

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: P332583-830

Luminaire Tested: **SA4XXDIP-C795D365U830-4F0-1E-UDD-D**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332583-830  
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-C795D365U830-4F0-1E-UDD-D  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 795 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 365 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

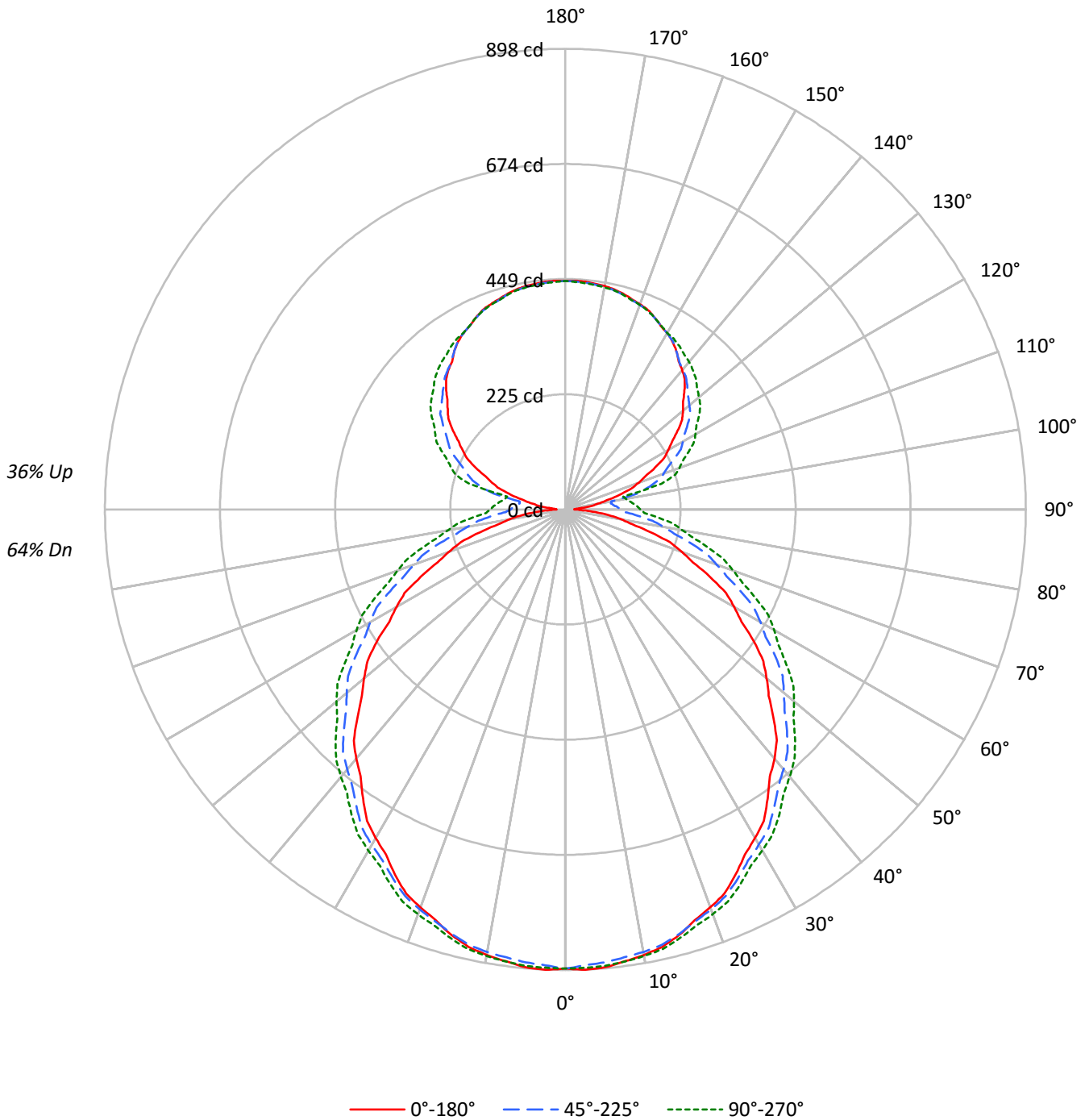
Lumens per Lamp: N/A  
Luminaire Lumens: 4430.9 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

Input Watts (W): 35  
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: P332583-830  
CATALOG NUMBER: SA4XXDIP-C795D365U830-4F0-1E-UDD-D

