

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: P331880-927

Luminaire Tested: **S123DIP-S340D585U927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331880-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S340D585U927-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 585 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2973.3 lumens
Efficiency: N/A
Efficacy: 116.1 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

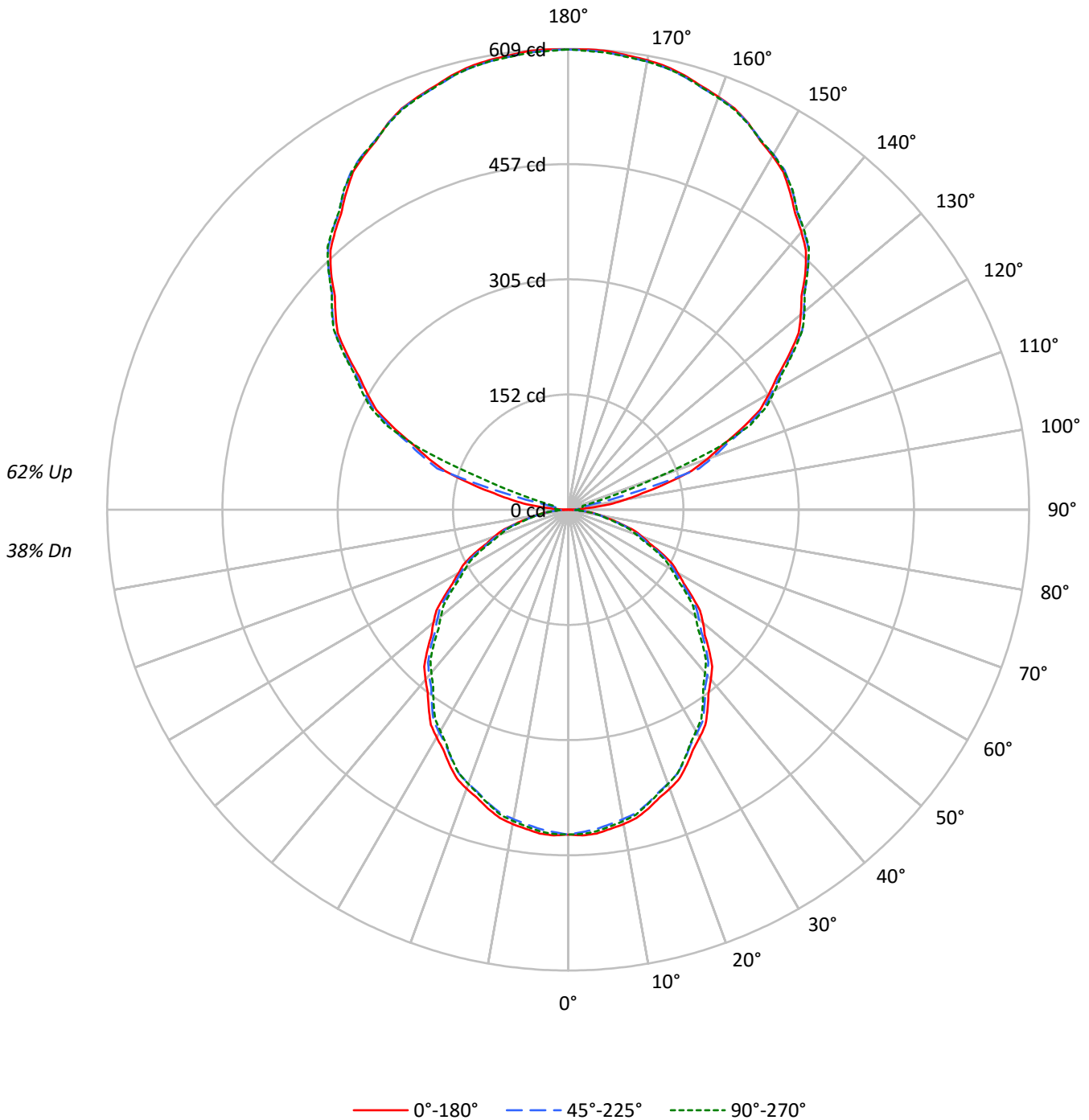
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331880-927

