

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: P332603-940

Luminaire Tested: **SA4XXDIP-C795D810U940-4F0-1E-UDD-D4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332603-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-C795D810U940-4F0-1E-UDD-D4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 795 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

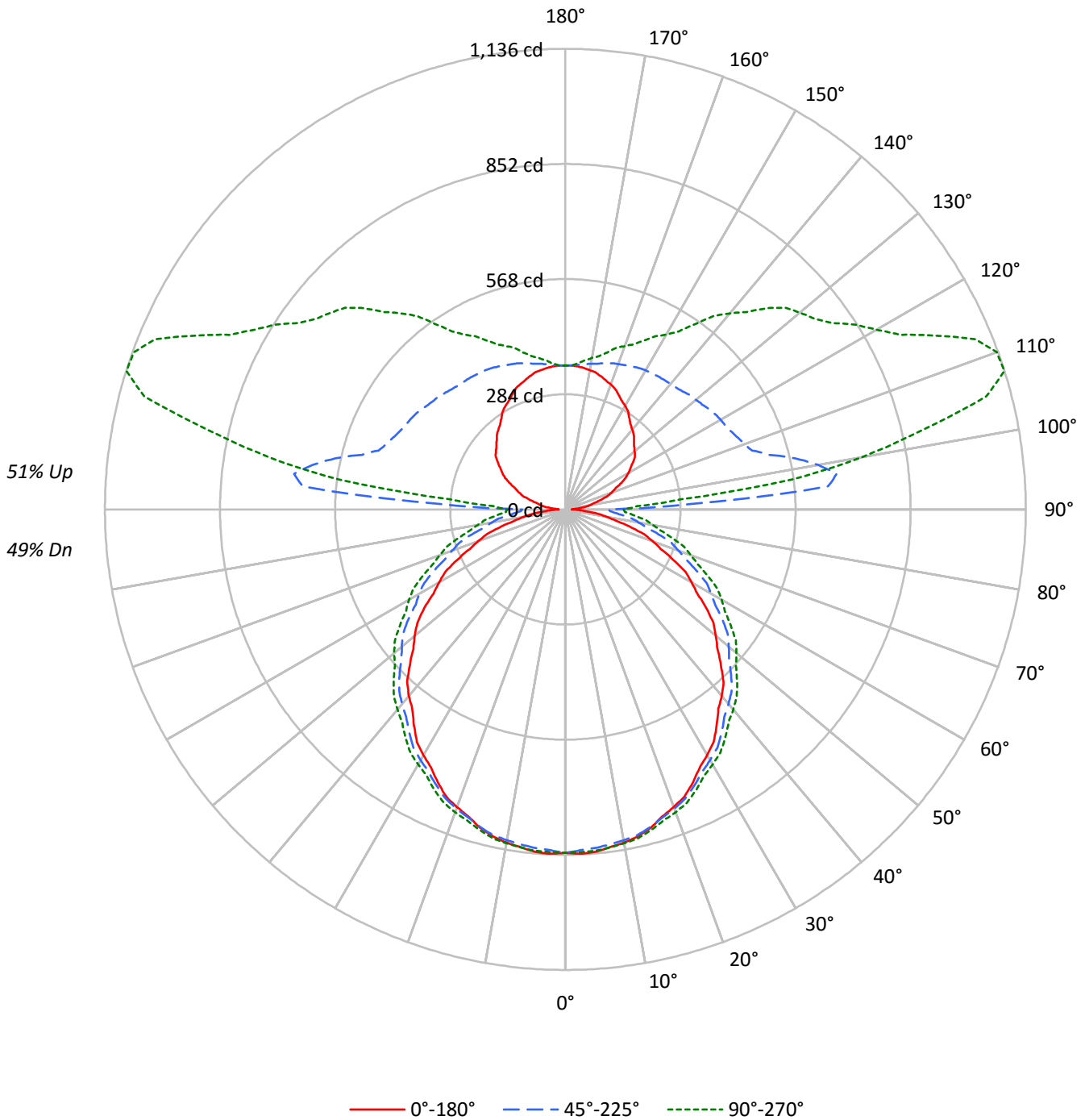
Lumens per Lamp: N/A  
Luminaire Lumens: 5470.4 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')  
CIE Type: General Diffuse

Input Watts (W): 45.9  
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: P332603-940  
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### Luminous Intensity Polar Plot





TEST NUMBER: P332603-940

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

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |    |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 83 | 83 | 83 | 68 | 68 | 68 | 55 | 55 | 55 | 49 |
| 1   | 97  | 92  | 88  | 84  | 89 | 85 | 81 | 78 | 71 | 68 | 66 | 59 | 57 | 55 | 47 | 46 | 45 | 39 |
| 2   | 87  | 80  | 73  | 68  | 80 | 73 | 68 | 63 | 62 | 57 | 54 | 51 | 48 | 45 | 41 | 39 | 37 | 32 |
| 3   | 80  | 70  | 62  | 56  | 73 | 64 | 57 | 52 | 54 | 49 | 45 | 45 | 41 | 38 | 36 | 33 | 31 | 27 |
| 4   | 73  | 61  | 53  | 47  | 66 | 57 | 49 | 44 | 48 | 42 | 38 | 39 | 35 | 32 | 32 | 29 | 26 | 22 |
| 5   | 66  | 54  | 46  | 40  | 61 | 50 | 43 | 37 | 43 | 37 | 32 | 35 | 31 | 27 | 29 | 25 | 23 | 19 |
| 6   | 61  | 49  | 40  | 34  | 56 | 45 | 38 | 32 | 38 | 32 | 28 | 32 | 27 | 24 | 26 | 22 | 20 | 17 |
| 7   | 56  | 44  | 36  | 30  | 52 | 41 | 33 | 28 | 35 | 29 | 25 | 29 | 24 | 21 | 23 | 20 | 17 | 15 |
| 8   | 52  | 40  | 32  | 26  | 48 | 37 | 30 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 22 | 18 | 16 | 13 |
| 9   | 49  | 36  | 29  | 23  | 45 | 34 | 27 | 22 | 29 | 23 | 19 | 24 | 20 | 17 | 20 | 16 | 14 | 12 |
| 10  | 45  | 33  | 26  | 21  | 42 | 31 | 24 | 20 | 26 | 21 | 17 | 22 | 18 | 15 | 18 | 15 | 13 | 11 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6838 | 6838 | 6838 |
| 5°  | 6859 | 6683 | 6702 |
| 10° | 6817 | 6573 | 6568 |
| 15° | 6756 | 6446 | 6411 |
| 20° | 6664 | 6307 | 6259 |
| 25° | 6560 | 6151 | 6092 |
