

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: P331890

Luminaire Tested: **S123DIP-S340D805U835-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331890
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: S123DIP-S340D805U835-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4170.6 lumens
Efficiency: N/A
Efficacy: 133.7 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

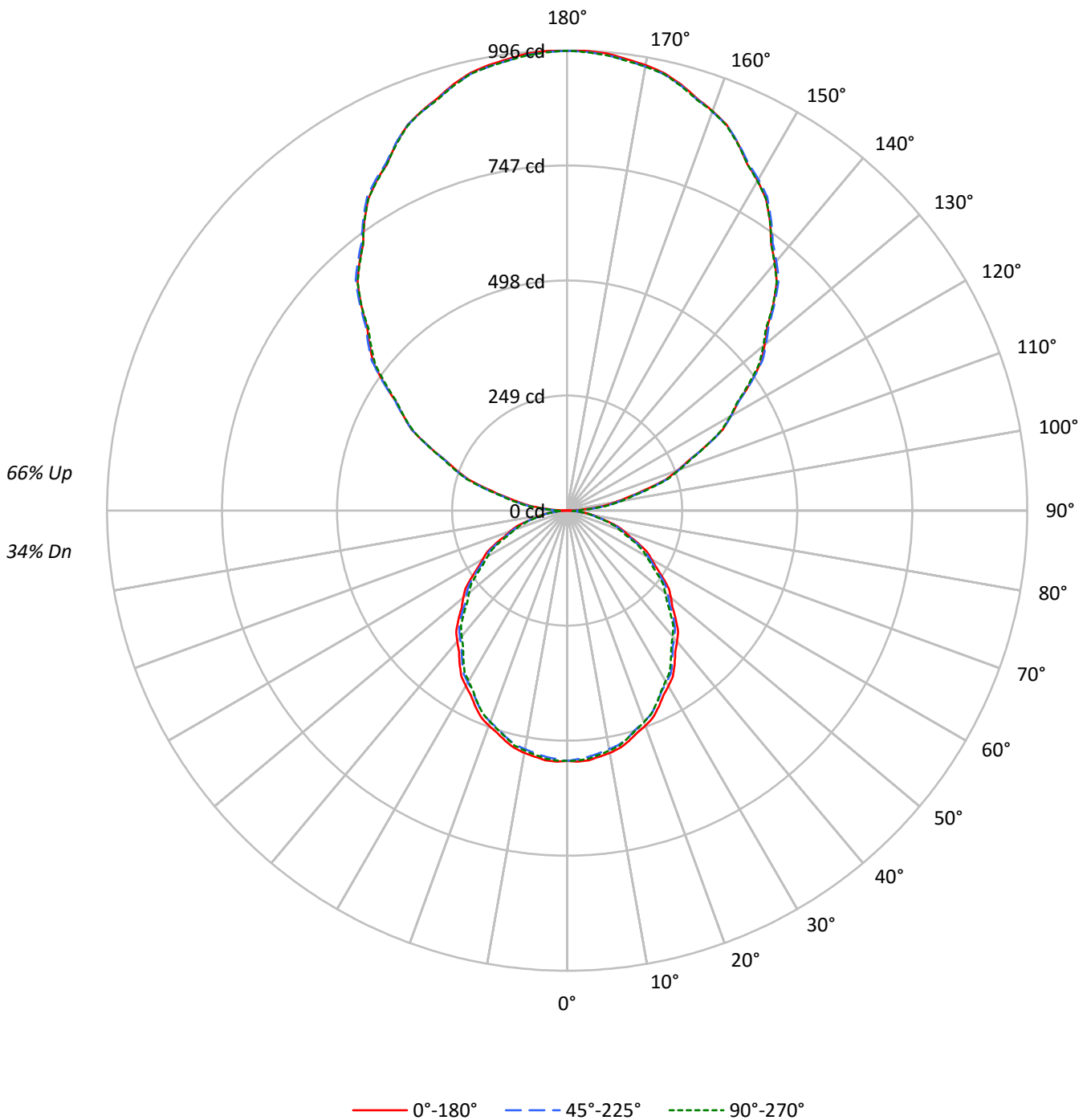
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331890

