

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: P331890-935

Luminaire Tested: **S123DIP-S340D805U935-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331890-935
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-S340D805U935-4F0-1E-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: 3590.9 lumens
Efficiency: N/A
Efficacy: 115.1 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

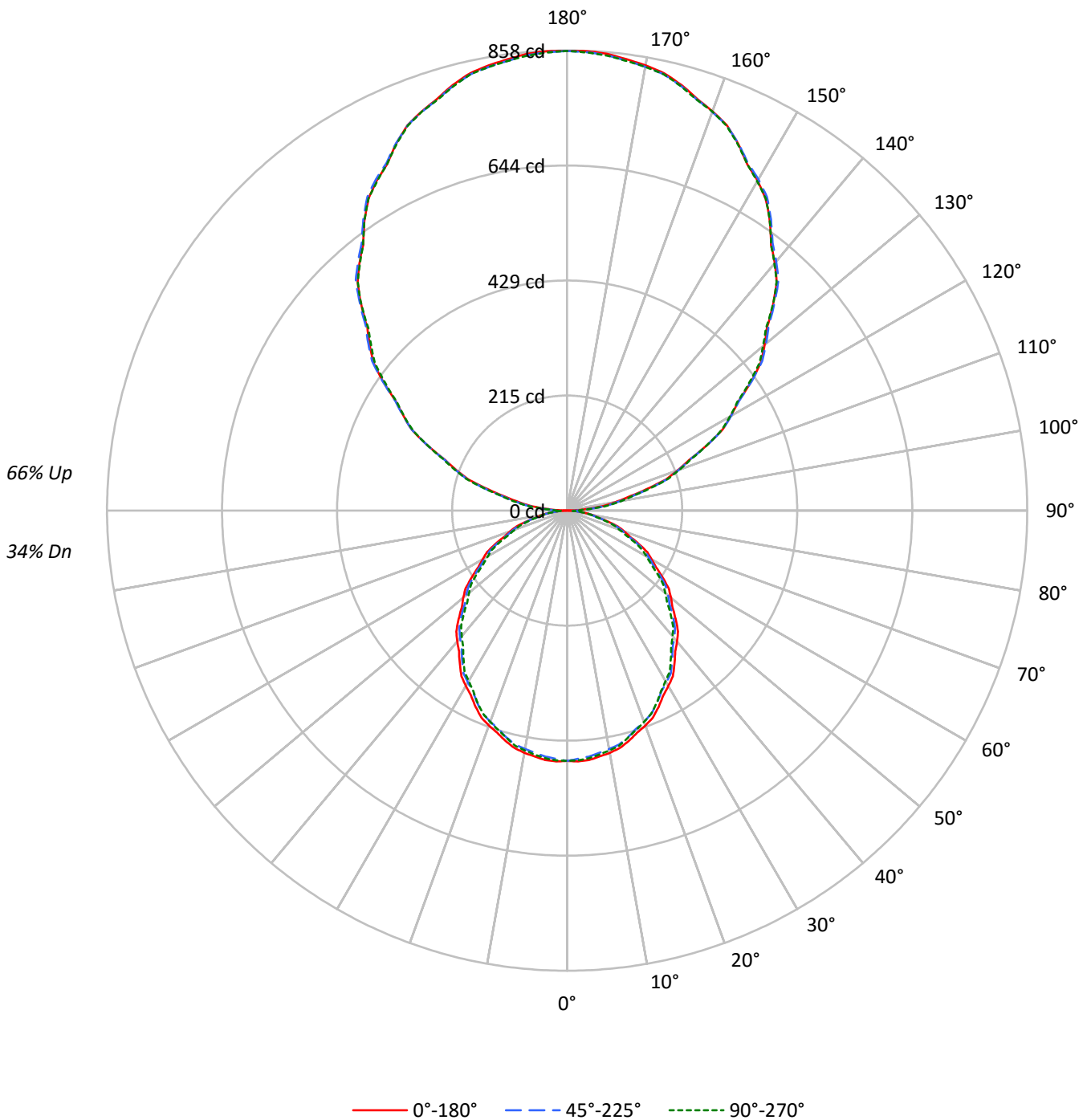
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331890-935