### Luminous Intensity Polar Plot





TEST NUMBER: P332583-830

CATALOG NUMBER: SA4XXDIP-C795D365U830-4F0-1E-UDD-D

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

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|----|
| RF  | 20  |     |     |     |     |     |     |     |    | 20 |    |    |    |    |    |    |    |    | 20 |    |    |    |    |    |    |    |    | 20 |    |    |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  | 20 |
| RC  | 80  |     |     |     |     |     |     |     |    | 50 |    |    |    |    |    |    |    |    | 30 |    |    |    |    |    |    |    |    | 10 |    |    |  |  |  |  |  |  | 0  |  |  |  |  |  |  |  |  | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 0   | 110 | 110 | 110 | 110 | 104 | 104 | 104 | 104 | 91 | 91 | 91 | 79 | 79 | 79 | 69 | 69 | 69 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 1   | 100 | 95  | 90  | 86  | 93  | 89  | 85  | 81  | 78 | 75 | 72 | 68 | 66 | 64 | 59 | 57 | 55 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 2   | 90  | 82  | 75  | 69  | 84  | 77  | 71  | 66  | 68 | 63 | 59 | 59 | 55 | 52 | 51 | 48 | 46 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 3   | 82  | 72  | 64  | 57  | 76  | 67  | 60  | 54  | 59 | 53 | 49 | 52 | 47 | 43 | 45 | 41 | 38 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 4   | 75  | 63  | 55  | 48  | 70  | 59  | 52  | 46  | 52 | 46 | 41 | 46 | 41 | 37 | 40 | 36 | 33 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 5   | 69  | 56  | 47  | 41  | 64  | 53  | 45  | 39  | 47 | 40 | 35 | 41 | 36 | 32 | 36 | 31 | 28 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 6   | 63  | 50  | 42  | 35  | 59  | 47  | 40  | 34  | 42 | 36 | 31 | 37 | 32 | 28 | 32 | 28 | 25 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 7   | 58  | 45  | 37  | 31  | 54  | 43  | 35  | 30  | 38 | 32 | 27 | 34 | 28 | 24 | 29 | 25 | 22 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 8   | 54  | 41  | 33  | 27  | 51  | 39  | 31  | 26  | 35 | 28 | 24 | 31 | 25 | 22 | 27 | 23 | 19 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 9   | 50  | 38  | 30  | 24  | 47  | 36  | 28  | 23  | 32 | 26 | 21 | 28 | 23 | 19 | 25 | 21 | 18 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 10  | 47  | 34  | 27  | 22  | 44  | 33  | 26  | 21  | 29 | 23 | 19 | 26 | 21 | 18 | 23 | 19 | 16 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7228 | 7228 | 7228 |
| 5°  | 7250 | 7064 | 7083 |
| 10° | 7205 | 6948 | 6943 |
| 15° | 7141 | 6814 | 6777 |
| 20° | 7044 | 6667 | 6616 |
| 25° | 6934 | 6501 | 6439 |
| 30° | 6815 | 6336 | 6256 |
| 35° | 6681 | 6168 | 6097 |
| 40° | 6573 | 6008 | 5930 |
| 45° | 6413 | 5859 | 5787 |
| 50° | 6278 | 5689 | 5636 |
| 55° | 6138 | 5529 | 5459 |
| 60° | 5920 | 5324 | 5298 |
| 65° | 5683 | 5104 | 5098 |
| 70° | 5394 | 4853 | 4868 |
| 75° | 4992 | 4579 | 4659 |
| 80° | 4540 | 4312 | 4453 |
| 85° | 3980 | 4075 | 4334 |



