

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: P332628

Luminaire Tested: **SA4XXDIP-C1020D365U835-4F0-1E-UDD-D**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332628  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-C1020D365U835-4F0-1E-UDD-D  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 365 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

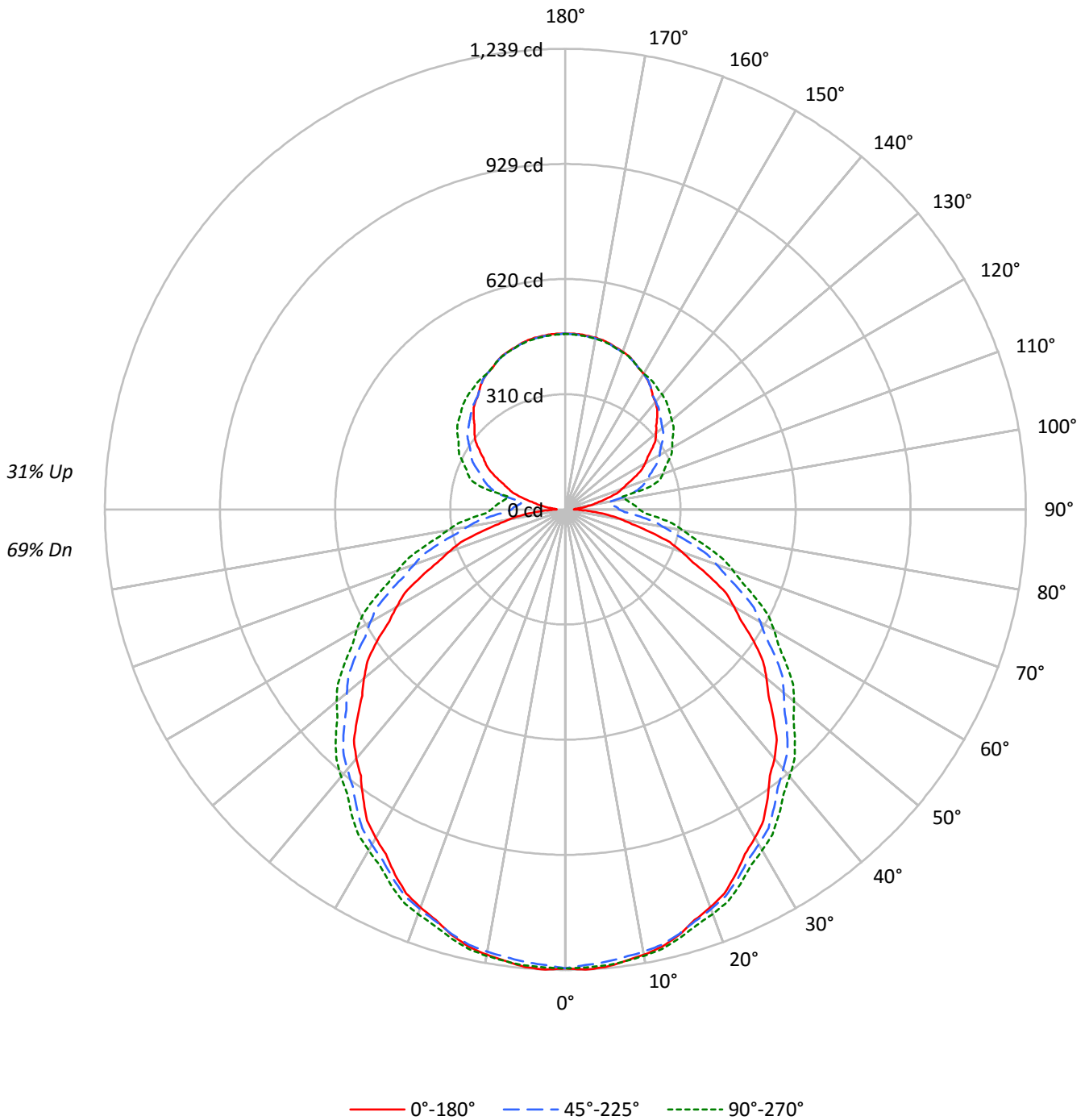
Lumens per Lamp: N/A  
Luminaire Lumens: 5671.8 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

Input Watts (W): 43.5  
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



TEST NUMBER: P332628  
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### Luminous Intensity Polar Plot





