   | 16.1   | 16.9   | 17.6   | 20.3  | 24.5  | 25.7  | 26.4  | 27.2  | 27.2  | 24.9  |
| 87.5°  | 6.6    | 6.0    | 6.3    | 6.1    | 6.8   | 6.9   | 8.6   | 9.9   | 10.4  | 9.4   | 9.6   |
| 90°    | 8.3    | 6.9    | 5.6    | 4.5    | 3.5   | 2.5   | 1.5   | 0.5   | 1.5   | 2.5   | 3.5   |
| 92.5°  | 15.9   | 15.2   | 14.4   | 13.7   | 13.0  | 12.3  | 11.7  | 11.0  | 11.7  | 12.3  | 13.0  |
| 95°    | 31.9   | 31.1   | 30.3   | 29.6   | 28.9  | 28.1  | 27.4  | 26.7  | 27.4  | 28.1  | 28.9  |
| 97.5°  | 51.3   | 50.7   | 50.1   | 49.6   | 49.1  | 48.5  | 48.0  | 47.5  | 48.0  | 48.5  | 49.1  |
| 100°   | 65.6   | 65.1   | 64.6   | 64.0   | 63.4  | 62.8  | 62.2  | 61.6  | 62.2  | 62.8  | 63.4  |
| 102.5° | 81.2   | 80.6   | 79.9   | 79.4   | 79.0  | 78.7  | 78.3  | 77.9  | 78.3  | 78.7  | 79.0  |
| 105°   | 105.1  | 104.2  | 103.3  | 102.8  | 102.6 | 102.4 | 102.2 | 102.0 | 102.2 | 102.4 | 102.6 |
| 107.5° | 131.3  | 131.0  | 130.6  | 130.4  | 130.2 | 130.1 | 130.0 | 129.9 | 130.0 | 130.1 | 130.2 |
| 110°   | 148.7  | 148.5  | 148.3  | 148.1  | 147.9 | 147.7 | 147.5 | 147.3 | 147.5 | 147.7 | 147.9 |





TEST NUMBER: P332411

CATALOG NUMBER: S123RDIW-S560D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 166.1 | 166.0 | 166.0 | 165.9 | 165.8 | 165.7 | 165.5 | 165.4 | 165.5 | 165.7 | 165.8 |
| 115°   | 193.5 | 193.7 | 193.9 | 193.8 | 193.5 | 193.2 | 192.9 | 192.6 | 192.9 | 193.2 | 193.5 |
| 117.5° | 220.2 | 220.5 | 220.7 | 220.8 | 220.6 | 220.4 | 220.2 | 220.0 | 220.2 | 220.4 | 220.6 |
| 120°   | 238.5 | 239.0 | 239.5 | 239.4 | 238.8 | 238.2 | 237.6 | 237.0 | 237.6 | 238.2 | 238.8 |
| 122.5° | 256.1 | 256.4 | 256.6 | 256.5 | 256.1 | 255.7 | 255.2 | 254.8 | 255.2 | 255.7 | 256.1 |
| 125°   | 282.7 | 282.9 | 283.1 | 283.1 | 282.8 | 282.5 | 282.2 | 281.9 | 282.2 | 282.5 | 282.8 |
| 127.5° | 309.2 | 309.5 | 309.7 | 309.5 | 308.8 | 308.2 | 307.5 | 306.9 | 307.5 | 308.2 | 308.8 |
| 130°   | 326.4 | 326.7 | 327.0 | 326.8 | 326.0 | 325.2 | 324.4 | 323.6 | 324.4 | 325.2 | 326.0 |
| 132.5° | 343.3 | 343.5 | 343.8 | 343.5 | 342.7 | 341.9 | 341.0 | 340.2 | 341.0 | 341.9 | 342.7 |
| 135°   | 368.2 | 368.3 | 368.4 | 368.1 | 367.5 | 366.9 | 366.3 | 365.7 | 366.3 | 366.9 | 367.5 |
| 137.5° | 392.2 | 391.9 | 391.7 | 391.3 | 390.8 | 390.3 | 389.8 | 389.3 | 389.8 | 390.3 | 390.8 |
| 140°   | 408.1 | 408.0 | 407.9 | 407.6 | 407.1 | 406.6 | 406.1 | 405.6 | 406.1 | 406.6 | 407.1 |
| 142.5° | 423.2 | 423.0 | 422.8 | 422.5 | 422.0 | 421.5 | 421.0 | 420.5 | 421.0 | 421.5 | 422.0 |
| 145°   | 445.3 | 445.0 | 444.7 | 444.5 | 444.3 | 444.1 | 443.9 | 443.7 | 443.9 | 444.1 | 444.3 |
| 147.5° | 466.3 | 466.0 | 465.7 | 465.4 | 465.0 | 464.7 | 464.3 | 464.0 | 464.3 | 464.7 | 465.0 |
| 150°   | 479.5 | 479.3 | 479.1 | 478.9 | 478.7 | 478.5 | 478.3 | 478.1 | 478.3 | 478.5 | 478.7 |
| 152.5° | 491.3 | 491.1 | 491.0 | 490.8 | 490.5 | 490.3 | 490.0 | 489.7 | 490.0 | 490.3 | 490.5 |
| 155°   | 508.3 | 508.2 | 508.1 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 |
| 157.5° | 523.3 | 523.2 | 523.1 | 523.1 | 523.2 | 523.4 | 523.5 | 523.6 | 523.5 | 523.4 | 523.2 |
| 160°   | 532.5 | 532.5 | 532.5 | 532.6 | 532.8 | 533.0 | 533.2 | 533.4 | 533.2 | 533.0 | 532.8 |
| 162.5° | 541.0 | 540.9 | 540.9 | 541.0 | 541.2 | 541.5 | 541.8 | 542.1 | 541.8 | 541.5 | 541.2 |
| 165°   | 552.0 | 552.0 | 552.0 | 552.1 | 552.4 | 552.7 | 553.0 | 553.3 | 553.0 | 552.7 | 552.4 |
| 167.5° | 560.7 | 560.6 | 560.5 | 560.7 | 561.1 | 561.5 | 561.9 | 562.3 | 561.9 | 561.5 | 561.1 |
| 170°   | 565.6 | 565.6 | 565.6 | 565.8 | 566.2 | 566.6 | 567.0 | 567.4 | 567.0 | 566.6 | 566.2 |
| 172.5° | 569.5 | 569.5 | 569.5 | 569.7 | 570.2 | 570.6 | 571.0 | 571.4 | 571.0 | 570.6 | 570.2 |
| 175°   | 573.7 | 573.7 | 573.7 | 573.9 | 574.3 | 574.7 | 575.1 | 575.5 | 575.1 | 574.7 | 574.3 |
| 177.5° | 575.8 | 575.8 | 575.8 | 576.0 | 576.3 | 576.6 | 576.9 | 577.3 | 576.9 | 576.6 | 576.3 |
| 180°   | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 |