CATALOG NUMBER: S123DIP-S340D805U935-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331890-935

CATALOG NUMBER: S123DIP-S340D805U935-4F0-1E-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° | 5022 | 5022 | 5022 |
| 5° | 5046 | 4976 | 5010 |
| 10° | 5012 | 4933 | 4964 |
| 15° | 4953 | 4878 | 4886 |
| 20° | 4885 | 4798 | 4802 |
| 25° | 4793 | 4703 | 4694 |
| 30° | 4692 | 4598 | 4561 |
| 35° | 4586 | 4486 | 4428 |
| 40° | 4477 | 4363 | 4295 |
| 45° | 4354 | 4250 | 4147 |
| 50° | 4232 | 4113 | 3997 |
| 55° | 4074 | 3969 | 3847 |
| 60° | 3914 | 3800 | 3679 |
| 65° | 3769 | 3617 | 3505 |
| 70° | 3559 | 3408 | 3257 |
| 75° | 3256 | 3136 | 3003 |
| 80° | 2938 | 2814 | 2783 |
| 85° | 2569 | 2482 | 2384 |



TEST NUMBER: P331890-935

CATALOG NUMBER: S123DIP-S340D805U935-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.0 | 1.2 |
| 10°-20° | 124.1 | 3.5 |
| 20°-30° | 183.3 | 5.1 |
| 30°-40° | 214.1 | 6.0 |
| 40°-50° | 215.3 | 6.0 |
| 50°-60° | 189.1 | 5.3 |
| 60°-70° | 140.9 | 3.9 |
| 70°-80° | 80.3 | 2.2 |
| 80°-90° | 25.6 | 0.7 |
| 90°-100° | 55.8 | 1.6 |
| 100°-110° | 167.1 | 4.7 |
| 110°-120° | 284.2 | 7.9 |
| 120°-130° | 373.8 | 10.4 |
| 130°-140° | 420.2 | 11.7 |
| 140°-150° | 413.0 | 11.5 |
| 150°-160° | 347.7 | 9.7 |
| 160°-170° | 231.4 | 6.4 |
| 170°-180° | 81.0 | 2.3 |
| 0°-30° | 351.4 | 9.8 |
| 0°-40° | 565.5 | 15.7 |
| 0°-60° | 969.9 | 27.0 |
| 0°-90° | 1216.6 | 33.9 |
| 90°-120° | 507.1 | 14.1 |
| 90°-150° | 1714.1 | 47.7 |
| 90°-180° | 2374.0 | 66.1 |
| 0°-180° | 3590.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 467 | 467 | 467 | 467 | 467 | |
| 5° | 467 | 465 | 460 | 464 | 464 | 44 |
| 15° | 444 | 443 | 438 | 441 | 438 | 125 |
| 25° | 404 | 401 | 396 | 396 | 395 | 186 |
| 35° | 349 | 346 | 341 | 339 | 337 | 218 |
| 45° | 286 | 284 | 279 | 275 | 272 | 221 |
| 55° | 217 | 216 | 212 | 207 | 205 | 194 |
| 65° | 148 | 146 | 142 | 139 | 138 | 146 |
| 75° | 78 | 77 | 75 | 73 | 72 | 84 |
| 85° | 21 | 20 | 20 | 19 | 19 | 23 |
| 90° | 1 | 8 | 16 | 19 | 20 | 4 |
| 95° | 40 | 44 | 50 | 52 | 52 | 45 |
| 105° | 151 | 153 | 159 | 159 | 160 | 162 |
| 115° | 286 | 288 | 287 | 287 | 287 | 283 |
| 125° | 419 | 421 | 419 | 417 | 414 | 373 |
| 135° | 543 | 547 | 547 | 544 | 543 | 418 |
| 145° | 659 | 660 | 662 | 662 | 659 | 411 |
| 155° | 755 | 755 | 755 | 758 | 753 | 347 |
| 165° | 822 | 820 | 820 | 824 | 819 | 232 |
| 175° | 855 | 852 | 852 | 856 | 852 | 81 |
| 180° | 857 | 857 | 857 | 857 | 857 | |



