

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: P331951

Luminaire Tested: **S123DIP-S560D1195U835-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331951
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S560D1195U835-4F0-1E-UDD-D4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6685.7 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

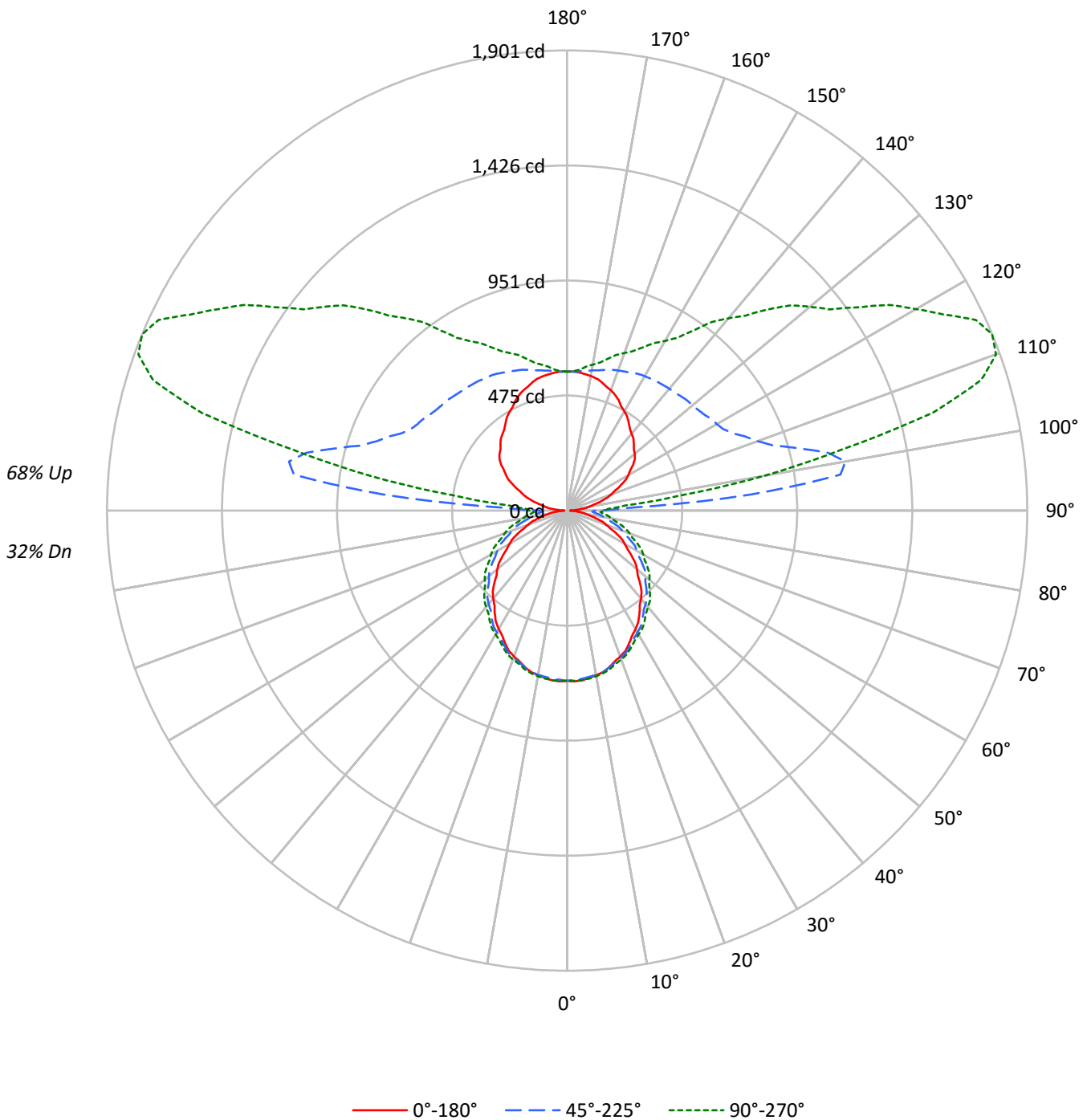
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331951