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331890

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-F1

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 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 57 | 57 | 57 | 41 | 41 | 41 | 34 |
| 1 | 94 | 90 | 86 | 83 | 85 | 81 | 78 | 75 | 65 | 63 | 61 | 50 | 49 | 47 | 36 | 36 | 35 | 28 |
| 2 | 86 | 78 | 72 | 67 | 77 | 71 | 66 | 62 | 57 | 53 | 50 | 44 | 42 | 39 | 32 | 31 | 29 | 24 |
| 3 | 78 | 69 | 62 | 56 | 70 | 62 | 56 | 51 | 50 | 46 | 42 | 39 | 36 | 33 | 28 | 26 | 25 | 20 |
| 4 | 71 | 61 | 53 | 47 | 64 | 55 | 49 | 43 | 44 | 40 | 36 | 35 | 31 | 28 | 25 | 23 | 21 | 17 |
| 5 | 65 | 54 | 46 | 40 | 59 | 49 | 42 | 37 | 40 | 35 | 31 | 31 | 27 | 25 | 23 | 20 | 19 | 15 |
| 6 | 60 | 48 | 40 | 35 | 54 | 44 | 37 | 32 | 36 | 31 | 27 | 28 | 24 | 21 | 21 | 18 | 16 | 13 |
| 7 | 56 | 44 | 36 | 30 | 50 | 40 | 33 | 28 | 32 | 27 | 23 | 25 | 22 | 19 | 19 | 16 | 14 | 12 |
| 8 | 51 | 39 | 32 | 27 | 46 | 36 | 29 | 25 | 29 | 24 | 21 | 23 | 19 | 17 | 17 | 15 | 13 | 10 |
| 9 | 48 | 36 | 29 | 24 | 43 | 33 | 26 | 22 | 27 | 22 | 18 | 21 | 18 | 15 | 16 | 13 | 12 | 9 |
| 10 | 45 | 33 | 26 | 21 | 40 | 30 | 24 | 20 | 25 | 20 | 17 | 20 | 16 | 14 | 15 | 12 | 11 | 9 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5833 | 5833 | 5833 |
| 5° | 5861 | 5780 | 5820 |
| 10° | 5821 | 5729 | 5766 |
| 15° | 5753 | 5665 | 5675 |
| 20° | 5674 | 5573 | 5577 |
| 25° | 5567 | 5462 | 5451 |
| 30° | 5450 | 5340 | 5299 |
| 35° | 5327 | 5210 | 5143 |
| 40° | 5199 | 5067 | 4990 |
| 45° | 5057 | 4937 | 4816 |
| 50° | 4915 | 4776 | 4642 |
| 55° | 4731 | 4609 | 4468 |
| 60° | 4545 | 4413 | 4273 |
| 65° | 4378 | 4200 | 4070 |
| 70° | 4135 | 3959 | 3783 |
| 75° | 3780 | 3643 | 3489 |
| 80° | 3409 | 3267 | 3236 |
| 85° | 2989 | 2878 | 2766 |