TEST NUMBER: P331890-935

CATALOG NUMBER: S123DIP-S340D805U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 |
| 2.5° | 468.2 | 467.9 | 467.6 | 467.4 | 467.0 | 466.5 | 465.7 | 464.9 | 464.2 | 463.4 | 464.1 |
| 5° | 467.0 | 466.5 | 466.1 | 465.6 | 465.2 | 464.5 | 463.5 | 462.5 | 461.5 | 460.5 | 461.4 |
| 7.5° | 462.4 | 461.9 | 461.5 | 461.1 | 460.6 | 459.9 | 458.9 | 457.9 | 456.8 | 455.8 | 456.6 |
| 10° | 458.6 | 458.1 | 457.6 | 457.2 | 456.8 | 456.0 | 454.8 | 453.7 | 452.5 | 451.3 | 452.1 |
| 12.5° | 453.4 | 453.1 | 452.6 | 452.3 | 451.9 | 451.2 | 450.1 | 449.0 | 447.9 | 446.9 | 447.5 |
| 15° | 444.5 | 444.2 | 443.8 | 443.4 | 443.1 | 442.3 | 441.2 | 440.0 | 438.9 | 437.7 | 438.4 |
| 17.5° | 434.1 | 433.7 | 433.3 | 432.7 | 432.3 | 431.5 | 430.3 | 429.2 | 428.0 | 426.9 | 427.3 |
| 20° | 426.5 | 425.9 | 425.4 | 424.8 | 424.3 | 423.4 | 422.3 | 421.1 | 420.0 | 418.9 | 419.2 |
| 22.5° | 417.8 | 417.2 | 416.7 | 416.2 | 415.7 | 414.8 | 413.6 | 412.5 | 411.3 | 410.2 | 410.4 |
| 25° | 403.6 | 403.0 | 402.5 | 402.0 | 401.5 | 400.6 | 399.4 | 398.3 | 397.1 | 396.0 | 396.1 |
| 27.5° | 388.4 | 387.9 | 387.4 | 386.8 | 386.3 | 385.5 | 384.3 | 383.0 | 381.8 | 380.5 | 380.6 |
| 30° | 377.5 | 377.0 | 376.6 | 376.2 | 375.7 | 374.9 | 373.7 | 372.4 | 371.2 | 369.9 | 369.9 |
| 32.5° | 366.6 | 366.0 | 365.4 | 364.8 | 364.3 | 363.4 | 362.5 | 361.5 | 360.6 | 359.6 | 359.1 |
| 35° | 349.0 | 348.5 | 347.9 | 347.4 | 346.9 | 346.0 | 344.9 | 343.7 | 342.6 | 341.4 | 340.9 |
| 37.5° | 331.1 | 330.4 | 329.7 | 329.0 | 328.4 | 327.4 | 326.2 | 325.0 | 323.9 | 322.7 | 322.1 |
| 40° | 318.6 | 318.0 | 317.5 | 316.9 | 316.4 | 315.5 | 314.3 | 313.0 | 311.8 | 310.5 | 309.8 |
| 42.5° | 306.0 | 305.4 | 304.8 | 304.2 | 303.6 | 302.6 | 301.4 | 300.1 | 298.9 | 297.6 | 297.0 |
| 45° | 286.0 | 285.7 | 285.3 | 285.0 | 284.6 | 283.9 | 282.7 | 281.5 | 280.3 | 279.2 | 278.2 |
| 47.5° | 266.2 | 265.7 | 265.2 | 264.7 | 264.2 | 263.4 | 262.3 | 261.1 | 260.1 | 259.0 | 258.0 |
| 50° | 252.7 | 252.3 | 251.8 | 251.4 | 251.0 | 250.1 | 249.0 | 247.9 | 246.7 | 245.6 | 244.5 |
| 52.5° | 238.6 | 238.3 | 238.0 | 237.7 | 237.4 | 236.6 | 235.4 | 234.2 | 233.0 | 231.7 | 230.9 |