TEST NUMBER: P332411

CATALOG NUMBER: S123RDIW-S560D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 |
| 2.5°   | 879.4 | 875.4 | 872.7 | 866.5 | 862.6 | 858.3 | 854.0 | 856.7 | 856.4 | 856.1 | 856.1 |
| 5°     | 849.9 | 841.1 | 833.1 | 822.7 | 816.2 | 808.2 | 802.0 | 801.3 | 802.8 | 797.4 | 794.4 |
| 7.5°   | 820.7 | 808.6 | 797.2 | 785.8 | 773.7 | 764.0 | 758.0 | 755.2 | 751.3 | 748.0 | 744.5 |
| 10°    | 800.1 | 786.0 | 774.8 | 760.7 | 747.7 | 736.2 | 728.9 | 723.9 | 721.2 | 718.5 | 713.6 |
| 12.5°  | 779.0 | 765.1 | 750.9 | 734.9 | 722.5 | 709.2 | 703.8 | 698.2 | 693.0 | 690.0 | 683.2 |
| 15°    | 748.0 | 730.0 | 715.1 | 698.2 | 684.5 | 671.4 | 663.8 | 652.7 | 651.1 | 647.3 | 640.4 |
| 17.5°  | 717.0 | 697.5 | 676.9 | 664.4 | 648.8 | 635.3 | 623.6 | 619.9 | 608.9 | 604.8 | 598.8 |
| 20°    | 692.5 | 674.5 | 658.8 | 642.3 | 619.7 | 607.1 | 597.9 | 592.9 | 584.1 | 578.7 | 574.9 |
| 22.5°  | 671.4 | 653.0 | 634.9 | 615.7 | 597.0 | 582.9 | 576.1 | 568.4 | 563.6 | 556.1 | 551.9 |
| 25°    | 641.2 | 621.3 | 599.4 | 578.7 | 565.3 | 554.6 | 543.9 | 537.0 | 530.1 | 526.6 | 519.0 |
| 27.5°  | 606.1 | 585.3 | 564.9 | 549.2 | 532.7 | 522.1 | 512.4 | 506.3 | 498.0 | 492.2 | 488.0 |
| 30°    | 586.8 | 562.3 | 544.7 | 530.5 | 509.4 | 499.5 | 492.2 | 484.5 | 478.4 | 472.3 | 468.0 |
| 32.5°  | 564.4 | 542.0 | 525.3 | 507.8 | 491.6 | 480.8 | 471.3 | 464.6 | 459.4 | 453.6 | 449.4 |
| 35°    | 529.3 | 510.6 | 493.3 | 475.7 | 463.8 | 452.7 | 441.6 | 435.9 | 430.9 | 425.5 | 421.7 |
| 37.5°  | 497.6 | 480.1 | 463.7 | 447.0 | 432.3 | 423.2 | 414.3 | 409.9 | 403.2 | 399.6 | 395.7 |
| 40°    | 478.0 | 460.8 | 443.2 | 427.1 | 411.7 | 404.9 | 396.8 | 390.3 | 384.2 | 381.5 | 377.3 |
| 42.5°  | 456.6 | 439.3 | 424.5 | 407.1 | 394.6 | 385.2 | 377.8 | 370.7 | 366.1 | 362.2 | 359.8 |
| 45°    | 424.8 | 409.4 | 394.9 | 377.7 | 365.8 | 357.7 | 349.3 | 342.8 | 338.6 | 335.9 | 331.7 |
| 47.5°  | 393.9 | 378.6 | 363.8 | 348.8 | 337.3 | 328.1 | 319.7 | 315.1 | 309.6 | 306.3 | 303.4 |
| 50°    | 371.5 | 357.7 | 342.0 | 328.2 | 316.8 | 307.6 | 300.7 | 294.9 | 289.9 | 285.7 | 283.8 |
| 52.5°  | 351.0 | 336.3 | 322.7 | 309.9 | 297.8 | 287.3 | 281.1 | 275.0 | 271.3 | 266.4 | 264.2 |
| 55°    | 317.1 | 303.0 | 291.5 | 278.8 | 267.0 | 258.2 | 250.5 | 245.1 | 241.3 | 235.9 | 232.9 |
| 57.5°  | 285.3 | 272.6 | 258.9 | 248.0 | 235.7 | 228.3 | 221.9 | 214.6 | 210.0 | 205.8 | 202.8 |
| 60°    | 263.9 | 249.3 | 237.5 | 227.1 | 216.4 | 206.8 | 201.1 | 195.3 | 190.4 | 186.1 | 183.5 |
| 62.5°  | 241.5 | 228.8 | 217.6 | 206.3 | 196.5 | 188.1 | 181.5 | 176.6 | 172.3 | 169.6 | 166.9 |
| 65°    | 207.2 | 197.3 | 185.8 | 176.6 | 167.4 | 161.3 | 155.9 | 151.7 | 148.6 | 146.7 | 144.4 |
| 67.5°  | 175.7 | 166.0 | 156.0 | 146.9 | 140.8 | 136.1 | 132.6 | 129.0 | 127.5 | 125.0 | 123.5 |
| 70°    | 155.1 | 145.2 | 136.4 | 129.5 | 123.3 | 119.9 | 117.6 | 114.9 | 113.4 | 110.3 | 108.8 |
| 72.5°  | 132.8 | 125.6 | 119.2 | 113.5 | 108.6 | 105.5 | 102.6 | 99.3  | 96.8  | 93.5  | 91.9  |
| 75°    | 104.6 | 98.1  | 93.1  | 89.2  | 86.2  | 82.0  | 77.8  | 74.3  | 73.2  | 72.0  | 71.6  |
| 77.5°  | 77.4  | 73.3  | 69.7  | 66.5  | 62.7  | 59.6  | 58.7  | 57.9  | 57.7  | 57.1  | 57.1  |
| 80°    | 60.9  | 57.1  | 54.4  | 50.6  | 48.3  | 48.3  | 48.3  | 47.5  | 47.9  | 47.9  | 47.9  |
| 82.5°  | 45.3  | 41.7  | 40.3  | 38.9  | 38.5  | 38.8  | 38.8  | 38.9  | 38.7  | 39.3  | 39.0  |
| 85°    | 23.4  | 23.7  | 24.5  | 24.1  | 24.5  | 24.5  | 25.3  | 24.9  | 25.3  | 24.5  | 25.3  |
| 87.5°  | 9.5   | 10.6  | 11.2  | 11.8  | 12.3  | 12.3  | 12.7  | 12.8  | 13.1  | 13.2  | 13.3  |
| 90°    | 4.5   | 5.6   | 6.9   | 8.3   | 9.6   | 10.9  | 11.3  | 11.7  | 12.1  | 12.5  | 12.8  |
| 92.5°  | 13.7  | 14.4  | 15.2  | 15.9  | 16.7  | 17.4  | 17.7  | 18.0  | 18.4  | 18.7  | 18.8  |
| 95°    | 29.6  | 30.3  | 31.1  | 31.9  | 32.7  | 33.5  | 33.9  | 34.3  | 34.7  | 35.1  | 35.3  |
| 97.5°  | 49.6  | 50.1  | 50.7  | 51.3  | 51.9  | 52.5  | 52.9  | 53.4  | 53.9  | 54.3  | 54.5  |
| 100°   | 64.0  | 64.6  | 65.1  | 65.6  | 66.1  | 66.6  | 66.9  | 67.2  | 67.5  | 67.8  | 68.1  |
| 102.5° | 79.4  | 79.9  | 80.6  | 81.2  | 81.9  | 82.6  | 82.9  | 83.2  | 83.5  | 83.8  | 83.9  |
| 105°   | 102.8 | 103.3 | 104.2 | 105.1 | 106.0 | 106.9 | 106.9 | 106.9 | 106.9 | 106.9 | 107.0 |
| 107.5° | 130.4 | 130.6 | 131.0 | 131.3 | 131.7 | 132.1 | 132.4 | 132.7 | 133.0 | 133.3 | 133.4 |
| 110°   | 148.1 | 148.3 | 148.5 | 148.7 | 148.9 | 149.1 | 149.5 | 149.9 | 150.3 | 150.7 | 150.8 |