TEST NUMBER: P332583-830

CATALOG NUMBER: SA4XXDIP-C795D365U830-4F0-1E-UDD-D

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 84.8   | 1.9       |
| 10°-20°   | 242.9  | 5.5       |
| 20°-30°   | 367.3  | 8.3       |
| 30°-40°   | 444.4  | 10.0      |
| 40°-50°   | 469.8  | 10.6      |
| 50°-60°   | 442.2  | 10.0      |
| 60°-70°   | 366.8  | 8.3       |
| 70°-80°   | 257.7  | 5.8       |
| 80°-90°   | 147.0  | 3.3       |
| 90°-100°  | 101.7  | 2.3       |
| 100°-110° | 161.1  | 3.6       |
| 110°-120° | 228.8  | 5.2       |
| 120°-130° | 260.1  | 5.9       |
| 130°-140° | 262.8  | 5.9       |
| 140°-150° | 238.1  | 5.4       |
| 150°-160° | 190.3  | 4.3       |
| 160°-170° | 122.7  | 2.8       |
| 170°-180° | 42.3   | 1.0       |
| 0°-30°    | 695.0  | 15.7      |
| 0°-40°    | 1139.4 | 25.7      |
| 0°-60°    | 2051.4 | 46.3      |
| 0°-90°    | 2822.9 | 63.7      |
| 90°-120°  | 491.6  | 11.1      |
| 90°-150°  | 1252.7 | 28.3      |
| 90°-180°  | 1608.0 | 36.3      |
| 0°-180°   | 4430.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 895 | 895   | 895 | 895   | 895 |      |
| 5°   | 896 | 893   | 886 | 894   | 893 | 85   |
| 15°  | 859 | 860   | 857 | 866   | 865 | 242  |
| 25°  | 786 | 792   | 795 | 806   | 807 | 362  |
| 35°  | 688 | 700   | 710 | 723   | 727 | 431  |
| 45°  | 573 | 593   | 612 | 628   | 634 | 443  |
| 55°  | 449 | 471   | 500 | 520   | 526 | 400  |
| 65°  | 311 | 343   | 377 | 401   | 410 | 308  |
| 75°  | 172 | 210   | 252 | 279   | 289 | 183  |
| 85°  | 53  | 95    | 140 | 169   | 180 | 57   |
| 90°  | 17  | 61    | 107 | 136   | 146 | 11   |
| 95°  | 31  | 54    | 94  | 123   | 133 | 34   |
| 105° | 109 | 132   | 170 | 196   | 194 | 115  |
| 115° | 193 | 204   | 235 | 257   | 265 | 191  |
| 125° | 267 | 269   | 292 | 311   | 318 | 239  |
| 135° | 328 | 329   | 336 | 353   | 360 | 253  |
| 145° | 377 | 377   | 377 | 384   | 388 | 236  |
| 155° | 413 | 413   | 412 | 413   | 412 | 190  |
| 165° | 435 | 434   | 434 | 436   | 433 | 123  |
| 175° | 445 | 444   | 444 | 446   | 443 | 42   |
| 180° | 445 | 445   | 445 | 445   | 445 |      |



