

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: P332101-840

Luminaire Tested: **S123DIW-S340D755U840-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332101-840  
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: S123DIW-S340D755U840-4F0-1E-UDD-F1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 755 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4070.5 lumens  
Efficiency: N/A  
Efficacy: 133.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

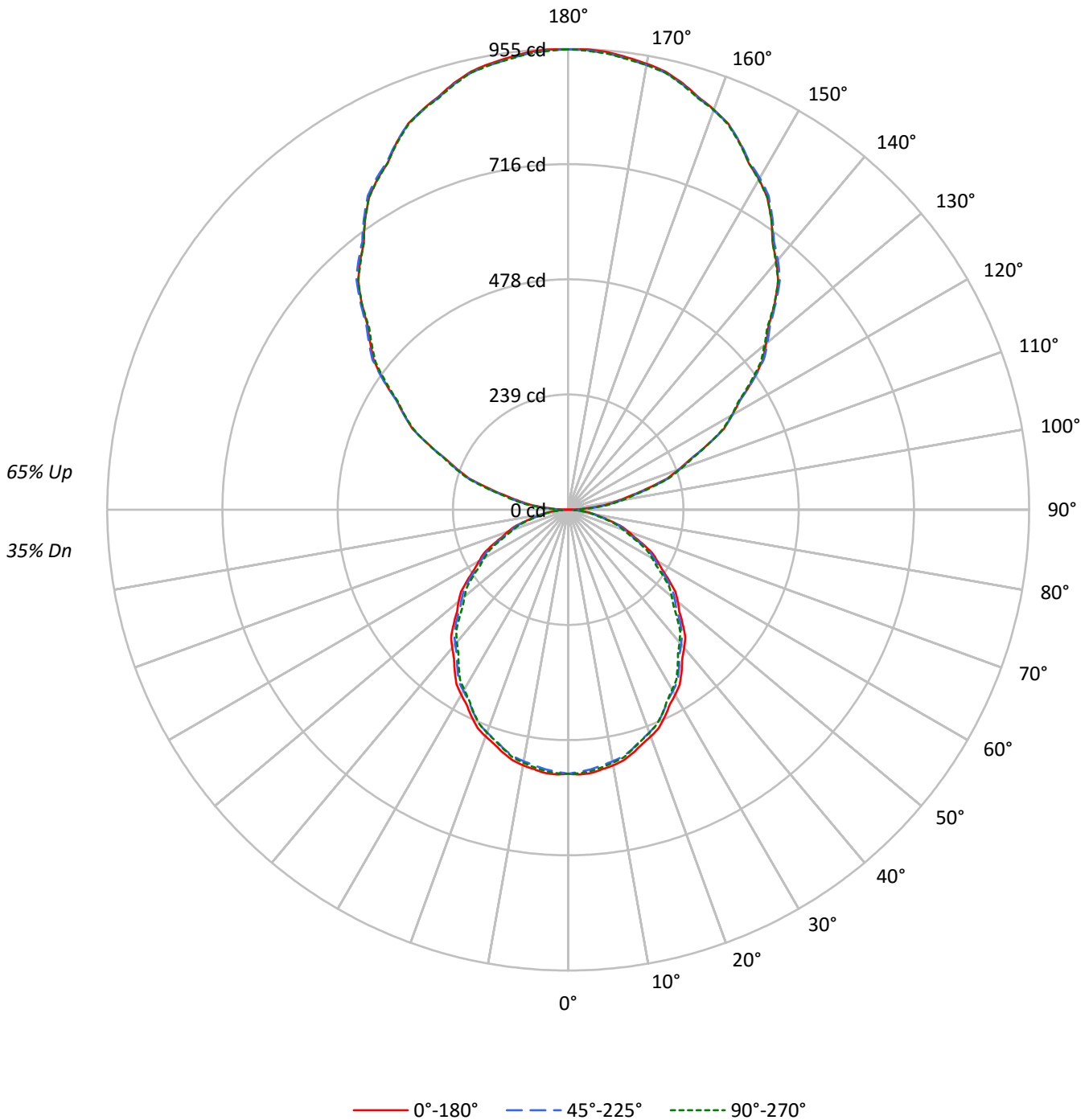
Input Watts (W): 30.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332101-840

CATALOG NUMBER: S123DIW-S340D755U840-4F0-1E-UDD-F1

### Luminous Intensity Polar Plot





TEST NUMBER: P332101-840

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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   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 75 | 75 | 75 | 58 | 58 | 58 | 42 | 42 | 42 | 35 |
| 1   | 94  | 90  | 86  | 83  | 85 | 82 | 78 | 75 | 66 | 63 | 61 | 51 | 49 | 48 | 37 | 36 | 36 | 29 |
| 2   | 86  | 79  | 73  | 68  | 77 | 71 | 66 | 62 | 57 | 54 | 51 | 45 | 42 | 40 | 33 | 31 | 30 | 25 |
| 3   | 78  | 69  | 62  | 56  | 70 | 63 | 57 | 52 | 51 | 46 | 43 | 39 | 36 | 34 | 29 | 27 | 25 | 21 |
| 4   | 72  | 61  | 53  | 47  | 64 | 55 | 49 | 44 | 45 | 40 | 36 | 35 | 32 | 29 | 26 | 24 | 22 | 18 |
| 5   | 66  | 54  | 46  | 40  | 59 | 49 | 42 | 37 | 40 | 35 | 31 | 31 | 28 | 25 | 23 | 21 | 19 | 15 |
| 6   | 60  | 49  | 41  | 35  | 54 | 44 | 37 | 32 | 36 | 31 | 27 | 28 | 25 | 22 | 21 | 19 | 17 | 14 |
| 7   | 56  | 44  | 36  | 31  | 50 | 40 | 33 | 28 | 33 | 27 | 24 | 26 | 22 | 19 | 19 | 17 | 15 | 12 |
| 8   | 52  | 40  | 32  | 27  | 47 | 36 | 30 | 25 | 30 | 25 | 21 | 23 | 20 | 17 | 18 | 15 | 13 | 11 |
| 9   | 48  | 36  | 29  | 24  | 43 | 33 | 27 | 22 | 27 | 22 | 19 | 22 | 18 | 15 | 16 | 14 | 12 | 10 |
| 10  | 45  | 33  | 26  | 21  | 40 | 30 | 24 | 20 | 25 | 20 | 17 | 20 | 16 | 14 | 15 | 13 | 11 | 9  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5890 | 5890 | 5890 |
| 5°  | 5919 | 5837 | 5877 |
| 10° | 5879 | 5786 | 5822 |
| 15° | 5810 | 5721 | 5731 |
| 20° | 5730 | 5628 | 5632 |
| 25° | 5621 | 5516 | 5505 |