| 55° | 217.1 | 217.0 | 216.9 | 216.8 | 216.7 | 216.0 | 214.9 | 213.7 | 212.6 | 211.5 | 210.4 |
| 57.5° | 196.5 | 196.2 | 195.9 | 195.6 | 195.3 | 194.7 | 193.7 | 192.8 | 191.9 | 191.0 | 190.1 |
| 60° | 181.8 | 181.7 | 181.6 | 181.5 | 181.4 | 180.8 | 179.7 | 178.7 | 177.6 | 176.5 | 175.7 |
| 62.5° | 168.6 | 168.3 | 168.2 | 167.9 | 167.6 | 167.0 | 165.9 | 164.9 | 163.8 | 162.7 | 162.0 |
| 65° | 148.0 | 147.6 | 147.1 | 146.7 | 146.3 | 145.6 | 144.7 | 143.8 | 142.9 | 142.0 | 141.3 |
| 67.5° | 126.3 | 125.9 | 125.5 | 125.1 | 124.8 | 124.2 | 123.6 | 122.9 | 122.2 | 121.5 | 120.9 |
| 70° | 113.1 | 112.6 | 112.1 | 111.5 | 111.0 | 110.5 | 109.9 | 109.3 | 108.8 | 108.3 | 107.7 |
| 72.5° | 99.4 | 98.9 | 98.6 | 98.2 | 97.7 | 97.3 | 96.7 | 96.1 | 95.5 | 94.9 | 94.3 |
| 75° | 78.3 | 77.8 | 77.5 | 77.1 | 76.8 | 76.5 | 76.2 | 75.9 | 75.7 | 75.4 | 75.0 |
| 77.5° | 59.5 | 59.3 | 59.2 | 59.0 | 58.7 | 58.5 | 58.2 | 57.9 | 57.5 | 57.2 | 56.9 |
| 80° | 47.4 | 47.1 | 46.8 | 46.6 | 46.2 | 46.1 | 45.9 | 45.7 | 45.5 | 45.4 | 45.2 |
| 82.5° | 35.5 | 35.4 | 35.4 | 35.3 | 35.2 | 35.2 | 35.1 | 35.1 | 35.1 | 35.0 | 34.9 |
| 85° | 20.8 | 20.7 | 20.5 | 20.3 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 19.9 |
| 87.5° | 8.4 | 8.5 | 8.6 | 8.7 | 8.8 | 9.0 | 9.3 | 9.6 | 10.0 | 10.3 | 10.3 |
| 90° | 0.7 | 2.2 | 3.7 | 5.2 | 6.6 | 8.4 | 10.3 | 12.2 | 14.2 | 16.2 | 16.8 |
| 92.5° | 16.3 | 17.3 | 18.3 | 19.4 | 20.3 | 21.4 | 22.6 | 23.7 | 24.7 | 25.8 | 26.3 |
| 95° | 39.7 | 40.7 | 41.8 | 42.9 | 43.9 | 45.0 | 46.2 | 47.4 | 48.6 | 49.9 | 50.5 |
| 97.5° | 70.5 | 71.3 | 72.1 | 72.8 | 73.7 | 74.5 | 75.3 | 76.2 | 77.1 | 77.9 | 78.6 |
| 100° | 91.5 | 92.5 | 93.3 | 94.3 | 95.1 | 96.0 | 96.7 | 97.5 | 98.2 | 98.9 | 99.4 |
| 102.5° | 115.8 | 116.3 | 116.8 | 117.4 | 118.0 | 118.7 | 119.7 | 120.7 | 121.7 | 122.7 | 123.1 |
| 105° | 151.4 | 151.8 | 152.1 | 152.4 | 152.7 | 153.5 | 154.8 | 156.2 | 157.6 | 158.9 | 158.9 |
| 107.5° | 193.0 | 193.1 | 193.3 | 193.5 | 193.6 | 194.0 | 194.6 | 195.1 | 195.6 | 196.1 | 196.7 |
| 110° | 218.8 | 219.0 | 219.4 | 219.6 | 220.0 | 220.2 | 220.6 | 220.8 | 221.2 | 221.4 | 222.1 |