TEST NUMBER: P332411

CATALOG NUMBER: S123RDIW-S560D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 165.9 | 166.0 | 166.0 | 166.1 | 166.1 | 166.1 | 166.6 | 167.1 | 167.6 | 168.1 | 168.3 |
| 115°   | 193.8 | 193.9 | 193.7 | 193.5 | 193.3 | 193.1 | 193.2 | 193.3 | 193.4 | 193.5 | 193.5 |
| 117.5° | 220.8 | 220.7 | 220.5 | 220.2 | 220.0 | 219.7 | 219.7 | 219.7 | 219.6 | 219.6 | 219.5 |
| 120°   | 239.4 | 239.5 | 239.0 | 238.5 | 238.0 | 237.5 | 237.4 | 237.3 | 237.2 | 237.1 | 236.9 |
| 122.5° | 256.5 | 256.6 | 256.4 | 256.1 | 255.9 | 255.6 | 255.3 | 255.1 | 254.8 | 254.5 | 254.3 |
| 125°   | 283.1 | 283.1 | 282.9 | 282.7 | 282.5 | 282.3 | 281.9 | 281.5 | 281.1 | 280.7 | 280.3 |
| 127.5° | 309.5 | 309.7 | 309.5 | 309.2 | 309.0 | 308.8 | 308.2 | 307.7 | 307.1 | 306.5 | 306.0 |
| 130°   | 326.8 | 327.0 | 326.7 | 326.4 | 326.1 | 325.8 | 325.4 | 325.0 | 324.6 | 324.2 | 323.7 |
| 132.5° | 343.5 | 343.8 | 343.5 | 343.3 | 343.1 | 342.9 | 342.4 | 341.9 | 341.4 | 340.9 | 340.4 |
| 135°   | 368.1 | 368.4 | 368.3 | 368.2 | 368.1 | 368.0 | 367.6 | 367.2 | 366.8 | 366.4 | 366.1 |
| 137.5° | 391.3 | 391.7 | 391.9 | 392.2 | 392.5 | 392.7 | 392.3 | 391.9 | 391.5 | 391.0 | 390.6 |
| 140°   | 407.6 | 407.9 | 408.0 | 408.1 | 408.2 | 408.3 | 408.2 | 408.1 | 408.0 | 407.9 | 407.5 |
| 142.5° | 422.5 | 422.8 | 423.0 | 423.2 | 423.4 | 423.5 | 423.4 | 423.3 | 423.2 | 423.1 | 422.8 |
| 145°   | 444.5 | 444.7 | 445.0 | 445.3 | 445.6 | 445.9 | 445.8 | 445.7 | 445.6 | 445.5 | 445.3 |
| 147.5° | 465.4 | 465.7 | 466.0 | 466.3 | 466.6 | 466.9 | 466.9 | 466.9 | 466.9 | 466.9 | 466.6 |
| 150°   | 478.9 | 479.1 | 479.3 | 479.5 | 479.7 | 479.9 | 479.9 | 479.9 | 479.9 | 479.9 | 479.6 |
| 152.5° | 490.8 | 491.0 | 491.1 | 491.3 | 491.4 | 491.5 | 491.7 | 491.8 | 492.0 | 492.2 | 492.0 |
| 155°   | 508.0 | 508.1 | 508.2 | 508.3 | 508.4 | 508.5 | 508.9 | 509.3 | 509.7 | 510.1 | 509.9 |
| 157.5° | 523.1 | 523.1 | 523.2 | 523.3 | 523.3 | 523.4 | 523.8 | 524.3 | 524.7 | 525.1 | 525.0 |
| 160°   | 532.6 | 532.5 | 532.5 | 532.5 | 532.5 | 532.5 | 533.0 | 533.5 | 534.0 | 534.5 | 534.5 |
| 162.5° | 541.0 | 540.9 | 540.9 | 541.0 | 541.1 | 541.2 | 541.7 | 542.2 | 542.7 | 543.2 | 543.1 |
| 165°   | 552.1 | 552.0 | 552.0 | 552.0 | 552.0 | 552.0 | 552.6 | 553.2 | 553.8 | 554.4 | 554.3 |
| 167.5° | 560.7 | 560.5 | 560.6 | 560.7 | 560.8 | 560.8 | 561.5 | 562.1 | 562.7 | 563.3 | 563.3 |
| 170°   | 565.8 | 565.6 | 565.6 | 565.6 | 565.6 | 565.6 | 566.3 | 567.0 | 567.7 | 568.4 | 568.4 |
| 172.5° | 569.7 | 569.5 | 569.5 | 569.5 | 569.5 | 569.5 | 570.2 | 570.8 | 571.4 | 572.0 | 572.0 |
| 175°   | 573.9 | 573.7 | 573.7 | 573.7 | 573.7 | 573.7 | 574.3 | 574.9 | 575.5 | 576.1 | 576.1 |
| 177.5° | 576.0 | 575.8 | 575.8 | 575.8 | 575.8 | 575.8 | 576.3 | 576.8 | 577.3 | 577.7 | 577.7 |
| 180°   | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 |



TEST NUMBER: P332411

CATALOG NUMBER: S123RDIW-S560D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  | 200°  | 205°  | 210°  | 215°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 |
| 2.5°   | 852.4 | 852.1 | 852.4 | 851.2 | 852.4 | 852.1 | 852.4 | 856.1 | 856.1 | 856.4 | 856.7 |
| 5°     | 793.2 | 792.8 | 791.7 | 788.3 | 791.7 | 792.8 | 793.2 | 794.4 | 797.4 | 802.8 | 801.3 |
| 7.5°   | 741.5 | 741.0 | 737.6 | 737.7 | 737.6 | 741.0 | 741.5 | 744.5 | 748.0 | 751.3 | 755.2 |
| 10°    | 710.9 | 711.3 | 706.7 | 704.0 | 706.7 | 711.3 | 710.9 | 713.6 | 718.5 | 721.2 | 723.9 |
| 12.5°  | 681.2 | 679.4 | 675.7 | 672.7 | 675.7 | 679.4 | 681.2 | 683.2 | 690.0 | 693.0 | 698.2 |
| 15°    | 641.9 | 638.1 | 628.9 | 629.7 | 628.9 | 638.1 | 641.9 | 640.4 | 647.3 | 651.1 | 652.7 |
| 17.5°  | 595.7 | 592.9 | 592.8 | 587.4 | 592.8 | 592.9 | 595.7 | 598.8 | 604.8 | 608.9 | 619.9 |
| 20°    | 568.8 | 566.9 | 567.6 | 562.3 | 567.6 | 566.9 | 568.8 | 574.9 | 578.7 | 584.1 | 592.9 |
| 22.5°  | 547.6 | 545.7 | 542.5 | 540.8 | 542.5 | 545.7 | 547.6 | 551.9 | 556.1 | 563.6 | 568.4 |
| 25°    | 516.7 | 513.6 | 510.6 | 512.5 | 510.6 | 513.6 | 516.7 | 519.0 | 526.6 | 530.1 | 537.0 |
| 27.5°  | 485.7 | 483.4 | 480.4 | 480.0 | 480.4 | 483.4 | 485.7 | 488.0 | 492.2 | 498.0 | 506.3 |
| 30°    | 466.1 | 463.8 | 462.3 | 460.4 | 462.3 | 463.8 | 466.1 | 468.0 | 472.3 | 478.4 | 484.5 |
| 32.5°  | 446.2 | 445.8 | 443.0 | 442.6 | 443.0 | 445.8 | 446.2 | 449.4 | 453.6 | 459.4 | 464.6 |
| 35°    | 420.2 | 417.9 | 417.1 | 417.5 | 417.1 | 417.9 | 420.2 | 421.7 | 425.5 | 430.9 | 435.9 |
| 37.5°  | 395.4 | 392.4 | 391.0 | 389.6 | 391.0 | 392.4 | 395.4 | 395.7 | 399.6 | 403.2 | 409.9 |
| 40°    | 377.7 | 374.6 | 373.8 | 373.1 | 373.8 | 374.6 | 377.7 | 377.3 | 381.5 | 384.2 | 390.3 |
| 42.5°  | 357.7 | 356.5 | 356.1 | 354.7 | 356.1 | 356.5 | 357.7 | 359.8 | 362.2 | 366.1 | 370.7 |
| 45°    | 330.5 | 330.2 | 327.9 | 328.6 | 327.9 | 330.2 | 330.5 | 331.7 | 335.9 | 338.6 | 342.8 |
| 47.5°  | 301.9 | 300.2 | 298.6 | 299.7 | 298.6 | 300.2 | 301.9 | 303.4 | 306.3 | 309.6 | 315.1 |
| 50°    | 282.3 | 281.5 | 278.1 | 278.8 | 278.1 | 281.5 | 282.3 | 283.8 | 285.7 | 289.9 | 294.9 |
| 52.5°  | 262.7 | 259.8 | 258.5 | 258.0 | 258.5 | 259.8 | 262.7 | 264.2 | 266.4 | 271.3 | 275.0 |
| 55°    | 230.2 | 226.7 | 225.2 | 224.4 | 225.2 | 226.7 | 230.2 | 232.9 | 235.9 | 241.3 | 245.1 |
| 57.5°  | 198.3 | 197.4 | 196.2 | 197.0 | 196.2 | 197.4 | 198.3 | 202.8 | 205.8 | 210.0 | 214.6 |
| 60°    | 179.6 | 179.6 | 179.6 | 179.3 | 179.6 | 179.6 | 179.6 | 183.5 | 186.1 | 190.4 | 195.3 |
| 62.5°  | 165.2 | 164.3 | 164.0 | 164.5 | 164.0 | 164.3 | 165.2 | 166.9 | 169.6 | 172.3 | 176.6 |
| 65°    | 143.2 | 142.9 | 141.3 | 141.0 | 141.3 | 142.9 | 143.2 | 144.4 | 146.7 | 148.6 | 151.7 |
| 67.5°  | 122.5 | 121.1 | 120.7 | 120.1 | 120.7 | 121.1 | 122.5 | 123.5 | 125.0 | 127.5 | 129.0 |
| 70°    | 106.9 | 106.1 | 103.8 | 104.2 | 103.8 | 106.1 | 106.9 | 108.8 | 110.3 | 113.4 | 114.9 |
| 72.5°  | 90.0  | 89.2  | 88.8  | 88.2  | 88.8  | 89.2  | 90.0  | 91.9  | 93.5  | 96.8  | 99.3  |
| 75°    | 71.2  | 70.9  | 70.5  | 72.0  | 70.5  | 70.9  | 71.2  | 71.6  | 72.0  | 73.2  | 74.3  |
| 77.5°  | 57.1  | 57.1  | 57.3  | 56.7  | 57.3  | 57.1  | 57.1  | 57.1  | 57.1  | 57.7  | 57.9  |
| 80°    | 47.9  | 47.9  | 47.5  | 47.5  | 47.5  | 47.9  | 47.9  | 47.9  | 47.9  | 47.9  | 47.5  |
| 82.5°  | 38.4  | 38.7  | 38.9  | 38.3  | 38.9  | 38.7  | 38.4  | 39.0  | 39.3  | 38.7  | 38.9  |
| 85°    | 25.3  | 24.9  | 25.7  | 25.3  | 25.7  | 24.9  | 25.3  | 25.3  | 24.5  | 25.3  | 24.9  |
| 87.5°  | 13.9  | 13.4  | 13.4  | 13.7  | 13.4  | 13.4  | 13.9  | 13.3  | 13.2  | 13.1  | 12.8  |
| 90°    | 13.0  | 13.2  | 13.4  | 13.6  | 13.4  | 13.2  | 13.0  | 12.8  | 12.5  | 12.1  | 11.7  |
| 92.5°  | 18.7  | 18.5  | 18.4  | 18.3  | 18.4  | 18.5  | 18.7  | 18.8  | 18.7  | 18.4  | 18.0  |
| 95°    | 35.3  | 35.3  | 35.3  | 35.3  | 35.3  | 35.3  | 35.3  | 35.3  | 35.1  | 34.7  | 34.3  |
| 97.5°  | 54.5  | 54.5  | 54.4  | 54.4  | 54.4  | 54.5  | 54.5  | 54.5  | 54.3  | 53.9  | 53.4  |
| 100°   | 68.3  | 68.5  | 68.7  | 68.9  | 68.7  | 68.5  | 68.3  | 68.1  | 67.8  | 67.5  | 67.2  |
| 102.5° | 83.9  | 83.8  | 83.8  | 83.7  | 83.8  | 83.8  | 83.9  | 83.9  | 83.8  | 83.5  | 83.2  |
| 105°   | 107.3 | 107.5 | 107.7 | 107.9 | 107.7 | 107.5 | 107.3 | 107.0 | 106.9 | 106.9 | 106.9 |
| 107.5° | 133.3 | 133.2 | 133.1 | 133.0 | 133.1 | 133.2 | 133.3 | 133.4 | 133.3 | 133.0 | 132.7 |
| 110°   | 150.6 | 150.4 | 150.2 | 150.0 | 150.2 | 150.4 | 150.6 | 150.8 | 150.7 | 150.3 | 149.9 |