| 30° | 5504 | 5392 | 5351 |
| 35° | 5380 | 5261 | 5194 |
| 40° | 5251 | 5117 | 5039 |
| 45° | 5107 | 4985 | 4864 |
| 50° | 4963 | 4823 | 4687 |
| 55° | 4778 | 4654 | 4511 |
| 60° | 4590 | 4456 | 4316 |
| 65° | 4422 | 4241 | 4111 |
| 70° | 4176 | 3997 | 3821 |
| 75° | 3818 | 3681 | 3523 |
| 80° | 3440 | 3298 | 3267 |
| 85° | 3013 | 2902 | 2791 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.5   | 1.3       |
| 10°-20°   | 145.6  | 3.6       |
| 20°-30°   | 215.0  | 5.3       |
| 30°-40°   | 251.2  | 6.2       |
| 40°-50°   | 252.5  | 6.2       |
| 50°-60°   | 221.8  | 5.4       |
| 60°-70°   | 165.2  | 4.1       |
| 70°-80°   | 94.1   | 2.3       |
| 80°-90°   | 29.8   | 0.7       |
| 90°-100°  | 62.2   | 1.5       |
| 100°-110° | 186.1  | 4.6       |
| 110°-120° | 316.4  | 7.8       |
| 120°-130° | 416.2  | 10.2      |
| 130°-140° | 467.8  | 11.5      |
| 140°-150° | 459.9  | 11.3      |
| 150°-160° | 387.1  | 9.5       |
| 160°-170° | 257.7  | 6.3       |
| 170°-180° | 90.2   | 2.2       |
| 0°-30°    | 412.1  | 10.1      |
| 0°-40°    | 663.3  | 16.3      |
| 0°-60°    | 1137.6 | 27.9      |
| 0°-90°    | 1426.8 | 35.1      |
| 90°-120°  | 564.7  | 13.9      |
| 90°-150°  | 1908.6 | 46.9      |
| 90°-180°  | 2644.0 | 65.0      |
| 0°-180°   | 4070.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 547 | 547   | 547 | 547   | 547 |      |
| 5°   | 548 | 545   | 540 | 545   | 544 | 52   |
| 15°  | 521 | 519   | 513 | 517   | 514 | 147  |
| 25°  | 473 | 470   | 464 | 465   | 464 | 218  |
| 35°  | 409 | 406   | 400 | 398   | 395 | 256  |
| 45°  | 336 | 333   | 328 | 322   | 320 | 259  |
| 55°  | 255 | 254   | 248 | 243   | 240 | 228  |
| 65°  | 174 | 171   | 166 | 163   | 161 | 171  |
| 75°  | 92  | 90    | 88  | 86    | 85  | 98   |
| 85°  | 24  | 24    | 24  | 23    | 23  | 27   |
| 90°  | 1   | 8     | 18  | 21    | 22  | 4    |
| 95°  | 44  | 50    | 55  | 58    | 58  | 50   |
| 105° | 169 | 170   | 177 | 177   | 178 | 181  |
| 115° | 319 | 321   | 319 | 320   | 319 | 315  |
| 125° | 466 | 468   | 467 | 464   | 461 | 416  |
| 135° | 605 | 609   | 609 | 606   | 604 | 466  |
| 145° | 734 | 735   | 738 | 737   | 734 | 458  |