TEST NUMBER: P331890-935

CATALOG NUMBER: S123DIP-S340D805U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 245.7 | 245.9 | 246.1 | 246.2 | 246.4 | 246.5 | 246.6 | 246.7 | 246.8 | 246.8 | 247.5 |
| 115° | 286.1 | 286.5 | 287.0 | 287.4 | 287.9 | 288.0 | 287.7 | 287.4 | 287.1 | 286.8 | 286.9 |
| 117.5° | 326.7 | 327.1 | 327.4 | 327.6 | 328.0 | 327.9 | 327.5 | 327.1 | 326.7 | 326.3 | 326.3 |
| 120° | 352.1 | 352.9 | 353.9 | 354.7 | 355.7 | 355.8 | 355.0 | 354.2 | 353.5 | 352.8 | 352.6 |
| 122.5° | 378.5 | 379.1 | 379.8 | 380.4 | 381.1 | 381.3 | 380.8 | 380.5 | 380.0 | 379.7 | 379.3 |
| 125° | 418.7 | 419.1 | 419.6 | 420.1 | 420.5 | 420.6 | 420.3 | 420.0 | 419.7 | 419.4 | 418.8 |
| 127.5° | 455.9 | 456.8 | 457.8 | 458.7 | 459.7 | 460.0 | 459.7 | 459.3 | 459.0 | 458.7 | 457.9 |
| 130° | 480.6 | 481.8 | 483.0 | 484.2 | 485.4 | 485.8 | 485.3 | 484.9 | 484.5 | 484.0 | 483.4 |
| 132.5° | 505.4 | 506.6 | 507.8 | 509.0 | 510.2 | 510.7 | 510.3 | 510.0 | 509.6 | 509.3 | 508.6 |
| 135° | 543.2 | 544.2 | 545.0 | 546.0 | 546.8 | 547.3 | 547.1 | 546.9 | 546.7 | 546.6 | 546.0 |
| 137.5° | 578.2 | 579.0 | 579.7 | 580.5 | 581.3 | 581.8 | 582.2 | 582.6 | 583.0 | 583.3 | 582.7 |
| 140° | 602.4 | 603.2 | 604.0 | 604.8 | 605.5 | 605.9 | 606.1 | 606.2 | 606.4 | 606.5 | 606.4 |
| 142.5° | 624.6 | 625.3 | 626.0 | 626.8 | 627.6 | 628.1 | 628.4 | 628.6 | 628.9 | 629.1 | 629.0 |
| 145° | 659.0 | 659.4 | 659.6 | 660.0 | 660.2 | 660.6 | 661.1 | 661.5 | 661.9 | 662.4 | 662.3 |
| 147.5° | 689.2 | 689.7 | 690.3 | 690.8 | 691.4 | 691.8 | 692.2 | 692.7 | 693.1 | 693.5 | 693.5 |
| 150° | 710.2 | 710.5 | 710.8 | 711.1 | 711.4 | 711.7 | 712.0 | 712.3 | 712.6 | 712.9 | 712.9 |
| 152.5° | 727.5 | 727.8 | 728.2 | 728.7 | 729.1 | 729.4 | 729.6 | 729.8 | 730.0 | 730.1 | 730.4 |
| 155° | 754.6 | 754.6 | 754.6 | 754.6 | 754.6 | 754.7 | 754.8 | 755.0 | 755.2 | 755.3 | 755.9 |
| 157.5° | 777.7 | 777.6 | 777.4 | 777.2 | 777.1 | 777.1 | 777.1 | 777.3 | 777.4 | 777.5 | 778.2 |
| 160° | 792.3 | 792.0 | 791.7 | 791.4 | 791.1 | 791.0 | 791.0 | 791.0 | 791.0 | 791.0 | 791.7 |
| 162.5° | 805.2 | 804.9 | 804.4 | 804.0 | 803.6 | 803.4 | 803.6 | 803.7 | 803.7 | 803.9 | 804.6 |
| 165° | 821.9 | 821.5 | 821.0 | 820.6 | 820.1 | 819.9 | 819.9 | 819.9 | 819.9 | 819.9 | 820.8 |
| 167.5° | 835.3 | 834.7 | 834.1 | 833.4 | 832.8 | 832.7 | 832.8 | 832.8 | 833.0 | 833.1 | 834.1 |
| 170° | 842.8 | 842.2 | 841.6 | 841.0 | 840.4 | 840.1 | 840.1 | 840.1 | 840.1 | 840.1 | 841.2 |
| 172.5° | 848.7 | 848.2 | 847.6 | 847.0 | 846.4 | 846.0 | 846.0 | 846.0 | 846.0 | 846.0 | 847.0 |
| 175° | 854.9 | 854.3 | 853.8 | 853.2 | 852.6 | 852.2 | 852.2 | 852.2 | 852.2 | 852.2 | 853.2 |
| 177.5° | 857.5 | 857.0 | 856.5 | 856.0 | 855.6 | 855.3 | 855.3 | 855.3 | 855.3 | 855.3 | 856.0 |
| 180° | 857.0 | 857.0 | 857.0 | 857.0 | 857.0 | 857.0 | 857.0 | 857.0 | 857.0 | 857.0 | 857.0 |