CATALOG NUMBER: S123DIP-S560D1195U835-4F0-1E-UDD-D4

Luminous Intensity Polar Plot





TEST NUMBER: P331951

CATALOG NUMBER: S123DIP-S560D1195U835-4F0-1E-UDD-D4

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 | 56 | 56 | 56 | 40 | 40 | 40 | 32 |
| 1 | 93 | 89 | 85 | 81 | 84 | 80 | 76 | 73 | 63 | 61 | 59 | 48 | 47 | 45 | 34 | 33 | 32 | 26 |
| 2 | 85 | 77 | 71 | 65 | 76 | 69 | 64 | 60 | 55 | 51 | 48 | 42 | 39 | 37 | 30 | 28 | 27 | 21 |
| 3 | 77 | 67 | 60 | 54 | 69 | 61 | 54 | 49 | 48 | 44 | 40 | 37 | 34 | 31 | 26 | 24 | 22 | 18 |
| 4 | 70 | 59 | 52 | 45 | 63 | 54 | 47 | 42 | 43 | 38 | 34 | 33 | 29 | 26 | 23 | 21 | 19 | 15 |
| 5 | 64 | 53 | 45 | 39 | 57 | 48 | 41 | 35 | 38 | 33 | 29 | 29 | 26 | 23 | 21 | 18 | 17 | 13 |
| 6 | 59 | 47 | 39 | 33 | 53 | 43 | 36 | 31 | 34 | 29 | 25 | 26 | 23 | 20 | 19 | 16 | 14 | 11 |
| 7 | 54 | 42 | 34 | 29 | 49 | 38 | 31 | 27 | 31 | 26 | 22 | 24 | 20 | 17 | 17 | 15 | 13 | 10 |
| 8 | 50 | 38 | 31 | 25 | 45 | 35 | 28 | 23 | 28 | 23 | 19 | 22 | 18 | 15 | 16 | 13 | 11 | 9 |
| 9 | 47 | 35 | 27 | 22 | 42 | 32 | 25 | 21 | 26 | 21 | 17 | 20 | 16 | 14 | 14 | 12 | 10 | 8 |
| 10 | 44 | 32 | 25 | 20 | 39 | 29 | 23 | 18 | 23 | 19 | 15 | 18 | 15 | 12 | 13 | 11 | 9 | 7 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7569 | 7569 | 7569 |
| 5° | 7593 | 7378 | 7383 |
| 10° | 7525 | 7209 | 7173 |
| 15° | 7428 | 7016 | 6943 |
| 20° | 7289 | 6795 | 6690 |
| 25° | 7119 | 6541 | 6425 |
| 30° | 6943 | 6313 | 6156 |
| 35° | 6746 | 6072 | 5942 |
| 40° | 6558 | 5852 | 5711 |
| 45° | 6351 | 5641 | 5527 |
| 50° | 6145 | 5433 | 5325 |
| 55° | 5919 | 5219 | 5143 |
| 60° | 5697 | 5003 | 4956 |
| 65° | 5471 | 4772 | 4733 |
| 70° | 5132 | 4514 | 4504 |
| 75° | 4700 | 4216 | 4274 |
| 80° | 4202 | 3924 | 4008 |
| 85° | 3741 | 3722 | 3854 |