| 155° | 840 | 840   | 841 | 844   | 839 | 387  |
| 165° | 915 | 913   | 913 | 917   | 912 | 258  |
| 175° | 952 | 949   | 949 | 953   | 948 | 90   |
| 180° | 954 | 954   | 954 | 954   | 954 |      |



TEST NUMBER: P332101-840

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 |
| 2.5°   | 549.2 | 548.8 | 548.5 | 548.2 | 547.8 | 547.1 | 546.2 | 545.3 | 544.4 | 543.5 | 544.3 |
| 5°     | 547.8 | 547.1 | 546.6 | 546.1 | 545.6 | 544.8 | 543.6 | 542.5 | 541.3 | 540.2 | 541.2 |
| 7.5°   | 542.4 | 541.8 | 541.3 | 540.8 | 540.3 | 539.4 | 538.3 | 537.0 | 535.8 | 534.6 | 535.5 |
| 10°    | 537.9 | 537.3 | 536.7 | 536.2 | 535.7 | 534.8 | 533.4 | 532.1 | 530.7 | 529.4 | 530.3 |
| 12.5°  | 531.8 | 531.4 | 530.9 | 530.5 | 530.1 | 529.2 | 528.0 | 526.6 | 525.3 | 524.1 | 524.8 |
| 15°    | 521.4 | 521.0 | 520.5 | 520.1 | 519.7 | 518.8 | 517.5 | 516.0 | 514.7 | 513.4 | 514.2 |
| 17.5°  | 509.2 | 508.7 | 508.2 | 507.6 | 507.1 | 506.1 | 504.7 | 503.4 | 502.0 | 500.7 | 501.2 |
| 20°    | 500.2 | 499.6 | 499.0 | 498.3 | 497.7 | 496.7 | 495.3 | 493.9 | 492.6 | 491.3 | 491.7 |
| 22.5°  | 490.0 | 489.4 | 488.8 | 488.2 | 487.6 | 486.6 | 485.1 | 483.8 | 482.4 | 481.1 | 481.4 |
| 25°    | 473.3 | 472.7 | 472.1 | 471.5 | 470.9 | 469.9 | 468.5 | 467.2 | 465.7 | 464.4 | 464.5 |
| 27.5°  | 455.6 | 454.9 | 454.3 | 453.7 | 453.1 | 452.1 | 450.7 | 449.2 | 447.8 | 446.3 | 446.4 |
| 30°    | 442.8 | 442.2 | 441.7 | 441.2 | 440.7 | 439.7 | 438.3 | 436.8 | 435.4 | 433.8 | 433.8 |
| 32.5°  | 430.0 | 429.3 | 428.6 | 427.9 | 427.3 | 426.3 | 425.2 | 424.0 | 422.9 | 421.8 | 421.2 |
| 35°    | 409.4 | 408.8 | 408.1 | 407.5 | 406.9 | 405.9 | 404.6 | 403.1 | 401.8 | 400.4 | 399.8 |
| 37.5°  | 388.3 | 387.5 | 386.7 | 385.9 | 385.2 | 384.1 | 382.6 | 381.2 | 379.9 | 378.5 | 377.8 |
| 40°    | 373.7 | 372.9 | 372.3 | 371.7 | 371.1 | 370.0 | 368.6 | 367.1 | 365.7 | 364.2 | 363.3 |
| 42.5°  | 358.9 | 358.2 | 357.5 | 356.8 | 356.1 | 355.0 | 353.6 | 352.0 | 350.6 | 349.1 | 348.3 |
| 45°    | 335.5 | 335.1 | 334.7 | 334.3 | 333.9 | 333.0 | 331.5 | 330.2 | 328.8 | 327.5 | 326.3 |
| 47.5°  | 312.3 | 311.6 | 311.0 | 310.4 | 309.8 | 308.9 | 307.6 | 306.3 | 305.1 | 303.8 | 302.6 |
