

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: P332514

Luminaire Tested: **S124DIP-S350D810U835-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332514
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S350D810U835-4F0-1E-UDD-F
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4752.6 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

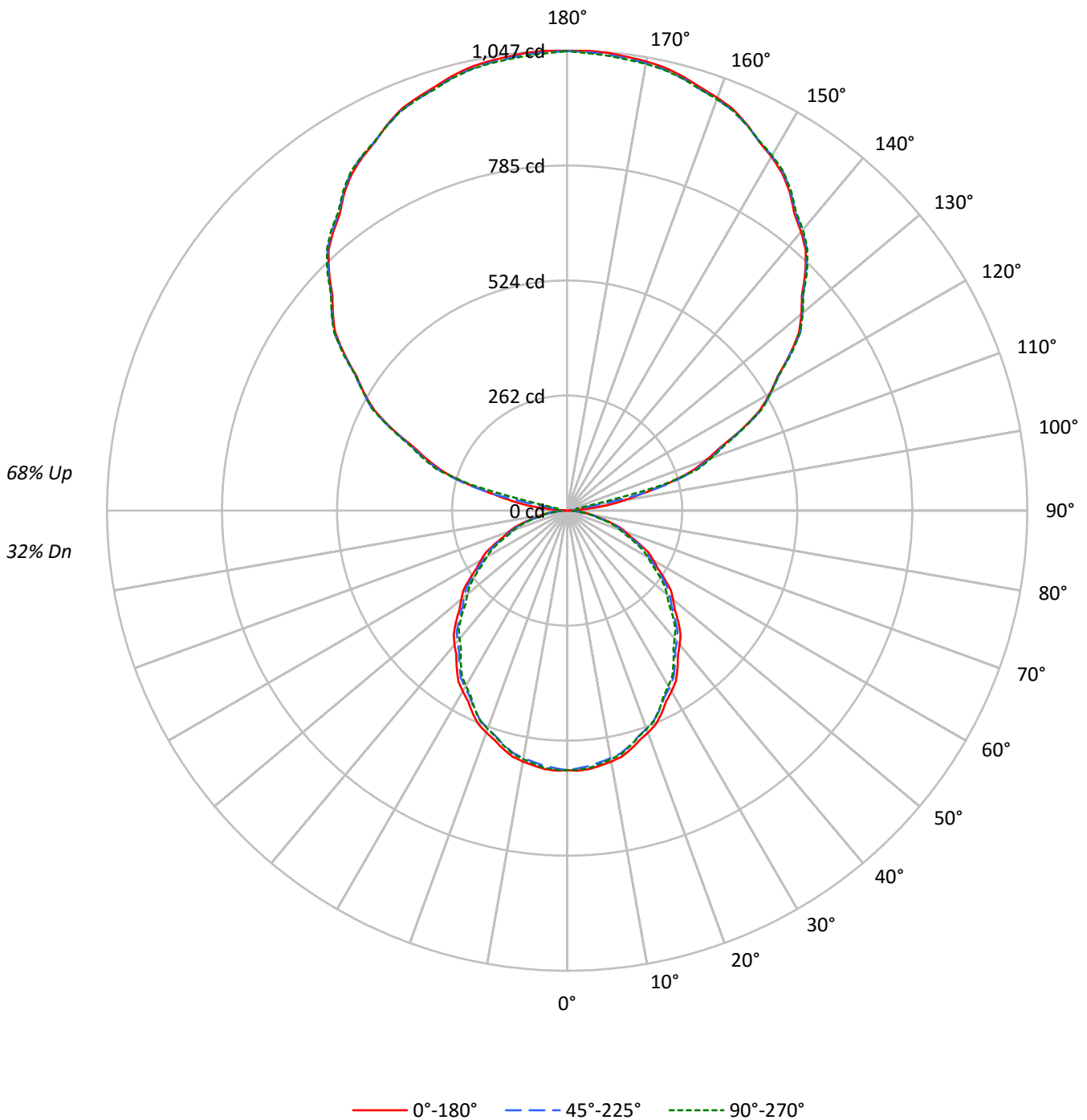
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332514

CATALOG NUMBER: S124DIP-S350D810U835-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332514

