

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: P331899-927

Luminaire Tested: **S123DIP-S340D1025U927-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331899-927
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-S340D1025U927-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3909.1 lumens
Efficiency: N/A
Efficacy: 104.8 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

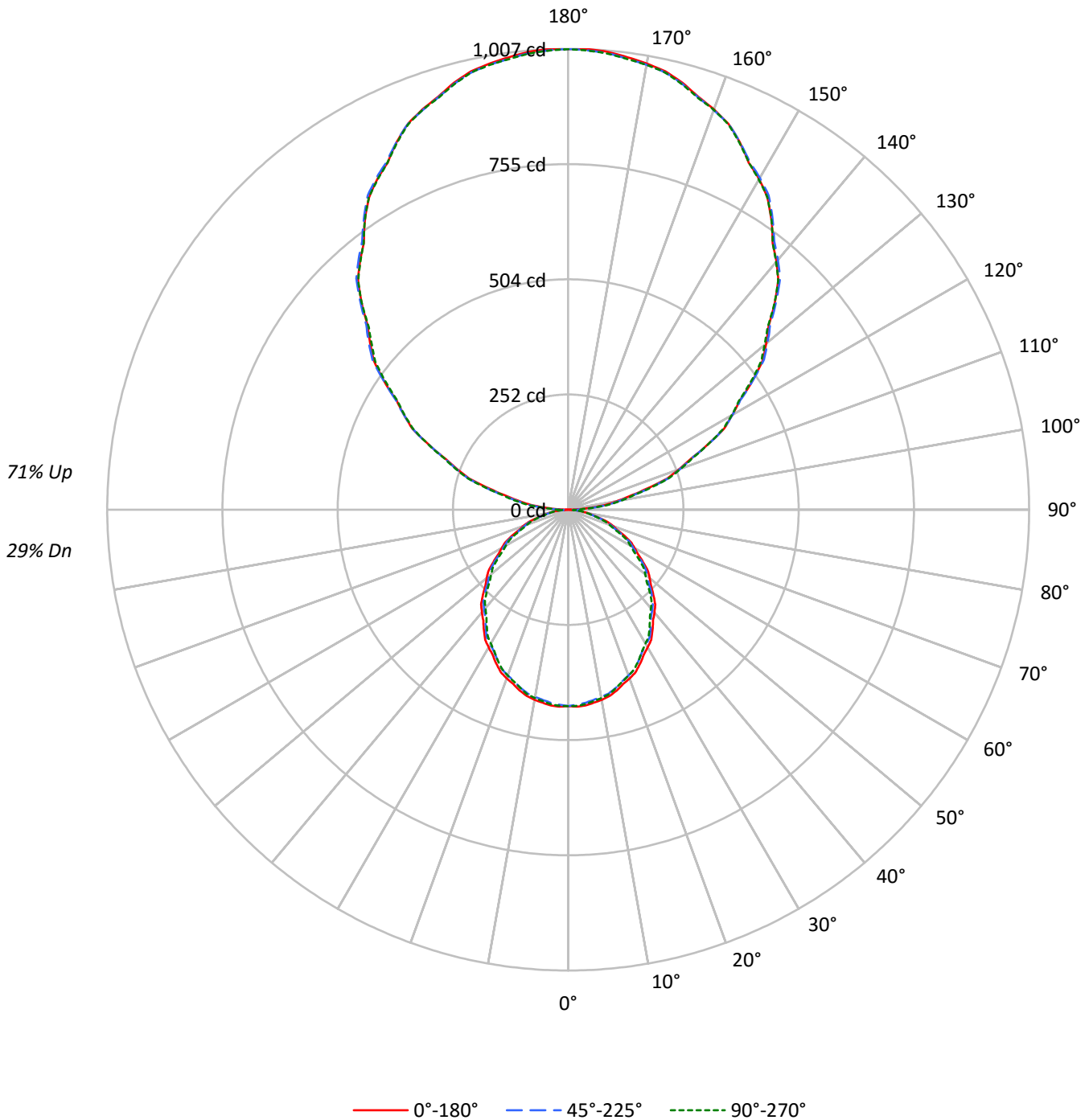
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331899-927

CATALOG NUMBER: S123DIP-S340D1025U927-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331899-927