CATALOG NUMBER: S123DIP-S340D585U927-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331880-927

CATALOG NUMBER: S123DIP-S340D585U927-4F0-1E-UDD-F

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 | 95 | 95 | 95 | 95 | 76 | 76 | 76 | 60 | 60 | 60 | 45 | 45 | 45 | 38 |
| 1 | 95 | 91 | 87 | 83 | 86 | 82 | 79 | 76 | 67 | 65 | 63 | 53 | 51 | 50 | 39 | 39 | 38 | 32 |
| 2 | 86 | 79 | 73 | 68 | 78 | 72 | 67 | 62 | 59 | 55 | 52 | 46 | 44 | 41 | 35 | 33 | 32 | 26 |
| 3 | 79 | 69 | 62 | 57 | 71 | 63 | 57 | 52 | 52 | 47 | 43 | 41 | 38 | 35 | 31 | 29 | 27 | 22 |
| 4 | 72 | 61 | 54 | 48 | 65 | 56 | 49 | 44 | 46 | 41 | 37 | 36 | 33 | 30 | 27 | 25 | 23 | 19 |
| 5 | 66 | 55 | 47 | 41 | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 32 | 29 | 26 | 25 | 22 | 20 | 17 |
| 6 | 61 | 49 | 41 | 35 | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 29 | 26 | 23 | 22 | 20 | 18 | 15 |
| 7 | 56 | 44 | 36 | 31 | 51 | 40 | 33 | 29 | 33 | 28 | 24 | 27 | 23 | 20 | 20 | 18 | 16 | 13 |
| 8 | 52 | 40 | 32 | 27 | 47 | 37 | 30 | 25 | 30 | 25 | 21 | 24 | 21 | 18 | 19 | 16 | 14 | 12 |
| 9 | 48 | 36 | 29 | 24 | 44 | 33 | 27 | 22 | 28 | 23 | 19 | 22 | 19 | 16 | 17 | 15 | 13 | 10 |
| 10 | 45 | 33 | 26 | 21 | 41 | 31 | 24 | 20 | 25 | 21 | 17 | 21 | 17 | 14 | 16 | 13 | 11 | 9 |

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: P331880-927

CATALOG NUMBER: S123DIP-S340D585U927-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 40.4 | 1.4 |
| 10°-20° | 114.2 | 3.8 |
| 20°-30° | 168.7 | 5.7 |
| 30°-40° | 197.0 | 6.6 |
| 40°-50° | 198.1 | 6.7 |
| 50°-60° | 174.0 | 5.9 |
| 60°-70° | 129.6 | 4.4 |
| 70°-80° | 73.8 | 2.5 |
| 80°-90° | 22.9 | 0.8 |
| 90°-100° | 22.1 | 0.7 |
| 100°-110° | 105.4 | 3.5 |
| 110°-120° | 253.1 | 8.5 |
| 120°-130° | 322.3 | 10.8 |
| 130°-140° | 344.4 | 11.6 |
| 140°-150° | 322.0 | 10.8 |
| 150°-160° | 259.8 | 8.7 |
| 160°-170° | 167.7 | 5.6 |
| 170°-180° | 57.8 | 1.9 |
| 0°-30° | 323.3 | 10.9 |
| 0°-40° | 520.3 | 17.5 |
| 0°-60° | 892.4 | 30.0 |
| 0°-90° | 1118.7 | 37.6 |
| 90°-120° | 380.6 | 12.8 |
| 90°-150° | 1369.4 | 46.1 |
| 90°-180° | 1855.0 | 62.4 |
| 0°-180° | 2973.3 | 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° | 0 | 5 | 11 | 13 | 14 | 2 |
| 95° | 28 | 10 | 14 | 17 | 17 | 34 |
| 105° | 135 | 137 | 99 | 24 | 20 | 143 |
| 115° | 252 | 255 | 259 | 264 | 266 | 249 |
| 125° | 356 | 360 | 362 | 362 | 363 | 318 |
| 135° | 443 | 446 | 448 | 449 | 448 | 341 |
| 145° | 511 | 515 | 516 | 516 | 516 | 320 |
| 155° | 563 | 563 | 563 | 565 | 562 | 259 |
| 165° | 594 | 593 | 592 | 596 | 593 | 168 |
| 175° | 608 | 606 | 606 | 609 | 606 | 58 |
| 180° | 608 | 608 | 608 | 608 | 608 | |