CATALOG NUMBER: S124DIP-S350D810U835-4F0-1E-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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 73 | 73 | 73 | 56 | 56 | 56 | 40 | 40 | 40 | 32 | | | | | 32 | | | |
| 1 | 94 | 89 | 86 | 82 | 84 | 81 | 77 | 75 | 64 | 62 | 60 | 49 | 47 | 46 | 35 | 34 | 33 | 27 | | | | | 27 | | | |
| 2 | 85 | 78 | 72 | 67 | 76 | 70 | 65 | 61 | 56 | 53 | 50 | 43 | 41 | 39 | 31 | 29 | 28 | 22 | | | | | 22 | | | |
| 3 | 78 | 69 | 61 | 56 | 70 | 62 | 56 | 51 | 49 | 45 | 42 | 38 | 35 | 33 | 27 | 25 | 24 | 19 | | | | | 19 | | | |
| 4 | 71 | 61 | 53 | 47 | 64 | 55 | 48 | 43 | 44 | 39 | 35 | 34 | 30 | 28 | 24 | 22 | 20 | 16 | | | | | 16 | | | |
| 5 | 65 | 54 | 46 | 40 | 58 | 49 | 42 | 37 | 39 | 34 | 30 | 30 | 27 | 24 | 22 | 20 | 18 | 14 | | | | | 14 | | | |
| 6 | 60 | 48 | 40 | 35 | 54 | 44 | 37 | 32 | 35 | 30 | 26 | 27 | 24 | 21 | 20 | 17 | 16 | 12 | | | | | 12 | | | |
| 7 | 55 | 43 | 36 | 30 | 50 | 39 | 33 | 28 | 32 | 27 | 23 | 25 | 21 | 18 | 18 | 16 | 14 | 11 | | | | | 11 | | | |
| 8 | 51 | 39 | 32 | 27 | 46 | 36 | 29 | 25 | 29 | 24 | 20 | 23 | 19 | 16 | 17 | 14 | 12 | 10 | | | | | 10 | | | |
| 9 | 48 | 36 | 28 | 24 | 43 | 33 | 26 | 22 | 26 | 22 | 18 | 21 | 17 | 15 | 15 | 13 | 11 | 9 | | | | | 9 | | | |
| 10 | 44 | 33 | 26 | 21 | 40 | 30 | 24 | 19 | 24 | 20 | 16 | 19 | 16 | 13 | 14 | 12 | 10 | 8 | | | | | 8 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4769 | 4769 | 4769 |
| 5° | 4783 | 4725 | 4760 |
| 10° | 4753 | 4687 | 4710 |
| 15° | 4695 | 4621 | 4633 |
| 20° | 4619 | 4538 | 4542 |
| 25° | 4532 | 4444 | 4431 |
| 30° | 4426 | 4333 | 4294 |
| 35° | 4315 | 4217 | 4161 |
| 40° | 4200 | 4086 | 4011 |
| 45° | 4080 | 3956 | 3881 |
| 50° | 3947 | 3841 | 3721 |
| 55° | 3804 | 3690 | 3571 |
| 60° | 3660 | 3523 | 3416 |
| 65° | 3500 | 3364 | 3228 |
| 70° | 3319 | 3151 | 3028 |
| 75° | 3041 | 2895 | 2820 |
| 80° | 2706 | 2599 | 2529 |
| 85° | 2371 | 2279 | 2232 |