TEST NUMBER: P331951

CATALOG NUMBER: S123DIP-S560D1195U835-4F0-1E-UDD-D4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 66.7 | 1.0 |
| 10°-20° | 190.0 | 2.8 |
| 20°-30° | 284.2 | 4.3 |
| 30°-40° | 339.4 | 5.1 |
| 40°-50° | 355.1 | 5.3 |
| 50°-60° | 333.2 | 5.0 |
| 60°-70° | 278.3 | 4.2 |
| 70°-80° | 199.1 | 3.0 |
| 80°-90° | 123.2 | 1.8 |
| 90°-100° | 393.9 | 5.9 |
| 100°-110° | 959.2 | 14.3 |
| 110°-120° | 926.3 | 13.9 |
| 120°-130° | 730.6 | 10.9 |
| 130°-140° | 568.9 | 8.5 |
| 140°-150° | 419.6 | 6.3 |
| 150°-160° | 291.1 | 4.4 |
| 160°-170° | 171.0 | 2.6 |
| 170°-180° | 55.6 | 0.8 |
| 0°-30° | 540.9 | 8.1 |
| 0°-40° | 880.3 | 13.2 |
| 0°-60° | 1568.7 | 23.5 |
| 0°-90° | 2169.4 | 32.4 |
| 90°-120° | 2279.4 | 34.1 |
| 90°-150° | 3998.5 | 59.8 |
| 90°-180° | 4516.0 | 67.5 |
| 0°-180° | 6685.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 703 | 703 | 703 | 703 | 703 | |
| 5° | 704 | 702 | 698 | 704 | 703 | 67 |
| 15° | 670 | 672 | 672 | 679 | 679 | 189 |
| 25° | 605 | 613 | 615 | 625 | 625 | 279 |
| 35° | 521 | 533 | 543 | 554 | 558 | 326 |
| 45° | 426 | 444 | 463 | 478 | 484 | 328 |
| 55° | 325 | 350 | 378 | 398 | 404 | 291 |
| 65° | 224 | 255 | 288 | 310 | 319 | 222 |
| 75° | 122 | 158 | 196 | 220 | 231 | 130 |
| 85° | 38 | 76 | 116 | 141 | 150 | 39 |
| 90° | 12 | 62 | 116 | 144 | 154 | 9 |
| 95° | 48 | 167 | 765 | 300 | 242 | 49 |
| 105° | 141 | 225 | 992 | 1712 | 1564 | 149 |
| 115° | 242 | 311 | 755 | 1625 | 1862 | 240 |
| 125° | 333 | 394 | 691 | 1248 | 1463 | 296 |
| 135° | 390 | 464 | 667 | 1018 | 1176 | 301 |
| 145° | 443 | 507 | 650 | 822 | 907 | 278 |
| 155° | 503 | 543 | 629 | 715 | 745 | 231 |
| 165° | 550 | 565 | 602 | 638 | 650 | 155 |
| 175° | 573 | 573 | 577 | 586 | 584 | 54 |
| 180° | 574 | 574 | 574 | 574 | 574 | |