TEST NUMBER: P331880-927

CATALOG NUMBER: S123DIP-S340D585U927-4F0-1E-UDD-F

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 | 7.8 | 7.8 | 7.8 | 7.8 | 7.9 | 8.1 | 8.2 | 8.5 | 8.6 | 8.7 |
| 90° | 0.5 | 1.4 | 2.5 | 3.5 | 4.4 | 5.6 | 6.9 | 8.2 | 9.5 | 10.9 | 11.2 |
| 92.5° | 8.4 | 8.2 | 7.8 | 7.5 | 7.3 | 7.6 | 8.6 | 9.6 | 10.6 | 11.6 | 12.2 |
| 95° | 27.6 | 23.4 | 19.3 | 15.2 | 11.1 | 9.6 | 10.7 | 11.8 | 12.9 | 14.0 | 14.7 |
| 97.5° | 55.4 | 53.6 | 51.7 | 49.8 | 48.0 | 43.5 | 36.2 | 29.0 | 21.8 | 14.6 | 15.4 |
| 100° | 76.4 | 78.3 | 80.4 | 82.4 | 84.4 | 77.6 | 61.9 | 46.3 | 30.6 | 14.9 | 15.7 |
| 102.5° | 100.2 | 101.6 | 103.1 | 104.6 | 106.0 | 98.2 | 81.0 | 63.9 | 46.8 | 29.7 | 27.3 |
| 105° | 134.7 | 135.8 | 136.9 | 137.9 | 139.0 | 135.1 | 126.0 | 117.0 | 108.0 | 98.9 | 81.2 |
| 107.5° | 171.0 | 171.8 | 172.8 | 173.6 | 174.5 | 175.6 | 177.1 | 178.5 | 179.9 | 181.3 | 168.3 |
| 110° | 195.2 | 196.0 | 196.8 | 197.6 | 198.4 | 199.4 | 200.4 | 201.5 | 202.6 | 203.7 | 200.4 |