TEST NUMBER: P332514

CATALOG NUMBER: S124DIP-S350D810U835-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.6 | 1.2 |
| 10°-20° | 156.7 | 3.3 |
| 20°-30° | 230.7 | 4.9 |
| 30°-40° | 268.2 | 5.6 |
| 40°-50° | 268.2 | 5.6 |
| 50°-60° | 234.6 | 4.9 |
| 60°-70° | 174.2 | 3.7 |
| 70°-80° | 99.0 | 2.1 |
| 80°-90° | 31.6 | 0.7 |
| 90°-100° | 35.8 | 0.8 |
| 100°-110° | 228.0 | 4.8 |
| 110°-120° | 436.1 | 9.2 |
| 120°-130° | 553.6 | 11.6 |
| 130°-140° | 592.3 | 12.5 |
| 140°-150° | 553.9 | 11.7 |
| 150°-160° | 446.7 | 9.4 |
| 160°-170° | 288.1 | 6.1 |
| 170°-180° | 99.3 | 2.1 |
| 0°-30° | 443.1 | 9.3 |
| 0°-40° | 711.3 | 15.0 |
| 0°-60° | 1214.1 | 25.5 |
| 0°-90° | 1518.9 | 32.0 |
| 90°-120° | 699.8 | 14.7 |
| 90°-150° | 2399.6 | 50.5 |
| 90°-180° | 3234.0 | 68.0 |
| 0°-180° | 4752.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 591 | 591 | 591 | 591 | 591 | |
| 5° | 590 | 588 | 583 | 588 | 587 | 56 |
| 15° | 562 | 560 | 553 | 555 | 554 | 158 |
| 25° | 509 | 505 | 499 | 499 | 498 | 234 |
| 35° | 438 | 434 | 428 | 425 | 422 | 274 |
| 45° | 357 | 354 | 346 | 342 | 340 | 275 |
| 55° | 270 | 269 | 262 | 257 | 254 | 242 |
| 65° | 183 | 181 | 176 | 172 | 169 | 181 |
| 75° | 98 | 95 | 93 | 91 | 90 | 104 |
| 85° | 26 | 26 | 25 | 25 | 24 | 28 |
| 90° | 2 | 11 | 17 | 22 | 24 | 3 |
| 95° | 43 | 18 | 17 | 22 | 23 | 55 |
| 105° | 235 | 240 | 244 | 249 | 223 | 246 |
| 115° | 439 | 442 | 441 | 442 | 443 | 432 |
| 125° | 618 | 621 | 619 | 622 | 622 | 551 |
| 135° | 766 | 766 | 769 | 770 | 772 | 590 |
| 145° | 884 | 886 | 886 | 887 | 888 | 552 |
| 155° | 969 | 969 | 967 | 970 | 968 | 446 |
| 165° | 1022 | 1018 | 1018 | 1024 | 1017 | 289 |
| 175° | 1045 | 1041 | 1042 | 1048 | 1039 | 100 |
| 180° | 1045 | 1045 | 1045 | 1045 | 1045 | |