CATALOG NUMBER: S123DIP-S340D1025U927-4F0-1E-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 | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 53 | 53 | 53 | 37 | 37 | 37 | 29 |
| 1 | 93 | 89 | 85 | 82 | 83 | 80 | 76 | 74 | 62 | 60 | 58 | 47 | 45 | 44 | 32 | 31 | 31 | 24 |
| 2 | 85 | 77 | 71 | 67 | 75 | 69 | 65 | 60 | 55 | 51 | 48 | 41 | 39 | 37 | 28 | 27 | 26 | 20 |
| 3 | 77 | 68 | 61 | 55 | 69 | 61 | 55 | 50 | 48 | 44 | 40 | 36 | 33 | 31 | 25 | 23 | 22 | 17 |
| 4 | 70 | 60 | 52 | 47 | 63 | 54 | 47 | 42 | 43 | 38 | 34 | 32 | 29 | 26 | 22 | 20 | 19 | 15 |
| 5 | 65 | 53 | 45 | 40 | 58 | 48 | 41 | 36 | 38 | 33 | 29 | 29 | 25 | 23 | 20 | 18 | 16 | 13 |
| 6 | 59 | 48 | 40 | 34 | 53 | 43 | 36 | 31 | 34 | 29 | 26 | 26 | 23 | 20 | 18 | 16 | 14 | 11 |
| 7 | 55 | 43 | 35 | 30 | 49 | 39 | 32 | 27 | 31 | 26 | 22 | 23 | 20 | 18 | 17 | 14 | 13 | 10 |
| 8 | 51 | 39 | 31 | 26 | 45 | 35 | 29 | 24 | 28 | 23 | 20 | 21 | 18 | 16 | 15 | 13 | 11 | 9 |
| 9 | 47 | 35 | 28 | 23 | 42 | 32 | 26 | 21 | 26 | 21 | 18 | 20 | 16 | 14 | 14 | 12 | 10 | 8 |
| 10 | 44 | 32 | 25 | 21 | 39 | 29 | 23 | 19 | 23 | 19 | 16 | 18 | 15 | 12 | 13 | 11 | 9 | 7 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4621 | 4621 | 4621 |
| 5° | 4643 | 4578 | 4611 |
| 10° | 4611 | 4539 | 4568 |
| 15° | 4558 | 4488 | 4496 |
| 20° | 4495 | 4415 | 4418 |
| 25° | 4410 | 4327 | 4318 |
| 30° | 4318 | 4230 | 4197 |
| 35° | 4221 | 4127 | 4075 |
| 40° | 4118 | 4014 | 3953 |
| 45° | 4007 | 3911 | 3815 |
| 50° | 3893 | 3783 | 3677 |
| 55° | 3748 | 3652 | 3539 |
| 60° | 3599 | 3496 | 3384 |
| 65° | 3469 | 3326 | 3224 |
| 70° | 3276 | 3138 | 2996 |
| 75° | 2994 | 2886 | 2766 |
| 80° | 2703 | 2585 | 2566 |
| 85° | 2371 | 2285 | 2186 |