TEST NUMBER: P332583-830

CATALOG NUMBER: SA4XXDIP-C795D365U830-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 895.3 | 895.3 | 895.3 | 895.3 | 895.3 | 895.3 | 895.3 | 895.3 | 895.3 | 895.3 | 895.3 |
| 2.5°   | 898.5 | 898.0 | 897.4 | 896.9 | 896.4 | 895.4 | 893.9 | 892.5 | 891.1 | 889.7 | 890.9 |
| 5°     | 896.3 | 895.6 | 894.9 | 894.3 | 893.6 | 892.5 | 890.9 | 889.4 | 887.8 | 886.3 | 888.1 |
| 7.5°   | 888.6 | 888.3 | 887.9 | 887.5 | 887.0 | 886.2 | 885.0 | 883.6 | 882.3 | 881.1 | 883.1 |
| 10°    | 882.2 | 882.0 | 881.8 | 881.6 | 881.4 | 880.7 | 879.6 | 878.4 | 877.3 | 876.2 | 878.3 |
| 12.5°  | 873.5 | 873.4 | 873.4 | 873.3 | 873.3 | 872.9 | 872.1 | 871.3 | 870.5 | 869.8 | 871.7 |
| 15°    | 859.2 | 859.4 | 859.6 | 859.9 | 860.1 | 859.9 | 859.2 | 858.6 | 857.8 | 857.1 | 859.2 |
| 17.5°  | 839.7 | 840.4 | 841.0 | 841.8 | 842.4 | 842.6 | 842.5 | 842.4 | 842.3 | 842.2 | 844.2 |
| 20°    | 826.1 | 826.8 | 827.5 | 828.1 | 828.8 | 829.2 | 829.4 | 829.6 | 829.9 | 830.1 | 832.4 |
| 22.5°  | 810.9 | 811.7 | 812.6 | 813.4 | 814.3 | 814.9 | 815.3 | 815.7 | 816.1 | 816.5 | 818.7 |
| 25°    | 786.0 | 787.3 | 788.7 | 790.0 | 791.4 | 792.4 | 793.1 | 793.7 | 794.4 | 795.0 | 797.5 |
| 27.5°  | 758.4 | 760.3 | 762.2 | 764.2 | 766.2 | 767.7 | 768.7 | 769.7 | 770.7 | 771.8 | 774.0 |
| 30°    | 739.9 | 741.7 | 743.5 | 745.3 | 747.1 | 748.7 | 750.3 | 751.8 | 753.4 | 754.9 | 757.3 |
| 32.5°  | 719.8 | 722.0 | 724.2 | 726.2 | 728.4 | 730.3 | 732.1 | 733.8 | 735.6 | 737.3 | 740.1 |
| 35°    | 687.8 | 690.4 | 693.1 | 695.8 | 698.4 | 700.9 | 703.1 | 705.4 | 707.6 | 709.8 | 712.9 |
| 37.5°  | 655.4 | 658.6 | 661.7 | 664.7 | 667.8 | 670.7 | 673.4 | 676.2 | 679.0 | 681.7 | 684.9 |
| 40°    | 634.6 | 637.5 | 640.4 | 643.3 | 646.2 | 649.2 | 652.3 | 655.4 | 658.6 | 661.7 | 665.1 |
| 42.5°  | 610.6 | 613.8 | 617.1 | 620.3 | 623.6 | 627.0 | 630.7 | 634.3 | 638.0 | 641.6 | 645.4 |
| 45°    | 573.4 | 577.7 | 581.9 | 586.2 | 590.4 | 594.7 | 598.9 | 603.1 | 607.3 | 611.5 | 615.4 |
| 47.5°  | 538.0 | 542.3 | 546.7 | 551.1 | 555.4 | 560.1 | 565.0 | 569.9 | 574.8 | 579.7 | 583.6 |
| 50°    | 512.3 | 517.2 | 522.1 | 527.0 | 531.9 | 536.8 | 541.7 | 546.6 | 551.5 | 556.4 | 560.9 |
| 52.5°  | 486.6 | 491.5 | 496.4 | 501.3 | 506.2 | 511.5 | 517.1 | 522.7 | 528.4 | 534.0 | 538.4 |
| 55°    | 449.1 | 453.8 | 458.5 | 463.2 | 467.9 | 473.5 | 480.2 | 486.9 | 493.6 | 500.3 | 504.7 |
| 57.5°  | 407.3 | 413.0 | 418.9 | 424.6 | 430.4 | 436.6 | 443.3 | 449.9 | 456.6 | 463.2 | 468.4 |