| 30° | 6448 | 5995 | 5919 |
| 35° | 6321 | 5835 | 5768 |
| 40° | 6219 | 5684 | 5610 |
| 45° | 6067 | 5543 | 5475 |
| 50° | 5939 | 5383 | 5333 |
| 55° | 5808 | 5231 | 5164 |
| 60° | 5601 | 5036 | 5013 |
| 65° | 5376 | 4829 | 4824 |
| 70° | 5101 | 4592 | 4605 |
| 75° | 4723 | 4331 | 4407 |
| 80° | 4295 | 4081 | 4213 |
| 85° | 3763 | 3857 | 4101 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 80.2   | 1.5       |
| 10°-20°   | 229.8  | 4.2       |
| 20°-30°   | 347.5  | 6.4       |
| 30°-40°   | 420.4  | 7.7       |
| 40°-50°   | 444.5  | 8.1       |
| 50°-60°   | 418.3  | 7.6       |
| 60°-70°   | 347.1  | 6.3       |
| 70°-80°   | 243.8  | 4.5       |
| 80°-90°   | 139.8  | 2.6       |
| 90°-100°  | 338.2  | 6.2       |
| 100°-110° | 594.1  | 10.9      |
| 110°-120° | 518.5  | 9.5       |
| 120°-130° | 424.9  | 7.8       |
| 130°-140° | 345.1  | 6.3       |
| 140°-150° | 258.1  | 4.7       |
| 150°-160° | 180.0  | 3.3       |
| 160°-170° | 105.9  | 1.9       |
| 170°-180° | 34.4   | 0.6       |
| 0°-30°    | 657.5  | 12.0      |
| 0°-40°    | 1077.9 | 19.7      |
| 0°-60°    | 1940.7 | 35.5      |
| 0°-90°    | 2671.4 | 48.8      |
| 90°-120°  | 1450.8 | 26.5      |
| 90°-150°  | 2478.8 | 45.3      |
| 90°-180°  | 2799.0 | 51.2      |
| 0°-180°   | 5470.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 847 | 847   | 847 | 847   | 847  |      |
| 5°   | 848 | 845   | 838 | 846   | 845  | 80   |
| 15°  | 813 | 814   | 811 | 819   | 818  | 229  |
| 25°  | 744 | 749   | 752 | 762   | 764  | 342  |
| 35°  | 651 | 662   | 672 | 684   | 688  | 407  |
| 45°  | 542 | 561   | 578 | 594   | 599  | 419  |
| 55°  | 425 | 445   | 473 | 492   | 498  | 378  |
| 65°  | 294 | 324   | 357 | 379   | 388  | 291  |
| 75°  | 163 | 198   | 238 | 264   | 273  | 174  |
| 85°  | 50  | 90    | 133 | 160   | 171  | 53   |
| 90°  | 16  | 59    | 106 | 134   | 144  | 11   |
| 95°  | 35  | 117   | 651 | 388   | 287  | 36   |
| 105° | 90  | 147   | 520 | 1070  | 1075 | 97   |
| 115° | 149 | 196   | 452 | 848   | 1014 | 148  |
| 125° | 204 | 242   | 432 | 711   | 802  | 182  |
| 135° | 240 | 285   | 411 | 615   | 702  | 186  |
| 145° | 275 | 314   | 400 | 505   | 558  | 173  |
| 155° | 312 | 336   | 389 | 441   | 460  | 144  |