TEST NUMBER: P331899-927

CATALOG NUMBER: S123DIP-S340D1025U927-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 40.4 | 1.0 |
| 10°-20° | 114.2 | 2.9 |
| 20°-30° | 168.7 | 4.3 |
| 30°-40° | 197.0 | 5.0 |
| 40°-50° | 198.1 | 5.1 |
| 50°-60° | 174.0 | 4.5 |
| 60°-70° | 129.6 | 3.3 |
| 70°-80° | 73.8 | 1.9 |
| 80°-90° | 24.2 | 0.6 |
| 90°-100° | 65.6 | 1.7 |
| 100°-110° | 196.3 | 5.0 |
| 110°-120° | 333.8 | 8.5 |
| 120°-130° | 439.1 | 11.2 |
| 130°-140° | 493.6 | 12.6 |
| 140°-150° | 485.2 | 12.4 |
| 150°-160° | 408.4 | 10.4 |
| 160°-170° | 271.9 | 7.0 |
| 170°-180° | 95.2 | 2.4 |
| 0°-30° | 323.3 | 8.3 |
| 0°-40° | 520.3 | 13.3 |
| 0°-60° | 892.4 | 22.8 |
| 0°-90° | 1120.0 | 28.7 |
| 90°-120° | 595.7 | 15.2 |
| 90°-150° | 2013.5 | 51.5 |
| 90°-180° | 2789.0 | 71.3 |
| 0°-180° | 3909.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 429 | 429 | 429 | 429 | 429 | |
| 5° | 430 | 428 | 424 | 427 | 427 | 41 |
| 15° | 409 | 407 | 403 | 405 | 404 | 115 |
| 25° | 371 | 369 | 364 | 365 | 364 | 171 |
| 35° | 321 | 319 | 314 | 312 | 310 | 201 |
| 45° | 263 | 262 | 257 | 253 | 251 | 203 |
| 55° | 200 | 199 | 195 | 191 | 189 | 179 |
| 65° | 136 | 134 | 131 | 128 | 127 | 134 |
| 75° | 72 | 70 | 69 | 68 | 66 | 77 |
| 85° | 19 | 18 | 18 | 18 | 18 | 21 |
| 90° | 1 | 9 | 19 | 22 | 24 | 4 |
| 95° | 47 | 52 | 58 | 62 | 62 | 52 |
| 105° | 178 | 180 | 187 | 187 | 188 | 191 |
| 115° | 336 | 338 | 337 | 338 | 337 | 332 |
| 125° | 492 | 494 | 493 | 489 | 486 | 438 |
| 135° | 638 | 643 | 642 | 639 | 637 | 492 |
| 145° | 774 | 776 | 778 | 777 | 774 | 483 |
| 155° | 886 | 886 | 887 | 890 | 885 | 408 |
| 165° | 966 | 963 | 963 | 967 | 962 | 272 |
| 175° | 1004 | 1001 | 1001 | 1005 | 1000 | 95 |
| 180° | 1007 | 1007 | 1007 | 1007 | 1007 | |