TEST NUMBER: P332514

CATALOG NUMBER: S124DIP-S350D810U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 |
| 2.5° | 592.2 | 592.0 | 591.7 | 591.5 | 591.2 | 590.6 | 589.7 | 588.8 | 587.9 | 586.9 | 587.8 |
| 5° | 590.2 | 589.8 | 589.4 | 589.0 | 588.6 | 587.8 | 586.6 | 585.5 | 584.3 | 583.1 | 584.3 |
| 7.5° | 584.8 | 584.3 | 583.9 | 583.5 | 583.1 | 582.2 | 580.9 | 579.7 | 578.4 | 577.1 | 578.0 |
| 10° | 579.8 | 579.4 | 579.0 | 578.6 | 578.2 | 577.3 | 575.9 | 574.5 | 573.2 | 571.8 | 572.6 |
| 12.5° | 573.4 | 573.0 | 572.6 | 572.1 | 571.7 | 570.8 | 569.3 | 567.9 | 566.4 | 565.0 | 565.9 |
| 15° | 561.8 | 561.4 | 561.0 | 560.6 | 560.2 | 559.2 | 557.6 | 556.0 | 554.4 | 552.9 | 553.5 |
| 17.5° | 547.9 | 547.4 | 546.9 | 546.4 | 545.8 | 544.8 | 543.3 | 541.8 | 540.3 | 538.8 | 539.2 |
| 20° | 537.7 | 537.2 | 536.7 | 536.1 | 535.6 | 534.6 | 533.0 | 531.4 | 529.8 | 528.2 | 528.6 |
| 22.5° | 526.7 | 526.0 | 525.3 | 524.6 | 523.9 | 522.8 | 521.2 | 519.7 | 518.1 | 516.5 | 517.1 |
| 25° | 508.8 | 508.1 | 507.4 | 506.6 | 505.9 | 504.8 | 503.3 | 501.8 | 500.4 | 498.9 | 499.0 |
| 27.5° | 488.4 | 487.6 | 486.9 | 486.1 | 485.4 | 484.3 | 482.9 | 481.6 | 480.2 | 478.8 | 478.6 |
| 30° | 474.8 | 473.9 | 473.1 | 472.2 | 471.4 | 470.3 | 468.9 | 467.5 | 466.2 | 464.8 | 464.4 |
| 32.5° | 460.4 | 459.6 | 458.8 | 458.1 | 457.3 | 456.2 | 454.8 | 453.3 | 451.9 | 450.4 | 449.9 |
| 35° | 437.8 | 437.1 | 436.4 | 435.6 | 434.9 | 433.8 | 432.3 | 430.8 | 429.4 | 427.9 | 427.2 |
| 37.5° | 414.1 | 413.4 | 412.7 | 412.1 | 411.4 | 410.3 | 408.7 | 407.1 | 405.5 | 403.9 | 403.1 |
| 40° | 398.5 | 397.7 | 396.9 | 396.0 | 395.2 | 394.0 | 392.4 | 390.8 | 389.2 | 387.7 | 386.6 |
| 42.5° | 381.9 | 381.4 | 380.9 | 380.4 | 379.9 | 378.7 | 377.0 | 375.2 | 373.5 | 371.8 | 370.5 |
| 45° | 357.4 | 356.6 | 355.9 | 355.2 | 354.4 | 353.2 | 351.5 | 349.8 | 348.2 | 346.5 | 345.3 |
| 47.5° | 331.7 | 331.2 | 330.7 | 330.2 | 329.7 | 328.7 | 327.1 | 325.5 | 324.0 | 322.4 | 321.1 |
| 50° | 314.3 | 313.9 | 313.5 | 313.0 | 312.6 | 311.7 | 310.2 | 308.7 | 307.2 | 305.8 | 304.3 |
| 52.5° | 297.3 | 296.7 | 296.2 | 295.7 | 295.2 | 294.2 | 292.6 | 291.1 | 289.5 | 288.0 | 286.7 |