TEST NUMBER: P332628

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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 | 50 | 30 | 10 | 0  |   |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| 0   | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 105 | 94 | 94 | 94 | 83 | 83 | 83 | 73 | 73 | 73 | 69 |    |    |    |   |
| 1   | 101 | 96  | 91  | 87  | 95  | 90  | 86  | 83  | 80 | 77 | 74 | 71 | 69 | 66 | 63 | 61 | 59 | 55 |    |    |    |   |
| 2   | 91  | 83  | 76  | 70  | 85  | 78  | 72  | 67  | 69 | 65 | 60 | 62 | 58 | 54 | 54 | 51 | 49 | 45 |    |    |    |   |
| 3   | 83  | 72  | 64  | 58  | 78  | 68  | 61  | 55  | 61 | 55 | 50 | 54 | 49 | 45 | 48 | 44 | 41 | 37 |    |    |    |   |
| 4   | 75  | 64  | 55  | 48  | 71  | 60  | 52  | 46  | 54 | 47 | 42 | 48 | 43 | 39 | 42 | 38 | 35 | 32 |    |    |    |   |
| 5   | 69  | 57  | 48  | 41  | 65  | 54  | 46  | 40  | 48 | 41 | 36 | 43 | 37 | 33 | 38 | 34 | 30 | 27 |    |    |    |   |
| 6   | 64  | 51  | 42  | 36  | 60  | 48  | 40  | 34  | 43 | 37 | 32 | 39 | 33 | 29 | 34 | 30 | 26 | 24 |    |    |    |   |
| 7   | 59  | 46  | 37  | 31  | 55  | 44  | 36  | 30  | 39 | 33 | 28 | 35 | 30 | 26 | 31 | 27 | 23 | 21 |    |    |    |   |
| 8   | 55  | 42  | 33  | 28  | 51  | 40  | 32  | 27  | 36 | 29 | 25 | 32 | 27 | 23 | 29 | 24 | 21 | 19 |    |    |    |   |
| 9   | 51  | 38  | 30  | 25  | 48  | 36  | 29  | 24  | 33 | 26 | 22 | 30 | 24 | 20 | 26 | 22 | 19 | 17 |    |    |    |   |
| 10  | 48  | 35  | 27  | 22  | 45  | 33  | 26  | 21  | 30 | 24 | 20 | 27 | 22 | 18 | 25 | 20 | 17 | 15 |    |    |    |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9968 | 9968 | 9968 |
| 5°  | 9998 | 9741 | 9769 |
| 10° | 9937 | 9582 | 9575 |
| 15° | 9848 | 9397 | 9346 |
| 20° | 9714 | 9194 | 9123 |
| 25° | 9563 | 8966 | 8879 |
| 30° | 9399 | 8739 | 8627 |
| 35° | 9213 | 8507 | 8407 |
| 40° | 9065 | 8285 | 8178 |
| 45° | 8844 | 8081 | 7981 |
| 50° | 8658 | 7846 | 7773 |
| 55° | 8466 | 7625 | 7529 |
| 60° | 8166 | 7342 | 7306 |
| 65° | 7837 | 7040 | 7032 |
| 70° | 7439 | 6694 | 6714 |
| 75° | 6882 | 6312 | 6425 |
| 80° | 6266 | 5946 | 6141 |
| 85° | 5484 | 5623 | 5977 |