TEST NUMBER: P331899-927

CATALOG NUMBER: S123DIP-S340D1025U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 |
| 2.5° | 430.8 | 430.5 | 430.2 | 430.0 | 429.7 | 429.2 | 428.5 | 427.8 | 427.1 | 426.4 | 427.0 |
| 5° | 429.7 | 429.2 | 428.8 | 428.4 | 428.0 | 427.4 | 426.4 | 425.6 | 424.6 | 423.7 | 424.5 |
| 7.5° | 425.5 | 425.0 | 424.6 | 424.2 | 423.8 | 423.1 | 422.2 | 421.3 | 420.3 | 419.4 | 420.1 |
| 10° | 421.9 | 421.5 | 421.0 | 420.6 | 420.3 | 419.5 | 418.4 | 417.4 | 416.3 | 415.3 | 416.0 |
| 12.5° | 417.2 | 416.8 | 416.5 | 416.1 | 415.8 | 415.1 | 414.2 | 413.1 | 412.1 | 411.1 | 411.7 |
| 15° | 409.0 | 408.7 | 408.3 | 408.0 | 407.7 | 406.9 | 405.9 | 404.8 | 403.8 | 402.7 | 403.4 |
| 17.5° | 399.4 | 399.0 | 398.6 | 398.2 | 397.8 | 397.0 | 395.9 | 394.9 | 393.8 | 392.8 | 393.2 |
| 20° | 392.4 | 391.9 | 391.4 | 390.9 | 390.4 | 389.6 | 388.6 | 387.5 | 386.4 | 385.4 | 385.7 |
| 22.5° | 384.4 | 383.9 | 383.4 | 382.9 | 382.5 | 381.7 | 380.6 | 379.5 | 378.4 | 377.4 | 377.6 |
| 25° | 371.3 | 370.8 | 370.3 | 369.9 | 369.4 | 368.6 | 367.5 | 366.5 | 365.4 | 364.3 | 364.4 |
| 27.5° | 357.4 | 356.9 | 356.4 | 355.9 | 355.5 | 354.7 | 353.6 | 352.4 | 351.3 | 350.1 | 350.1 |
| 30° | 347.4 | 346.9 | 346.5 | 346.1 | 345.7 | 344.9 | 343.8 | 342.6 | 341.5 | 340.3 | 340.3 |
| 32.5° | 337.3 | 336.8 | 336.2 | 335.6 | 335.2 | 334.4 | 333.5 | 332.6 | 331.8 | 330.9 | 330.4 |
| 35° | 321.2 | 320.7 | 320.1 | 319.6 | 319.2 | 318.4 | 317.3 | 316.2 | 315.2 | 314.1 | 313.6 |
| 37.5° | 304.6 | 304.0 | 303.3 | 302.7 | 302.1 | 301.3 | 300.2 | 299.0 | 298.0 | 296.9 | 296.4 |
| 40° | 293.1 | 292.6 | 292.1 | 291.6 | 291.1 | 290.3 | 289.1 | 288.0 | 286.8 | 285.7 | 285.0 |
| 42.5° | 281.5 | 281.0 | 280.4 | 279.9 | 279.3 | 278.5 | 277.3 | 276.2 | 275.0 | 273.9 | 273.2 |
| 45° | 263.2 | 262.8 | 262.5 | 262.2 | 261.9 | 261.2 | 260.1 | 259.0 | 257.9 | 256.9 | 256.0 |
| 47.5° | 244.9 | 244.5 | 244.0 | 243.5 | 243.0 | 242.3 | 241.3 | 240.3 | 239.3 | 238.3 | 237.3 |
| 50° | 232.5 | 232.1 | 231.7 | 231.3 | 230.9 | 230.1 | 229.1 | 228.1 | 227.0 | 225.9 | 225.0 |
| 52.5° | 219.5 | 219.3 | 219.0 | 218.7 | 218.4 | 217.7 | 216.6 | 215.5 | 214.4 | 213.2 | 212.5 |