TEST NUMBER: P331890-935

CATALOG NUMBER: S123DIP-S340D805U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 | 466.6 |
| 2.5° | 464.8 | 465.5 | 466.2 | 466.6 | 466.5 | 466.4 | 466.3 | 466.2 |
| 5° | 462.4 | 463.2 | 464.2 | 464.5 | 464.3 | 464.2 | 463.9 | 463.7 |
| 7.5° | 457.4 | 458.2 | 459.0 | 459.3 | 459.3 | 459.2 | 459.1 | 458.9 |
| 10° | 453.0 | 453.7 | 454.5 | 454.9 | 454.7 | 454.5 | 454.3 | 454.2 |
| 12.5° | 448.0 | 448.6 | 449.2 | 449.4 | 449.4 | 449.2 | 449.1 | 449.0 |
| 15° | 439.1 | 439.8 | 440.6 | 440.7 | 440.1 | 439.5 | 439.0 | 438.5 |
| 17.5° | 427.8 | 428.3 | 428.9 | 429.0 | 428.8 | 428.6 | 428.4 | 428.3 |
| 20° | 419.6 | 419.9 | 420.3 | 420.3 | 420.0 | 419.7 | 419.5 | 419.2 |
| 22.5° | 410.7 | 411.0 | 411.3 | 411.3 | 411.0 | 410.6 | 410.3 | 409.9 |
| 25° | 396.1 | 396.2 | 396.3 | 396.2 | 396.0 | 395.7 | 395.5 | 395.2 |
| 27.5° | 380.6 | 380.7 | 380.7 | 380.6 | 380.3 | 380.0 | 379.6 | 379.3 |
| 30° | 369.9 | 369.9 | 369.9 | 369.5 | 368.9 | 368.3 | 367.7 | 367.0 |
| 32.5° | 358.6 | 358.1 | 357.7 | 357.2 | 356.9 | 356.5 | 356.2 | 355.9 |
| 35° | 340.4 | 339.8 | 339.2 | 338.8 | 338.4 | 337.9 | 337.4 | 337.0 |
| 37.5° | 321.4 | 320.8 | 320.1 | 319.7 | 319.4 | 319.1 | 318.8 | 318.6 |
| 40° | 309.1 | 308.4 | 307.6 | 307.1 | 306.8 | 306.4 | 306.1 | 305.7 |
| 42.5° | 296.3 | 295.5 | 294.8 | 294.3 | 293.9 | 293.6 | 293.3 | 292.8 |
| 45° | 277.1 | 276.0 | 274.9 | 274.2 | 273.7 | 273.3 | 272.9 | 272.4 |
| 47.5° | 256.9 | 255.9 | 254.8 | 254.1 | 253.7 | 253.3 | 252.9 | 252.5 |
| 50° | 243.6 | 242.5 | 241.6 | 240.8 | 240.3 | 239.8 | 239.3 | 238.7 |
| 52.5° | 230.1 | 229.2 | 228.3 | 227.6 | 227.1 | 226.6 | 226.1 | 225.6 |