| 55° | 270.3 | 270.0 | 269.6 | 269.3 | 269.0 | 268.1 | 266.6 | 265.2 | 263.7 | 262.2 | 261.0 |
| 57.5° | 244.5 | 244.2 | 243.8 | 243.5 | 243.1 | 242.2 | 240.7 | 239.3 | 237.8 | 236.4 | 235.2 |
| 60° | 226.7 | 226.2 | 225.7 | 225.1 | 224.6 | 223.7 | 222.3 | 220.9 | 219.6 | 218.2 | 217.3 |
| 62.5° | 209.3 | 208.9 | 208.4 | 208.0 | 207.5 | 206.6 | 205.1 | 203.7 | 202.2 | 200.8 | 199.9 |
| 65° | 183.2 | 182.7 | 182.1 | 181.6 | 181.1 | 180.3 | 179.2 | 178.2 | 177.1 | 176.1 | 175.0 |
| 67.5° | 156.9 | 156.4 | 155.9 | 155.4 | 154.9 | 154.2 | 153.2 | 152.2 | 151.2 | 150.1 | 149.1 |
| 70° | 140.6 | 139.8 | 139.1 | 138.4 | 137.6 | 136.8 | 136.0 | 135.2 | 134.3 | 133.5 | 132.6 |
| 72.5° | 123.2 | 122.4 | 121.7 | 121.0 | 120.2 | 119.5 | 118.8 | 118.2 | 117.5 | 116.8 | 116.1 |
| 75° | 97.5 | 97.0 | 96.5 | 95.9 | 95.4 | 94.9 | 94.4 | 93.8 | 93.3 | 92.8 | 92.4 |
| 77.5° | 73.0 | 72.8 | 72.5 | 72.3 | 72.1 | 71.7 | 71.3 | 70.8 | 70.3 | 69.9 | 69.7 |
| 80° | 58.2 | 57.9 | 57.6 | 57.3 | 57.0 | 56.7 | 56.5 | 56.3 | 56.1 | 55.9 | 55.6 |
| 82.5° | 43.8 | 43.7 | 43.5 | 43.4 | 43.2 | 43.1 | 43.1 | 43.1 | 43.0 | 43.0 | 42.9 |
| 85° | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.5 | 25.2 | 25.0 | 24.8 | 24.6 | 24.6 |
| 87.5° | 10.3 | 10.6 | 10.9 | 11.2 | 11.5 | 11.8 | 11.9 | 12.1 | 12.3 | 12.5 | 12.7 |
| 90° | 2.3 | 4.3 | 6.2 | 8.1 | 10.0 | 11.6 | 13.0 | 14.4 | 15.8 | 17.2 | 18.2 |
| 92.5° | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 11.0 | 12.4 | 13.8 | 15.2 | 16.6 | 17.6 |
| 95° | 43.0 | 37.1 | 31.2 | 25.3 | 19.4 | 16.5 | 16.7 | 16.9 | 17.0 | 17.2 | 18.2 |
| 97.5° | 91.3 | 95.0 | 98.7 | 102.4 | 106.1 | 98.2 | 78.8 | 59.4 | 40.0 | 20.6 | 20.7 |
| 100° | 128.2 | 131.4 | 134.5 | 137.6 | 140.7 | 130.3 | 106.3 | 82.4 | 58.4 | 34.4 | 31.4 |
| 102.5° | 169.5 | 171.8 | 174.1 | 176.4 | 178.7 | 178.3 | 175.1 | 172.0 | 168.9 | 165.8 | 133.9 |
| 105° | 235.3 | 236.4 | 237.4 | 238.5 | 239.5 | 240.5 | 241.3 | 242.2 | 243.1 | 243.9 | 245.5 |
| 107.5° | 296.5 | 297.0 | 297.5 | 298.1 | 298.6 | 299.4 | 300.6 | 301.8 | 303.0 | 304.2 | 304.9 |
| 110° | 337.8 | 338.3 | 338.8 | 339.3 | 339.9 | 340.6 | 341.7 | 342.7 | 343.8 | 344.8 | 345.2 |