TEST NUMBER: P331890

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 51.0 | 1.2 |
| 10°-20° | 144.1 | 3.5 |
| 20°-30° | 212.9 | 5.1 |
| 30°-40° | 248.7 | 6.0 |
| 40°-50° | 250.0 | 6.0 |
| 50°-60° | 219.6 | 5.3 |
| 60°-70° | 163.6 | 3.9 |
| 70°-80° | 93.2 | 2.2 |
| 80°-90° | 29.7 | 0.7 |
| 90°-100° | 64.8 | 1.6 |
| 100°-110° | 194.1 | 4.7 |
| 110°-120° | 330.1 | 7.9 |
| 120°-130° | 434.2 | 10.4 |
| 130°-140° | 488.0 | 11.7 |
| 140°-150° | 479.7 | 11.5 |
| 150°-160° | 403.8 | 9.7 |
| 160°-170° | 268.8 | 6.4 |
| 170°-180° | 94.1 | 2.3 |
| 0°-30° | 408.1 | 9.8 |
| 0°-40° | 656.8 | 15.7 |
| 0°-60° | 1126.5 | 27.0 |
| 0°-90° | 1413.0 | 33.9 |
| 90°-120° | 589.0 | 14.1 |
| 90°-150° | 1990.8 | 47.7 |
| 90°-180° | 2758.0 | 66.1 |
| 0°-180° | 4170.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 542 | 542 | 542 | 542 | 542 | |
| 5° | 542 | 540 | 535 | 539 | 539 | 51 |
| 15° | 516 | 514 | 508 | 512 | 509 | 145 |
| 25° | 469 | 466 | 460 | 460 | 459 | 216 |
| 35° | 405 | 402 | 396 | 394 | 391 | 254 |
| 45° | 332 | 330 | 324 | 319 | 316 | 256 |
| 55° | 252 | 251 | 246 | 241 | 238 | 226 |
| 65° | 172 | 170 | 165 | 161 | 160 | 170 |
| 75° | 91 | 89 | 88 | 85 | 84 | 97 |
| 85° | 24 | 23 | 23 | 22 | 22 | 27 |
| 90° | 1 | 9 | 19 | 22 | 24 | 4 |
| 95° | 46 | 52 | 58 | 61 | 61 | 52 |
| 105° | 176 | 178 | 184 | 185 | 186 | 188 |
| 115° | 332 | 334 | 333 | 334 | 333 | 329 |
| 125° | 486 | 488 | 487 | 484 | 481 | 434 |
| 135° | 631 | 635 | 635 | 632 | 630 | 486 |
| 145° | 765 | 767 | 769 | 768 | 765 | 478 |
| 155° | 876 | 876 | 877 | 880 | 875 | 403 |
| 165° | 955 | 952 | 952 | 956 | 952 | 269 |
| 175° | 993 | 990 | 990 | 994 | 989 | 94 |
| 180° | 995 | 995 | 995 | 995 | 995 | |