| 50°    | 296.4 | 295.9 | 295.4 | 294.9 | 294.4 | 293.4 | 292.1 | 290.7 | 289.3 | 288.0 | 286.8 |
| 52.5°  | 279.8 | 279.5 | 279.1 | 278.8 | 278.4 | 277.5 | 276.1 | 274.7 | 273.3 | 271.8 | 270.8 |
| 55°    | 254.6 | 254.5 | 254.4 | 254.3 | 254.2 | 253.4 | 252.1 | 250.6 | 249.3 | 248.0 | 246.8 |
| 57.5°  | 230.5 | 230.1 | 229.7 | 229.4 | 229.0 | 228.3 | 227.2 | 226.1 | 225.1 | 224.0 | 223.0 |
| 60°    | 213.2 | 213.1 | 213.0 | 212.9 | 212.8 | 212.1 | 210.8 | 209.5 | 208.3 | 207.0 | 206.1 |
| 62.5°  | 197.7 | 197.4 | 197.2 | 196.9 | 196.6 | 195.9 | 194.6 | 193.4 | 192.1 | 190.9 | 190.0 |
| 65°    | 173.6 | 173.1 | 172.6 | 172.1 | 171.6 | 170.8 | 169.8 | 168.6 | 167.6 | 166.5 | 165.7 |
| 67.5°  | 148.1 | 147.6 | 147.2 | 146.7 | 146.3 | 145.6 | 144.9 | 144.1 | 143.3 | 142.5 | 141.8 |
| 70°    | 132.7 | 132.1 | 131.5 | 130.8 | 130.2 | 129.6 | 129.0 | 128.3 | 127.6 | 127.0 | 126.3 |
| 72.5°  | 116.5 | 116.0 | 115.6 | 115.1 | 114.6 | 114.1 | 113.4 | 112.7 | 112.0 | 111.3 | 110.6 |
| 75°    | 91.8  | 91.3  | 90.9  | 90.5  | 90.1  | 89.7  | 89.4  | 89.1  | 88.8  | 88.5  | 88.0  |
| 77.5°  | 69.8  | 69.6  | 69.4  | 69.2  | 68.9  | 68.6  | 68.3  | 67.9  | 67.5  | 67.1  | 66.8  |
| 80°    | 55.5  | 55.2  | 54.9  | 54.6  | 54.2  | 54.0  | 53.8  | 53.6  | 53.4  | 53.2  | 53.0  |
| 82.5°  | 41.6  | 41.5  | 41.5  | 41.4  | 41.3  | 41.3  | 41.2  | 41.2  | 41.2  | 41.1  | 40.9  |
| 85°    | 24.4  | 24.2  | 24.0  | 23.8  | 23.6  | 23.5  | 23.5  | 23.5  | 23.5  | 23.5  | 23.3  |
| 87.5°  | 9.9   | 10.0  | 10.1  | 10.2  | 10.3  | 10.5  | 10.8  | 11.2  | 11.5  | 11.9  | 11.9  |
| 90°    | 0.7   | 2.4   | 4.0   | 5.8   | 7.4   | 9.3   | 11.5  | 13.6  | 15.9  | 18.0  | 18.7  |
| 92.5°  | 18.2  | 19.3  | 20.4  | 21.5  | 22.6  | 23.8  | 25.0  | 26.4  | 27.6  | 28.8  | 29.3  |
| 95°    | 44.2  | 45.3  | 46.6  | 47.8  | 48.9  | 50.1  | 51.5  | 52.8  | 54.1  | 55.4  | 56.1  |
| 97.5°  | 78.6  | 79.4  | 80.3  | 81.2  | 82.0  | 82.9  | 83.9  | 84.8  | 85.8  | 86.8  | 87.6  |
| 100°   | 101.9 | 102.9 | 103.9 | 104.9 | 105.9 | 106.8 | 107.7 | 108.6 | 109.4 | 110.2 | 110.7 |
| 102.5° | 129.0 | 129.6 | 130.2 | 130.7 | 131.3 | 132.2 | 133.3 | 134.4 | 135.4 | 136.5 | 137.0 |