TEST NUMBER: P332514

CATALOG NUMBER: S124DIP-S350D810U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 377.8 | 378.7 | 379.7 | 380.6 | 381.6 | 382.3 | 382.8 | 383.2 | 383.7 | 384.2 | 384.2 |
| 115° | 439.4 | 439.9 | 440.5 | 441.0 | 441.5 | 441.7 | 441.5 | 441.3 | 441.2 | 441.0 | 441.3 |
| 117.5° | 494.9 | 495.6 | 496.3 | 497.0 | 497.7 | 498.3 | 498.6 | 499.0 | 499.4 | 499.8 | 499.7 |
| 120° | 532.5 | 533.2 | 533.9 | 534.6 | 535.2 | 535.5 | 535.3 | 535.2 | 535.0 | 534.8 | 535.2 |
| 122.5° | 567.5 | 567.9 | 568.3 | 568.7 | 569.2 | 569.5 | 569.7 | 570.0 | 570.2 | 570.5 | 570.7 |
| 125° | 617.7 | 618.4 | 619.1 | 619.8 | 620.5 | 620.6 | 620.3 | 620.0 | 619.6 | 619.3 | 619.8 |
| 127.5° | 665.2 | 665.4 | 665.6 | 665.8 | 665.9 | 666.4 | 667.2 | 668.0 | 668.8 | 669.6 | 669.5 |
| 130° | 695.9 | 696.1 | 696.2 | 696.4 | 696.6 | 696.9 | 697.4 | 698.0 | 698.5 | 699.0 | 699.2 |
| 132.5° | 724.0 | 724.3 | 724.7 | 725.0 | 725.3 | 725.8 | 726.4 | 727.1 | 727.7 | 728.4 | 728.6 |
| 135° | 766.3 | 766.1 | 765.9 | 765.7 | 765.6 | 765.8 | 766.5 | 767.2 | 767.9 | 768.6 | 768.9 |
| 137.5° | 803.6 | 803.7 | 803.8 | 803.8 | 803.9 | 804.3 | 805.1 | 805.9 | 806.6 | 807.4 | 807.8 |
| 140° | 828.0 | 828.4 | 828.7 | 829.1 | 829.4 | 829.8 | 830.1 | 830.5 | 830.8 | 831.1 | 831.7 |
| 142.5° | 849.9 | 850.5 | 851.2 | 851.8 | 852.4 | 852.8 | 853.0 | 853.3 | 853.5 | 853.7 | 854.1 |
| 145° | 883.5 | 884.1 | 884.6 | 885.1 | 885.6 | 885.9 | 885.9 | 885.9 | 885.9 | 885.9 | 886.1 |
| 147.5° | 910.3 | 911.3 | 912.2 | 913.2 | 914.2 | 914.6 | 914.4 | 914.2 | 914.0 | 913.9 | 914.0 |
| 150° | 929.7 | 930.4 | 931.1 | 931.8 | 932.4 | 932.7 | 932.5 | 932.4 | 932.2 | 932.0 | 932.0 |
| 152.5° | 945.9 | 946.5 | 947.0 | 947.6 | 948.2 | 948.3 | 948.0 | 947.7 | 947.3 | 947.0 | 947.3 |
| 155° | 968.8 | 968.9 | 969.1 | 969.3 | 969.5 | 969.3 | 968.8 | 968.2 | 967.7 | 967.2 | 967.9 |
| 157.5° | 988.0 | 987.9 | 987.8 | 987.7 | 987.6 | 987.2 | 986.6 | 986.1 | 985.5 | 984.9 | 985.8 |
| 160° | 999.3 | 998.7 | 998.2 | 997.7 | 997.2 | 996.8 | 996.7 | 996.5 | 996.3 | 996.1 | 997.2 |
| 162.5° | 1009.3 | 1008.6 | 1007.9 | 1007.3 | 1006.6 | 1006.2 | 1006.0 | 1005.9 | 1005.7 | 1005.5 | 1006.6 |
| 165° | 1021.9 | 1021.1 | 1020.2 | 1019.3 | 1018.5 | 1018.0 | 1018.0 | 1018.0 | 1018.0 | 1018.0 | 1019.4 |
| 167.5° | 1031.9 | 1031.0 | 1030.1 | 1029.2 | 1028.3 | 1027.8 | 1027.7 | 1027.6 | 1027.5 | 1027.4 | 1028.9 |
| 170° | 1037.6 | 1036.5 | 1035.5 | 1034.4 | 1033.4 | 1033.0 | 1033.1 | 1033.3 | 1033.5 | 1033.7 | 1035.0 |
| 172.5° | 1041.3 | 1040.3 | 1039.2 | 1038.2 | 1037.2 | 1036.7 | 1036.9 | 1037.1 | 1037.2 | 1037.4 | 1038.8 |
| 175° | 1045.4 | 1044.3 | 1043.3 | 1042.3 | 1041.2 | 1040.8 | 1041.0 | 1041.1 | 1041.3 | 1041.5 | 1043.0 |
| 177.5° | 1047.3 | 1046.3 | 1045.3 | 1044.3 | 1043.4 | 1043.0 | 1043.3 | 1043.6 | 1043.9 | 1044.1 | 1045.2 |
| 180° | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 |