| 55° | 209.5 | 208.4 | 207.5 | 206.8 | 206.4 | 205.9 | 205.4 | 205.0 |
| 57.5° | 189.2 | 188.3 | 187.4 | 186.8 | 186.2 | 185.7 | 185.2 | 184.7 |
| 60° | 175.0 | 174.1 | 173.3 | 172.7 | 172.2 | 171.8 | 171.3 | 170.9 |
| 62.5° | 161.1 | 160.3 | 159.5 | 158.9 | 158.7 | 158.3 | 158.1 | 157.7 |
| 65° | 140.6 | 139.9 | 139.1 | 138.7 | 138.4 | 138.1 | 137.8 | 137.6 |
| 67.5° | 120.2 | 119.6 | 119.0 | 118.5 | 118.1 | 117.7 | 117.4 | 117.0 |
| 70° | 107.1 | 106.4 | 105.8 | 105.3 | 104.9 | 104.4 | 103.9 | 103.5 |
| 72.5° | 93.8 | 93.2 | 92.6 | 92.2 | 92.0 | 91.8 | 91.5 | 91.3 |
| 75° | 74.6 | 74.0 | 73.6 | 73.3 | 73.0 | 72.8 | 72.5 | 72.2 |
| 77.5° | 56.6 | 56.3 | 56.0 | 55.9 | 55.9 | 55.9 | 55.9 | 55.9 |
| 80° | 45.1 | 45.0 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 |
| 82.5° | 34.8 | 34.6 | 34.4 | 34.3 | 34.3 | 34.2 | 34.1 | 34.0 |
| 85° | 19.7 | 19.5 | 19.4 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 |
| 87.5° | 10.4 | 10.4 | 10.5 | 10.5 | 10.6 | 10.7 | 10.7 | 10.8 |
| 90° | 17.4 | 17.9 | 18.5 | 19.0 | 19.3 | 19.6 | 19.9 | 20.2 |
| 92.5° | 26.8 | 27.3 | 27.7 | 27.9 | 27.7 | 27.6 | 27.4 | 27.2 |
| 95° | 51.0 | 51.6 | 52.2 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 |
| 97.5° | 79.3 | 80.0 | 80.7 | 81.0 | 80.9 | 80.9 | 80.8 | 80.8 |
| 100° | 99.9 | 100.3 | 100.7 | 101.2 | 101.4 | 101.7 | 102.0 | 102.3 |
| 102.5° | 123.6 | 124.0 | 124.4 | 124.7 | 124.6 | 124.5 | 124.5 | 124.4 |
| 105° | 158.9 | 158.9 | 158.9 | 159.0 | 159.3 | 159.6 | 159.9 | 160.2 |
| 107.5° | 197.1 | 197.6 | 198.1 | 198.2 | 198.0 | 197.9 | 197.7 | 197.5 |
| 110° | 222.7 | 223.3 | 223.9 | 224.0 | 223.7 | 223.4 | 223.1 | 222.8 |