| 55° | 199.7 | 199.6 | 199.6 | 199.5 | 199.4 | 198.8 | 197.7 | 196.6 | 195.6 | 194.6 | 193.6 |
| 57.5° | 180.8 | 180.5 | 180.2 | 180.0 | 179.7 | 179.1 | 178.2 | 177.4 | 176.6 | 175.7 | 174.9 |
| 60° | 167.2 | 167.2 | 167.1 | 167.0 | 166.9 | 166.4 | 165.3 | 164.4 | 163.4 | 162.4 | 161.7 |
| 62.5° | 155.1 | 154.9 | 154.7 | 154.5 | 154.2 | 153.7 | 152.7 | 151.7 | 150.7 | 149.7 | 149.0 |
| 65° | 136.2 | 135.8 | 135.4 | 135.0 | 134.6 | 134.0 | 133.2 | 132.3 | 131.5 | 130.6 | 130.0 |
| 67.5° | 116.2 | 115.8 | 115.5 | 115.1 | 114.8 | 114.2 | 113.7 | 113.0 | 112.4 | 111.8 | 111.2 |
| 70° | 104.1 | 103.6 | 103.1 | 102.6 | 102.1 | 101.6 | 101.2 | 100.6 | 100.1 | 99.7 | 99.1 |
| 72.5° | 91.4 | 91.0 | 90.7 | 90.3 | 89.9 | 89.5 | 89.0 | 88.4 | 87.9 | 87.3 | 86.7 |
| 75° | 72.0 | 71.6 | 71.3 | 71.0 | 70.7 | 70.3 | 70.1 | 69.9 | 69.6 | 69.4 | 69.0 |
| 77.5° | 54.7 | 54.6 | 54.4 | 54.3 | 54.0 | 53.8 | 53.6 | 53.2 | 52.9 | 52.6 | 52.4 |
| 80° | 43.6 | 43.3 | 43.1 | 42.9 | 42.5 | 42.4 | 42.2 | 42.1 | 41.9 | 41.7 | 41.6 |
| 82.5° | 32.6 | 32.6 | 32.6 | 32.5 | 32.4 | 32.4 | 32.3 | 32.3 | 32.3 | 32.2 | 32.1 |
| 85° | 19.2 | 19.0 | 18.9 | 18.7 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.3 |
| 87.5° | 7.8 | 8.0 | 8.2 | 8.3 | 8.5 | 8.7 | 9.1 | 9.5 | 9.9 | 10.3 | 10.4 |
| 90° | 0.8 | 2.5 | 4.3 | 6.1 | 7.8 | 9.8 | 12.1 | 14.4 | 16.7 | 19.0 | 19.6 |
| 92.5° | 19.2 | 20.4 | 21.5 | 22.7 | 23.9 | 25.2 | 26.5 | 27.7 | 29.1 | 30.3 | 30.9 |
| 95° | 46.7 | 47.8 | 49.1 | 50.4 | 51.6 | 52.9 | 54.3 | 55.7 | 57.1 | 58.5 | 59.3 |
| 97.5° | 82.9 | 83.8 | 84.7 | 85.6 | 86.5 | 87.5 | 88.5 | 89.5 | 90.5 | 91.6 | 92.4 |
| 100° | 107.6 | 108.6 | 109.6 | 110.7 | 111.8 | 112.7 | 113.6 | 114.5 | 115.3 | 116.2 | 116.8 |
| 102.5° | 136.0 | 136.7 | 137.3 | 137.9 | 138.6 | 139.4 | 140.6 | 141.7 | 142.9 | 144.1 | 144.6 |
| 105° | 177.9 | 178.2 | 178.6 | 179.0 | 179.4 | 180.3 | 181.9 | 183.5 | 185.1 | 186.6 | 186.6 |
| 107.5° | 226.6 | 226.9 | 227.0 | 227.3 | 227.5 | 227.9 | 228.5 | 229.2 | 229.8 | 230.4 | 231.0 |
| 110° | 257.0 | 257.4 | 257.7 | 258.0 | 258.4 | 258.7 | 259.1 | 259.4 | 259.8 | 260.2 | 260.9 |