| 60°    | 379.9 | 385.8 | 391.5 | 397.4 | 403.1 | 409.7 | 417.1 | 424.4 | 431.8 | 439.1 | 444.2 |
| 62.5°  | 353.5 | 359.9 | 366.2 | 372.5 | 378.8 | 385.7 | 393.0 | 400.4 | 407.7 | 415.1 | 420.2 |
| 65°    | 310.8 | 317.9 | 325.1 | 332.2 | 339.3 | 346.7 | 354.2 | 361.8 | 369.4 | 376.9 | 382.5 |
| 67.5°  | 269.7 | 277.3 | 284.8 | 292.4 | 300.0 | 307.8 | 315.9 | 324.0 | 332.2 | 340.3 | 345.9 |
| 70°    | 241.6 | 249.2 | 256.7 | 264.4 | 271.9 | 279.9 | 288.4 | 296.9 | 305.3 | 313.8 | 319.8 |
| 72.5°  | 214.3 | 222.1 | 229.9 | 237.6 | 245.3 | 253.7 | 262.8 | 271.7 | 280.8 | 289.7 | 295.6 |
| 75°    | 172.5 | 180.7 | 188.9 | 197.2 | 205.4 | 214.2 | 223.6 | 232.9 | 242.3 | 251.7 | 257.9 |
| 77.5°  | 133.4 | 142.0 | 150.8 | 159.6 | 168.2 | 177.6 | 187.4 | 197.2 | 207.0 | 216.8 | 223.1 |
| 80°    | 109.2 | 118.2 | 127.1 | 136.0 | 145.0 | 154.3 | 164.1 | 173.9 | 183.7 | 193.5 | 200.2 |
| 82.5°  | 85.2  | 94.4  | 103.8 | 113.0 | 122.2 | 131.9 | 141.7 | 151.5 | 161.3 | 171.1 | 177.9 |
| 85°    | 53.2  | 62.5  | 71.8  | 81.2  | 90.6  | 100.3 | 110.3 | 120.3 | 130.4 | 140.3 | 147.0 |
| 87.5°  | 29.9  | 39.1  | 48.4  | 57.6  | 66.9  | 76.4  | 86.3  | 96.2  | 106.0 | 115.9 | 122.5 |
| 90°    | 17.1  | 26.8  | 36.5  | 46.2  | 56.0  | 65.9  | 76.1  | 86.2  | 96.4  | 106.6 | 113.5 |
| 92.5°  | 19.4  | 27.5  | 35.5  | 43.6  | 51.7  | 60.8  | 71.0  | 81.2  | 91.3  | 101.5 | 108.2 |
| 95°    | 31.4  | 36.2  | 41.0  | 45.9  | 50.7  | 57.7  | 66.9  | 76.2  | 85.3  | 94.5  | 101.0 |
| 97.5°  | 50.7  | 58.6  | 66.5  | 74.5  | 82.3  | 86.6  | 87.5  | 88.2  | 89.0  | 89.8  | 95.7  |
| 100°   | 65.7  | 72.8  | 79.9  | 87.0  | 94.2  | 97.0  | 95.4  | 93.9  | 92.4  | 90.9  | 95.6  |
| 102.5° | 83.2  | 89.3  | 95.4  | 101.4 | 107.4 | 114.0 | 121.3 | 128.5 | 135.6 | 142.8 | 135.1 |
| 105°   | 109.3 | 114.1 | 119.0 | 123.9 | 128.8 | 135.6 | 144.3 | 152.9 | 161.5 | 170.1 | 176.3 |
| 107.5° | 135.2 | 139.0 | 142.9 | 146.8 | 150.6 | 156.7 | 165.0 | 173.3 | 181.6 | 189.9 | 195.8 |
| 110°   | 151.9 | 155.2 | 158.6 | 161.9 | 165.3 | 171.1 | 179.4 | 187.6 | 195.8 | 204.1 | 209.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 168.1 | 171.4 | 174.5 | 177.7 | 180.8 | 186.2 | 193.9 | 201.5 | 209.2 | 216.8 | 221.8 |
| 115°   | 193.2 | 195.5 | 197.7 | 199.9 | 202.2 | 206.8 | 213.9 | 220.8 | 227.9 | 235.0 | 240.1 |
| 117.5° | 216.7 | 218.2 | 219.7 | 221.2 | 222.6 | 226.8 | 233.7 | 240.4 | 247.2 | 254.0 | 258.6 |