TEST NUMBER: P332628

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 116.9  | 2.1       |
| 10°-20°   | 335.0  | 5.9       |
| 20°-30°   | 506.5  | 8.9       |
| 30°-40°   | 612.9  | 10.8      |
| 40°-50°   | 647.9  | 11.4      |
| 50°-60°   | 609.8  | 10.8      |
| 60°-70°   | 505.9  | 8.9       |
| 70°-80°   | 355.4  | 6.3       |
| 80°-90°   | 202.3  | 3.6       |
| 90°-100°  | 135.4  | 2.4       |
| 100°-110° | 191.3  | 3.4       |
| 110°-120° | 256.4  | 4.5       |
| 120°-130° | 283.7  | 5.0       |
| 130°-140° | 282.2  | 5.0       |
| 140°-150° | 253.3  | 4.5       |
| 150°-160° | 201.9  | 3.6       |
| 160°-170° | 130.2  | 2.3       |
| 170°-180° | 44.9   | 0.8       |
| 0°-30°    | 958.4  | 16.9      |
| 0°-40°    | 1571.3 | 27.7      |
| 0°-60°    | 2829.0 | 49.9      |
| 0°-90°    | 3892.5 | 68.6      |
| 90°-120°  | 583.2  | 10.3      |
| 90°-150°  | 1402.3 | 24.7      |
| 90°-180°  | 1779.0 | 31.4      |
| 0°-180°   | 5671.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1235 | 1235  | 1235 | 1235  | 1235 |      |
| 5°   | 1236 | 1232  | 1222 | 1233  | 1232 | 117  |
| 15°  | 1185 | 1186  | 1182 | 1194  | 1193 | 334  |
| 25°  | 1084 | 1092  | 1096 | 1111  | 1113 | 499  |
| 35°  | 948  | 965   | 979  | 997   | 1002 | 594  |
| 45°  | 791  | 817   | 843  | 866   | 874  | 611  |
| 55°  | 619  | 649   | 690  | 716   | 726  | 552  |
| 65°  | 429  | 473   | 520  | 553   | 566  | 425  |
| 75°  | 238  | 289   | 347  | 384   | 398  | 253  |
| 85°  | 73   | 132   | 194  | 234   | 249  | 78   |
| 90°  | 23   | 83    | 145  | 185   | 199  | 15   |
| 95°  | 37   | 72    | 128  | 166   | 180  | 39   |
| 105° | 119  | 150   | 202  | 237   | 238  | 125  |
| 115° | 207  | 222   | 264  | 294   | 305  | 204  |
| 125° | 285  | 287   | 319  | 345   | 355  | 254  |
| 135° | 349  | 349   | 360  | 382   | 392  | 269  |
| 145° | 401  | 400   | 400  | 409   | 415  | 250  |
| 155° | 438  | 438   | 437  | 438   | 438  | 202  |
| 165° | 462  | 460   | 460  | 463   | 460  | 130  |
| 175° | 472  | 470   | 471  | 474   | 470  | 45   |
| 180° | 472  | 472   | 472  | 472   | 472  |      |