TEST NUMBER: P332514

CATALOG NUMBER: S124DIP-S350D810U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 |
| 2.5° | 588.6 | 589.5 | 590.3 | 590.7 | 590.6 | 590.5 | 590.4 | 590.3 |
| 5° | 585.5 | 586.6 | 587.8 | 588.2 | 588.0 | 587.8 | 587.6 | 587.4 |
| 7.5° | 578.9 | 579.9 | 580.8 | 581.2 | 581.1 | 580.9 | 580.8 | 580.7 |
| 10° | 573.5 | 574.3 | 575.2 | 575.5 | 575.3 | 575.0 | 574.8 | 574.6 |
| 12.5° | 566.8 | 567.7 | 568.7 | 569.0 | 568.7 | 568.4 | 568.1 | 567.8 |
| 15° | 554.1 | 554.7 | 555.4 | 555.5 | 555.2 | 554.9 | 554.6 | 554.3 |
| 17.5° | 539.6 | 540.0 | 540.4 | 540.5 | 540.3 | 540.1 | 539.9 | 539.7 |
| 20° | 528.9 | 529.2 | 529.5 | 529.6 | 529.3 | 529.1 | 528.9 | 528.7 |
| 22.5° | 517.6 | 518.2 | 518.8 | 518.9 | 518.5 | 518.1 | 517.7 | 517.4 |
| 25° | 499.1 | 499.2 | 499.3 | 499.2 | 498.7 | 498.3 | 497.9 | 497.5 |
| 27.5° | 478.3 | 478.1 | 477.8 | 477.4 | 476.9 | 476.4 | 475.8 | 475.3 |
| 30° | 464.0 | 463.6 | 463.1 | 462.7 | 462.1 | 461.6 | 461.1 | 460.6 |
| 32.5° | 449.4 | 448.9 | 448.4 | 447.9 | 447.4 | 446.8 | 446.3 | 445.8 |
| 35° | 426.4 | 425.7 | 424.9 | 424.3 | 423.8 | 423.3 | 422.7 | 422.2 |
| 37.5° | 402.3 | 401.5 | 400.7 | 400.0 | 399.3 | 398.6 | 397.9 | 397.2 |
| 40° | 385.6 | 384.5 | 383.5 | 382.7 | 382.1 | 381.6 | 381.1 | 380.6 |
| 42.5° | 369.3 | 368.1 | 366.9 | 366.1 | 365.7 | 365.4 | 365.0 | 364.7 |
| 45° | 344.2 | 343.0 | 341.9 | 341.1 | 340.8 | 340.5 | 340.2 | 339.9 |
| 47.5° | 319.8 | 318.5 | 317.2 | 316.2 | 315.4 | 314.6 | 313.8 | 313.0 |
| 50° | 302.8 | 301.4 | 299.9 | 298.8 | 298.2 | 297.6 | 296.9 | 296.3 |
| 52.5° | 285.4 | 284.1 | 282.8 | 281.7 | 280.9 | 280.1 | 279.3 | 278.5 |
| 55° | 259.7 | 258.4 | 257.2 | 256.2 | 255.6 | 255.0 | 254.3 | 253.7 |
| 57.5° | 234.0 | 232.8 | 231.6 | 230.7 | 230.1 | 229.5 | 228.9 | 228.2 |
| 60° | 216.3 | 215.4 | 214.4 | 213.7 | 213.2 | 212.6 | 212.1 | 211.6 |
| 62.5° | 199.1 | 198.2 | 197.3 | 196.6 | 196.1 | 195.6 | 195.1 | 194.5 |
| 65° | 174.0 | 172.9 | 171.9 | 171.1 | 170.6 | 170.0 | 169.5 | 169.0 |
| 67.5° | 148.1 | 147.1 | 146.1 | 145.5 | 145.4 | 145.2 | 145.1 | 144.9 |
| 70° | 131.8 | 131.0 | 130.1 | 129.5 | 129.2 | 128.9 | 128.6 | 128.3 |
| 72.5° | 115.5 | 114.8 | 114.1 | 113.6 | 113.3 | 113.0 | 112.7 | 112.4 |
| 75° | 91.9 | 91.5 | 91.1 | 90.8 | 90.7 | 90.6 | 90.5 | 90.4 |
| 77.5° | 69.6 | 69.5 | 69.4 | 69.2 | 68.9 | 68.6 | 68.3 | 68.1 |
| 80° | 55.4 | 55.2 | 55.0 | 54.9 | 54.7 | 54.6 | 54.5 | 54.4 |
| 82.5° | 42.7 | 42.6 | 42.5 | 42.4 | 42.3 | 42.1 | 42.0 | 41.9 |
| 85° | 24.6 | 24.6 | 24.6 | 24.6 | 24.5 | 24.4 | 24.2 | 24.1 |
| 87.5° | 12.9 | 13.2 | 13.4 | 13.5 | 13.6 | 13.6 | 13.7 | 13.8 |
| 90° | 19.3 | 20.3 | 21.4 | 22.1 | 22.4 | 22.8 | 23.1 | 23.5 |
| 92.5° | 18.7 | 19.7 | 20.7 | 21.3 | 21.4 | 21.4 | 21.5 | 21.6 |
| 95° | 19.3 | 20.3 | 21.4 | 22.0 | 22.2 | 22.3 | 22.5 | 22.7 |
| 97.5° | 20.9 | 21.0 | 21.1 | 21.2 | 21.4 | 21.5 | 21.7 | 21.9 |
| 100° | 28.5 | 25.5 | 22.6 | 21.2 | 21.4 | 21.5 | 21.7 | 21.9 |
| 102.5° | 102.0 | 70.2 | 38.3 | 22.4 | 22.4 | 22.4 | 22.5 | 22.5 |
| 105° | 247.1 | 248.6 | 250.2 | 247.9 | 241.6 | 235.3 | 229.1 | 222.8 |
| 107.5° | 305.7 | 306.4 | 307.2 | 307.9 | 308.6 | 309.2 | 309.9 | 310.6 |
| 110° | 345.5 | 345.9 | 346.2 | 346.6 | 347.2 | 347.7 | 348.2 | 348.7 |