| 120°   | 231.9 | 232.8 | 233.8 | 234.8 | 235.7 | 239.4 | 245.8 | 252.1 | 258.5 | 264.9 | 269.6 |
| 122.5° | 246.8 | 247.1 | 247.4 | 247.7 | 248.0 | 251.3 | 257.5 | 263.7 | 269.9 | 276.2 | 280.7 |
| 125°   | 267.2 | 267.2 | 267.3 | 267.4 | 267.5 | 270.2 | 275.6 | 281.1 | 286.4 | 291.9 | 296.3 |
| 127.5° | 287.2 | 287.1 | 286.9 | 286.8 | 286.6 | 288.9 | 293.5 | 298.1 | 302.7 | 307.4 | 311.3 |
| 130°   | 299.4 | 299.4 | 299.2 | 299.1 | 298.9 | 300.7 | 304.4 | 308.3 | 312.1 | 315.8 | 319.9 |
| 132.5° | 311.5 | 311.4 | 311.3 | 311.2 | 311.1 | 312.6 | 315.8 | 318.9 | 322.1 | 325.2 | 329.0 |
| 135°   | 328.5 | 328.4 | 328.3 | 328.2 | 328.2 | 329.0 | 330.9 | 332.7 | 334.6 | 336.5 | 340.2 |
| 137.5° | 344.4 | 344.2 | 344.0 | 343.8 | 343.6 | 344.0 | 345.2 | 346.2 | 347.3 | 348.4 | 351.8 |
| 140°   | 354.8 | 354.7 | 354.6 | 354.6 | 354.5 | 354.6 | 355.0 | 355.3 | 355.7 | 356.1 | 359.2 |
| 142.5° | 363.3 | 363.5 | 363.7 | 363.9 | 364.2 | 364.3 | 364.2 | 364.2 | 364.1 | 364.1 | 366.7 |
| 145°   | 377.4 | 377.4 | 377.4 | 377.4 | 377.4 | 377.4 | 377.4 | 377.4 | 377.4 | 377.4 | 378.8 |
| 147.5° | 388.8 | 389.0 | 389.2 | 389.4 | 389.6 | 389.6 | 389.6 | 389.5 | 389.4 | 389.4 | 389.6 |
| 150°   | 397.1 | 397.1 | 397.2 | 397.3 | 397.4 | 397.4 | 397.3 | 397.2 | 397.1 | 397.1 | 397.1 |
| 152.5° | 403.2 | 403.4 | 403.6 | 403.8 | 404.0 | 404.0 | 403.9 | 403.7 | 403.6 | 403.5 | 403.6 |
| 155°   | 412.7 | 412.8 | 412.8 | 412.9 | 413.0 | 412.9 | 412.7 | 412.5 | 412.3 | 412.1 | 412.4 |
| 157.5° | 420.9 | 420.8 | 420.8 | 420.8 | 420.8 | 420.6 | 420.4 | 420.1 | 419.8 | 419.6 | 420.0 |
| 160°   | 425.7 | 425.5 | 425.3 | 425.1 | 424.8 | 424.7 | 424.6 | 424.5 | 424.4 | 424.3 | 424.8 |
| 162.5° | 430.0 | 429.7 | 429.4 | 429.1 | 428.9 | 428.7 | 428.6 | 428.5 | 428.5 | 428.4 | 428.9 |
| 165°   | 435.4 | 435.0 | 434.6 | 434.2 | 433.9 | 433.7 | 433.7 | 433.7 | 433.7 | 433.7 | 434.3 |
| 167.5° | 439.6 | 439.2 | 438.8 | 438.5 | 438.1 | 437.9 | 437.8 | 437.8 | 437.7 | 437.7 | 438.4 |
| 170°   | 442.1 | 441.6 | 441.1 | 440.7 | 440.3 | 440.1 | 440.2 | 440.3 | 440.3 | 440.4 | 440.9 |
| 172.5° | 443.7 | 443.2 | 442.7 | 442.3 | 441.9 | 441.7 | 441.8 | 441.9 | 441.9 | 442.0 | 442.5 |
| 175°   | 445.4 | 444.9 | 444.5 | 444.0 | 443.6 | 443.4 | 443.5 | 443.6 | 443.7 | 443.7 | 444.4 |
| 177.5° | 446.2 | 445.7 | 445.4 | 444.9 | 444.5 | 444.3 | 444.5 | 444.6 | 444.7 | 444.8 | 445.4 |
| 180°   | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 |