TEST NUMBER: P332411

CATALOG NUMBER: S123RDIW-S560D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  | 200°  | 205°  | 210°  | 215°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 168.2 | 168.2 | 168.2 | 168.1 | 168.2 | 168.2 | 168.2 | 168.3 | 168.1 | 167.6 | 167.1 |
| 115°   | 193.4 | 193.3 | 193.2 | 193.1 | 193.2 | 193.3 | 193.4 | 193.5 | 193.5 | 193.4 | 193.3 |
| 117.5° | 219.2 | 218.9 | 218.6 | 218.3 | 218.6 | 218.9 | 219.2 | 219.5 | 219.6 | 219.6 | 219.7 |
| 120°   | 236.7 | 236.5 | 236.3 | 236.1 | 236.3 | 236.5 | 236.7 | 236.9 | 237.1 | 237.2 | 237.3 |
| 122.5° | 254.0 | 253.7 | 253.4 | 253.1 | 253.4 | 253.7 | 254.0 | 254.3 | 254.5 | 254.8 | 255.1 |
| 125°   | 279.9 | 279.5 | 279.1 | 278.7 | 279.1 | 279.5 | 279.9 | 280.3 | 280.7 | 281.1 | 281.5 |
| 127.5° | 305.6 | 305.1 | 304.6 | 304.2 | 304.6 | 305.1 | 305.6 | 306.0 | 306.5 | 307.1 | 307.7 |
| 130°   | 323.0 | 322.3 | 321.6 | 320.8 | 321.6 | 322.3 | 323.0 | 323.7 | 324.2 | 324.6 | 325.0 |
| 132.5° | 339.9 | 339.3 | 338.8 | 338.2 | 338.8 | 339.3 | 339.9 | 340.4 | 340.9 | 341.4 | 341.9 |
| 135°   | 365.9 | 365.7 | 365.5 | 365.3 | 365.5 | 365.7 | 365.9 | 366.1 | 366.4 | 366.8 | 367.2 |
| 137.5° | 390.2 | 389.9 | 389.5 | 389.1 | 389.5 | 389.9 | 390.2 | 390.6 | 391.0 | 391.5 | 391.9 |
| 140°   | 406.8 | 406.1 | 405.4 | 404.7 | 405.4 | 406.1 | 406.8 | 407.5 | 407.9 | 408.0 | 408.1 |
| 142.5° | 422.3 | 421.7 | 421.2 | 420.6 | 421.2 | 421.7 | 422.3 | 422.8 | 423.1 | 423.2 | 423.3 |
| 145°   | 444.9 | 444.5 | 444.1 | 443.7 | 444.1 | 444.5 | 444.9 | 445.3 | 445.5 | 445.6 | 445.7 |
| 147.5° | 466.0 | 465.3 | 464.7 | 464.1 | 464.7 | 465.3 | 466.0 | 466.6 | 466.9 | 466.9 | 466.9 |
| 150°   | 479.0 | 478.4 | 477.8 | 477.2 | 477.8 | 478.4 | 479.0 | 479.6 | 479.9 | 479.9 | 479.9 |
| 152.5° | 491.5 | 490.9 | 490.4 | 489.9 | 490.4 | 490.9 | 491.5 | 492.0 | 492.2 | 492.0 | 491.8 |
| 155°   | 509.2 | 508.5 | 507.8 | 507.1 | 507.8 | 508.5 | 509.2 | 509.9 | 510.1 | 509.7 | 509.3 |
| 157.5° | 524.5 | 523.9 | 523.3 | 522.8 | 523.3 | 523.9 | 524.5 | 525.0 | 525.1 | 524.7 | 524.3 |
| 160°   | 534.1 | 533.7 | 533.3 | 532.9 | 533.3 | 533.7 | 534.1 | 534.5 | 534.5 | 534.0 | 533.5 |
| 162.5° | 542.5 | 541.8 | 541.2 | 540.5 | 541.2 | 541.8 | 542.5 | 543.1 | 543.2 | 542.7 | 542.2 |
| 165°   | 553.6 | 552.9 | 552.2 | 551.5 | 552.2 | 552.9 | 553.6 | 554.3 | 554.4 | 553.8 | 553.2 |
| 167.5° | 562.7 | 562.1 | 561.5 | 560.8 | 561.5 | 562.1 | 562.7 | 563.3 | 563.3 | 562.7 | 562.1 |
| 170°   | 567.7 | 567.0 | 566.3 | 565.6 | 566.3 | 567.0 | 567.7 | 568.4 | 568.4 | 567.7 | 567.0 |
| 172.5° | 571.3 | 570.6 | 569.9 | 569.2 | 569.9 | 570.6 | 571.3 | 572.0 | 572.0 | 571.4 | 570.8 |
| 175°   | 575.4 | 574.7 | 574.0 | 573.3 | 574.0 | 574.7 | 575.4 | 576.1 | 576.1 | 575.5 | 574.9 |
| 177.5° | 577.1 | 576.6 | 576.0 | 575.4 | 576.0 | 576.6 | 577.1 | 577.7 | 577.7 | 577.3 | 576.8 |
| 180°   | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 |



TEST NUMBER: P332411

CATALOG NUMBER: S123RDIW-S560D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