| 105°   | 168.6 | 169.0 | 169.4 | 169.7 | 170.0 | 170.9 | 172.4 | 173.9 | 175.4 | 176.9 | 176.9 |
| 107.5° | 214.8 | 215.0 | 215.2 | 215.4 | 215.6 | 216.0 | 216.6 | 217.2 | 217.8 | 218.4 | 218.9 |
| 110°   | 243.6 | 244.0 | 244.3 | 244.6 | 244.9 | 245.3 | 245.6 | 245.9 | 246.3 | 246.6 | 247.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 273.6 | 273.8 | 274.0 | 274.2 | 274.4 | 274.5 | 274.6 | 274.7 | 274.7 | 274.8 | 275.6 |
| 115°   | 318.6 | 319.0 | 319.5 | 320.0 | 320.5 | 320.6 | 320.3 | 320.0 | 319.6 | 319.3 | 319.5 |
| 117.5° | 363.9 | 364.2 | 364.5 | 364.9 | 365.2 | 365.2 | 364.7 | 364.3 | 363.9 | 363.3 | 363.3 |
| 120°   | 392.0 | 393.0 | 394.0 | 395.1 | 396.1 | 396.1 | 395.3 | 394.5 | 393.6 | 392.7 | 392.6 |
| 122.5° | 421.4 | 422.1 | 422.8 | 423.6 | 424.3 | 424.4 | 424.0 | 423.6 | 423.2 | 422.7 | 422.3 |
| 125°   | 466.3 | 466.8 | 467.3 | 467.8 | 468.3 | 468.3 | 468.0 | 467.7 | 467.3 | 467.0 | 466.4 |
| 127.5° | 507.6 | 508.7 | 509.8 | 510.8 | 511.9 | 512.2 | 511.9 | 511.5 | 511.1 | 510.8 | 509.8 |
| 130°   | 535.2 | 536.5 | 537.9 | 539.2 | 540.5 | 541.0 | 540.5 | 540.0 | 539.5 | 539.0 | 538.3 |
| 132.5° | 562.8 | 564.1 | 565.4 | 566.7 | 568.2 | 568.6 | 568.3 | 567.8 | 567.4 | 567.1 | 566.3 |
| 135°   | 604.9 | 605.9 | 606.9 | 607.9 | 608.8 | 609.4 | 609.2 | 608.9 | 608.8 | 608.6 | 607.9 |
| 137.5° | 643.9 | 644.7 | 645.5 | 646.4 | 647.2 | 647.8 | 648.2 | 648.7 | 649.1 | 649.5 | 648.8 |
| 140°   | 670.9 | 671.7 | 672.6 | 673.4 | 674.2 | 674.7 | 674.9 | 675.0 | 675.2 | 675.4 | 675.2 |
| 142.5° | 695.5 | 696.3 | 697.1 | 697.9 | 698.7 | 699.3 | 699.6 | 699.9 | 700.2 | 700.5 | 700.3 |
| 145°   | 733.9 | 734.2 | 734.5 | 734.8 | 735.2 | 735.6 | 736.1 | 736.6 | 737.1 | 737.6 | 737.4 |
| 147.5° | 767.4 | 768.0 | 768.6 | 769.2 | 769.8 | 770.3 | 770.8 | 771.2 | 771.7 | 772.2 | 772.2 |
| 150°   | 790.8 | 791.1 | 791.4 | 791.8 | 792.1 | 792.4 | 792.7 | 793.1 | 793.5 | 793.8 | 793.8 |
| 152.5° | 810.0 | 810.4 | 810.9 | 811.4 | 811.8 | 812.1 | 812.3 | 812.5 | 812.7 | 812.9 | 813.2 |
| 155°   | 840.3 | 840.3 | 840.3 | 840.3 | 840.3 | 840.3 | 840.5 | 840.7 | 840.8 | 841.0 | 841.7 |