TEST NUMBER: P331899-927

CATALOG NUMBER: S123DIP-S340D1025U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 288.6 | 288.8 | 289.1 | 289.2 | 289.5 | 289.6 | 289.7 | 289.8 | 289.9 | 289.9 | 290.7 |
| 115° | 336.0 | 336.6 | 337.2 | 337.6 | 338.2 | 338.3 | 337.9 | 337.5 | 337.2 | 336.8 | 337.1 |
| 117.5° | 383.8 | 384.2 | 384.5 | 384.9 | 385.2 | 385.2 | 384.8 | 384.3 | 383.8 | 383.3 | 383.3 |
| 120° | 413.6 | 414.6 | 415.7 | 416.8 | 417.8 | 417.9 | 417.0 | 416.1 | 415.3 | 414.4 | 414.2 |
| 122.5° | 444.6 | 445.4 | 446.1 | 446.9 | 447.7 | 447.8 | 447.3 | 446.9 | 446.5 | 446.0 | 445.5 |
| 125° | 491.9 | 492.4 | 492.9 | 493.5 | 493.9 | 494.1 | 493.7 | 493.4 | 493.0 | 492.7 | 491.9 |
| 127.5° | 535.5 | 536.6 | 537.7 | 538.8 | 540.0 | 540.3 | 540.0 | 539.6 | 539.2 | 538.8 | 537.8 |
| 130° | 564.6 | 566.0 | 567.4 | 568.8 | 570.2 | 570.7 | 570.1 | 569.6 | 569.1 | 568.5 | 567.8 |
| 132.5° | 593.7 | 595.1 | 596.5 | 597.9 | 599.4 | 599.8 | 599.4 | 599.0 | 598.7 | 598.3 | 597.5 |
| 135° | 638.2 | 639.2 | 640.2 | 641.3 | 642.4 | 642.8 | 642.6 | 642.5 | 642.3 | 642.1 | 641.4 |
| 137.5° | 679.3 | 680.2 | 681.0 | 681.9 | 682.8 | 683.4 | 683.9 | 684.4 | 684.8 | 685.2 | 684.5 |
| 140° | 707.7 | 708.6 | 709.5 | 710.3 | 711.2 | 711.8 | 711.9 | 712.1 | 712.3 | 712.5 | 712.3 |
| 142.5° | 733.6 | 734.5 | 735.5 | 736.3 | 737.2 | 737.8 | 738.1 | 738.4 | 738.7 | 739.0 | 738.9 |
| 145° | 774.1 | 774.5 | 774.8 | 775.2 | 775.5 | 776.0 | 776.5 | 777.1 | 777.6 | 778.1 | 777.9 |
| 147.5° | 809.6 | 810.2 | 810.9 | 811.5 | 812.1 | 812.7 | 813.2 | 813.7 | 814.1 | 814.7 | 814.7 |
| 150° | 834.2 | 834.6 | 835.0 | 835.3 | 835.7 | 836.0 | 836.4 | 836.7 | 837.1 | 837.4 | 837.4 |
| 152.5° | 854.5 | 855.0 | 855.5 | 856.0 | 856.4 | 856.8 | 857.1 | 857.2 | 857.5 | 857.7 | 857.9 |
| 155° | 886.5 | 886.5 | 886.5 | 886.5 | 886.5 | 886.5 | 886.7 | 886.8 | 887.1 | 887.2 | 888.0 |
| 157.5° | 913.6 | 913.5 | 913.2 | 913.0 | 912.8 | 912.8 | 912.9 | 913.1 | 913.2 | 913.3 | 914.1 |
| 160° | 930.7 | 930.3 | 930.0 | 929.7 | 929.3 | 929.2 | 929.2 | 929.2 | 929.2 | 929.2 | 930.0 |
| 162.5° | 945.9 | 945.4 | 944.9 | 944.4 | 944.0 | 943.8 | 943.9 | 944.0 | 944.2 | 944.4 | 945.2 |
| 165° | 965.5 | 965.0 | 964.5 | 963.9 | 963.5 | 963.1 | 963.1 | 963.1 | 963.1 | 963.1 | 964.2 |
| 167.5° | 981.2 | 980.5 | 979.8 | 979.1 | 978.3 | 978.1 | 978.3 | 978.3 | 978.5 | 978.7 | 979.8 |
| 170° | 990.1 | 989.4 | 988.6 | 987.9 | 987.2 | 986.9 | 986.9 | 986.9 | 986.9 | 986.9 | 988.1 |
| 172.5° | 997.0 | 996.3 | 995.6 | 994.9 | 994.2 | 993.8 | 993.8 | 993.8 | 993.8 | 993.8 | 994.9 |
| 175° | 1004.2 | 1003.5 | 1002.8 | 1002.2 | 1001.5 | 1001.1 | 1001.1 | 1001.1 | 1001.1 | 1001.1 | 1002.2 |
| 177.5° | 1007.3 | 1006.7 | 1006.2 | 1005.6 | 1005.0 | 1004.7 | 1004.7 | 1004.7 | 1004.7 | 1004.7 | 1005.6 |
| 180° | 1006.6 | 1006.6 | 1006.6 | 1006.6 | 1006.6 | 1006.6 | 1006.6 | 1006.6 | 1006.6 | 1006.6 | 1006.6 |