|        | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  | 270°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 | 894.7 |
| 2.5°   | 854.0 | 858.3 | 862.6 | 866.5 | 872.7 | 875.4 | 879.4 | 880.9 | 885.5 | 892.3 | 897.8 |
| 5°     | 802.0 | 808.2 | 816.2 | 822.7 | 833.1 | 841.1 | 849.9 | 858.3 | 868.3 | 882.5 | 895.1 |
| 7.5°   | 758.0 | 764.0 | 773.7 | 785.8 | 797.2 | 808.6 | 820.7 | 832.1 | 846.4 | 866.7 | 886.8 |
| 10°    | 728.9 | 736.2 | 747.7 | 760.7 | 774.8 | 786.0 | 800.1 | 814.7 | 832.3 | 855.7 | 879.8 |
| 12.5°  | 703.8 | 709.2 | 722.5 | 734.9 | 750.9 | 765.1 | 779.0 | 796.0 | 816.1 | 841.0 | 870.0 |
| 15°    | 663.8 | 671.4 | 684.5 | 698.2 | 715.1 | 730.0 | 748.0 | 768.7 | 788.3 | 818.9 | 854.1 |
| 17.5°  | 623.6 | 635.3 | 648.8 | 664.4 | 676.9 | 697.5 | 717.0 | 738.2 | 762.3 | 794.8 | 833.4 |
| 20°    | 597.9 | 607.1 | 619.7 | 642.3 | 658.8 | 674.5 | 692.5 | 718.9 | 741.1 | 777.9 | 818.1 |
| 22.5°  | 576.1 | 582.9 | 597.0 | 615.7 | 634.9 | 653.0 | 671.4 | 696.6 | 724.0 | 758.9 | 802.5 |
| 25°    | 543.9 | 554.6 | 565.3 | 578.7 | 599.4 | 621.3 | 641.2 | 662.6 | 691.7 | 728.9 | 776.0 |
| 27.5°  | 512.4 | 522.1 | 532.7 | 549.2 | 564.9 | 585.3 | 606.1 | 630.7 | 661.9 | 701.2 | 749.0 |
| 30°    | 492.2 | 499.5 | 509.4 | 530.5 | 544.7 | 562.3 | 586.8 | 608.6 | 637.7 | 679.5 | 730.0 |
| 32.5°  | 471.3 | 480.8 | 491.6 | 507.8 | 525.3 | 542.0 | 564.4 | 588.1 | 617.8 | 658.9 | 710.7 |
| 35°    | 441.6 | 452.7 | 463.8 | 475.7 | 493.3 | 510.6 | 529.3 | 555.4 | 585.6 | 625.5 | 676.4 |
| 37.5°  | 414.3 | 423.2 | 432.3 | 447.0 | 463.7 | 480.1 | 497.6 | 523.3 | 551.8 | 594.8 | 641.5 |
| 40°    | 396.8 | 404.9 | 411.7 | 427.1 | 443.2 | 460.8 | 478.0 | 500.6 | 531.2 | 571.5 | 616.7 |
| 42.5°  | 377.8 | 385.2 | 394.6 | 407.1 | 424.5 | 439.3 | 456.6 | 477.9 | 506.7 | 547.6 | 587.2 |
| 45°    | 349.3 | 357.7 | 365.8 | 377.7 | 394.9 | 409.4 | 424.8 | 445.1 | 474.6 | 508.3 | 543.5 |
| 47.5°  | 319.7 | 328.1 | 337.3 | 348.8 | 363.8 | 378.6 | 393.9 | 411.9 | 438.8 | 471.9 | 495.6 |
| 50°    | 300.7 | 307.6 | 316.8 | 328.2 | 342.0 | 357.7 | 371.5 | 391.1 | 416.7 | 442.8 | 463.5 |
| 52.5°  | 281.1 | 287.3 | 297.8 | 309.9 | 322.7 | 336.3 | 351.0 | 367.8 | 391.0 | 415.5 | 431.9 |
| 55°    | 250.5 | 258.2 | 267.0 | 278.8 | 291.5 | 303.0 | 317.1 | 334.4 | 352.8 | 371.1 | 382.3 |
| 57.5°  | 221.9 | 228.3 | 235.7 | 248.0 | 258.9 | 272.6 | 285.3 | 298.8 | 315.8 | 329.6 | 336.9 |
| 60°    | 201.1 | 206.8 | 216.4 | 227.1 | 237.5 | 249.3 | 263.9 | 277.3 | 290.3 | 301.4 | 307.2 |
| 62.5°  | 181.5 | 188.1 | 196.5 | 206.3 | 217.6 | 228.8 | 241.5 | 252.8 | 264.3 | 273.9 | 277.8 |
| 65°    | 155.9 | 161.3 | 167.4 | 176.6 | 185.8 | 197.3 | 207.2 | 218.7 | 227.1 | 232.5 | 235.9 |
| 67.5°  | 132.6 | 136.1 | 140.8 | 146.9 | 156.0 | 166.0 | 175.7 | 184.6 | 191.7 | 195.3 | 198.4 |
| 70°    | 117.6 | 119.9 | 123.3 | 129.5 | 136.4 | 145.2 | 155.1 | 161.6 | 167.8 | 170.8 | 173.9 |
| 72.5°  | 102.6 | 105.5 | 108.6 | 113.5 | 119.2 | 125.6 | 132.8 | 140.8 | 144.2 | 147.8 | 149.7 |
| 75°    | 77.8  | 82.0  | 86.2  | 89.2  | 93.1  | 98.1  | 104.6 | 109.5 | 111.5 | 114.5 | 114.9 |
| 77.5°  | 58.7  | 59.6  | 62.7  | 66.5  | 69.7  | 73.3  | 77.4  | 81.9  | 82.8  | 84.4  | 85.4  |
| 80°    | 48.3  | 48.3  | 48.3  | 50.6  | 54.4  | 57.1  | 60.9  | 63.2  | 64.7  | 65.1  | 65.5  |
| 82.5°  | 38.8  | 38.8  | 38.5  | 38.9  | 40.3  | 41.7  | 45.3  | 47.9  | 49.1  | 48.9  | 48.0  |
| 85°    | 25.3  | 24.5  | 24.5  | 24.1  | 24.5  | 23.7  | 23.4  | 24.9  | 27.2  | 27.2  | 26.4  |
| 87.5°  | 12.7  | 12.3  | 12.3  | 11.8  | 11.2  | 10.6  | 9.5   | 9.6   | 9.4   | 10.4  | 9.9   |
| 90°    | 11.3  | 10.9  | 9.6   | 8.3   | 6.9   | 5.6   | 4.5   | 3.5   | 2.5   | 1.5   | 0.5   |
| 92.5°  | 17.7  | 17.4  | 16.7  | 15.9  | 15.2  | 14.4  | 13.7  | 13.0  | 12.3  | 11.7  | 11.0  |
| 95°    | 33.9  | 33.5  | 32.7  | 31.9  | 31.1  | 30.3  | 29.6  | 28.9  | 28.1  | 27.4  | 26.7  |
| 97.5°  | 52.9  | 52.5  | 51.9  | 51.3  | 50.7  | 50.1  | 49.6  | 49.1  | 48.5  | 48.0  | 47.5  |
| 100°   | 66.9  | 66.6  | 66.1  | 65.6  | 65.1  | 64.6  | 64.0  | 63.4  | 62.8  | 62.2  | 61.6  |
| 102.5° | 82.9  | 82.6  | 81.9  | 81.2  | 80.6  | 79.9  | 79.4  | 79.0  | 78.7  | 78.3  | 77.9  |
| 105°   | 106.9 | 106.9 | 106.0 | 105.1 | 104.2 | 103.3 | 102.8 | 102.6 | 102.4 | 102.2 | 102.0 |
| 107.5° | 132.4 | 132.1 | 131.7 | 131.3 | 131.0 | 130.6 | 130.4 | 130.2 | 130.1 | 130.0 | 129.9 |
| 110°   | 149.5 | 149.1 | 148.9 | 148.7 | 148.5 | 148.3 | 148.1 | 147.9 | 147.7 | 147.5 | 147.3 |



TEST NUMBER: P332411

CATALOG NUMBER: S123RDIW-S560D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