TEST NUMBER: P331890-935

CATALOG NUMBER: S123DIP-S340D805U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 248.2 | 248.9 | 249.7 | 249.9 | 249.9 | 249.9 | 249.8 | 249.8 |
| 115° | 287.1 | 287.2 | 287.4 | 287.4 | 287.2 | 287.1 | 286.9 | 286.8 |
| 117.5° | 326.3 | 326.2 | 326.2 | 326.0 | 325.6 | 325.2 | 324.8 | 324.3 |
| 120° | 352.4 | 352.3 | 352.1 | 351.9 | 351.6 | 351.3 | 351.0 | 350.7 |
| 122.5° | 378.9 | 378.5 | 378.2 | 377.7 | 377.3 | 376.9 | 376.4 | 376.0 |
| 125° | 418.2 | 417.6 | 417.0 | 416.4 | 415.8 | 415.2 | 414.6 | 414.0 |
| 127.5° | 457.0 | 456.2 | 455.4 | 454.6 | 453.9 | 453.2 | 452.5 | 451.9 |
| 130° | 482.8 | 482.2 | 481.6 | 480.8 | 479.7 | 478.7 | 477.7 | 476.6 |
| 132.5° | 507.9 | 507.1 | 506.4 | 505.7 | 504.9 | 504.0 | 503.3 | 502.5 |
| 135° | 545.4 | 544.8 | 544.2 | 543.8 | 543.5 | 543.2 | 542.9 | 542.6 |
| 137.5° | 582.1 | 581.5 | 580.8 | 580.2 | 579.7 | 579.1 | 578.6 | 578.0 |
| 140° | 606.2 | 606.1 | 605.9 | 605.4 | 604.2 | 603.2 | 602.2 | 601.2 |
| 142.5° | 628.9 | 628.7 | 628.5 | 628.1 | 627.2 | 626.5 | 625.6 | 624.8 |
| 145° | 662.1 | 661.9 | 661.8 | 661.4 | 660.8 | 660.2 | 659.6 | 659.0 |
| 147.5° | 693.5 | 693.5 | 693.5 | 693.0 | 692.2 | 691.2 | 690.3 | 689.5 |
| 150° | 712.9 | 712.9 | 712.9 | 712.5 | 711.5 | 710.7 | 709.7 | 708.9 |
| 152.5° | 730.6 | 730.8 | 731.1 | 730.8 | 730.0 | 729.3 | 728.5 | 727.7 |
| 155° | 756.5 | 757.1 | 757.7 | 757.4 | 756.4 | 755.4 | 754.3 | 753.3 |
| 157.5° | 778.8 | 779.4 | 780.0 | 779.9 | 779.1 | 778.3 | 777.4 | 776.5 |
| 160° | 792.5 | 793.2 | 793.9 | 794.0 | 793.4 | 792.8 | 792.2 | 791.6 |
| 162.5° | 805.4 | 806.2 | 806.9 | 806.8 | 805.8 | 804.9 | 803.9 | 803.0 |
| 165° | 821.7 | 822.6 | 823.5 | 823.5 | 822.4 | 821.3 | 820.3 | 819.2 |
| 167.5° | 835.0 | 835.9 | 836.8 | 836.8 | 835.9 | 835.0 | 834.1 | 833.1 |
| 170° | 842.2 | 843.3 | 844.3 | 844.3 | 843.3 | 842.2 | 841.2 | 840.1 |
| 172.5° | 847.9 | 848.9 | 849.7 | 849.7 | 848.6 | 847.6 | 846.5 | 845.5 |
| 175° | 854.0 | 854.9 | 855.8 | 855.7 | 854.7 | 853.7 | 852.6 | 851.5 |
| 177.5° | 856.8 | 857.5 | 858.2 | 858.2 | 857.3 | 856.4 | 855.7 | 854.8 |
| 180° | 857.0 | 857.0 | 857.0 | 857.0 | 857.0 | 857.0 | 857.0 | 857.0 |

(END OF REPORT)