TEST NUMBER: P332514

CATALOG NUMBER: S124DIP-S350D810U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 384.1 | 384.0 | 383.9 | 384.2 | 384.9 | 385.6 | 386.2 | 386.9 |
| 115° | 441.7 | 442.0 | 442.4 | 442.6 | 442.6 | 442.6 | 442.6 | 442.6 |
| 117.5° | 499.6 | 499.6 | 499.5 | 499.4 | 499.4 | 499.3 | 499.2 | 499.2 |
| 120° | 535.5 | 535.9 | 536.2 | 536.2 | 535.9 | 535.5 | 535.2 | 534.8 |
| 122.5° | 570.9 | 571.1 | 571.3 | 571.2 | 570.9 | 570.5 | 570.2 | 569.8 |
| 125° | 620.3 | 620.8 | 621.3 | 621.7 | 621.9 | 622.0 | 622.2 | 622.4 |
| 127.5° | 669.4 | 669.3 | 669.2 | 669.1 | 668.9 | 668.8 | 668.7 | 668.5 |
| 130° | 699.4 | 699.5 | 699.7 | 699.8 | 699.8 | 699.8 | 699.8 | 699.8 |
| 132.5° | 728.8 | 728.9 | 729.1 | 729.1 | 729.0 | 728.8 | 728.7 | 728.6 |
| 135° | 769.3 | 769.6 | 770.0 | 770.3 | 770.7 | 771.0 | 771.4 | 771.7 |
| 137.5° | 808.1 | 808.5 | 808.9 | 809.0 | 808.9 | 808.8 | 808.7 | 808.6 |
| 140° | 832.2 | 832.7 | 833.2 | 833.6 | 833.8 | 833.9 | 834.1 | 834.3 |
| 142.5° | 854.4 | 854.8 | 855.2 | 855.4 | 855.4 | 855.5 | 855.5 | 855.5 |
| 145° | 886.2 | 886.4 | 886.6 | 886.8 | 887.2 | 887.5 | 887.9 | 888.2 |
| 147.5° | 914.2 | 914.3 | 914.4 | 914.6 | 914.8 | 914.9 | 915.1 | 915.3 |
| 150° | 932.0 | 932.0 | 932.0 | 932.1 | 932.3 | 932.4 | 932.6 | 932.8 |
| 152.5° | 947.6 | 947.9 | 948.1 | 948.2 | 948.1 | 948.0 | 947.9 | 947.8 |
| 155° | 968.6 | 969.3 | 970.0 | 970.1 | 969.5 | 969.0 | 968.5 | 968.0 |
| 157.5° | 986.7 | 987.6 | 988.5 | 988.5 | 987.6 | 986.7 | 985.8 | 984.9 |
| 160° | 998.2 | 999.3 | 1000.3 | 1000.3 | 999.3 | 998.2 | 997.2 | 996.1 |
| 162.5° | 1007.6 | 1008.6 | 1009.7 | 1009.6 | 1008.4 | 1007.2 | 1006.1 | 1004.9 |
| 165° | 1020.8 | 1022.2 | 1023.6 | 1023.5 | 1021.9 | 1020.4 | 1018.8 | 1017.2 |
| 167.5° | 1030.5 | 1032.0 | 1033.5 | 1033.4 | 1031.7 | 1029.9 | 1028.2 | 1026.5 |
| 170° | 1036.4 | 1037.8 | 1039.2 | 1039.0 | 1037.3 | 1035.6 | 1033.8 | 1032.1 |
| 172.5° | 1040.2 | 1041.6 | 1043.0 | 1042.7 | 1040.9 | 1039.0 | 1037.1 | 1035.2 |
| 175° | 1044.6 | 1046.2 | 1047.7 | 1047.5 | 1045.4 | 1043.3 | 1041.2 | 1039.1 |
| 177.5° | 1046.4 | 1047.5 | 1048.6 | 1048.3 | 1046.6 | 1045.0 | 1043.3 | 1041.6 |
| 180° | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 |

(END OF REPORT)