TEST NUMBER: P331890

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 541.9 | 541.9 | 541.9 | 541.9 | 541.9 | 541.9 | 541.9 | 541.9 | 541.9 | 541.9 | 541.9 |
| 2.5° | 543.8 | 543.4 | 543.1 | 542.8 | 542.4 | 541.8 | 540.9 | 540.0 | 539.1 | 538.2 | 539.0 |
| 5° | 542.4 | 541.8 | 541.3 | 540.8 | 540.3 | 539.5 | 538.3 | 537.2 | 536.0 | 534.9 | 535.9 |
| 7.5° | 537.1 | 536.5 | 536.0 | 535.5 | 535.0 | 534.1 | 533.0 | 531.8 | 530.6 | 529.4 | 530.3 |
| 10° | 532.6 | 532.1 | 531.5 | 531.0 | 530.5 | 529.6 | 528.2 | 526.9 | 525.5 | 524.2 | 525.1 |
| 12.5° | 526.6 | 526.2 | 525.7 | 525.3 | 524.9 | 524.0 | 522.8 | 521.5 | 520.2 | 519.0 | 519.7 |
| 15° | 516.3 | 515.9 | 515.4 | 515.0 | 514.6 | 513.7 | 512.4 | 511.0 | 509.7 | 508.4 | 509.2 |
| 17.5° | 504.2 | 503.7 | 503.2 | 502.6 | 502.1 | 501.2 | 499.8 | 498.5 | 497.1 | 495.8 | 496.3 |
| 20° | 495.3 | 494.7 | 494.1 | 493.4 | 492.8 | 491.8 | 490.5 | 489.1 | 487.8 | 486.5 | 486.9 |
| 22.5° | 485.2 | 484.6 | 484.0 | 483.4 | 482.8 | 481.8 | 480.4 | 479.1 | 477.7 | 476.4 | 476.7 |
| 25° | 468.7 | 468.1 | 467.5 | 466.9 | 466.3 | 465.3 | 463.9 | 462.6 | 461.2 | 459.9 | 460.0 |
| 27.5° | 451.1 | 450.5 | 449.9 | 449.3 | 448.7 | 447.7 | 446.3 | 444.8 | 443.4 | 441.9 | 442.0 |
| 30° | 438.5 | 437.9 | 437.4 | 436.9 | 436.4 | 435.4 | 434.0 | 432.5 | 431.1 | 429.6 | 429.6 |
| 32.5° | 425.8 | 425.1 | 424.4 | 423.7 | 423.1 | 422.1 | 421.0 | 419.9 | 418.8 | 417.7 | 417.1 |
| 35° | 405.4 | 404.8 | 404.1 | 403.5 | 402.9 | 401.9 | 400.6 | 399.2 | 397.9 | 396.5 | 395.9 |
| 37.5° | 384.5 | 383.7 | 382.9 | 382.1 | 381.4 | 380.3 | 378.9 | 377.5 | 376.2 | 374.8 | 374.1 |
| 40° | 370.0 | 369.3 | 368.7 | 368.1 | 367.5 | 366.4 | 365.0 | 363.5 | 362.1 | 360.6 | 359.8 |
| 42.5° | 355.4 | 354.7 | 354.0 | 353.3 | 352.6 | 351.5 | 350.1 | 348.6 | 347.2 | 345.7 | 344.9 |
| 45° | 332.2 | 331.8 | 331.4 | 331.0 | 330.6 | 329.7 | 328.3 | 327.0 | 325.6 | 324.3 | 323.1 |
| 47.5° | 309.2 | 308.6 | 308.0 | 307.4 | 306.8 | 305.9 | 304.6 | 303.3 | 302.1 | 300.8 | 299.6 |
| 50° | 293.5 | 293.0 | 292.5 | 292.0 | 291.5 | 290.5 | 289.2 | 287.9 | 286.5 | 285.2 | 284.0 |
| 52.5° | 277.1 | 276.8 | 276.4 | 276.1 | 275.7 | 274.8 | 273.4 | 272.0 | 270.6 | 269.1 | 268.2 |