TEST NUMBER: P332628

CATALOG NUMBER: SA4XXDIP-C1020D365U835-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1234.7 | 1234.7 | 1234.7 | 1234.7 | 1234.7 | 1234.7 | 1234.7 | 1234.7 | 1234.7 | 1234.7 | 1234.7 |
| 2.5°   | 1239.1 | 1238.4 | 1237.6 | 1236.9 | 1236.1 | 1234.8 | 1232.8 | 1230.9 | 1228.9 | 1226.9 | 1228.6 |
| 5°     | 1236.0 | 1235.1 | 1234.2 | 1233.3 | 1232.4 | 1230.8 | 1228.7 | 1226.5 | 1224.4 | 1222.2 | 1224.7 |
| 7.5°   | 1225.5 | 1225.0 | 1224.4 | 1223.9 | 1223.3 | 1222.2 | 1220.4 | 1218.6 | 1216.8 | 1215.0 | 1217.8 |
| 10°    | 1216.7 | 1216.4 | 1216.1 | 1215.8 | 1215.5 | 1214.5 | 1213.0 | 1211.5 | 1209.9 | 1208.4 | 1211.2 |
| 12.5°  | 1204.5 | 1204.5 | 1204.4 | 1204.3 | 1204.3 | 1203.7 | 1202.7 | 1201.6 | 1200.6 | 1199.5 | 1202.1 |
| 15°    | 1184.9 | 1185.2 | 1185.5 | 1185.8 | 1186.1 | 1185.8 | 1184.9 | 1184.0 | 1183.0 | 1182.1 | 1184.9 |
| 17.5°  | 1158.1 | 1159.0 | 1159.9 | 1160.8 | 1161.8 | 1162.1 | 1161.9 | 1161.8 | 1161.6 | 1161.4 | 1164.2 |
| 20°    | 1139.3 | 1140.2 | 1141.1 | 1142.0 | 1143.0 | 1143.6 | 1143.9 | 1144.2 | 1144.5 | 1144.8 | 1147.9 |
| 22.5°  | 1118.2 | 1119.4 | 1120.6 | 1121.8 | 1122.9 | 1123.8 | 1124.3 | 1124.9 | 1125.4 | 1126.0 | 1129.1 |
| 25°    | 1084.0 | 1085.8 | 1087.6 | 1089.5 | 1091.3 | 1092.7 | 1093.6 | 1094.6 | 1095.5 | 1096.4 | 1099.8 |
| 27.5°  | 1045.8 | 1048.5 | 1051.2 | 1053.9 | 1056.6 | 1058.7 | 1060.1 | 1061.5 | 1062.9 | 1064.3 | 1067.5 |
| 30°    | 1020.4 | 1022.8 | 1025.3 | 1027.7 | 1030.2 | 1032.5 | 1034.6 | 1036.8 | 1038.9 | 1041.1 | 1044.5 |
| 32.5°  | 992.7  | 995.7  | 998.6  | 1001.6 | 1004.5 | 1007.2 | 1009.6 | 1012.0 | 1014.4 | 1016.8 | 1020.6 |
| 35°    | 948.5  | 952.2  | 955.8  | 959.5  | 963.2  | 966.6  | 969.7  | 972.7  | 975.8  | 978.9  | 983.2  |
| 37.5°  | 903.9  | 908.2  | 912.4  | 916.7  | 920.9  | 924.9  | 928.7  | 932.5  | 936.4  | 940.2  | 944.5  |
| 40°    | 875.2  | 879.2  | 883.2  | 887.2  | 891.2  | 895.3  | 899.6  | 903.9  | 908.2  | 912.5  | 917.1  |
| 42.5°  | 842.0  | 846.5  | 851.0  | 855.5  | 859.9  | 864.7  | 869.7  | 874.8  | 879.8  | 884.9  | 890.0  |
| 45°    | 790.8  | 796.7  | 802.5  | 808.4  | 814.2  | 820.0  | 825.9  | 831.7  | 837.5  | 843.4  | 848.6  |
| 47.5°  | 741.9  | 747.9  | 753.9  | 760.0  | 766.0  | 772.4  | 779.1  | 785.9  | 792.7  | 799.4  | 804.8  |
| 50°    | 706.5  | 713.3  | 720.0  | 726.8  | 733.5  | 740.3  | 747.1  | 753.8  | 760.6  | 767.3  | 773.5  |
| 52.5°  | 671.1  | 677.9  | 684.6  | 691.4  | 698.2  | 705.4  | 713.1  | 720.9  | 728.6  | 736.4  | 742.5  |
| 55°    | 619.4  | 625.9  | 632.3  | 638.8  | 645.2  | 653.0  | 662.3  | 671.5  | 680.7  | 689.9  | 696.1  |