| 165° | 340 | 350   | 373 | 395   | 401  | 96   |
| 175° | 354 | 355   | 358 | 363   | 361  | 34   |
| 180° | 355 | 355   | 355 | 355   | 355  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 847.0 | 847.0 | 847.0 | 847.0 | 847.0 | 847.0 | 847.0 | 847.0 | 847.0 | 847.0 | 847.0 |
| 2.5°   | 850.1 | 849.5 | 849.0 | 848.6 | 848.0 | 847.1 | 845.7 | 844.4 | 843.0 | 841.7 | 842.8 |
| 5°     | 847.9 | 847.3 | 846.7 | 846.1 | 845.4 | 844.4 | 842.8 | 841.4 | 839.9 | 838.5 | 840.2 |
| 7.5°   | 840.7 | 840.3 | 840.0 | 839.6 | 839.2 | 838.4 | 837.2 | 836.0 | 834.7 | 833.6 | 835.4 |
| 10°    | 834.6 | 834.5 | 834.3 | 834.0 | 833.8 | 833.2 | 832.1 | 831.1 | 830.0 | 828.9 | 830.9 |
| 12.5°  | 826.3 | 826.3 | 826.3 | 826.2 | 826.2 | 825.8 | 825.1 | 824.3 | 823.6 | 822.9 | 824.7 |
| 15°    | 812.9 | 813.1 | 813.2 | 813.5 | 813.7 | 813.5 | 812.9 | 812.3 | 811.5 | 810.9 | 812.9 |
| 17.5°  | 794.4 | 795.0 | 795.7 | 796.4 | 797.0 | 797.2 | 797.1 | 797.0 | 796.8 | 796.7 | 798.7 |
| 20°    | 781.6 | 782.2 | 782.8 | 783.5 | 784.1 | 784.5 | 784.7 | 784.9 | 785.2 | 785.3 | 787.5 |
| 22.5°  | 767.1 | 767.9 | 768.7 | 769.5 | 770.3 | 771.0 | 771.3 | 771.7 | 772.0 | 772.5 | 774.5 |
| 25°    | 743.6 | 744.8 | 746.2 | 747.4 | 748.7 | 749.7 | 750.3 | 750.9 | 751.5 | 752.2 | 754.5 |
| 27.5°  | 717.5 | 719.3 | 721.1 | 723.0 | 724.9 | 726.3 | 727.3 | 728.2 | 729.2 | 730.1 | 732.3 |
| 30°    | 700.0 | 701.7 | 703.4 | 705.1 | 706.8 | 708.3 | 709.8 | 711.2 | 712.7 | 714.2 | 716.5 |
| 32.5°  | 681.0 | 683.1 | 685.1 | 687.1 | 689.1 | 690.9 | 692.6 | 694.2 | 695.9 | 697.5 | 700.2 |
| 35°    | 650.7 | 653.2 | 655.8 | 658.3 | 660.8 | 663.1 | 665.2 | 667.4 | 669.4 | 671.5 | 674.5 |
| 37.5°  | 620.1 | 623.0 | 626.0 | 628.8 | 631.8 | 634.5 | 637.1 | 639.7 | 642.4 | 645.0 | 648.0 |
| 40°    | 600.4 | 603.2 | 605.8 | 608.6 | 611.4 | 614.2 | 617.2 | 620.1 | 623.0 | 626.0 | 629.2 |
| 42.5°  | 577.7 | 580.7 | 583.8 | 586.8 | 590.0 | 593.2 | 596.6 | 600.1 | 603.6 | 607.0 | 610.6 |
| 45°    | 542.5 | 546.5 | 550.5 | 554.6 | 558.6 | 562.6 | 566.6 | 570.6 | 574.5 | 578.5 | 582.2 |
| 47.5°  | 509.0 | 513.1 | 517.2 | 521.4 | 525.5 | 529.9 | 534.5 | 539.1 | 543.8 | 548.4 | 552.1 |
| 50°    | 484.6 | 489.3 | 493.9 | 498.6 | 503.2 | 507.8 | 512.5 | 517.1 | 521.7 | 526.4 | 530.7 |