| 157.5° | 866.1 | 865.9 | 865.7 | 865.5 | 865.3 | 865.3 | 865.4 | 865.5 | 865.7 | 865.8 | 866.5 |
| 160°   | 882.2 | 881.9 | 881.6 | 881.2 | 880.9 | 880.7 | 880.7 | 880.7 | 880.7 | 880.7 | 881.6 |
| 162.5° | 896.7 | 896.2 | 895.6 | 895.2 | 894.7 | 894.6 | 894.7 | 894.8 | 895.0 | 895.1 | 896.0 |
| 165°   | 915.2 | 914.7 | 914.2 | 913.7 | 913.2 | 912.9 | 912.9 | 912.9 | 912.9 | 912.9 | 913.9 |
| 167.5° | 930.1 | 929.4 | 928.8 | 928.1 | 927.4 | 927.2 | 927.3 | 927.4 | 927.6 | 927.7 | 928.7 |
| 170°   | 938.5 | 937.8 | 937.2 | 936.4 | 935.7 | 935.4 | 935.4 | 935.4 | 935.4 | 935.4 | 936.6 |
| 172.5° | 945.0 | 944.4 | 943.7 | 943.0 | 942.4 | 942.0 | 942.0 | 942.0 | 942.0 | 942.0 | 943.1 |
| 175°   | 951.9 | 951.3 | 950.6 | 950.0 | 949.3 | 949.0 | 949.0 | 949.0 | 949.0 | 949.0 | 950.0 |
| 177.5° | 954.8 | 954.2 | 953.7 | 953.2 | 952.7 | 952.4 | 952.4 | 952.4 | 952.4 | 952.4 | 953.2 |
| 180°   | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 |
| 2.5°   | 545.1 | 546.0 | 546.8 | 547.2 | 547.1 | 547.0 | 546.9 | 546.8 |
| 5°     | 542.3 | 543.3 | 544.4 | 544.8 | 544.6 | 544.4 | 544.1 | 543.9 |
| 7.5°   | 536.5 | 537.5 | 538.4 | 538.8 | 538.7 | 538.6 | 538.5 | 538.3 |
| 10°    | 531.3 | 532.2 | 533.1 | 533.5 | 533.3 | 533.1 | 532.9 | 532.7 |
| 12.5°  | 525.4 | 526.1 | 526.8 | 527.1 | 527.0 | 526.8 | 526.7 | 526.6 |
| 15°    | 515.0 | 515.8 | 516.7 | 516.8 | 516.1 | 515.5 | 514.9 | 514.3 |
| 17.5°  | 501.8 | 502.4 | 503.0 | 503.2 | 502.9 | 502.7 | 502.5 | 502.3 |
| 20°    | 492.1 | 492.5 | 492.9 | 493.0 | 492.6 | 492.3 | 492.0 | 491.7 |
| 22.5°  | 481.7 | 482.1 | 482.4 | 482.4 | 482.0 | 481.6 | 481.2 | 480.8 |
| 25°    | 464.6 | 464.7 | 464.8 | 464.7 | 464.4 | 464.1 | 463.8 | 463.5 |
| 27.5°  | 446.5 | 446.6 | 446.6 | 446.5 | 446.1 | 445.7 | 445.2 | 444.8 |
| 30°    | 433.8 | 433.8 | 433.8 | 433.4 | 432.7 | 432.0 | 431.3 | 430.5 |
| 32.5°  | 420.6 | 420.0 | 419.5 | 419.0 | 418.6 | 418.2 | 417.8 | 417.4 |
| 35°    | 399.2 | 398.6 | 397.9 | 397.4 | 396.9 | 396.3 | 395.8 | 395.3 |
| 37.5°  | 377.0 | 376.3 | 375.5 | 375.0 | 374.7 | 374.3 | 374.0 | 373.7 |
| 40°    | 362.5 | 361.7 | 360.8 | 360.2 | 359.8 | 359.4 | 359.0 | 358.6 |