| 57.5°  | 561.6  | 569.6  | 577.6  | 585.6  | 593.6  | 602.1  | 611.3  | 620.5  | 629.6  | 638.8  | 646.1  |
| 60°    | 524.0  | 532.0  | 540.0  | 548.0  | 556.0  | 565.0  | 575.2  | 585.3  | 595.4  | 605.6  | 612.6  |
| 62.5°  | 487.5  | 496.2  | 505.0  | 513.7  | 522.4  | 531.8  | 542.0  | 552.1  | 562.3  | 572.4  | 579.5  |
| 65°    | 428.6  | 438.4  | 448.3  | 458.1  | 467.9  | 478.1  | 488.5  | 499.0  | 509.4  | 519.9  | 527.5  |
| 67.5°  | 371.9  | 382.4  | 392.8  | 403.3  | 413.7  | 424.5  | 435.7  | 446.9  | 458.1  | 469.3  | 477.1  |
| 70°    | 333.2  | 343.7  | 354.1  | 364.5  | 375.0  | 386.1  | 397.7  | 409.4  | 421.1  | 432.8  | 441.1  |
| 72.5°  | 295.6  | 306.3  | 317.0  | 327.7  | 338.4  | 349.9  | 362.3  | 374.7  | 387.2  | 399.6  | 407.6  |
| 75°    | 237.8  | 249.2  | 260.5  | 271.9  | 283.3  | 295.4  | 308.3  | 321.2  | 334.1  | 347.0  | 355.6  |
| 77.5°  | 183.9  | 195.9  | 208.0  | 220.0  | 232.1  | 244.8  | 258.4  | 271.9  | 285.4  | 298.9  | 307.6  |
| 80°    | 150.7  | 163.0  | 175.3  | 187.6  | 199.9  | 212.8  | 226.3  | 239.8  | 253.3  | 266.8  | 276.1  |
| 82.5°  | 117.5  | 130.3  | 143.1  | 155.9  | 168.6  | 181.8  | 195.3  | 208.8  | 222.4  | 235.9  | 245.3  |
| 85°    | 73.3   | 86.2   | 99.1   | 112.0  | 124.9  | 138.3  | 152.1  | 165.9  | 179.7  | 193.6  | 202.8  |
| 87.5°  | 41.1   | 53.8   | 66.6   | 79.3   | 92.0   | 105.1  | 118.7  | 132.3  | 145.9  | 159.4  | 168.5  |
| 90°    | 23.2   | 36.3   | 49.5   | 62.6   | 75.8   | 89.3   | 103.1  | 117.0  | 130.8  | 144.7  | 154.0  |
| 92.5°  | 25.5   | 36.6   | 47.7   | 58.8   | 69.9   | 82.4   | 96.2   | 110.1  | 123.9  | 137.7  | 146.9  |
| 95°    | 37.4   | 44.9   | 52.3   | 59.8   | 67.3   | 77.4   | 90.0   | 102.7  | 115.4  | 128.1  | 136.8  |
| 97.5°  | 57.6   | 68.0   | 78.4   | 88.8   | 99.2   | 106.2  | 109.9  | 113.6  | 117.3  | 121.0  | 129.1  |
| 100°   | 73.2   | 82.6   | 92.0   | 101.4  | 110.8  | 116.0  | 117.2  | 118.3  | 119.5  | 120.6  | 127.6  |
| 102.5° | 91.8   | 99.9   | 107.9  | 116.0  | 124.0  | 133.2  | 143.5  | 153.8  | 164.1  | 174.5  | 168.1  |
| 105°   | 118.8  | 125.4  | 132.1  | 138.7  | 145.3  | 154.5  | 166.2  | 178.0  | 189.8  | 201.5  | 209.9  |
| 107.5° | 146.2  | 151.5  | 156.7  | 162.0  | 167.3  | 175.6  | 186.8  | 198.1  | 209.4  | 220.7  | 228.6  |
| 110°   | 163.7  | 168.3  | 172.8  | 177.3  | 181.9  | 189.8  | 201.0  | 212.2  | 223.4  | 234.7  | 241.9  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 180.7 | 185.0 | 189.2 | 193.4 | 197.7 | 205.0 | 215.5 | 226.0 | 236.5 | 246.9 | 253.7 |