TEST NUMBER: P331951

CATALOG NUMBER: S123DIP-S560D1195U835-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 0° | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 |
| 2.5° | 706.3 | 705.9 | 705.5 | 705.0 | 704.6 | 703.9 | 702.8 | 701.7 | 700.6 | 699.5 | 700.6 |
| 5° | 704.0 | 703.6 | 703.3 | 703.0 | 702.6 | 701.9 | 700.9 | 699.9 | 698.9 | 697.8 | 699.2 |
| 7.5° | 697.1 | 697.1 | 697.2 | 697.3 | 697.4 | 696.9 | 695.9 | 694.9 | 693.9 | 692.9 | 694.6 |
| 10° | 691.0 | 691.3 | 691.6 | 692.0 | 692.3 | 692.1 | 691.2 | 690.4 | 689.5 | 688.7 | 690.4 |
| 12.5° | 683.6 | 684.1 | 684.6 | 685.0 | 685.5 | 685.5 | 684.9 | 684.3 | 683.7 | 683.1 | 684.7 |
| 15° | 670.3 | 670.8 | 671.3 | 671.8 | 672.3 | 672.5 | 672.3 | 672.1 | 672.0 | 671.8 | 673.5 |
| 17.5° | 653.4 | 654.4 | 655.5 | 656.5 | 657.5 | 658.0 | 657.9 | 657.8 | 657.8 | 657.7 | 659.2 |
| 20° | 641.2 | 642.2 | 643.2 | 644.2 | 645.2 | 645.9 | 646.3 | 646.6 | 646.9 | 647.3 | 648.8 |
| 22.5° | 628.3 | 629.3 | 630.3 | 631.4 | 632.4 | 633.1 | 633.6 | 634.1 | 634.6 | 635.0 | 637.0 |
| 25° | 605.2 | 606.9 | 608.6 | 610.3 | 612.0 | 613.1 | 613.6 | 614.1 | 614.6 | 615.1 | 617.3 |
| 27.5° | 581.9 | 583.8 | 585.8 | 587.7 | 589.6 | 591.1 | 592.2 | 593.3 | 594.4 | 595.5 | 597.4 |
| 30° | 565.3 | 567.5 | 569.7 | 572.0 | 574.2 | 576.0 | 577.3 | 578.7 | 580.0 | 581.4 | 583.5 |
| 32.5° | 546.9 | 549.4 | 551.9 | 554.4 | 556.9 | 559.0 | 560.8 | 562.5 | 564.3 | 566.1 | 568.3 |
| 35° | 520.9 | 523.6 | 526.3 | 529.1 | 531.8 | 534.3 | 536.5 | 538.7 | 540.9 | 543.1 | 545.7 |
| 37.5° | 493.3 | 496.4 | 499.4 | 502.5 | 505.6 | 508.5 | 511.2 | 513.9 | 516.6 | 519.4 | 522.3 |
| 40° | 474.9 | 478.0 | 481.1 | 484.1 | 487.2 | 490.4 | 493.8 | 497.2 | 500.6 | 504.0 | 506.9 |
| 42.5° | 454.7 | 458.5 | 462.2 | 465.9 | 469.7 | 473.3 | 476.9 | 480.4 | 484.0 | 487.5 | 490.7 |
| 45° | 425.9 | 430.0 | 434.1 | 438.2 | 442.2 | 446.4 | 450.7 | 454.9 | 459.2 | 463.4 | 466.7 |
| 47.5° | 395.7 | 400.4 | 405.0 | 409.6 | 414.2 | 419.0 | 423.9 | 428.7 | 433.6 | 438.5 | 442.1 |
| 50° | 376.1 | 380.9 | 385.6 | 390.4 | 395.2 | 400.2 | 405.5 | 410.8 | 416.0 | 421.3 | 425.2 |
| 52.5° | 355.3 | 360.3 | 365.4 | 370.4 | 375.4 | 380.9 | 386.7 | 392.5 | 398.3 | 404.2 | 408.2 |