| 52.5°  | 460.4 | 465.0 | 469.7 | 474.3 | 478.9 | 483.9 | 489.2 | 494.5 | 499.9 | 505.2 | 509.3 |
| 55°    | 424.9 | 429.4 | 433.8 | 438.2 | 442.6 | 448.0 | 454.3 | 460.7 | 467.0 | 473.3 | 477.5 |
| 57.5°  | 385.3 | 390.7 | 396.3 | 401.7 | 407.2 | 413.0 | 419.4 | 425.6 | 431.9 | 438.2 | 443.2 |
| 60°    | 359.4 | 365.0 | 370.4 | 375.9 | 381.4 | 387.6 | 394.6 | 401.5 | 408.5 | 415.4 | 420.3 |
| 62.5°  | 334.4 | 340.5 | 346.4 | 352.4 | 358.4 | 364.9 | 371.8 | 378.8 | 385.8 | 392.7 | 397.5 |
| 65°    | 294.0 | 300.8 | 307.6 | 314.2 | 321.0 | 328.0 | 335.1 | 342.3 | 349.5 | 356.6 | 361.9 |
| 67.5°  | 255.1 | 262.3 | 269.5 | 276.6 | 283.8 | 291.2 | 298.9 | 306.6 | 314.2 | 321.9 | 327.3 |
| 70°    | 228.5 | 235.8 | 242.9 | 250.1 | 257.3 | 264.8 | 272.9 | 280.9 | 288.8 | 296.9 | 302.6 |
| 72.5°  | 202.8 | 210.1 | 217.5 | 224.8 | 232.1 | 240.0 | 248.6 | 257.1 | 265.6 | 274.1 | 279.6 |
| 75°    | 163.2 | 170.9 | 178.7 | 186.5 | 194.3 | 202.7 | 211.5 | 220.3 | 229.3 | 238.1 | 244.0 |
| 77.5°  | 126.2 | 134.4 | 142.7 | 151.0 | 159.2 | 168.0 | 177.3 | 186.5 | 195.8 | 205.1 | 211.1 |
| 80°    | 103.3 | 111.8 | 120.2 | 128.7 | 137.1 | 146.0 | 155.2 | 164.5 | 173.8 | 183.1 | 189.4 |
| 82.5°  | 80.6  | 89.3  | 98.2  | 106.9 | 115.7 | 124.8 | 134.0 | 143.3 | 152.6 | 161.8 | 168.3 |
| 85°    | 50.3  | 59.1  | 67.9  | 76.9  | 85.7  | 94.9  | 104.3 | 113.8 | 123.3 | 132.8 | 139.1 |
| 87.5°  | 28.2  | 37.1  | 46.1  | 54.8  | 63.6  | 72.5  | 82.6  | 91.8  | 101.3 | 110.8 | 116.8 |
| 90°    | 15.9  | 25.7  | 36.2  | 45.4  | 54.5  | 63.2  | 76.5  | 85.5  | 96.0  | 106.5 | 111.9 |
| 92.5°  | 22.4  | 33.6  | 47.7  | 63.8  | 81.6  | 104.4 | 148.9 | 212.0 | 273.8 | 310.5 | 279.5 |
| 95°    | 35.3  | 44.4  | 58.3  | 74.4  | 98.0  | 135.1 | 204.4 | 327.4 | 502.7 | 650.8 | 672.5 |
| 97.5°  | 52.4  | 58.5  | 70.4  | 84.8  | 105.1 | 137.0 | 192.3 | 295.2 | 469.4 | 675.1 | 816.2 |
| 100°   | 63.4  | 68.9  | 79.3  | 93.1  | 111.8 | 141.0 | 190.4 | 277.4 | 427.8 | 632.7 | 816.9 |
| 102.5° | 74.5  | 80.5  | 89.6  | 102.3 | 119.8 | 147.4 | 192.6 | 270.0 | 399.1 | 581.5 | 771.1 |
| 105°   | 90.2  | 96.4  | 104.2 | 116.7 | 133.5 | 159.7 | 201.0 | 266.6 | 372.0 | 520.0 | 689.1 |
| 107.5° | 109.1 | 114.0 | 121.0 | 133.3 | 148.8 | 174.2 | 212.2 | 272.3 | 363.1 | 483.2 | 622.1 |