| 115°   | 206.9 | 209.9 | 212.9 | 215.9 | 218.9 | 225.3 | 235.0 | 244.8 | 254.6 | 264.3 | 271.2 |
| 117.5° | 231.7 | 233.7 | 235.7 | 237.6 | 239.6 | 245.3 | 254.6 | 263.9 | 273.3 | 282.6 | 288.9 |
| 120°   | 247.6 | 248.8 | 250.1 | 251.3 | 252.5 | 257.6 | 266.4 | 275.2 | 284.1 | 292.9 | 299.2 |
| 122.5° | 263.4 | 263.8 | 264.2 | 264.5 | 264.9 | 269.4 | 277.9 | 286.4 | 294.9 | 303.5 | 309.7 |
| 125°   | 284.7 | 284.7 | 284.7 | 284.7 | 284.8 | 288.5 | 296.0 | 303.6 | 311.1 | 318.6 | 324.7 |
| 127.5° | 305.9 | 305.7 | 305.5 | 305.3 | 305.0 | 308.0 | 314.3 | 320.6 | 326.8 | 333.1 | 338.6 |
| 130°   | 318.7 | 318.5 | 318.2 | 318.0 | 317.8 | 320.2 | 325.4 | 330.5 | 335.7 | 340.8 | 346.4 |
| 132.5° | 331.4 | 331.2 | 331.1 | 330.9 | 330.7 | 332.8 | 337.0 | 341.2 | 345.5 | 349.7 | 355.1 |
| 135°   | 349.1 | 349.0 | 349.0 | 348.9 | 348.8 | 350.0 | 352.5 | 354.9 | 357.4 | 359.8 | 364.9 |
| 137.5° | 366.0 | 365.7 | 365.5 | 365.2 | 364.9 | 365.5 | 366.8 | 368.2 | 369.6 | 371.0 | 375.7 |
| 140°   | 377.0 | 376.9 | 376.7 | 376.6 | 376.4 | 376.6 | 377.1 | 377.5 | 378.0 | 378.4 | 382.7 |
| 142.5° | 385.8 | 386.0 | 386.3 | 386.5 | 386.7 | 386.8 | 386.7 | 386.6 | 386.5 | 386.4 | 390.1 |
| 145°   | 400.7 | 400.7 | 400.6 | 400.5 | 400.5 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 402.3 |
| 147.5° | 412.8 | 413.0 | 413.1 | 413.2 | 413.4 | 413.4 | 413.3 | 413.2 | 413.1 | 413.1 | 413.4 |
| 150°   | 421.6 | 421.6 | 421.6 | 421.6 | 421.6 | 421.6 | 421.5 | 421.4 | 421.3 | 421.3 | 421.3 |
| 152.5° | 427.8 | 428.0 | 428.2 | 428.4 | 428.6 | 428.6 | 428.5 | 428.3 | 428.2 | 428.1 | 428.2 |
| 155°   | 437.9 | 438.0 | 438.0 | 438.1 | 438.2 | 438.1 | 437.9 | 437.6 | 437.4 | 437.2 | 437.5 |
| 157.5° | 446.6 | 446.5 | 446.5 | 446.4 | 446.4 | 446.2 | 446.0 | 445.7 | 445.4 | 445.2 | 445.6 |
| 160°   | 451.7 | 451.4 | 451.2 | 451.0 | 450.7 | 450.6 | 450.5 | 450.4 | 450.3 | 450.2 | 450.7 |
| 162.5° | 456.2 | 455.9 | 455.6 | 455.3 | 455.0 | 454.8 | 454.7 | 454.6 | 454.6 | 454.5 | 455.0 |
| 165°   | 461.9 | 461.5 | 461.1 | 460.7 | 460.3 | 460.1 | 460.1 | 460.1 | 460.1 | 460.1 | 460.8 |
| 167.5° | 466.4 | 466.0 | 465.6 | 465.2 | 464.8 | 464.6 | 464.5 | 464.5 | 464.4 | 464.4 | 465.1 |
| 170°   | 469.0 | 468.5 | 468.0 | 467.6 | 467.1 | 466.9 | 467.0 | 467.1 | 467.1 | 467.2 | 467.8 |
| 172.5° | 470.7 | 470.2 | 469.7 | 469.3 | 468.8 | 468.6 | 468.7 | 468.8 | 468.8 | 468.9 | 469.5 |
| 175°   | 472.5 | 472.0 | 471.6 | 471.1 | 470.6 | 470.4 | 470.5 | 470.6 | 470.7 | 470.7 | 471.5 |
| 177.5° | 473.4 | 472.9 | 472.5 | 472.0 | 471.6 | 471.4 | 471.6 | 471.7 | 471.8 | 471.9 | 472.5 |
| 180°   | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 |