TEST NUMBER: P331899-927

CATALOG NUMBER: S123DIP-S340D1025U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 | 429.3 |
| 2.5° | 427.6 | 428.3 | 429.0 | 429.3 | 429.2 | 429.1 | 429.0 | 429.0 |
| 5° | 425.4 | 426.2 | 427.1 | 427.4 | 427.2 | 427.1 | 426.8 | 426.7 |
| 7.5° | 420.9 | 421.6 | 422.3 | 422.6 | 422.6 | 422.5 | 422.4 | 422.2 |
| 10° | 416.8 | 417.5 | 418.2 | 418.5 | 418.4 | 418.2 | 418.0 | 417.9 |
| 12.5° | 412.2 | 412.7 | 413.3 | 413.5 | 413.4 | 413.3 | 413.2 | 413.1 |
| 15° | 404.0 | 404.6 | 405.4 | 405.4 | 404.9 | 404.4 | 403.9 | 403.5 |
| 17.5° | 393.6 | 394.1 | 394.6 | 394.7 | 394.5 | 394.3 | 394.2 | 394.0 |
| 20° | 386.0 | 386.3 | 386.7 | 386.7 | 386.4 | 386.2 | 386.0 | 385.7 |
| 22.5° | 377.9 | 378.2 | 378.4 | 378.4 | 378.1 | 377.8 | 377.5 | 377.2 |
| 25° | 364.5 | 364.6 | 364.6 | 364.6 | 364.3 | 364.1 | 363.8 | 363.6 |
| 27.5° | 350.2 | 350.3 | 350.3 | 350.2 | 349.9 | 349.6 | 349.3 | 349.0 |
| 30° | 340.3 | 340.3 | 340.3 | 340.0 | 339.5 | 338.9 | 338.3 | 337.7 |
| 32.5° | 329.9 | 329.5 | 329.1 | 328.7 | 328.4 | 328.0 | 327.7 | 327.4 |
| 35° | 313.1 | 312.7 | 312.1 | 311.7 | 311.3 | 310.9 | 310.5 | 310.1 |
| 37.5° | 295.7 | 295.2 | 294.5 | 294.1 | 293.9 | 293.6 | 293.3 | 293.1 |
| 40° | 284.4 | 283.8 | 283.0 | 282.6 | 282.3 | 281.9 | 281.6 | 281.3 |
| 42.5° | 272.6 | 271.9 | 271.2 | 270.8 | 270.5 | 270.1 | 269.8 | 269.4 |
| 45° | 254.9 | 254.0 | 252.9 | 252.3 | 251.8 | 251.4 | 251.0 | 250.6 |
| 47.5° | 236.4 | 235.4 | 234.4 | 233.8 | 233.4 | 233.1 | 232.7 | 232.3 |
| 50° | 224.1 | 223.2 | 222.3 | 221.6 | 221.1 | 220.6 | 220.1 | 219.6 |
| 52.5° | 211.7 | 210.9 | 210.1 | 209.5 | 209.0 | 208.5 | 208.0 | 207.6 |
| 55° | 192.7 | 191.8 | 190.9 | 190.3 | 189.9 | 189.4 | 189.0 | 188.6 |
| 57.5° | 174.1 | 173.3 | 172.5 | 171.8 | 171.3 | 170.9 | 170.4 | 169.9 |
| 60° | 161.0 | 160.2 | 159.5 | 158.9 | 158.4 | 158.0 | 157.6 | 157.2 |
| 62.5° | 148.2 | 147.5 | 146.8 | 146.2 | 146.0 | 145.7 | 145.4 | 145.1 |
| 65° | 129.4 | 128.7 | 128.0 | 127.6 | 127.4 | 127.1 | 126.8 | 126.6 |
| 67.5° | 110.6 | 110.0 | 109.5 | 109.0 | 108.7 | 108.3 | 108.0 | 107.7 |
| 70° | 98.5 | 97.9 | 97.4 | 96.9 | 96.5 | 96.1 | 95.6 | 95.2 |
| 72.5° | 86.3 | 85.7 | 85.2 | 84.8 | 84.7 | 84.4 | 84.2 | 84.0 |
| 75° | 68.6 | 68.1 | 67.7 | 67.4 | 67.2 | 66.9 | 66.7 | 66.5 |
| 77.5° | 52.0 | 51.8 | 51.5 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 |
| 80° | 41.5 | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 |
| 82.5° | 32.0 | 31.8 | 31.7 | 31.5 | 31.5 | 31.4 | 31.4 | 31.3 |
| 85° | 18.1 | 18.0 | 17.8 | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 |
| 87.5° | 10.5 | 10.5 | 10.6 | 10.7 | 10.8 | 10.8 | 10.9 | 10.9 |
| 90° | 20.4 | 21.1 | 21.8 | 22.3 | 22.7 | 23.1 | 23.4 | 23.7 |
| 92.5° | 31.5 | 32.1 | 32.6 | 32.8 | 32.6 | 32.4 | 32.2 | 31.9 |
| 95° | 59.9 | 60.6 | 61.3 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 |
| 97.5° | 93.2 | 94.0 | 94.8 | 95.1 | 95.1 | 95.1 | 95.0 | 94.9 |
| 100° | 117.3 | 117.8 | 118.4 | 118.8 | 119.1 | 119.5 | 119.9 | 120.2 |
| 102.5° | 145.1 | 145.7 | 146.2 | 146.4 | 146.3 | 146.2 | 146.2 | 146.2 |
| 105° | 186.6 | 186.6 | 186.6 | 186.8 | 187.1 | 187.5 | 187.8 | 188.2 |
| 107.5° | 231.6 | 232.1 | 232.7 | 232.8 | 232.7 | 232.4 | 232.2 | 232.0 |
| 110° | 261.6 | 262.3 | 263.0 | 263.2 | 262.8 | 262.4 | 262.1 | 261.7 |