| 110°   | 121.3 | 125.6 | 132.1 | 143.3 | 158.8 | 182.8 | 220.9 | 277.1 | 361.1 | 469.7 | 588.1 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 132.8 | 136.8 | 143.4 | 153.8 | 169.0 | 192.7 | 229.3 | 282.3 | 361.1 | 460.8 | 566.9 |
| 115°   | 149.4 | 153.3 | 160.1 | 169.0 | 184.1 | 207.2 | 241.9 | 290.4 | 362.0 | 452.5 | 544.9 |
| 117.5° | 167.6 | 170.7 | 176.1 | 184.9 | 198.5 | 221.7 | 254.5 | 299.3 | 363.6 | 446.1 | 531.7 |
| 120°   | 179.1 | 181.1 | 186.6 | 194.9 | 207.4 | 230.2 | 262.9 | 305.2 | 365.1 | 442.3 | 523.9 |
| 122.5° | 190.2 | 191.7 | 196.7 | 203.9 | 217.0 | 239.0 | 271.3 | 311.0 | 366.6 | 437.9 | 515.7 |
| 125°   | 203.9 | 206.5 | 210.4 | 217.9 | 231.0 | 253.0 | 283.4 | 320.7 | 369.9 | 432.4 | 503.3 |
| 127.5° | 216.7 | 218.7 | 223.6 | 232.1 | 245.7 | 267.2 | 295.6 | 329.0 | 371.4 | 425.2 | 487.5 |
| 130°   | 223.2 | 225.8 | 231.1 | 241.4 | 254.4 | 276.3 | 303.3 | 333.9 | 372.8 | 420.8 | 477.6 |
| 132.5° | 230.4 | 232.5 | 239.5 | 249.1 | 263.3 | 283.7 | 310.0 | 339.4 | 374.3 | 417.1 | 468.8 |
| 135°   | 239.7 | 242.5 | 249.4 | 261.3 | 275.9 | 294.8 | 319.2 | 345.8 | 375.9 | 410.8 | 454.7 |
| 137.5° | 249.9 | 252.3 | 259.8 | 270.8 | 285.8 | 303.4 | 325.6 | 349.7 | 375.8 | 406.4 | 442.7 |
| 140°   | 257.1 | 259.0 | 266.4 | 278.0 | 292.5 | 309.2 | 330.4 | 352.8 | 376.8 | 403.5 | 436.2 |
| 142.5° | 264.1 | 266.2 | 273.2 | 284.5 | 298.5 | 314.7 | 334.8 | 355.4 | 377.8 | 402.0 | 431.1 |
| 145°   | 275.0 | 276.9 | 283.7 | 293.2 | 306.2 | 321.5 | 339.6 | 358.4 | 378.6 | 400.2 | 423.8 |
| 147.5° | 287.4 | 287.8 | 293.8 | 303.6 | 314.4 | 328.1 | 345.2 | 361.6 | 379.3 | 397.7 | 417.5 |
| 150°   | 295.2 | 295.7 | 301.0 | 309.2 | 319.4 | 332.6 | 347.9 | 363.3 | 379.3 | 396.0 | 413.5 |
| 152.5° | 301.7 | 301.8 | 307.3 | 315.0 | 324.4 | 336.5 | 350.2 | 364.4 | 378.2 | 393.2 | 409.0 |
| 155°   | 311.7 | 312.4 | 316.6 | 323.5 | 331.2 | 341.6 | 353.5 | 365.3 | 376.5 | 389.1 | 402.3 |
| 157.5° | 321.6 | 321.6 | 325.5 | 330.9 | 337.6 | 345.8 | 355.9 | 365.3 | 374.7 | 384.8 | 395.5 |
| 160°   | 327.7 | 327.7 | 330.5 | 335.4 | 341.0 | 348.7 | 357.0 | 365.3 | 373.0 | 381.4 | 390.5 |
| 162.5° | 333.3 | 332.7 | 334.9 | 339.3 | 344.3 | 350.3 | 358.1 | 365.3 | 371.4 | 378.1 | 386.0 |