| 55° | 252.1 | 252.0 | 251.9 | 251.8 | 251.7 | 250.9 | 249.6 | 248.2 | 246.9 | 245.6 | 244.4 |
| 57.5° | 228.2 | 227.9 | 227.5 | 227.2 | 226.8 | 226.1 | 225.0 | 223.9 | 222.9 | 221.8 | 220.8 |
| 60° | 211.1 | 211.0 | 210.9 | 210.8 | 210.7 | 210.0 | 208.7 | 207.5 | 206.3 | 205.0 | 204.1 |
| 62.5° | 195.8 | 195.5 | 195.3 | 195.0 | 194.7 | 194.0 | 192.7 | 191.5 | 190.2 | 189.0 | 188.1 |
| 65° | 171.9 | 171.4 | 170.9 | 170.4 | 169.9 | 169.1 | 168.1 | 167.0 | 166.0 | 164.9 | 164.1 |
| 67.5° | 146.7 | 146.2 | 145.8 | 145.3 | 144.9 | 144.2 | 143.5 | 142.7 | 141.9 | 141.1 | 140.4 |
| 70° | 131.4 | 130.8 | 130.2 | 129.5 | 128.9 | 128.3 | 127.7 | 127.0 | 126.4 | 125.8 | 125.1 |
| 72.5° | 115.4 | 114.9 | 114.5 | 114.0 | 113.5 | 113.0 | 112.3 | 111.6 | 110.9 | 110.2 | 109.5 |
| 75° | 90.9 | 90.4 | 90.0 | 89.6 | 89.2 | 88.8 | 88.5 | 88.2 | 87.9 | 87.6 | 87.1 |
| 77.5° | 69.1 | 68.9 | 68.7 | 68.5 | 68.2 | 67.9 | 67.6 | 67.2 | 66.8 | 66.4 | 66.1 |
| 80° | 55.0 | 54.7 | 54.4 | 54.1 | 53.7 | 53.5 | 53.3 | 53.1 | 52.9 | 52.7 | 52.5 |
| 82.5° | 41.2 | 41.1 | 41.1 | 41.0 | 40.9 | 40.9 | 40.8 | 40.8 | 40.8 | 40.7 | 40.5 |
| 85° | 24.2 | 24.0 | 23.8 | 23.6 | 23.4 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.1 |
| 87.5° | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.5 | 10.8 | 11.2 | 11.6 | 12.0 | 12.0 |
| 90° | 0.8 | 2.5 | 4.3 | 6.0 | 7.7 | 9.7 | 12.0 | 14.2 | 16.5 | 18.8 | 19.5 |
| 92.5° | 18.9 | 20.1 | 21.3 | 22.5 | 23.6 | 24.9 | 26.2 | 27.5 | 28.7 | 30.0 | 30.6 |
| 95° | 46.1 | 47.3 | 48.6 | 49.8 | 51.0 | 52.3 | 53.7 | 55.1 | 56.5 | 57.9 | 58.6 |
| 97.5° | 81.9 | 82.8 | 83.7 | 84.6 | 85.6 | 86.5 | 87.5 | 88.5 | 89.5 | 90.5 | 91.3 |
| 100° | 106.3 | 107.4 | 108.4 | 109.5 | 110.5 | 111.5 | 112.3 | 113.2 | 114.1 | 114.9 | 115.5 |
| 102.5° | 134.5 | 135.1 | 135.7 | 136.4 | 137.0 | 137.9 | 139.0 | 140.2 | 141.3 | 142.5 | 143.0 |
| 105° | 175.9 | 176.3 | 176.6 | 177.0 | 177.3 | 178.3 | 179.8 | 181.4 | 183.0 | 184.5 | 184.5 |
| 107.5° | 224.1 | 224.3 | 224.5 | 224.7 | 224.9 | 225.3 | 226.0 | 226.6 | 227.2 | 227.8 | 228.4 |
| 110° | 254.1 | 254.4 | 254.8 | 255.1 | 255.5 | 255.8 | 256.2 | 256.5 | 256.9 | 257.2 | 257.9 |