| 55° | 324.8 | 330.4 | 336.0 | 341.6 | 347.3 | 353.1 | 359.3 | 365.4 | 371.5 | 377.6 | 382.2 |
| 57.5° | 295.1 | 300.9 | 306.8 | 312.6 | 318.5 | 324.8 | 331.5 | 338.2 | 344.9 | 351.6 | 356.2 |
| 60° | 274.2 | 280.4 | 286.5 | 292.6 | 298.7 | 305.3 | 312.3 | 319.3 | 326.2 | 333.2 | 338.0 |
| 62.5° | 254.6 | 260.9 | 267.2 | 273.4 | 279.7 | 286.5 | 293.9 | 301.3 | 308.7 | 316.1 | 320.8 |
| 65° | 224.4 | 231.1 | 237.7 | 244.4 | 251.0 | 258.1 | 265.6 | 273.0 | 280.5 | 288.0 | 293.1 |
| 67.5° | 193.8 | 200.9 | 207.9 | 214.9 | 222.0 | 229.3 | 237.0 | 244.6 | 252.2 | 259.8 | 265.4 |
| 70° | 172.4 | 179.7 | 187.0 | 194.3 | 201.6 | 209.4 | 217.5 | 225.7 | 233.9 | 242.1 | 247.5 |
| 72.5° | 152.7 | 160.1 | 167.4 | 174.7 | 182.0 | 189.9 | 198.3 | 206.8 | 215.2 | 223.7 | 229.3 |
| 75° | 121.8 | 129.8 | 137.8 | 145.8 | 153.8 | 162.1 | 170.6 | 179.1 | 187.6 | 196.1 | 201.7 |
| 77.5° | 94.8 | 102.9 | 111.0 | 119.0 | 127.1 | 135.4 | 144.0 | 152.6 | 161.2 | 169.8 | 175.7 |
| 80° | 75.8 | 84.2 | 92.5 | 100.9 | 109.2 | 117.8 | 126.6 | 135.5 | 144.4 | 153.2 | 159.0 |
| 82.5° | 59.3 | 67.8 | 76.2 | 84.7 | 93.2 | 101.9 | 110.9 | 119.9 | 128.9 | 137.9 | 143.7 |
| 85° | 37.5 | 46.0 | 54.6 | 63.1 | 71.6 | 80.3 | 89.4 | 98.4 | 107.4 | 116.4 | 122.2 |
| 87.5° | 20.8 | 29.8 | 38.7 | 47.9 | 56.8 | 65.9 | 75.3 | 84.6 | 94.0 | 103.4 | 109.0 |
| 90° | 12.3 | 22.9 | 33.6 | 45.4 | 56.1 | 66.9 | 79.1 | 91.3 | 103.4 | 115.6 | 120.2 |
| 92.5° | 23.8 | 38.2 | 55.5 | 72.1 | 89.4 | 114.6 | 153.6 | 212.1 | 269.7 | 260.3 | 222.1 |
| 95° | 47.9 | 58.1 | 77.5 | 103.9 | 140.7 | 193.5 | 300.6 | 482.1 | 681.0 | 764.8 | 640.0 |
| 97.5° | 74.9 | 82.0 | 98.0 | 121.2 | 157.0 | 213.0 | 315.3 | 518.4 | 844.0 | 1138.1 | 1217.7 |
| 100° | 92.9 | 99.5 | 113.1 | 134.8 | 168.1 | 220.1 | 309.2 | 489.0 | 802.4 | 1166.9 | 1400.7 |
| 102.5° | 111.8 | 118.8 | 130.9 | 151.1 | 181.1 | 229.0 | 309.7 | 463.3 | 743.1 | 1102.8 | 1406.2 |
| 105° | 140.9 | 148.5 | 159.5 | 177.6 | 203.7 | 245.4 | 315.5 | 442.5 | 669.4 | 991.6 | 1329.8 |
| 107.5° | 171.1 | 178.1 | 188.3 | 205.5 | 229.6 | 268.3 | 330.3 | 436.7 | 620.7 | 892.8 | 1200.1 |
| 110° | 192.8 | 199.4 | 208.2 | 224.1 | 246.9 | 284.4 | 343.5 | 438.6 | 601.1 | 836.8 | 1118.9 |