|        | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  | 270°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 166.6 | 166.1 | 166.1 | 166.1 | 166.0 | 166.0 | 165.9 | 165.8 | 165.7 | 165.5 | 165.4 |
| 115°   | 193.2 | 193.1 | 193.3 | 193.5 | 193.7 | 193.9 | 193.8 | 193.5 | 193.2 | 192.9 | 192.6 |
| 117.5° | 219.7 | 219.7 | 220.0 | 220.2 | 220.5 | 220.7 | 220.8 | 220.6 | 220.4 | 220.2 | 220.0 |
| 120°   | 237.4 | 237.5 | 238.0 | 238.5 | 239.0 | 239.5 | 239.4 | 238.8 | 238.2 | 237.6 | 237.0 |
| 122.5° | 255.3 | 255.6 | 255.9 | 256.1 | 256.4 | 256.6 | 256.5 | 256.1 | 255.7 | 255.2 | 254.8 |
| 125°   | 281.9 | 282.3 | 282.5 | 282.7 | 282.9 | 283.1 | 283.1 | 282.8 | 282.5 | 282.2 | 281.9 |
| 127.5° | 308.2 | 308.8 | 309.0 | 309.2 | 309.5 | 309.7 | 309.5 | 308.8 | 308.2 | 307.5 | 306.9 |
| 130°   | 325.4 | 325.8 | 326.1 | 326.4 | 326.7 | 327.0 | 326.8 | 326.0 | 325.2 | 324.4 | 323.6 |
| 132.5° | 342.4 | 342.9 | 343.1 | 343.3 | 343.5 | 343.8 | 343.5 | 342.7 | 341.9 | 341.0 | 340.2 |
| 135°   | 367.6 | 368.0 | 368.1 | 368.2 | 368.3 | 368.4 | 368.1 | 367.5 | 366.9 | 366.3 | 365.7 |
| 137.5° | 392.3 | 392.7 | 392.5 | 392.2 | 391.9 | 391.7 | 391.3 | 390.8 | 390.3 | 389.8 | 389.3 |
| 140°   | 408.2 | 408.3 | 408.2 | 408.1 | 408.0 | 407.9 | 407.6 | 407.1 | 406.6 | 406.1 | 405.6 |
| 142.5° | 423.4 | 423.5 | 423.4 | 423.2 | 423.0 | 422.8 | 422.5 | 422.0 | 421.5 | 421.0 | 420.5 |
| 145°   | 445.8 | 445.9 | 445.6 | 445.3 | 445.0 | 444.7 | 444.5 | 444.3 | 444.1 | 443.9 | 443.7 |
| 147.5° | 466.9 | 466.9 | 466.6 | 466.3 | 466.0 | 465.7 | 465.4 | 465.0 | 464.7 | 464.3 | 464.0 |
| 150°   | 479.9 | 479.9 | 479.7 | 479.5 | 479.3 | 479.1 | 478.9 | 478.7 | 478.5 | 478.3 | 478.1 |
| 152.5° | 491.7 | 491.5 | 491.4 | 491.3 | 491.1 | 491.0 | 490.8 | 490.5 | 490.3 | 490.0 | 489.7 |
| 155°   | 508.9 | 508.5 | 508.4 | 508.3 | 508.2 | 508.1 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 |
| 157.5° | 523.8 | 523.4 | 523.3 | 523.3 | 523.2 | 523.1 | 523.1 | 523.2 | 523.4 | 523.5 | 523.6 |
| 160°   | 533.0 | 532.5 | 532.5 | 532.5 | 532.5 | 532.5 | 532.6 | 532.8 | 533.0 | 533.2 | 533.4 |
| 162.5° | 541.7 | 541.2 | 541.1 | 541.0 | 540.9 | 540.9 | 541.0 | 541.2 | 541.5 | 541.8 | 542.1 |
| 165°   | 552.6 | 552.0 | 552.0 | 552.0 | 552.0 | 552.0 | 552.1 | 552.4 | 552.7 | 553.0 | 553.3 |
| 167.5° | 561.5 | 560.8 | 560.8 | 560.7 | 560.6 | 560.5 | 560.7 | 561.1 | 561.5 | 561.9 | 562.3 |
| 170°   | 566.3 | 565.6 | 565.6 | 565.6 | 565.6 | 565.6 | 565.8 | 566.2 | 566.6 | 567.0 | 567.4 |
| 172.5° | 570.2 | 569.5 | 569.5 | 569.5 | 569.5 | 569.5 | 569.7 | 570.2 | 570.6 | 571.0 | 571.4 |
| 175°   | 574.3 | 573.7 | 573.7 | 573.7 | 573.7 | 573.7 | 573.9 | 574.3 | 574.7 | 575.1 | 575.5 |
| 177.5° | 576.3 | 575.8 | 575.8 | 575.8 | 575.8 | 575.8 | 576.0 | 576.3 | 576.6 | 576.9 | 577.3 |
| 180°   | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 |



TEST NUMBER: P332411

CATALOG NUMBER: S123RDIW-S560D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

|        | 275°  | 280°  | 285°  | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 894.7 | 894.7 | 894.7 | 894.7  | 894.7  | 894.7  | 894.7  | 894.7  | 894.7  | 894.7  | 894.7  |
| 2.5°   | 899.6 | 903.0 | 907.3 | 913.7  | 918.6  | 922.9  | 923.8  | 925.1  | 928.1  | 933.3  | 937.3  |
| 5°     | 905.5 | 914.3 | 928.4 | 942.2  | 957.2  | 969.4  | 980.9  | 989.0  | 996.6  | 1012.7 | 1025.7 |
| 7.5°   | 903.6 | 923.2 | 945.4 | 970.2  | 995.2  | 1019.5 | 1042.0 | 1062.2 | 1082.3 | 1105.7 | 1132.4 |
| 10°    | 902.4 | 925.4 | 955.2 | 987.0  | 1021.9 | 1056.0 | 1088.9 | 1114.6 | 1144.5 | 1171.3 | 1205.4 |
| 12.5°  | 896.6 | 929.7 | 965.4 | 1006.0 | 1048.9 | 1088.2 | 1131.5 | 1167.0 | 1201.1 | 1239.9 | 1279.5 |
| 15°    | 889.0 | 929.2 | 974.4 | 1028.4 | 1093.5 | 1141.0 | 1185.4 | 1247.1 | 1289.2 | 1331.4 | 1388.1 |
| 17.5°  | 875.1 | 924.2 | 980.7 | 1050.8 | 1105.2 | 1169.0 | 1235.8 | 1284.6 | 1341.3 | 1400.7 | 1452.0 |
| 20°    | 864.1 | 921.2 | 984.4 | 1053.3 | 1122.6 | 1192.0 | 1256.7 | 1314.9 | 1373.5 | 1442.1 | 1484.2 |
| 22.5°  | 853.1 | 909.5 | 975.2 | 1048.4 | 1122.9 | 1195.9 | 1269.2 | 1337.6 | 1403.5 | 1472.7 | 1526.5 |
| 25°    | 829.6 | 896.6 | 967.9 | 1042.6 | 1116.1 | 1196.5 | 1283.9 | 1360.1 | 1441.7 | 1512.9 | 1563.9 |
| 27.5°  | 805.9 | 867.3 | 938.2 | 1014.0 | 1095.7 | 1190.8 | 1293.5 | 1380.2 | 1461.9 | 1512.9 | 1528.9 |
| 30°    | 784.4 | 849.5 | 914.6 | 991.6  | 1080.1 | 1186.2 | 1295.4 | 1394.6 | 1461.6 | 1483.8 | 1467.3 |
| 32.5°  | 762.7 | 821.7 | 886.2 | 965.0  | 1059.0 | 1174.9 | 1297.8 | 1386.0 | 1426.4 | 1409.4 | 1342.3 |
| 35°    | 724.3 | 777.5 | 840.0 | 918.9  | 1026.9 | 1168.6 | 1287.7 | 1347.5 | 1337.5 | 1241.7 | 1115.3 |
| 37.5°  | 683.2 | 726.6 | 784.4 | 866.9  | 993.6  | 1143.7 | 1244.2 | 1253.0 | 1166.8 | 1019.8 | 873.8  |
| 40°    | 650.7 | 689.8 | 749.2 | 835.4  | 967.9  | 1119.2 | 1200.4 | 1164.8 | 1031.1 | 867.5  | 745.7  |
| 42.5°  | 619.2 | 652.1 | 709.3 | 802.3  | 943.4  | 1085.8 | 1135.1 | 1057.5 | 903.3  | 748.6  | 637.9  |
| 45°    | 565.7 | 596.7 | 654.2 | 749.6  | 893.2  | 1021.9 | 1015.4 | 880.6  | 726.2  | 601.7  | 509.8  |
| 47.5°  | 515.0 | 542.1 | 596.1 | 693.4  | 834.3  | 926.1  | 865.2  | 721.8  | 590.8  | 491.0  | 425.4  |
| 50°    | 479.2 | 506.0 | 559.6 | 655.7  | 787.1  | 854.1  | 767.2  | 628.9  | 509.0  | 426.3  | 374.2  |
| 52.5°  | 444.8 | 471.0 | 520.1 | 613.7  | 730.1  | 770.2  | 676.8  | 548.6  | 448.7  | 377.3  | 332.5  |
| 55°    | 396.8 | 416.7 | 460.8 | 550.4  | 637.3  | 646.5  | 551.9  | 444.7  | 362.3  | 312.5  | 281.9  |
| 57.5°  | 347.9 | 365.0 | 408.5 | 479.9  | 540.9  | 536.1  | 446.4  | 353.7  | 298.2  | 261.2  | 239.0  |
| 60°    | 316.0 | 332.8 | 371.1 | 432.4  | 478.4  | 462.3  | 380.0  | 305.3  | 257.8  | 230.6  | 213.0  |
| 62.5°  | 286.3 | 299.4 | 335.3 | 380.0  | 413.1  | 394.9  | 324.8  | 263.0  | 225.3  | 202.4  | 188.4  |
| 65°    | 243.2 | 253.9 | 282.7 | 306.0  | 324.4  | 306.8  | 248.6  | 205.7  | 178.5  | 162.4  | 152.8  |
| 67.5°  | 202.3 | 209.1 | 227.3 | 235.7  | 248.7  | 229.4  | 186.9  | 158.2  | 142.7  | 129.2  | 122.5  |
| 70°    | 176.6 | 181.6 | 191.1 | 198.0  | 201.5  | 181.6  | 150.1  | 129.1  | 116.1  | 106.5  | 102.3  |
| 72.5°  | 150.8 | 155.2 | 157.1 | 162.8  | 161.0  | 142.3  | 120.7  | 104.0  | 94.6   | 88.1   | 82.7   |
| 75°    | 115.3 | 117.2 | 115.3 | 113.0  | 108.0  | 95.0   | 80.1   | 71.6   | 64.7   | 61.7   | 59.8   |
| 77.5°  | 84.0  | 83.4  | 80.8  | 77.2   | 68.7   | 60.5   | 52.5   | 49.6   | 46.7   | 45.0   | 44.4   |
| 80°    | 64.7  | 63.2  | 60.9  | 55.2   | 47.9   | 42.1   | 40.2   | 38.3   | 37.2   | 35.2   | 34.9   |
| 82.5°  | 48.2  | 47.3  | 43.4  | 38.6   | 33.5   | 30.8   | 29.2   | 28.5   | 27.3   | 26.4   | 26.3   |
| 85°    | 25.7  | 24.5  | 20.3  | 17.6   | 16.9   | 16.1   | 15.7   | 15.7   | 14.2   | 13.8   | 13.8   |
| 87.5°  | 8.6   | 6.9   | 6.8   | 6.1    | 6.3    | 6.0    | 6.6    | 6.2    | 6.2    | 6.5    | 6.0    |
| 90°    | 1.5   | 2.5   | 3.5   | 4.5    | 5.6    | 6.9    | 8.3    | 9.6    | 10.9   | 11.3   | 11.7   |
| 92.5°  | 11.7  | 12.3  | 13.0  | 13.7   | 14.4   | 15.2   | 15.9   | 16.7   | 17.4   | 17.7   | 18.0   |
| 95°    | 27.4  | 28.1  | 28.9  | 29.6   | 30.3   | 31.1   | 31.9   | 32.7   | 33.5   | 33.9   | 34.3   |
| 97.5°  | 48.0  | 48.5  | 49.1  | 49.6   | 50.1   | 50.7   | 51.3   | 51.9   | 52.5   | 52.9   | 53.4   |
| 100°   | 62.2  | 62.8  | 63.4  | 64.0   | 64.6   | 65.1   | 65.6   | 66.1   | 66.6   | 66.9   | 67.2   |
| 102.5° | 78.3  | 78.7  | 79.0  | 79.4   | 79.9   | 80.6   | 81.2   | 81.9   | 82.6   | 82.9   | 83.2   |
| 105°   | 102.2 | 102.4 | 102.6 | 102.8  | 103.3  | 104.2  | 105.1  | 106.0  | 106.9  | 106.9  | 106.9  |
| 107.5° | 130.0 | 130.1 | 130.2 | 130.4  | 130.6  | 131.0  | 131.3  | 131.7  | 132.1  | 132.4  | 132.7  |
| 110°   | 147.5 | 147.7 | 147.9 | 148.1  | 148.3  | 148.5  | 148.7  | 148.9  | 149.1  | 149.5  | 149.9  |