TEST NUMBER: P331880-927

CATALOG NUMBER: S123DIP-S340D585U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 218.3 | 219.0 | 219.8 | 220.5 | 221.2 | 222.1 | 223.2 | 224.3 | 225.5 | 226.6 | 226.6 |
| 115° | 252.5 | 253.2 | 253.7 | 254.4 | 255.0 | 255.7 | 256.7 | 257.5 | 258.4 | 259.4 | 260.4 |
| 117.5° | 285.7 | 286.5 | 287.2 | 288.0 | 288.7 | 289.3 | 289.8 | 290.3 | 290.7 | 291.1 | 292.0 |
| 120° | 306.3 | 307.2 | 308.2 | 309.0 | 310.0 | 310.5 | 310.9 | 311.2 | 311.5 | 311.7 | 312.6 |
| 122.5° | 327.3 | 328.0 | 328.8 | 329.5 | 330.3 | 330.8 | 331.2 | 331.6 | 332.0 | 332.4 | 333.0 |
| 125° | 356.0 | 356.9 | 357.7 | 358.5 | 359.3 | 359.9 | 360.3 | 360.7 | 361.1 | 361.5 | 361.6 |
| 127.5° | 383.9 | 384.7 | 385.5 | 386.3 | 387.1 | 387.7 | 388.2 | 388.7 | 389.2 | 389.7 | 390.0 |
| 130° | 401.2 | 402.0 | 402.8 | 403.6 | 404.4 | 405.0 | 405.4 | 405.8 | 406.2 | 406.6 | 407.0 |
| 132.5° | 417.9 | 418.7 | 419.5 | 420.3 | 421.0 | 421.6 | 421.9 | 422.2 | 422.6 | 422.9 | 423.3 |
| 135° | 443.2 | 443.9 | 444.4 | 445.0 | 445.7 | 446.2 | 446.6 | 446.9 | 447.3 | 447.7 | 448.1 |
| 137.5° | 464.9 | 465.7 | 466.4 | 467.2 | 467.9 | 468.5 | 468.7 | 468.9 | 469.1 | 469.4 | 469.8 |
| 140° | 479.3 | 480.0 | 480.6 | 481.2 | 481.8 | 482.3 | 482.5 | 482.8 | 483.2 | 483.5 | 483.9 |
| 142.5° | 492.7 | 493.4 | 494.0 | 494.6 | 495.2 | 495.6 | 495.9 | 496.2 | 496.5 | 496.9 | 497.2 |
| 145° | 511.4 | 512.1 | 512.9 | 513.6 | 514.3 | 514.8 | 514.9 | 515.2 | 515.3 | 515.6 | 515.7 |
| 147.5° | 529.1 | 529.6 | 530.0 | 530.4 | 530.9 | 531.2 | 531.5 | 531.6 | 531.9 | 532.1 | 532.3 |
| 150° | 540.0 | 540.3 | 540.5 | 540.8 | 541.1 | 541.4 | 541.6 | 541.8 | 542.0 | 542.2 | 542.4 |
| 152.5° | 549.7 | 549.9 | 549.9 | 550.1 | 550.2 | 550.4 | 550.5 | 550.6 | 550.7 | 550.9 | 551.2 |
| 155° | 563.4 | 563.2 | 563.0 | 562.8 | 562.6 | 562.6 | 562.7 | 562.8 | 562.8 | 563.0 | 563.5 |
| 157.5° | 574.1 | 574.1 | 574.0 | 574.0 | 574.0 | 573.9 | 573.9 | 573.8 | 573.6 | 573.5 | 574.2 |
| 160° | 580.6 | 580.5 | 580.4 | 580.3 | 580.2 | 580.1 | 580.0 | 579.9 | 579.8 | 579.7 | 580.3 |
| 162.5° | 586.8 | 586.5 | 586.2 | 586.0 | 585.7 | 585.5 | 585.4 | 585.3 | 585.2 | 585.1 | 585.8 |
| 165° | 594.1 | 593.8 | 593.6 | 593.3 | 592.9 | 592.7 | 592.6 | 592.6 | 592.5 | 592.3 | 593.2 |
| 167.5° | 599.9 | 599.5 | 599.1 | 598.7 | 598.3 | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 | 599.0 |
| 170° | 603.2 | 602.8 | 602.4 | 602.0 | 601.6 | 601.3 | 601.3 | 601.3 | 601.3 | 601.3 | 602.2 |
| 172.5° | 605.4 | 604.9 | 604.4 | 603.9 | 603.4 | 603.2 | 603.3 | 603.4 | 603.5 | 603.6 | 604.4 |
| 175° | 608.2 | 607.7 | 607.1 | 606.7 | 606.2 | 605.9 | 606.0 | 606.2 | 606.3 | 606.3 | 607.0 |
| 177.5° | 608.9 | 608.5 | 608.1 | 607.7 | 607.3 | 607.1 | 607.2 | 607.3 | 607.4 | 607.4 | 608.1 |
| 180° | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 |



TEST NUMBER: P331880-927

CATALOG NUMBER: S123DIP-S340D585U927-4F0-1E-UDD-F

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° | 8.7 | 8.7 | 8.7 | 8.7 | 8.8 | 8.8 | 8.9 | 9.0 |
| 90° | 11.6 | 12.0 | 12.4 | 12.8 | 13.0 | 13.2 | 13.4 | 13.5 |
| 92.5° | 12.8 | 13.5 | 14.1 | 14.5 | 14.7 | 14.7 | 14.9 | 15.0 |
| 95° | 15.4 | 16.1 | 16.8 | 17.2 | 17.2 | 17.2 | 17.2 | 17.2 |
| 97.5° | 16.2 | 17.0 | 17.7 | 18.2 | 18.3 | 18.4 | 18.5 | 18.6 |
| 100° | 16.5 | 17.3 | 18.1 | 18.5 | 18.7 | 18.8 | 18.9 | 19.0 |
| 102.5° | 24.7 | 22.3 | 19.8 | 18.6 | 18.8 | 19.0 | 19.2 | 19.3 |
| 105° | 63.4 | 45.6 | 27.9 | 19.1 | 19.3 | 19.5 | 19.6 | 19.9 |
| 107.5° | 155.3 | 142.3 | 129.2 | 116.1 | 102.6 | 89.2 | 75.8 | 62.4 |
| 110° | 197.2 | 193.8 | 190.5 | 181.6 | 167.3 | 153.0 | 138.6 | 124.2 |