TEST NUMBER: P331890

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 285.4 | 285.6 | 285.8 | 286.0 | 286.2 | 286.3 | 286.4 | 286.5 | 286.6 | 286.6 | 287.5 |
| 115° | 332.3 | 332.8 | 333.3 | 333.8 | 334.4 | 334.5 | 334.1 | 333.8 | 333.4 | 333.1 | 333.2 |
| 117.5° | 379.5 | 379.9 | 380.2 | 380.5 | 380.9 | 380.8 | 380.4 | 379.9 | 379.5 | 379.0 | 379.0 |
| 120° | 408.9 | 409.9 | 411.0 | 412.0 | 413.1 | 413.2 | 412.3 | 411.4 | 410.6 | 409.7 | 409.5 |
| 122.5° | 439.6 | 440.3 | 441.1 | 441.8 | 442.6 | 442.8 | 442.3 | 441.9 | 441.4 | 441.0 | 440.5 |
| 125° | 486.3 | 486.8 | 487.3 | 487.9 | 488.4 | 488.5 | 488.1 | 487.8 | 487.4 | 487.1 | 486.4 |
| 127.5° | 529.5 | 530.6 | 531.7 | 532.8 | 533.9 | 534.3 | 533.9 | 533.5 | 533.1 | 532.7 | 531.8 |
| 130° | 558.2 | 559.6 | 561.0 | 562.4 | 563.8 | 564.2 | 563.7 | 563.2 | 562.7 | 562.1 | 561.4 |
| 132.5° | 587.0 | 588.4 | 589.8 | 591.2 | 592.6 | 593.1 | 592.7 | 592.3 | 591.9 | 591.5 | 590.7 |
| 135° | 630.9 | 632.0 | 633.0 | 634.1 | 635.1 | 635.6 | 635.4 | 635.2 | 635.0 | 634.9 | 634.2 |
| 137.5° | 671.6 | 672.5 | 673.3 | 674.2 | 675.1 | 675.7 | 676.2 | 676.6 | 677.1 | 677.5 | 676.8 |
| 140° | 699.7 | 700.6 | 701.5 | 702.4 | 703.2 | 703.7 | 703.9 | 704.1 | 704.3 | 704.4 | 704.3 |
| 142.5° | 725.4 | 726.3 | 727.1 | 728.0 | 728.9 | 729.5 | 729.8 | 730.1 | 730.4 | 730.7 | 730.5 |
| 145° | 765.4 | 765.8 | 766.1 | 766.5 | 766.8 | 767.2 | 767.8 | 768.3 | 768.8 | 769.3 | 769.2 |
| 147.5° | 800.5 | 801.1 | 801.7 | 802.3 | 803.0 | 803.5 | 804.0 | 804.5 | 805.0 | 805.5 | 805.5 |
| 150° | 824.8 | 825.2 | 825.5 | 825.9 | 826.2 | 826.6 | 826.9 | 827.3 | 827.6 | 828.0 | 828.0 |
| 152.5° | 844.9 | 845.3 | 845.8 | 846.3 | 846.8 | 847.2 | 847.4 | 847.6 | 847.8 | 848.0 | 848.3 |
| 155° | 876.4 | 876.4 | 876.4 | 876.4 | 876.4 | 876.5 | 876.7 | 876.9 | 877.1 | 877.2 | 877.9 |
| 157.5° | 903.3 | 903.1 | 902.9 | 902.7 | 902.5 | 902.5 | 902.6 | 902.8 | 902.9 | 903.0 | 903.8 |
| 160° | 920.2 | 919.9 | 919.5 | 919.2 | 918.8 | 918.7 | 918.7 | 918.7 | 918.7 | 918.7 | 919.5 |
| 162.5° | 935.2 | 934.8 | 934.3 | 933.8 | 933.3 | 933.1 | 933.3 | 933.4 | 933.5 | 933.7 | 934.5 |
| 165° | 954.6 | 954.1 | 953.6 | 953.1 | 952.5 | 952.3 | 952.3 | 952.3 | 952.3 | 952.3 | 953.3 |
| 167.5° | 970.1 | 969.4 | 968.7 | 968.0 | 967.3 | 967.1 | 967.2 | 967.3 | 967.5 | 967.6 | 968.7 |
| 170° | 978.9 | 978.2 | 977.5 | 976.8 | 976.1 | 975.7 | 975.7 | 975.7 | 975.7 | 975.7 | 977.0 |
| 172.5° | 985.7 | 985.1 | 984.4 | 983.7 | 983.0 | 982.6 | 982.6 | 982.6 | 982.6 | 982.6 | 983.7 |
| 175° | 992.9 | 992.2 | 991.6 | 990.9 | 990.2 | 989.8 | 989.8 | 989.8 | 989.8 | 989.8 | 990.9 |
| 177.5° | 995.9 | 995.4 | 994.8 | 994.2 | 993.7 | 993.4 | 993.4 | 993.4 | 993.4 | 993.4 | 994.2 |
| 180° | 995.3 | 995.3 | 995.3 | 995.3 | 995.3 | 995.3 | 995.3 | 995.3 | 995.3 | 995.3 | 995.3 |