TEST NUMBER: P332411

CATALOG NUMBER: S123RDIW-S560D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

|        | 275°  | 280°  | 285°  | 290°  | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 165.5 | 165.7 | 165.8 | 165.9 | 166.0 | 166.0 | 166.1 | 166.1 | 166.1 | 166.6 | 167.1 |
| 115°   | 192.9 | 193.2 | 193.5 | 193.8 | 193.9 | 193.7 | 193.5 | 193.3 | 193.1 | 193.2 | 193.3 |
| 117.5° | 220.2 | 220.4 | 220.6 | 220.8 | 220.7 | 220.5 | 220.2 | 220.0 | 219.7 | 219.7 | 219.7 |
| 120°   | 237.6 | 238.2 | 238.8 | 239.4 | 239.5 | 239.0 | 238.5 | 238.0 | 237.5 | 237.4 | 237.3 |
| 122.5° | 255.2 | 255.7 | 256.1 | 256.5 | 256.6 | 256.4 | 256.1 | 255.9 | 255.6 | 255.3 | 255.1 |
| 125°   | 282.2 | 282.5 | 282.8 | 283.1 | 283.1 | 282.9 | 282.7 | 282.5 | 282.3 | 281.9 | 281.5 |
| 127.5° | 307.5 | 308.2 | 308.8 | 309.5 | 309.7 | 309.5 | 309.2 | 309.0 | 308.8 | 308.2 | 307.7 |
| 130°   | 324.4 | 325.2 | 326.0 | 326.8 | 327.0 | 326.7 | 326.4 | 326.1 | 325.8 | 325.4 | 325.0 |
| 132.5° | 341.0 | 341.9 | 342.7 | 343.5 | 343.8 | 343.5 | 343.3 | 343.1 | 342.9 | 342.4 | 341.9 |
| 135°   | 366.3 | 366.9 | 367.5 | 368.1 | 368.4 | 368.3 | 368.2 | 368.1 | 368.0 | 367.6 | 367.2 |
| 137.5° | 389.8 | 390.3 | 390.8 | 391.3 | 391.7 | 391.9 | 392.2 | 392.5 | 392.7 | 392.3 | 391.9 |
| 140°   | 406.1 | 406.6 | 407.1 | 407.6 | 407.9 | 408.0 | 408.1 | 408.2 | 408.3 | 408.2 | 408.1 |
| 142.5° | 421.0 | 421.5 | 422.0 | 422.5 | 422.8 | 423.0 | 423.2 | 423.4 | 423.5 | 423.4 | 423.3 |
| 145°   | 443.9 | 444.1 | 444.3 | 444.5 | 444.7 | 445.0 | 445.3 | 445.6 | 445.9 | 445.8 | 445.7 |
| 147.5° | 464.3 | 464.7 | 465.0 | 465.4 | 465.7 | 466.0 | 466.3 | 466.6 | 466.9 | 466.9 | 466.9 |
| 150°   | 478.3 | 478.5 | 478.7 | 478.9 | 479.1 | 479.3 | 479.5 | 479.7 | 479.9 | 479.9 | 479.9 |
| 152.5° | 490.0 | 490.3 | 490.5 | 490.8 | 491.0 | 491.1 | 491.3 | 491.4 | 491.5 | 491.7 | 491.8 |
| 155°   | 508.0 | 508.0 | 508.0 | 508.0 | 508.1 | 508.2 | 508.3 | 508.4 | 508.5 | 508.9 | 509.3 |
| 157.5° | 523.5 | 523.4 | 523.2 | 523.1 | 523.1 | 523.2 | 523.3 | 523.3 | 523.4 | 523.8 | 524.3 |
| 160°   | 533.2 | 533.0 | 532.8 | 532.6 | 532.5 | 532.5 | 532.5 | 532.5 | 532.5 | 533.0 | 533.5 |
| 162.5° | 541.8 | 541.5 | 541.2 | 541.0 | 540.9 | 540.9 | 541.0 | 541.1 | 541.2 | 541.7 | 542.2 |
| 165°   | 553.0 | 552.7 | 552.4 | 552.1 | 552.0 | 552.0 | 552.0 | 552.0 | 552.0 | 552.6 | 553.2 |
| 167.5° | 561.9 | 561.5 | 561.1 | 560.7 | 560.5 | 560.6 | 560.7 | 560.8 | 560.8 | 561.5 | 562.1 |
| 170°   | 567.0 | 566.6 | 566.2 | 565.8 | 565.6 | 565.6 | 565.6 | 565.6 | 565.6 | 566.3 | 567.0 |
| 172.5° | 571.0 | 570.6 | 570.2 | 569.7 | 569.5 | 569.5 | 569.5 | 569.5 | 569.5 | 570.2 | 570.8 |
| 175°   | 575.1 | 574.7 | 574.3 | 573.9 | 573.7 | 573.7 | 573.7 | 573.7 | 573.7 | 574.3 | 574.9 |
| 177.5° | 576.9 | 576.6 | 576.3 | 576.0 | 575.8 | 575.8 | 575.8 | 575.8 | 575.8 | 576.3 | 576.8 |
| 180°   | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 |