TEST NUMBER: P331880-927

CATALOG NUMBER: S123DIP-S340D585U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 226.6 | 226.7 | 226.8 | 225.3 | 222.3 | 219.2 | 216.2 | 213.2 |
| 115° | 261.3 | 262.4 | 263.4 | 264.0 | 264.4 | 264.9 | 265.3 | 265.7 |
| 117.5° | 292.8 | 293.6 | 294.4 | 294.9 | 294.9 | 295.0 | 295.1 | 295.2 |
| 120° | 313.4 | 314.2 | 315.0 | 315.4 | 315.4 | 315.4 | 315.4 | 315.4 |
| 122.5° | 333.5 | 334.1 | 334.6 | 334.9 | 335.0 | 335.1 | 335.2 | 335.3 |
| 125° | 361.9 | 362.0 | 362.3 | 362.5 | 362.7 | 362.9 | 363.1 | 363.3 |
| 127.5° | 390.3 | 390.6 | 390.9 | 391.0 | 390.8 | 390.6 | 390.4 | 390.2 |
| 130° | 407.4 | 407.8 | 408.2 | 408.4 | 408.1 | 408.0 | 407.7 | 407.6 |
| 132.5° | 423.7 | 424.1 | 424.5 | 424.6 | 424.3 | 424.0 | 423.7 | 423.4 |
| 135° | 448.4 | 448.7 | 448.9 | 448.9 | 448.7 | 448.4 | 448.1 | 447.7 |
| 137.5° | 470.3 | 470.8 | 471.3 | 471.4 | 471.2 | 471.0 | 470.8 | 470.6 |
| 140° | 484.3 | 484.7 | 485.1 | 485.1 | 485.0 | 484.7 | 484.6 | 484.3 |
| 142.5° | 497.5 | 497.8 | 498.1 | 498.1 | 497.9 | 497.6 | 497.3 | 497.0 |
| 145° | 515.9 | 516.1 | 516.3 | 516.4 | 516.4 | 516.4 | 516.4 | 516.4 |
| 147.5° | 532.5 | 532.7 | 532.9 | 532.7 | 532.3 | 531.8 | 531.4 | 530.9 |
| 150° | 542.6 | 542.8 | 543.0 | 543.0 | 542.6 | 542.3 | 542.0 | 541.8 |
| 152.5° | 551.6 | 551.9 | 552.3 | 552.2 | 551.8 | 551.4 | 550.9 | 550.4 |
| 155° | 564.0 | 564.5 | 565.0 | 564.9 | 564.4 | 563.7 | 563.2 | 562.5 |
| 157.5° | 574.7 | 575.4 | 576.0 | 575.8 | 575.0 | 574.3 | 573.5 | 572.7 |
| 160° | 580.9 | 581.5 | 582.1 | 582.0 | 581.4 | 580.7 | 580.0 | 579.2 |
| 162.5° | 586.5 | 587.2 | 587.9 | 587.9 | 587.2 | 586.6 | 586.0 | 585.4 |
| 165° | 594.0 | 594.8 | 595.6 | 595.6 | 594.9 | 594.2 | 593.5 | 592.8 |
| 167.5° | 599.8 | 600.6 | 601.3 | 601.3 | 600.6 | 599.8 | 599.0 | 598.1 |
| 170° | 603.0 | 603.8 | 604.6 | 604.6 | 603.8 | 603.0 | 602.2 | 601.3 |
| 172.5° | 605.1 | 605.9 | 606.7 | 606.7 | 605.9 | 605.0 | 604.0 | 603.2 |
| 175° | 607.8 | 608.5 | 609.2 | 609.1 | 608.3 | 607.5 | 606.7 | 605.9 |
| 177.5° | 608.7 | 609.3 | 610.0 | 609.9 | 609.1 | 608.3 | 607.5 | 606.7 |
| 180° | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 |

(END OF REPORT)