TEST NUMBER: P332583-830

CATALOG NUMBER: SA4XXDIP-C795D365U830-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 895.3 | 895.3 | 895.3 | 895.3 | 895.3 | 895.3 | 895.3 | 895.3 |
| 2.5°   | 892.1 | 893.4 | 894.7 | 895.2 | 895.0 | 894.8 | 894.7 | 894.5 |
| 5°     | 889.9 | 891.6 | 893.3 | 894.2 | 893.9 | 893.7 | 893.5 | 893.2 |
| 7.5°   | 885.0 | 887.0 | 889.1 | 889.9 | 889.8 | 889.5 | 889.3 | 889.1 |
| 10°    | 880.2 | 882.2 | 884.3 | 885.1 | 885.0 | 884.7 | 884.5 | 884.3 |
| 12.5°  | 873.5 | 875.3 | 877.1 | 878.0 | 878.0 | 877.9 | 877.9 | 877.8 |
| 15°    | 861.2 | 863.2 | 865.2 | 866.1 | 865.9 | 865.6 | 865.4 | 865.2 |
| 17.5°  | 846.2 | 848.3 | 850.4 | 851.3 | 851.1 | 850.9 | 850.7 | 850.6 |
| 20°    | 834.5 | 836.8 | 839.1 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 |
| 22.5°  | 821.0 | 823.1 | 825.4 | 826.7 | 827.1 | 827.4 | 827.7 | 828.1 |
| 25°    | 799.9 | 802.4 | 804.8 | 806.2 | 806.3 | 806.6 | 806.8 | 807.1 |
| 27.5°  | 776.3 | 778.5 | 780.9 | 782.1 | 782.4 | 782.7 | 783.0 | 783.2 |
| 30°    | 759.8 | 762.2 | 764.7 | 766.2 | 766.7 | 767.0 | 767.5 | 768.0 |
| 32.5°  | 742.9 | 745.7 | 748.5 | 750.2 | 750.5 | 751.0 | 751.5 | 752.0 |
| 35°    | 716.0 | 719.2 | 722.3 | 724.2 | 724.8 | 725.5 | 726.2 | 726.9 |
| 37.5°  | 688.1 | 691.3 | 694.4 | 696.4 | 697.0 | 697.8 | 698.4 | 699.2 |
| 40°    | 668.4 | 671.8 | 675.0 | 677.1 | 678.1 | 678.9 | 679.9 | 680.7 |
| 42.5°  | 649.0 | 652.7 | 656.4 | 658.6 | 659.3 | 660.1 | 660.8 | 661.5 |
| 45°    | 619.2 | 622.9 | 626.7 | 629.1 | 630.3 | 631.4 | 632.5 | 633.6 |
| 47.5°  | 587.5 | 591.4 | 595.4 | 597.9 | 599.4 | 600.7 | 602.0 | 603.3 |
| 50°    | 565.3 | 569.8 | 574.2 | 577.1 | 578.4 | 579.9 | 581.2 | 582.5 |
| 52.5°  | 542.9 | 547.3 | 551.8 | 554.7 | 556.0 | 557.3 | 558.6 | 560.1 |
| 55°    | 509.2 | 513.7 | 518.1 | 521.0 | 522.4 | 523.7 | 525.0 | 526.3 |
| 57.5°  | 473.8 | 479.1 | 484.4 | 487.7 | 488.9 | 490.1 | 491.4 | 492.7 |
| 60°    | 449.4 | 454.5 | 459.6 | 463.1 | 464.9 | 466.7 | 468.4 | 470.2 |
| 62.5°  | 425.3 | 430.5 | 435.5 | 439.0 | 440.8 | 442.6 | 444.3 | 446.1 |
| 65°    | 388.1 | 393.7 | 399.3 | 402.9 | 404.7 | 406.5 | 408.2 | 410.0 |
| 67.5°  | 351.6 | 357.2 | 362.9 | 366.6 | 368.3 | 370.0 | 371.8 | 373.5 |
| 70°    | 325.8 | 331.9 | 337.9 | 341.7 | 343.2 | 344.8 | 346.3 | 347.9 |
| 72.5°  | 301.4 | 307.3 | 313.1 | 316.9 | 318.6 | 320.4 | 322.1 | 323.9 |
| 75°    | 264.1 | 270.3 | 276.6 | 280.7 | 282.8 | 284.7 | 286.7 | 288.7 |
| 77.5°  | 229.4 | 235.7 | 242.0 | 246.3 | 248.5 | 250.5 | 252.7 | 254.9 |
| 80°    | 206.9 | 213.6 | 220.3 | 224.4 | 226.2 | 228.0 | 229.8 | 231.6 |
| 82.5°  | 184.7 | 191.6 | 198.5 | 202.9 | 204.8 | 206.8 | 208.8 | 210.8 |
| 85°    | 153.7 | 160.4 | 167.1 | 171.5 | 173.8 | 176.0 | 178.2 | 180.5 |
| 87.5°  | 129.0 | 135.6 | 142.1 | 146.5 | 148.5 | 150.4 | 152.4 | 154.4 |
| 90°    | 120.4 | 127.3 | 134.2 | 138.6 | 140.5 | 142.5 | 144.4 | 146.4 |
| 92.5°  | 115.0 | 121.7 | 128.4 | 132.7 | 134.5 | 136.3 | 138.1 | 140.0 |
| 95°    | 107.4 | 114.0 | 120.4 | 124.7 | 126.8 | 128.8 | 130.9 | 133.0 |
| 97.5°  | 101.6 | 107.4 | 113.3 | 117.3 | 119.2 | 121.2 | 123.2 | 125.3 |
| 100°   | 100.4 | 105.1 | 109.9 | 113.1 | 114.7 | 116.3 | 118.0 | 119.6 |
| 102.5° | 127.3 | 119.6 | 111.9 | 108.9 | 110.6 | 112.4 | 114.1 | 115.8 |
| 105°   | 182.6 | 188.8 | 195.0 | 197.7 | 196.8 | 196.0 | 195.1 | 194.2 |
| 107.5° | 201.5 | 207.4 | 213.2 | 217.0 | 218.9 | 220.7 | 222.6 | 224.5 |
| 110°   | 214.6 | 219.9 | 225.2 | 228.8 | 230.7 | 232.8 | 234.8 | 236.8 |