| 42.5°  | 347.5 | 346.6 | 345.8 | 345.2 | 344.8 | 344.4 | 344.0 | 343.5 |
| 45°    | 325.0 | 323.8 | 322.4 | 321.6 | 321.0 | 320.5 | 320.0 | 319.5 |
| 47.5°  | 301.3 | 300.1 | 298.8 | 298.0 | 297.5 | 297.1 | 296.6 | 296.2 |
| 50°    | 285.7 | 284.5 | 283.4 | 282.5 | 281.9 | 281.2 | 280.6 | 279.9 |
| 52.5°  | 269.8 | 268.8 | 267.8 | 267.0 | 266.4 | 265.8 | 265.2 | 264.6 |
| 55°    | 245.7 | 244.5 | 243.4 | 242.6 | 242.1 | 241.5 | 241.0 | 240.4 |
| 57.5°  | 222.0 | 220.9 | 219.8 | 219.0 | 218.4 | 217.8 | 217.2 | 216.6 |
| 60°    | 205.2 | 204.2 | 203.3 | 202.6 | 202.0 | 201.5 | 201.0 | 200.5 |
| 62.5°  | 188.9 | 188.0 | 187.1 | 186.4 | 186.1 | 185.7 | 185.4 | 185.0 |
| 65°    | 164.9 | 164.1 | 163.2 | 162.7 | 162.4 | 162.0 | 161.7 | 161.4 |
| 67.5°  | 141.0 | 140.3 | 139.6 | 139.0 | 138.6 | 138.0 | 137.6 | 137.2 |
| 70°    | 125.6 | 124.8 | 124.1 | 123.5 | 123.0 | 122.5 | 121.9 | 121.4 |
| 72.5°  | 110.0 | 109.3 | 108.7 | 108.2 | 108.0 | 107.7 | 107.3 | 107.0 |
| 75°    | 87.5  | 86.8  | 86.3  | 85.9  | 85.6  | 85.3  | 85.0  | 84.7  |
| 77.5°  | 66.3  | 66.0  | 65.6  | 65.5  | 65.5  | 65.5  | 65.5  | 65.5  |
| 80°    | 52.9  | 52.8  | 52.7  | 52.7  | 52.7  | 52.7  | 52.7  | 52.7  |
| 82.5°  | 40.8  | 40.6  | 40.4  | 40.2  | 40.2  | 40.1  | 40.0  | 39.9  |
| 85°    | 23.1  | 22.9  | 22.7  | 22.6  | 22.6  | 22.6  | 22.6  | 22.6  |
| 87.5°  | 12.0  | 12.0  | 12.1  | 12.1  | 12.2  | 12.2  | 12.3  | 12.4  |
| 90°    | 19.3  | 20.0  | 20.7  | 21.1  | 21.5  | 21.8  | 22.1  | 22.5  |
| 92.5°  | 29.9  | 30.4  | 30.9  | 31.1  | 30.9  | 30.7  | 30.5  | 30.3  |
| 95°    | 56.8  | 57.5  | 58.2  | 58.5  | 58.5  | 58.5  | 58.5  | 58.5  |
| 97.5°  | 88.4  | 89.1  | 89.9  | 90.2  | 90.2  | 90.1  | 90.0  | 90.0  |
| 100°   | 111.2 | 111.7 | 112.2 | 112.6 | 112.9 | 113.3 | 113.6 | 113.9 |
| 102.5° | 137.5 | 138.0 | 138.6 | 138.8 | 138.8 | 138.7 | 138.6 | 138.6 |
| 105°   | 176.9 | 176.9 | 176.9 | 177.0 | 177.4 | 177.7 | 178.0 | 178.4 |
| 107.5° | 219.4 | 220.0 | 220.6 | 220.8 | 220.6 | 220.4 | 220.2 | 219.9 |
| 110°   | 247.9 | 248.6 | 249.2 | 249.4 | 249.1 | 248.7 | 248.4 | 248.1 |





TEST NUMBER: P332101-840