TEST NUMBER: P331951

CATALOG NUMBER: S123DIP-S560D1195U835-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 213.3 | 219.3 | 227.6 | 242.9 | 265.2 | 301.3 | 356.4 | 444.7 | 588.4 | 797.8 | 1047.2 |
| 115° | 242.0 | 248.7 | 257.7 | 271.4 | 293.2 | 328.6 | 378.9 | 455.9 | 580.5 | 755.1 | 960.2 |
| 117.5° | 271.4 | 278.0 | 285.0 | 297.0 | 320.3 | 352.9 | 402.3 | 471.3 | 577.6 | 727.5 | 905.3 |
| 120° | 291.2 | 295.5 | 302.2 | 314.7 | 337.6 | 369.9 | 417.3 | 483.4 | 578.4 | 714.2 | 876.1 |
| 122.5° | 308.9 | 312.8 | 319.0 | 332.0 | 353.6 | 387.4 | 433.7 | 494.8 | 582.1 | 704.6 | 851.5 |
| 125° | 333.4 | 335.7 | 342.7 | 355.5 | 377.6 | 411.4 | 457.0 | 513.1 | 587.7 | 691.4 | 819.3 |
| 127.5° | 352.7 | 356.0 | 364.5 | 377.3 | 401.5 | 434.9 | 478.2 | 528.3 | 595.1 | 682.6 | 790.3 |
| 130° | 364.8 | 368.1 | 378.4 | 392.2 | 416.4 | 449.4 | 491.1 | 538.7 | 600.2 | 676.8 | 774.1 |
| 132.5° | 373.5 | 377.9 | 389.2 | 405.9 | 430.3 | 462.1 | 502.2 | 548.1 | 603.4 | 672.8 | 758.8 |
| 135° | 389.6 | 394.1 | 406.7 | 423.9 | 448.2 | 480.4 | 518.3 | 559.6 | 608.0 | 666.8 | 738.4 |
| 137.5° | 404.8 | 409.5 | 421.9 | 440.4 | 464.4 | 493.9 | 529.6 | 568.3 | 610.7 | 660.6 | 720.6 |
| 140° | 414.4 | 420.2 | 431.8 | 450.4 | 473.6 | 502.9 | 537.1 | 572.5 | 612.5 | 657.2 | 709.7 |
| 142.5° | 425.5 | 430.3 | 442.7 | 459.3 | 482.4 | 509.6 | 542.4 | 576.5 | 613.3 | 652.9 | 699.5 |
| 145° | 443.4 | 446.7 | 457.0 | 474.3 | 493.9 | 520.5 | 550.7 | 582.1 | 614.6 | 649.5 | 688.0 |
| 147.5° | 460.8 | 462.9 | 473.1 | 488.2 | 507.3 | 530.0 | 557.7 | 585.8 | 614.6 | 645.1 | 677.3 |
| 150° | 472.9 | 474.0 | 483.3 | 498.4 | 514.7 | 535.6 | 562.3 | 586.7 | 614.6 | 641.3 | 670.4 |
| 152.5° | 485.0 | 485.2 | 494.5 | 507.7 | 522.1 | 542.1 | 565.1 | 588.6 | 611.8 | 636.7 | 663.0 |
| 155° | 503.1 | 503.1 | 510.1 | 521.7 | 534.4 | 550.7 | 570.5 | 589.1 | 608.8 | 628.6 | 651.8 |
| 157.5° | 517.5 | 518.4 | 524.0 | 534.2 | 545.1 | 557.7 | 573.5 | 590.2 | 604.9 | 621.4 | 639.2 |
| 160° | 528.6 | 528.6 | 533.3 | 542.6 | 550.7 | 562.3 | 576.3 | 590.2 | 603.0 | 615.8 | 630.9 |
| 162.5° | 537.0 | 537.0 | 540.7 | 548.2 | 555.4 | 565.1 | 577.2 | 589.3 | 599.3 | 610.2 | 622.5 |
| 165° | 549.6 | 548.4 | 550.7 | 556.5 | 561.2 | 569.3 | 578.6 | 586.7 | 593.7 | 601.8 | 611.1 |
| 167.5° | 559.1 | 557.7 | 558.8 | 563.3 | 566.5 | 571.6 | 578.4 | 584.9 | 588.1 | 593.5 | 600.2 |
| 170° | 564.7 | 562.3 | 563.5 | 567.0 | 569.3 | 571.6 | 577.4 | 582.1 | 584.4 | 587.9 | 593.7 |
| 172.5° | 568.4 | 567.0 | 567.2 | 569.8 | 571.2 | 572.6 | 577.4 | 581.2 | 581.6 | 583.2 | 587.2 |
| 175° | 572.8 | 571.6 | 570.5 | 572.8 | 572.8 | 574.0 | 576.3 | 578.6 | 577.4 | 577.4 | 579.8 |
| 177.5° | 574.9 | 574.0 | 573.0 | 574.0 | 574.0 | 574.0 | 574.9 | 576.7 | 574.9 | 574.0 | 574.9 |
| 180° | 574.0 | 574.0 | 574.0 | 574.0 | 574.0 | 574.0 | 574.0 | 574.0 | 574.0 | 574.0 | 574.0 |