TEST NUMBER: P331890

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 541.9 | 541.9 | 541.9 | 541.9 | 541.9 | 541.9 | 541.9 | 541.9 |
| 2.5° | 539.8 | 540.7 | 541.5 | 541.9 | 541.8 | 541.7 | 541.6 | 541.5 |
| 5° | 537.0 | 538.0 | 539.1 | 539.5 | 539.3 | 539.1 | 538.8 | 538.6 |
| 7.5° | 531.3 | 532.2 | 533.1 | 533.5 | 533.4 | 533.3 | 533.2 | 533.0 |
| 10° | 526.1 | 527.0 | 527.9 | 528.3 | 528.1 | 527.9 | 527.7 | 527.5 |
| 12.5° | 520.3 | 521.0 | 521.7 | 522.0 | 521.9 | 521.7 | 521.6 | 521.5 |
| 15° | 510.0 | 510.8 | 511.7 | 511.8 | 511.1 | 510.5 | 509.9 | 509.3 |
| 17.5° | 496.9 | 497.5 | 498.1 | 498.3 | 498.0 | 497.8 | 497.6 | 497.4 |
| 20° | 487.3 | 487.7 | 488.1 | 488.2 | 487.8 | 487.5 | 487.2 | 486.9 |
| 22.5° | 477.0 | 477.4 | 477.7 | 477.7 | 477.3 | 476.9 | 476.5 | 476.1 |
| 25° | 460.1 | 460.2 | 460.3 | 460.2 | 459.9 | 459.6 | 459.3 | 459.0 |
| 27.5° | 442.1 | 442.2 | 442.2 | 442.1 | 441.7 | 441.3 | 440.9 | 440.5 |
| 30° | 429.6 | 429.6 | 429.6 | 429.2 | 428.5 | 427.8 | 427.1 | 426.3 |
| 32.5° | 416.5 | 415.9 | 415.4 | 414.9 | 414.5 | 414.1 | 413.7 | 413.3 |
| 35° | 395.3 | 394.7 | 394.0 | 393.5 | 393.0 | 392.4 | 391.9 | 391.4 |
| 37.5° | 373.3 | 372.6 | 371.8 | 371.3 | 371.0 | 370.6 | 370.3 | 370.0 |
| 40° | 359.0 | 358.2 | 357.3 | 356.7 | 356.3 | 355.9 | 355.5 | 355.1 |
| 42.5° | 344.1 | 343.2 | 342.4 | 341.8 | 341.4 | 341.0 | 340.6 | 340.1 |
| 45° | 321.8 | 320.6 | 319.3 | 318.5 | 317.9 | 317.4 | 316.9 | 316.4 |
| 47.5° | 298.4 | 297.2 | 295.9 | 295.1 | 294.6 | 294.2 | 293.7 | 293.3 |
| 50° | 282.9 | 281.7 | 280.6 | 279.7 | 279.1 | 278.5 | 277.9 | 277.2 |
| 52.5° | 267.2 | 266.2 | 265.2 | 264.4 | 263.8 | 263.2 | 262.6 | 262.0 |
| 55° | 243.3 | 242.1 | 241.0 | 240.2 | 239.7 | 239.1 | 238.6 | 238.1 |
| 57.5° | 219.8 | 218.7 | 217.7 | 216.9 | 216.3 | 215.7 | 215.1 | 214.5 |
| 60° | 203.2 | 202.2 | 201.3 | 200.6 | 200.0 | 199.5 | 199.0 | 198.5 |
| 62.5° | 187.1 | 186.2 | 185.3 | 184.6 | 184.3 | 183.9 | 183.6 | 183.2 |
| 65° | 163.3 | 162.5 | 161.6 | 161.1 | 160.8 | 160.4 | 160.1 | 159.8 |
| 67.5° | 139.6 | 138.9 | 138.2 | 137.6 | 137.2 | 136.7 | 136.3 | 135.9 |
| 70° | 124.4 | 123.6 | 122.9 | 122.3 | 121.8 | 121.3 | 120.7 | 120.2 |
| 72.5° | 108.9 | 108.2 | 107.6 | 107.1 | 106.9 | 106.6 | 106.3 | 106.0 |
| 75° | 86.6 | 86.0 | 85.5 | 85.1 | 84.8 | 84.5 | 84.2 | 83.9 |
| 77.5° | 65.7 | 65.4 | 65.0 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 |
| 80° | 52.4 | 52.3 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 |
| 82.5° | 40.4 | 40.2 | 40.0 | 39.8 | 39.8 | 39.7 | 39.6 | 39.5 |
| 85° | 22.9 | 22.7 | 22.5 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 |
| 87.5° | 12.1 | 12.1 | 12.2 | 12.2 | 12.3 | 12.4 | 12.4 | 12.5 |
| 90° | 20.2 | 20.8 | 21.5 | 22.1 | 22.4 | 22.8 | 23.1 | 23.5 |
| 92.5° | 31.1 | 31.7 | 32.2 | 32.4 | 32.2 | 32.0 | 31.8 | 31.6 |
| 95° | 59.2 | 59.9 | 60.6 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 |
| 97.5° | 92.1 | 92.9 | 93.7 | 94.1 | 94.0 | 94.0 | 93.9 | 93.8 |
| 100° | 116.0 | 116.5 | 117.0 | 117.5 | 117.8 | 118.1 | 118.5 | 118.8 |
| 102.5° | 143.5 | 144.0 | 144.5 | 144.8 | 144.7 | 144.6 | 144.6 | 144.5 |
| 105° | 184.5 | 184.5 | 184.5 | 184.7 | 185.0 | 185.4 | 185.7 | 186.1 |
| 107.5° | 228.9 | 229.5 | 230.1 | 230.2 | 230.0 | 229.8 | 229.6 | 229.4 |
| 110° | 258.6 | 259.3 | 260.0 | 260.2 | 259.8 | 259.5 | 259.1 | 258.8 |