TEST NUMBER: P331899-927

CATALOG NUMBER: S123DIP-S340D1025U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 291.6 | 292.4 | 293.3 | 293.7 | 293.6 | 293.5 | 293.4 | 293.3 |
| 115° | 337.2 | 337.4 | 337.5 | 337.5 | 337.4 | 337.2 | 337.1 | 336.8 |
| 117.5° | 383.3 | 383.3 | 383.3 | 382.9 | 382.5 | 382.0 | 381.5 | 381.0 |
| 120° | 414.0 | 413.8 | 413.7 | 413.4 | 413.0 | 412.7 | 412.3 | 412.0 |
| 122.5° | 445.0 | 444.7 | 444.2 | 443.7 | 443.2 | 442.7 | 442.2 | 441.7 |
| 125° | 491.2 | 490.5 | 489.8 | 489.1 | 488.5 | 487.7 | 487.0 | 486.3 |
| 127.5° | 536.9 | 535.9 | 534.9 | 534.0 | 533.2 | 532.3 | 531.6 | 530.8 |
| 130° | 567.1 | 566.4 | 565.8 | 564.7 | 563.6 | 562.3 | 561.1 | 559.8 |
| 132.5° | 596.6 | 595.8 | 594.9 | 594.1 | 593.1 | 592.2 | 591.2 | 590.3 |
| 135° | 640.7 | 640.0 | 639.3 | 638.7 | 638.4 | 638.0 | 637.7 | 637.4 |
| 137.5° | 683.8 | 683.1 | 682.3 | 681.6 | 681.0 | 680.2 | 679.6 | 679.0 |
| 140° | 712.1 | 711.9 | 711.8 | 711.1 | 709.9 | 708.6 | 707.4 | 706.2 |
| 142.5° | 738.7 | 738.6 | 738.3 | 737.8 | 736.8 | 735.9 | 734.9 | 734.0 |
| 145° | 777.8 | 777.6 | 777.4 | 777.0 | 776.3 | 775.5 | 774.8 | 774.1 |
| 147.5° | 814.7 | 814.7 | 814.7 | 814.1 | 813.1 | 812.0 | 811.0 | 809.9 |
| 150° | 837.4 | 837.4 | 837.4 | 836.9 | 835.8 | 834.8 | 833.7 | 832.7 |
| 152.5° | 858.3 | 858.5 | 858.8 | 858.5 | 857.5 | 856.7 | 855.7 | 854.8 |
| 155° | 888.7 | 889.4 | 890.0 | 889.8 | 888.6 | 887.3 | 886.1 | 884.9 |
| 157.5° | 914.8 | 915.5 | 916.3 | 916.2 | 915.2 | 914.2 | 913.2 | 912.2 |
| 160° | 930.9 | 931.8 | 932.6 | 932.7 | 932.1 | 931.4 | 930.7 | 929.9 |
| 162.5° | 946.1 | 947.0 | 947.8 | 947.7 | 946.6 | 945.5 | 944.4 | 943.3 |
| 165° | 965.3 | 966.3 | 967.3 | 967.3 | 966.1 | 964.8 | 963.6 | 962.3 |
| 167.5° | 980.8 | 981.9 | 983.0 | 983.0 | 981.9 | 980.8 | 979.8 | 978.7 |
| 170° | 989.4 | 990.5 | 991.8 | 991.8 | 990.5 | 989.4 | 988.1 | 986.9 |
| 172.5° | 996.0 | 997.1 | 998.1 | 998.1 | 996.9 | 995.7 | 994.4 | 993.2 |
| 175° | 1003.2 | 1004.2 | 1005.4 | 1005.2 | 1004.0 | 1002.7 | 1001.6 | 1000.3 |
| 177.5° | 1006.5 | 1007.3 | 1008.1 | 1008.1 | 1007.1 | 1006.1 | 1005.1 | 1004.1 |
| 180° | 1006.6 | 1006.6 | 1006.6 | 1006.6 | 1006.6 | 1006.6 | 1006.6 | 1006.6 |

(END OF REPORT)