TEST NUMBER: P331951

CATALOG NUMBER: S123DIP-S560D1195U835-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 |
| 2.5° | 701.7 | 702.8 | 703.9 | 704.4 | 704.2 | 704.1 | 704.0 | 703.8 |
| 5° | 700.6 | 701.9 | 703.3 | 703.9 | 703.7 | 703.5 | 703.4 | 703.2 |
| 7.5° | 696.3 | 698.0 | 699.8 | 700.5 | 700.3 | 700.1 | 699.9 | 699.7 |
| 10° | 692.1 | 693.8 | 695.5 | 696.1 | 695.8 | 695.5 | 695.1 | 694.8 |
| 12.5° | 686.3 | 687.8 | 689.4 | 690.0 | 689.7 | 689.3 | 689.0 | 688.7 |
| 15° | 675.2 | 676.9 | 678.6 | 679.4 | 679.2 | 679.0 | 678.9 | 678.7 |
| 17.5° | 660.8 | 662.3 | 663.8 | 664.5 | 664.2 | 664.0 | 663.8 | 663.5 |
| 20° | 650.4 | 651.9 | 653.4 | 654.3 | 654.4 | 654.6 | 654.8 | 654.9 |
| 22.5° | 638.9 | 640.9 | 642.8 | 643.7 | 643.6 | 643.5 | 643.4 | 643.3 |
| 25° | 619.5 | 621.8 | 624.0 | 625.1 | 625.1 | 625.1 | 625.1 | 625.1 |
| 27.5° | 599.3 | 601.2 | 603.1 | 604.2 | 604.3 | 604.4 | 604.6 | 604.7 |
| 30° | 585.5 | 587.5 | 589.6 | 590.6 | 590.6 | 590.6 | 590.6 | 590.6 |
| 32.5° | 570.4 | 572.6 | 574.8 | 576.1 | 576.5 | 576.9 | 577.3 | 577.7 |
| 35° | 548.2 | 550.8 | 553.3 | 554.9 | 555.6 | 556.3 | 557.0 | 557.7 |
| 37.5° | 525.1 | 528.0 | 530.9 | 532.7 | 533.2 | 533.7 | 534.3 | 534.8 |
| 40° | 509.8 | 512.7 | 515.6 | 517.4 | 518.1 | 518.8 | 519.4 | 520.1 |
| 42.5° | 493.8 | 497.0 | 500.2 | 502.2 | 503.2 | 504.1 | 505.1 | 506.0 |
| 45° | 469.9 | 473.1 | 476.4 | 478.7 | 480.0 | 481.4 | 482.8 | 484.1 |
| 47.5° | 445.8 | 449.4 | 453.0 | 455.4 | 456.4 | 457.5 | 458.6 | 459.6 |
| 50° | 429.1 | 433.1 | 437.0 | 439.5 | 440.7 | 441.9 | 443.1 | 444.3 |
| 52.5° | 412.3 | 416.3 | 420.4 | 423.1 | 424.6 | 426.0 | 427.5 | 429.0 |
| 55° | 386.8 | 391.4 | 396.0 | 399.0 | 400.4 | 401.7 | 403.1 | 404.5 |
| 57.5° | 360.9 | 365.5 | 370.1 | 373.2 | 374.8 | 376.4 | 378.0 | 379.6 |
| 60° | 342.8 | 347.5 | 352.3 | 355.6 | 357.5 | 359.3 | 361.2 | 363.1 |
| 62.5° | 325.6 | 330.4 | 335.1 | 338.4 | 340.1 | 341.8 | 343.6 | 345.3 |
| 65° | 298.2 | 303.3 | 308.5 | 311.9 | 313.6 | 315.3 | 317.0 | 318.7 |
| 67.5° | 271.0 | 276.6 | 282.2 | 285.7 | 287.1 | 288.5 | 290.0 | 291.4 |
| 70° | 253.0 | 258.4 | 263.9 | 267.4 | 269.1 | 270.8 | 272.5 | 274.2 |
| 72.5° | 234.8 | 240.4 | 246.0 | 249.7 | 251.4 | 253.1 | 254.8 | 256.5 |
| 75° | 207.3 | 213.0 | 218.6 | 222.4 | 224.4 | 226.5 | 228.5 | 230.6 |
| 77.5° | 181.6 | 187.5 | 193.4 | 197.2 | 198.8 | 200.3 | 201.9 | 203.5 |
| 80° | 164.8 | 170.6 | 176.4 | 180.1 | 181.8 | 183.5 | 185.2 | 186.9 |
| 82.5° | 149.5 | 155.2 | 161.0 | 164.8 | 166.5 | 168.2 | 169.9 | 171.6 |
| 85° | 128.0 | 133.8 | 139.6 | 143.3 | 145.0 | 146.7 | 148.4 | 150.1 |
| 87.5° | 115.0 | 121.0 | 127.0 | 131.2 | 132.7 | 134.6 | 136.6 | 138.0 |
| 90° | 127.2 | 134.1 | 141.1 | 147.1 | 147.7 | 150.6 | 153.4 | 154.0 |
| 92.5° | 190.8 | 176.2 | 172.8 | 170.4 | 169.9 | 167.9 | 170.7 | 170.1 |
| 95° | 504.7 | 375.2 | 318.9 | 280.5 | 260.1 | 251.4 | 245.0 | 242.0 |
| 97.5° | 1123.1 | 920.7 | 775.9 | 640.3 | 556.3 | 505.7 | 476.0 | 467.7 |
| 100° | 1446.3 | 1357.2 | 1226.2 | 1064.5 | 948.9 | 865.7 | 822.1 | 825.0 |
| 102.5° | 1551.1 | 1552.9 | 1478.5 | 1377.2 | 1287.5 | 1222.1 | 1185.9 | 1160.9 |
| 105° | 1577.4 | 1698.3 | 1725.2 | 1698.1 | 1646.2 | 1603.6 | 1567.9 | 1563.7 |
| 107.5° | 1480.1 | 1673.3 | 1779.6 | 1824.0 | 1826.5 | 1813.1 | 1802.0 | 1792.9 |
| 110° | 1389.4 | 1607.6 | 1758.4 | 1842.6 | 1876.5 | 1887.2 | 1886.2 | 1885.2 |