| 165°   | 339.6 | 339.6 | 341.0 | 344.5 | 347.9 | 352.1 | 358.4 | 364.0 | 368.2 | 373.0 | 378.6 |
| 167.5° | 345.8 | 345.2 | 345.8 | 348.5 | 350.4 | 353.7 | 358.3 | 362.3 | 364.8 | 368.0 | 371.9 |
| 170°   | 348.7 | 347.9 | 348.7 | 350.7 | 352.1 | 354.2 | 357.7 | 361.1 | 362.6 | 364.6 | 367.5 |
| 172.5° | 351.4 | 350.7 | 350.9 | 352.4 | 353.2 | 354.7 | 357.1 | 360.1 | 360.3 | 361.3 | 363.6 |
| 175°   | 354.2 | 353.5 | 353.5 | 354.2 | 354.9 | 354.9 | 356.3 | 358.4 | 357.7 | 357.7 | 359.1 |
| 177.5° | 355.4 | 354.9 | 354.4 | 354.9 | 354.9 | 354.9 | 355.4 | 356.6 | 355.4 | 355.4 | 356.0 |
| 180°   | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°     | 847.0 | 847.0 | 847.0  | 847.0  | 847.0  | 847.0  | 847.0  | 847.0  |
| 2.5°   | 844.0 | 845.3 | 846.4  | 846.9  | 846.8  | 846.6  | 846.4  | 846.2  |
| 5°     | 841.9 | 843.6 | 845.2  | 846.0  | 845.7  | 845.5  | 845.3  | 845.1  |
| 7.5°   | 837.3 | 839.2 | 841.2  | 842.0  | 841.8  | 841.5  | 841.3  | 841.2  |
| 10°    | 832.8 | 834.6 | 836.6  | 837.4  | 837.2  | 837.0  | 836.8  | 836.6  |
| 12.5°  | 826.3 | 828.1 | 829.8  | 830.6  | 830.6  | 830.5  | 830.5  | 830.5  |
| 15°    | 814.8 | 816.6 | 818.5  | 819.4  | 819.2  | 818.9  | 818.8  | 818.5  |
| 17.5°  | 800.6 | 802.5 | 804.5  | 805.4  | 805.2  | 805.0  | 804.9  | 804.7  |
| 20°    | 789.5 | 791.7 | 793.8  | 794.9  | 794.9  | 794.9  | 794.9  | 794.9  |
| 22.5°  | 776.7 | 778.7 | 780.9  | 782.1  | 782.5  | 782.7  | 783.1  | 783.5  |
| 25°    | 756.8 | 759.1 | 761.4  | 762.7  | 762.9  | 763.1  | 763.3  | 763.6  |
| 27.5°  | 734.4 | 736.6 | 738.8  | 739.9  | 740.2  | 740.5  | 740.7  | 740.9  |
| 30°    | 718.8 | 721.1 | 723.4  | 724.9  | 725.3  | 725.7  | 726.1  | 726.6  |
| 32.5°  | 702.8 | 705.5 | 708.1  | 709.7  | 710.1  | 710.5  | 711.0  | 711.4  |
| 35°    | 677.4 | 680.4 | 683.3  | 685.1  | 685.7  | 686.3  | 687.1  | 687.7  |
| 37.5°  | 650.9 | 654.0 | 656.9  | 658.8  | 659.4  | 660.1  | 660.8  | 661.5  |
| 40°    | 632.3 | 635.5 | 638.6  | 640.6  | 641.5  | 642.3  | 643.2  | 644.0  |
| 42.5°  | 614.0 | 617.5 | 621.0  | 623.1  | 623.8  | 624.5  | 625.2  | 625.8  |
| 45°    | 585.8 | 589.3 | 592.9  | 595.2  | 596.3  | 597.4  | 598.4  | 599.4  |
| 47.5°  | 555.8 | 559.5 | 563.3  | 565.7  | 567.0  | 568.3  | 569.5  | 570.8  |