TEST NUMBER: P332583-830

CATALOG NUMBER: SA4XXDIP-C795D365U830-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 226.7 | 231.6 | 236.5 | 240.0 | 242.0 | 244.1 | 246.2 | 248.3 |
| 115°   | 245.1 | 250.2 | 255.1 | 258.5 | 260.0 | 261.6 | 263.2 | 264.8 |
| 117.5° | 263.3 | 267.9 | 272.5 | 275.6 | 277.4 | 279.1 | 280.9 | 282.7 |
| 120°   | 274.2 | 278.7 | 283.3 | 286.4 | 288.1 | 289.7 | 291.3 | 293.0 |
| 122.5° | 285.2 | 289.7 | 294.3 | 297.3 | 298.8 | 300.2 | 301.7 | 303.1 |
| 125°   | 300.8 | 305.3 | 309.7 | 312.6 | 314.1 | 315.5 | 316.9 | 318.3 |
| 127.5° | 315.3 | 319.2 | 323.2 | 325.9 | 327.3 | 328.9 | 330.3 | 331.7 |
| 130°   | 324.0 | 328.1 | 332.2 | 334.9 | 336.2 | 337.5 | 338.9 | 340.3 |
| 132.5° | 333.0 | 336.9 | 340.8 | 343.4 | 344.7 | 345.9 | 347.2 | 348.5 |
| 135°   | 343.9 | 347.6 | 351.3 | 353.9 | 355.4 | 356.8 | 358.4 | 359.9 |
| 137.5° | 355.2 | 358.6 | 362.0 | 364.3 | 365.3 | 366.5 | 367.5 | 368.5 |
| 140°   | 362.3 | 365.4 | 368.5 | 370.7 | 371.9 | 373.1 | 374.3 | 375.5 |
| 142.5° | 369.5 | 372.2 | 374.9 | 376.7 | 377.7 | 378.6 | 379.6 | 380.5 |
| 145°   | 380.2 | 381.6 | 383.0 | 384.3 | 385.3 | 386.3 | 387.4 | 388.4 |
| 147.5° | 389.8 | 390.0 | 390.3 | 390.8 | 391.6 | 392.4 | 393.1 | 394.0 |
| 150°   | 397.1 | 397.1 | 397.1 | 397.1 | 397.2 | 397.3 | 397.3 | 397.4 |
| 152.5° | 403.7 | 403.8 | 404.0 | 404.0 | 403.9 | 403.9 | 403.9 | 403.8 |
| 155°   | 412.6 | 412.9 | 413.2 | 413.3 | 413.0 | 412.8 | 412.6 | 412.4 |
| 157.5° | 420.4 | 420.8 | 421.1 | 421.1 | 420.8 | 420.4 | 420.0 | 419.6 |
| 160°   | 425.3 | 425.7 | 426.1 | 426.1 | 425.7 | 425.3 | 424.8 | 424.3 |
| 162.5° | 429.2 | 429.7 | 430.2 | 430.1 | 429.6 | 429.1 | 428.6 | 428.1 |
| 165°   | 434.9 | 435.5 | 436.1 | 436.0 | 435.4 | 434.7 | 434.0 | 433.4 |
| 167.5° | 439.0 | 439.7 | 440.3 | 440.3 | 439.5 | 438.8 | 438.0 | 437.3 |
| 170°   | 441.6 | 442.1 | 442.7 | 442.6 | 442.0 | 441.2 | 440.5 | 439.7 |
| 172.5° | 443.2 | 443.7 | 444.3 | 444.2 | 443.5 | 442.6 | 441.9 | 441.0 |
| 175°   | 445.1 | 445.7 | 446.4 | 446.3 | 445.4 | 444.5 | 443.6 | 442.7 |
| 177.5° | 445.8 | 446.3 | 446.8 | 446.6 | 445.9 | 445.2 | 444.5 | 443.7 |
| 180°   | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 |

(END OF REPORT)