TEST NUMBER: P331890

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 288.3 | 289.1 | 290.0 | 290.3 | 290.3 | 290.2 | 290.1 | 290.1 |
| 115° | 333.4 | 333.6 | 333.8 | 333.8 | 333.6 | 333.4 | 333.2 | 333.1 |
| 117.5° | 379.0 | 378.9 | 378.9 | 378.6 | 378.2 | 377.7 | 377.2 | 376.7 |
| 120° | 409.3 | 409.2 | 409.0 | 408.7 | 408.4 | 408.0 | 407.7 | 407.3 |
| 122.5° | 440.1 | 439.6 | 439.2 | 438.7 | 438.2 | 437.7 | 437.2 | 436.7 |
| 125° | 485.7 | 485.0 | 484.3 | 483.6 | 482.9 | 482.2 | 481.5 | 480.8 |
| 127.5° | 530.8 | 529.8 | 528.9 | 528.0 | 527.2 | 526.4 | 525.6 | 524.8 |
| 130° | 560.8 | 560.1 | 559.4 | 558.4 | 557.2 | 556.0 | 554.8 | 553.5 |
| 132.5° | 589.9 | 589.0 | 588.2 | 587.3 | 586.4 | 585.4 | 584.5 | 583.6 |
| 135° | 633.5 | 632.8 | 632.1 | 631.6 | 631.2 | 630.9 | 630.5 | 630.2 |
| 137.5° | 676.1 | 675.4 | 674.6 | 673.9 | 673.3 | 672.6 | 672.0 | 671.3 |
| 140° | 704.1 | 703.9 | 703.7 | 703.1 | 701.8 | 700.6 | 699.4 | 698.2 |
| 142.5° | 730.4 | 730.2 | 730.0 | 729.5 | 728.5 | 727.6 | 726.6 | 725.7 |
| 145° | 769.0 | 768.8 | 768.6 | 768.2 | 767.5 | 766.8 | 766.1 | 765.4 |
| 147.5° | 805.5 | 805.5 | 805.5 | 804.9 | 803.9 | 802.8 | 801.8 | 800.8 |
| 150° | 828.0 | 828.0 | 828.0 | 827.5 | 826.4 | 825.4 | 824.3 | 823.3 |
| 152.5° | 848.5 | 848.8 | 849.1 | 848.8 | 847.9 | 847.0 | 846.1 | 845.2 |
| 155° | 878.6 | 879.3 | 880.0 | 879.7 | 878.5 | 877.3 | 876.1 | 874.9 |
| 157.5° | 904.5 | 905.2 | 905.9 | 905.8 | 904.9 | 903.9 | 902.9 | 901.9 |
| 160° | 920.4 | 921.3 | 922.1 | 922.2 | 921.5 | 920.8 | 920.1 | 919.4 |
| 162.5° | 935.4 | 936.3 | 937.2 | 937.0 | 935.9 | 934.8 | 933.7 | 932.6 |
| 165° | 954.4 | 955.4 | 956.5 | 956.4 | 955.2 | 953.9 | 952.7 | 951.5 |
| 167.5° | 969.8 | 970.8 | 971.9 | 971.9 | 970.8 | 969.8 | 968.7 | 967.6 |
| 170° | 978.2 | 979.4 | 980.6 | 980.6 | 979.4 | 978.2 | 977.0 | 975.7 |
| 172.5° | 984.8 | 985.9 | 986.9 | 986.9 | 985.6 | 984.4 | 983.2 | 982.0 |
| 175° | 991.9 | 992.9 | 994.0 | 993.9 | 992.7 | 991.5 | 990.2 | 989.0 |
| 177.5° | 995.1 | 995.9 | 996.7 | 996.7 | 995.7 | 994.7 | 993.8 | 992.8 |
| 180° | 995.3 | 995.3 | 995.3 | 995.3 | 995.3 | 995.3 | 995.3 | 995.3 |

(END OF REPORT)