| 50°    | 534.8 | 539.0 | 543.2  | 546.0  | 547.2  | 548.6  | 549.8  | 551.1  |
| 52.5°  | 513.6 | 517.8 | 522.0  | 524.8  | 526.0  | 527.3  | 528.5  | 529.9  |
| 55°    | 481.7 | 486.0 | 490.2  | 492.9  | 494.2  | 495.4  | 496.7  | 497.9  |
| 57.5°  | 448.3 | 453.3 | 458.3  | 461.4  | 462.5  | 463.7  | 464.9  | 466.1  |
| 60°    | 425.2 | 430.0 | 434.8  | 438.1  | 439.8  | 441.5  | 443.2  | 444.9  |
| 62.5°  | 402.3 | 407.2 | 412.1  | 415.4  | 417.1  | 418.7  | 420.4  | 422.0  |
| 65°    | 367.2 | 372.5 | 377.7  | 381.2  | 382.9  | 384.6  | 386.2  | 387.9  |
| 67.5°  | 332.6 | 338.0 | 343.3  | 346.8  | 348.5  | 350.1  | 351.8  | 353.4  |
| 70°    | 308.3 | 314.0 | 319.7  | 323.2  | 324.7  | 326.2  | 327.6  | 329.1  |
| 72.5°  | 285.2 | 290.7 | 296.2  | 299.8  | 301.4  | 303.1  | 304.7  | 306.4  |
| 75°    | 249.9 | 255.7 | 261.7  | 265.6  | 267.5  | 269.4  | 271.3  | 273.1  |
| 77.5°  | 217.0 | 223.0 | 229.0  | 233.0  | 235.1  | 237.0  | 239.1  | 241.1  |
| 80°    | 195.7 | 202.1 | 208.4  | 212.3  | 214.0  | 215.7  | 217.4  | 219.1  |
| 82.5°  | 174.8 | 181.3 | 187.8  | 192.0  | 193.8  | 195.6  | 197.5  | 199.4  |
| 85°    | 145.4 | 151.8 | 158.1  | 162.3  | 164.4  | 166.5  | 168.6  | 170.8  |
| 87.5°  | 123.1 | 129.3 | 135.5  | 139.6  | 141.5  | 143.6  | 145.3  | 147.1  |
| 90°    | 118.7 | 125.5 | 132.3  | 136.2  | 138.6  | 141.0  | 142.0  | 143.7  |
| 92.5°  | 238.2 | 210.3 | 195.1  | 185.0  | 178.4  | 176.4  | 175.7  | 177.4  |
| 95°    | 610.6 | 508.2 | 420.4  | 356.6  | 324.3  | 304.6  | 294.0  | 286.8  |
| 97.5°  | 851.0 | 816.4 | 753.8  | 684.6  | 636.3  | 596.2  | 577.1  | 564.4  |
| 100°   | 924.3 | 944.0 | 915.5  | 867.5  | 808.3  | 767.2  | 747.8  | 743.7  |
| 102.5° | 916.3 | 991.0 | 1006.4 | 988.6  | 953.0  | 923.8  | 903.4  | 900.5  |
| 105°   | 854.1 | 980.0 | 1054.3 | 1086.3 | 1089.4 | 1085.5 | 1077.5 | 1075.0 |
| 107.5° | 768.7 | 902.4 | 1004.8 | 1070.3 | 1106.3 | 1123.6 | 1132.2 | 1135.5 |
| 110°   | 717.1 | 842.6 | 948.5  | 1028.5 | 1079.7 | 1110.6 | 1124.9 | 1132.8 |





TEST NUMBER: P332603-940

CATALOG NUMBER: SA4XXDIP-C795D810U940-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°    | 80°    | 85°    | 90°    |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| 112.5° | 677.8 | 789.2 | 889.4 | 969.3 | 1027.2 | 1064.3 | 1083.5 | 1095.4 |