TEST NUMBER: P332628

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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1234.7 | 1234.7 | 1234.7 | 1234.7 | 1234.7 | 1234.7 | 1234.7 | 1234.7 |
| 2.5°   | 1230.4 | 1232.1 | 1233.8 | 1234.5 | 1234.3 | 1234.0 | 1233.8 | 1233.6 |
| 5°     | 1227.1 | 1229.6 | 1232.1 | 1233.1 | 1232.8 | 1232.5 | 1232.2 | 1231.9 |
| 7.5°   | 1220.6 | 1223.3 | 1226.1 | 1227.3 | 1227.0 | 1226.7 | 1226.4 | 1226.1 |
| 10°    | 1213.9 | 1216.7 | 1219.5 | 1220.7 | 1220.4 | 1220.1 | 1219.8 | 1219.5 |
| 12.5°  | 1204.6 | 1207.1 | 1209.6 | 1210.9 | 1210.8 | 1210.7 | 1210.7 | 1210.6 |
| 15°    | 1187.7 | 1190.4 | 1193.2 | 1194.4 | 1194.1 | 1193.8 | 1193.5 | 1193.2 |
| 17.5°  | 1167.0 | 1169.9 | 1172.7 | 1174.0 | 1173.7 | 1173.5 | 1173.2 | 1173.0 |
| 20°    | 1150.9 | 1154.0 | 1157.1 | 1158.6 | 1158.6 | 1158.6 | 1158.6 | 1158.6 |
| 22.5°  | 1132.1 | 1135.2 | 1138.3 | 1140.1 | 1140.6 | 1141.0 | 1141.5 | 1142.0 |
| 25°    | 1103.2 | 1106.5 | 1109.9 | 1111.8 | 1112.1 | 1112.4 | 1112.7 | 1113.0 |
| 27.5°  | 1070.6 | 1073.7 | 1076.9 | 1078.6 | 1079.0 | 1079.4 | 1079.7 | 1080.1 |
| 30°    | 1047.9 | 1051.2 | 1054.6 | 1056.6 | 1057.2 | 1057.8 | 1058.5 | 1059.1 |
| 32.5°  | 1024.5 | 1028.4 | 1032.3 | 1034.5 | 1035.1 | 1035.7 | 1036.3 | 1037.0 |
| 35°    | 987.5  | 991.8  | 996.1  | 998.7  | 999.6  | 1000.5 | 1001.5 | 1002.4 |
| 37.5°  | 948.9  | 953.3  | 957.6  | 960.3  | 961.3  | 962.3  | 963.2  | 964.2  |
| 40°    | 921.7  | 926.3  | 931.0  | 933.9  | 935.1  | 936.3  | 937.6  | 938.8  |
| 42.5°  | 895.1  | 900.2  | 905.3  | 908.3  | 909.3  | 910.3  | 911.3  | 912.2  |
| 45°    | 853.8  | 859.1  | 864.3  | 867.7  | 869.2  | 870.7  | 872.3  | 873.8  |
| 47.5°  | 810.2  | 815.6  | 821.1  | 824.7  | 826.5  | 828.4  | 830.2  | 832.1  |
| 50°    | 779.6  | 785.8  | 791.9  | 795.9  | 797.8  | 799.6  | 801.4  | 803.3  |
| 52.5°  | 748.7  | 754.8  | 761.0  | 764.9  | 766.8  | 768.6  | 770.5  | 772.3  |
| 55°    | 702.2  | 708.4  | 714.5  | 718.5  | 720.3  | 722.2  | 724.0  | 725.9  |
| 57.5°  | 653.4  | 660.7  | 668.0  | 672.5  | 674.2  | 676.0  | 677.7  | 679.4  |
| 60°    | 619.7  | 626.8  | 633.8  | 638.6  | 641.1  | 643.5  | 646.0  | 648.4  |
| 62.5°  | 586.5  | 593.6  | 600.7  | 605.4  | 607.9  | 610.3  | 612.8  | 615.3  |
| 65°    | 535.2  | 542.9  | 550.6  | 555.7  | 558.1  | 560.6  | 563.0  | 565.5  |
| 67.5°  | 484.9  | 492.7  | 500.5  | 505.6  | 508.0  | 510.4  | 512.8  | 515.2  |
| 70°    | 449.3  | 457.6  | 465.9  | 471.2  | 473.3  | 475.5  | 477.6  | 479.8  |
| 72.5°  | 415.7  | 423.7  | 431.8  | 437.0  | 439.4  | 441.8  | 444.2  | 446.6  |
| 75°    | 364.2  | 372.8  | 381.4  | 387.1  | 389.9  | 392.7  | 395.4  | 398.2  |
| 77.5°  | 316.4  | 325.1  | 333.8  | 339.7  | 342.6  | 345.6  | 348.5  | 351.5  |
| 80°    | 285.3  | 294.5  | 303.7  | 309.5  | 312.0  | 314.5  | 316.9  | 319.4  |
| 82.5°  | 254.8  | 264.3  | 273.7  | 279.8  | 282.5  | 285.2  | 287.9  | 290.6  |
| 85°    | 212.0  | 221.2  | 230.4  | 236.6  | 239.7  | 242.7  | 245.8  | 248.9  |
| 87.5°  | 177.5  | 186.5  | 195.5  | 201.3  | 204.1  | 206.8  | 209.5  | 212.3  |
| 90°    | 163.4  | 172.8  | 182.2  | 188.2  | 190.8  | 193.4  | 196.0  | 198.6  |
| 92.5°  | 156.0  | 165.1  | 174.3  | 180.1  | 182.6  | 185.1  | 187.6  | 190.0  |
| 95°    | 145.6  | 154.4  | 163.1  | 168.9  | 171.8  | 174.6  | 177.5  | 180.3  |
| 97.5°  | 137.2  | 145.3  | 153.4  | 158.8  | 161.6  | 164.3  | 167.0  | 169.7  |
| 100°   | 134.5  | 141.5  | 148.5  | 153.1  | 155.3  | 157.5  | 159.8  | 162.0  |
| 102.5° | 161.8  | 155.4  | 149.1  | 147.1  | 149.5  | 151.9  | 154.3  | 156.7  |
| 105°   | 218.3  | 226.7  | 235.1  | 239.1  | 238.7  | 238.3  | 238.0  | 237.6  |
| 107.5° | 236.5  | 244.4  | 252.3  | 257.5  | 260.0  | 262.6  | 265.1  | 267.6  |
| 110°   | 249.1  | 256.3  | 263.6  | 268.5  | 271.2  | 273.9  | 276.6  | 279.3  |