TEST NUMBER: P332411

CATALOG NUMBER: S123RDIW-S560D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 894.7  | 894.7  | 894.7  | 894.7  | 894.7  | 894.7  | 894.7  |
| 2.5°   | 943.8  | 943.8  | 945.0  | 949.6  | 950.2  | 954.2  | 952.9  |
| 5°     | 1037.2 | 1044.5 | 1047.2 | 1058.7 | 1065.6 | 1068.6 | 1062.5 |
| 7.5°   | 1151.5 | 1172.0 | 1181.8 | 1193.8 | 1204.4 | 1207.7 | 1199.3 |
| 10°    | 1234.9 | 1256.3 | 1274.3 | 1285.4 | 1295.8 | 1302.6 | 1311.5 |
| 12.5°  | 1315.4 | 1341.8 | 1358.9 | 1374.6 | 1385.2 | 1394.0 | 1395.4 |
| 15°    | 1403.0 | 1442.8 | 1473.1 | 1495.3 | 1506.4 | 1512.2 | 1509.9 |
| 17.5°  | 1491.3 | 1528.2 | 1549.8 | 1572.4 | 1587.8 | 1588.6 | 1589.1 |
| 20°    | 1541.3 | 1577.3 | 1602.2 | 1619.0 | 1636.3 | 1635.5 | 1639.3 |
| 22.5°  | 1574.7 | 1603.0 | 1622.1 | 1634.3 | 1640.2 | 1637.3 | 1638.1 |
| 25°    | 1590.3 | 1598.7 | 1595.3 | 1575.7 | 1570.8 | 1552.8 | 1555.8 |
| 27.5°  | 1509.7 | 1469.9 | 1428.7 | 1375.6 | 1333.8 | 1300.4 | 1302.1 |
| 30°    | 1400.3 | 1329.8 | 1249.4 | 1182.0 | 1121.5 | 1104.6 | 1068.6 |
| 32.5°  | 1247.4 | 1141.7 | 1047.5 | 984.7  | 932.7  | 918.6  | 887.2  |
| 35°    | 988.2  | 885.5  | 788.6  | 730.4  | 707.4  | 675.3  | 674.9  |
| 37.5°  | 768.1  | 677.7  | 626.5  | 582.8  | 559.9  | 540.4  | 538.5  |
| 40°    | 646.2  | 575.7  | 537.0  | 505.6  | 483.0  | 468.4  | 465.0  |
| 42.5°  | 561.0  | 504.0  | 467.7  | 448.3  | 430.9  | 423.4  | 417.8  |
| 45°    | 458.1  | 419.8  | 394.5  | 376.9  | 368.8  | 363.1  | 360.0  |
| 47.5°  | 383.2  | 357.5  | 340.3  | 328.6  | 322.0  | 316.0  | 317.6  |
| 50°    | 342.4  | 321.4  | 308.7  | 297.6  | 292.6  | 288.4  | 288.8  |
| 52.5°  | 309.6  | 290.7  | 280.5  | 272.5  | 266.3  | 263.3  | 261.8  |
| 55°    | 262.8  | 250.9  | 240.5  | 234.8  | 231.3  | 227.1  | 226.0  |
| 57.5°  | 224.1  | 214.9  | 206.5  | 200.0  | 199.2  | 195.1  | 195.6  |
| 60°    | 198.4  | 190.7  | 183.8  | 180.4  | 177.7  | 174.3  | 175.4  |
| 62.5°  | 177.3  | 170.8  | 164.5  | 161.7  | 159.0  | 156.5  | 157.0  |
| 65°    | 145.2  | 139.0  | 135.2  | 133.7  | 132.5  | 131.4  | 130.2  |
| 67.5°  | 115.7  | 111.9  | 109.5  | 106.2  | 103.9  | 103.5  | 102.3  |
| 70°    | 97.3   | 92.3   | 88.1   | 83.9   | 82.7   | 82.3   | 82.7   |
| 72.5°  | 78.0   | 74.8   | 73.7   | 71.6   | 71.4   | 70.4   | 71.1   |
| 75°    | 58.6   | 57.5   | 56.7   | 55.2   | 55.2   | 55.2   | 55.2   |
| 77.5°  | 43.2   | 42.5   | 42.1   | 41.7   | 41.4   | 40.8   | 40.8   |
| 80°    | 33.7   | 33.3   | 32.6   | 32.6   | 32.2   | 32.6   | 32.2   |
| 82.5°  | 25.4   | 25.4   | 24.6   | 24.6   | 24.2   | 24.0   | 24.2   |
| 85°    | 13.0   | 12.6   | 13.4   | 12.6   | 13.0   | 12.3   | 13.0   |
| 87.5°  | 6.1    | 6.2    | 5.9    | 6.0    | 5.7    | 6.4    | 5.8    |
| 90°    | 12.1   | 12.5   | 12.8   | 13.0   | 13.2   | 13.4   | 13.6   |
| 92.5°  | 18.4   | 18.7   | 18.8   | 18.7   | 18.5   | 18.4   | 18.3   |
| 95°    | 34.7   | 35.1   | 35.3   | 35.3   | 35.3   | 35.3   | 35.3   |
| 97.5°  | 53.9   | 54.3   | 54.5   | 54.5   | 54.5   | 54.4   | 54.4   |
| 100°   | 67.5   | 67.8   | 68.1   | 68.3   | 68.5   | 68.7   | 68.9   |
| 102.5° | 83.5   | 83.8   | 83.9   | 83.9   | 83.8   | 83.8   | 83.7   |
| 105°   | 106.9  | 106.9  | 107.0  | 107.3  | 107.5  | 107.7  | 107.9  |
| 107.5° | 133.0  | 133.3  | 133.4  | 133.3  | 133.2  | 133.1  | 133.0  |
| 110°   | 150.3  | 150.7  | 150.8  | 150.6  | 150.4  | 150.2  | 150.0  |



TEST NUMBER: P332411

CATALOG NUMBER: S123RDIW-S560D460U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 335°  | 340°  | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 167.6 | 168.1 | 168.3 | 168.2 | 168.2 | 168.2 | 168.1 |
| 115°   | 193.4 | 193.5 | 193.5 | 193.4 | 193.3 | 193.2 | 193.1 |
| 117.5° | 219.6 | 219.6 | 219.5 | 219.2 | 218.9 | 218.6 | 218.3 |
| 120°   | 237.2 | 237.1 | 236.9 | 236.7 | 236.5 | 236.3 | 236.1 |
| 122.5° | 254.8 | 254.5 | 254.3 | 254.0 | 253.7 | 253.4 | 253.1 |
| 125°   | 281.1 | 280.7 | 280.3 | 279.9 | 279.5 | 279.1 | 278.7 |
| 127.5° | 307.1 | 306.5 | 306.0 | 305.6 | 305.1 | 304.6 | 304.2 |
| 130°   | 324.6 | 324.2 | 323.7 | 323.0 | 322.3 | 321.6 | 320.8 |
| 132.5° | 341.4 | 340.9 | 340.4 | 339.9 | 339.3 | 338.8 | 338.2 |
| 135°   | 366.8 | 366.4 | 366.1 | 365.9 | 365.7 | 365.5 | 365.3 |
| 137.5° | 391.5 | 391.0 | 390.6 | 390.2 | 389.9 | 389.5 | 389.1 |
| 140°   | 408.0 | 407.9 | 407.5 | 406.8 | 406.1 | 405.4 | 404.7 |
| 142.5° | 423.2 | 423.1 | 422.8 | 422.3 | 421.7 | 421.2 | 420.6 |
| 145°   | 445.6 | 445.5 | 445.3 | 444.9 | 444.5 | 444.1 | 443.7 |
| 147.5° | 466.9 | 466.9 | 466.6 | 466.0 | 465.3 | 464.7 | 464.1 |
| 150°   | 479.9 | 479.9 | 479.6 | 479.0 | 478.4 | 477.8 | 477.2 |
| 152.5° | 492.0 | 492.2 | 492.0 | 491.5 | 490.9 | 490.4 | 489.9 |
| 155°   | 509.7 | 510.1 | 509.9 | 509.2 | 508.5 | 507.8 | 507.1 |
| 157.5° | 524.7 | 525.1 | 525.0 | 524.5 | 523.9 | 523.3 | 522.8 |
| 160°   | 534.0 | 534.5 | 534.5 | 534.1 | 533.7 | 533.3 | 532.9 |
| 162.5° | 542.7 | 543.2 | 543.1 | 542.5 | 541.8 | 541.2 | 540.5 |
| 165°   | 553.8 | 554.4 | 554.3 | 553.6 | 552.9 | 552.2 | 551.5 |
| 167.5° | 562.7 | 563.3 | 563.3 | 562.7 | 562.1 | 561.5 | 560.8 |
| 170°   | 567.7 | 568.4 | 568.4 | 567.7 | 567.0 | 566.3 | 565.6 |
| 172.5° | 571.4 | 572.0 | 572.0 | 571.3 | 570.6 | 569.9 | 569.2 |
| 175°   | 575.5 | 576.1 | 576.1 | 575.4 | 574.7 | 574.0 | 573.3 |
| 177.5° | 577.3 | 577.7 | 577.7 | 577.1 | 576.6 | 576.0 | 575.4 |
| 180°   | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 | 576.9 |

(END OF REPORT)