| 115°   | 636.8 | 727.2 | 813.3 | 883.3 | 940.0  | 983.2  | 1007.0 | 1014.1 |
| 117.5° | 613.2 | 688.7 | 757.2 | 817.0 | 865.7  | 902.5  | 926.8  | 932.7  |
| 120°   | 601.3 | 670.4 | 730.4 | 782.8 | 824.3  | 856.7  | 876.5  | 885.8  |
| 122.5° | 590.8 | 657.6 | 712.7 | 758.8 | 794.0  | 821.7  | 838.6  | 847.7  |
| 125°   | 574.3 | 638.2 | 690.4 | 731.3 | 760.5  | 781.9  | 796.5  | 801.9  |
| 127.5° | 554.2 | 615.3 | 667.1 | 706.1 | 735.5  | 754.9  | 767.5  | 773.1  |
| 130°   | 539.2 | 598.1 | 649.3 | 688.8 | 718.6  | 737.4  | 749.8  | 755.2  |
| 132.5° | 524.1 | 579.5 | 629.5 | 668.8 | 698.1  | 719.1  | 730.9  | 736.4  |
| 135°   | 501.9 | 550.6 | 596.6 | 633.7 | 662.9  | 683.7  | 696.1  | 701.5  |
| 137.5° | 482.3 | 523.8 | 562.7 | 596.3 | 623.4  | 643.7  | 654.0  | 660.0  |
| 140°   | 471.1 | 506.6 | 540.6 | 571.9 | 597.4  | 613.7  | 624.6  | 631.2  |
| 142.5° | 461.0 | 492.3 | 521.7 | 548.7 | 571.1  | 586.3  | 595.8  | 600.6  |
| 145°   | 447.4 | 472.3 | 494.5 | 515.1 | 533.4  | 546.1  | 553.9  | 558.2  |
| 147.5° | 436.1 | 455.1 | 472.0 | 487.8 | 501.3  | 512.1  | 518.1  | 520.0  |
| 150°   | 430.2 | 446.2 | 460.2 | 472.7 | 483.9  | 492.9  | 497.1  | 497.8  |
| 152.5° | 424.1 | 437.8 | 450.7 | 461.0 | 470.5  | 477.9  | 480.4  | 481.1  |
| 155°   | 414.8 | 426.1 | 436.5 | 444.9 | 451.8  | 457.4  | 459.5  | 459.5  |
| 157.5° | 404.9 | 414.3 | 423.1 | 429.8 | 435.1  | 439.3  | 440.5  | 440.5  |
| 160°   | 398.9 | 406.5 | 414.2 | 419.7 | 423.9  | 428.1  | 428.8  | 428.8  |
| 162.5° | 392.7 | 399.2 | 405.3 | 410.3 | 413.3  | 417.5  | 418.2  | 417.7  |
| 165°   | 384.1 | 388.3 | 393.2 | 396.7 | 399.5  | 402.3  | 401.6  | 400.9  |
| 167.5° | 375.9 | 379.2 | 383.1 | 385.1 | 386.6  | 388.3  | 388.3  | 387.6  |
| 170°   | 371.0 | 373.0 | 375.9 | 377.9 | 379.3  | 380.0  | 379.3  | 379.3  |
| 172.5° | 366.5 | 368.0 | 369.7 | 371.2 | 372.0  | 372.7  | 372.0  | 371.0  |
| 175°   | 360.5 | 361.1 | 362.6 | 362.6 | 362.6  | 364.0  | 362.6  | 361.1  |
| 177.5° | 356.6 | 357.1 | 357.1 | 357.7 | 357.1  | 357.7  | 356.6  | 355.4  |
| 180°   | 354.9 | 354.9 | 354.9 | 354.9 | 354.9  | 354.9  | 354.9  | 354.9  |

(END OF REPORT)