TEST NUMBER: P332628

CATALOG NUMBER: SA4XXDIP-C1020D365U835-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 260.5 | 267.3 | 274.1 | 278.9 | 281.6 | 284.4 | 287.1 | 289.9 |
| 115°   | 278.1 | 285.1 | 292.0 | 296.5 | 298.7 | 300.8 | 303.0 | 305.1 |
| 117.5° | 295.3 | 301.7 | 308.0 | 312.4 | 314.8 | 317.3 | 319.7 | 322.1 |
| 120°   | 305.5 | 311.8 | 318.1 | 322.4 | 324.7 | 327.0 | 329.3 | 331.6 |
| 122.5° | 316.0 | 322.2 | 328.4 | 332.6 | 334.6 | 336.7 | 338.7 | 340.8 |
| 125°   | 330.8 | 336.8 | 342.9 | 346.9 | 348.8 | 350.8 | 352.7 | 354.6 |
| 127.5° | 344.0 | 349.5 | 355.0 | 358.8 | 360.8 | 362.8 | 364.8 | 366.9 |
| 130°   | 352.1 | 357.7 | 363.3 | 367.0 | 368.8 | 370.7 | 372.5 | 374.4 |
| 132.5° | 360.4 | 365.8 | 371.2 | 374.7 | 376.5 | 378.3 | 380.1 | 381.8 |
| 135°   | 370.0 | 375.1 | 380.1 | 383.7 | 385.7 | 387.7 | 389.7 | 391.7 |
| 137.5° | 380.3 | 385.0 | 389.7 | 392.7 | 394.2 | 395.7 | 397.2 | 398.7 |
| 140°   | 386.9 | 391.1 | 395.4 | 398.3 | 399.9 | 401.5 | 403.1 | 404.7 |
| 142.5° | 393.8 | 397.4 | 401.1 | 403.6 | 404.9 | 406.2 | 407.5 | 408.8 |
| 145°   | 404.3 | 406.2 | 408.1 | 409.8 | 411.1 | 412.5 | 413.9 | 415.3 |
| 147.5° | 413.7 | 414.0 | 414.3 | 415.0 | 416.1 | 417.1 | 418.2 | 419.2 |
| 150°   | 421.3 | 421.3 | 421.3 | 421.3 | 421.4 | 421.5 | 421.5 | 421.6 |
| 152.5° | 428.3 | 428.4 | 428.6 | 428.6 | 428.5 | 428.5 | 428.5 | 428.4 |
| 155°   | 437.8 | 438.1 | 438.4 | 438.5 | 438.2 | 438.0 | 437.8 | 437.5 |
| 157.5° | 446.0 | 446.4 | 446.8 | 446.8 | 446.4 | 446.0 | 445.6 | 445.2 |
| 160°   | 451.2 | 451.7 | 452.1 | 452.1 | 451.7 | 451.2 | 450.7 | 450.2 |
| 162.5° | 455.4 | 455.9 | 456.4 | 456.3 | 455.8 | 455.3 | 454.7 | 454.2 |
| 165°   | 461.4 | 462.0 | 462.7 | 462.6 | 461.9 | 461.2 | 460.5 | 459.8 |
| 167.5° | 465.8 | 466.5 | 467.1 | 467.1 | 466.3 | 465.5 | 464.7 | 464.0 |
| 170°   | 468.5 | 469.1 | 469.7 | 469.6 | 468.9 | 468.1 | 467.3 | 466.5 |
| 172.5° | 470.2 | 470.8 | 471.4 | 471.3 | 470.5 | 469.6 | 468.8 | 467.9 |
| 175°   | 472.2 | 472.9 | 473.6 | 473.5 | 472.5 | 471.6 | 470.6 | 469.7 |
| 177.5° | 473.0 | 473.5 | 474.0 | 473.8 | 473.1 | 472.3 | 471.6 | 470.8 |
| 180°   | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 |

(END OF REPORT)