TEST NUMBER: P331951

CATALOG NUMBER: S123DIP-S560D1195U835-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1299.0 | 1521.7 | 1690.0 | 1797.5 | 1858.5 | 1888.8 | 1899.1 | 1901.1 |
| 115° | 1179.2 | 1385.5 | 1560.4 | 1689.7 | 1778.2 | 1830.7 | 1855.3 | 1862.5 |
| 117.5° | 1090.9 | 1269.4 | 1426.8 | 1558.0 | 1650.2 | 1710.1 | 1744.9 | 1754.1 |
| 120° | 1043.8 | 1204.6 | 1347.9 | 1467.8 | 1560.8 | 1627.1 | 1656.1 | 1664.3 |
| 122.5° | 1006.1 | 1151.9 | 1284.8 | 1396.3 | 1479.1 | 1538.8 | 1570.7 | 1580.7 |
| 125° | 955.3 | 1085.5 | 1200.7 | 1296.0 | 1371.5 | 1423.9 | 1454.1 | 1463.4 |
| 127.5° | 910.4 | 1026.7 | 1130.6 | 1217.5 | 1284.9 | 1329.7 | 1357.1 | 1365.7 |
| 130° | 881.9 | 989.7 | 1087.1 | 1168.2 | 1230.8 | 1273.7 | 1299.1 | 1309.4 |
| 132.5° | 855.4 | 954.7 | 1045.4 | 1122.8 | 1181.8 | 1224.8 | 1247.5 | 1255.2 |
| 135° | 819.3 | 904.9 | 983.5 | 1051.6 | 1109.4 | 1145.1 | 1166.9 | 1175.9 |
| 137.5° | 786.3 | 856.6 | 924.4 | 983.5 | 1032.3 | 1068.4 | 1086.9 | 1093.1 |
| 140° | 766.9 | 828.7 | 887.0 | 938.6 | 983.7 | 1017.0 | 1036.5 | 1036.2 |
| 142.5° | 748.1 | 801.2 | 851.8 | 896.9 | 935.4 | 965.0 | 982.6 | 982.3 |
| 145° | 726.6 | 766.3 | 804.8 | 839.5 | 869.2 | 894.3 | 904.3 | 907.3 |
| 147.5° | 709.1 | 739.9 | 770.3 | 794.8 | 817.4 | 834.6 | 844.0 | 845.5 |
| 150° | 697.1 | 723.8 | 748.2 | 770.5 | 788.2 | 801.4 | 808.7 | 809.0 |
| 152.5° | 686.9 | 709.9 | 731.5 | 749.9 | 763.7 | 775.6 | 779.8 | 779.9 |
| 155° | 671.5 | 690.1 | 707.6 | 721.5 | 732.0 | 741.3 | 743.6 | 744.7 |
| 157.5° | 655.3 | 670.9 | 684.3 | 695.2 | 704.3 | 711.3 | 713.1 | 712.9 |
| 160° | 646.0 | 658.8 | 670.4 | 678.5 | 686.7 | 693.6 | 693.6 | 692.5 |
| 162.5° | 634.8 | 645.8 | 656.4 | 663.6 | 669.0 | 675.0 | 675.0 | 673.9 |
| 165° | 620.4 | 627.4 | 635.5 | 641.3 | 646.0 | 650.6 | 649.5 | 649.5 |
| 167.5° | 607.9 | 613.2 | 617.9 | 622.1 | 624.1 | 627.4 | 626.2 | 626.2 |
| 170° | 599.5 | 603.0 | 607.6 | 610.0 | 611.1 | 613.5 | 612.3 | 612.3 |
| 172.5° | 592.1 | 594.6 | 598.4 | 599.7 | 600.0 | 602.3 | 600.2 | 599.3 |
| 175° | 582.1 | 583.2 | 585.6 | 585.6 | 585.6 | 586.7 | 585.6 | 584.4 |
| 177.5° | 575.8 | 576.7 | 577.7 | 577.7 | 576.7 | 577.7 | 575.8 | 575.8 |
| 180° | 574.0 | 574.0 | 574.0 | 574.0 | 574.0 | 574.0 | 574.0 | 574.0 |

(END OF REPORT)