CATALOG NUMBER: S123DIW-S340D755U840-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 276.4 | 277.2 | 278.0 | 278.3 | 278.3 | 278.2 | 278.1 | 278.1 |
| 115°   | 319.6 | 319.8 | 320.0 | 320.0 | 319.8 | 319.6 | 319.5 | 319.3 |
| 117.5° | 363.3 | 363.2 | 363.2 | 363.0 | 362.5 | 362.0 | 361.6 | 361.1 |
| 120°   | 392.4 | 392.2 | 392.1 | 391.8 | 391.5 | 391.2 | 390.8 | 390.5 |
| 122.5° | 421.9 | 421.4 | 421.0 | 420.6 | 420.1 | 419.6 | 419.2 | 418.7 |
| 125°   | 465.6 | 464.9 | 464.3 | 463.6 | 463.0 | 462.3 | 461.6 | 461.0 |
| 127.5° | 508.9 | 508.0 | 507.1 | 506.1 | 505.4 | 504.6 | 503.9 | 503.1 |
| 130°   | 537.7 | 536.9 | 536.2 | 535.3 | 534.2 | 533.0 | 531.9 | 530.7 |
| 132.5° | 565.5 | 564.7 | 563.9 | 563.1 | 562.2 | 561.3 | 560.4 | 559.5 |
| 135°   | 607.3 | 606.6 | 606.0 | 605.5 | 605.1 | 604.8 | 604.5 | 604.1 |
| 137.5° | 648.1 | 647.4 | 646.8 | 646.1 | 645.5 | 644.8 | 644.2 | 643.6 |
| 140°   | 675.0 | 674.9 | 674.7 | 674.0 | 672.9 | 671.7 | 670.6 | 669.3 |
| 142.5° | 700.2 | 700.0 | 699.8 | 699.3 | 698.4 | 697.5 | 696.6 | 695.7 |
| 145°   | 737.2 | 737.1 | 736.9 | 736.5 | 735.8 | 735.2 | 734.5 | 733.9 |
| 147.5° | 772.2 | 772.2 | 772.2 | 771.7 | 770.7 | 769.7 | 768.7 | 767.7 |
| 150°   | 793.8 | 793.8 | 793.8 | 793.2 | 792.2 | 791.3 | 790.3 | 789.3 |
| 152.5° | 813.5 | 813.7 | 814.1 | 813.7 | 812.8 | 812.0 | 811.1 | 810.3 |
| 155°   | 842.3 | 843.0 | 843.6 | 843.4 | 842.2 | 841.1 | 839.9 | 838.8 |
| 157.5° | 867.2 | 867.9 | 868.6 | 868.4 | 867.5 | 866.6 | 865.7 | 864.6 |
| 160°   | 882.4 | 883.2 | 884.0 | 884.1 | 883.5 | 882.8 | 882.1 | 881.5 |
| 162.5° | 896.8 | 897.7 | 898.5 | 898.4 | 897.3 | 896.3 | 895.1 | 894.0 |
| 165°   | 914.9 | 915.9 | 917.0 | 916.9 | 915.7 | 914.5 | 913.4 | 912.2 |
| 167.5° | 929.7 | 930.8 | 931.8 | 931.8 | 930.8 | 929.7 | 928.7 | 927.7 |
| 170°   | 937.8 | 939.0 | 940.1 | 940.1 | 939.0 | 937.8 | 936.6 | 935.4 |
| 172.5° | 944.1 | 945.1 | 946.1 | 946.1 | 944.9 | 943.8 | 942.6 | 941.5 |
| 175°   | 951.0 | 951.9 | 952.9 | 952.9 | 951.7 | 950.5 | 949.4 | 948.2 |
| 177.5° | 954.0 | 954.8 | 955.6 | 955.5 | 954.6 | 953.6 | 952.7 | 951.8 |
| 180°   | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 | 954.2 |

(END OF REPORT)