

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: P332888-927

Luminaire Tested: **SA4XXRDIP-C350D1035U927-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332888-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C350D1035U927-4F0-1E-UDD-F4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4061.3 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

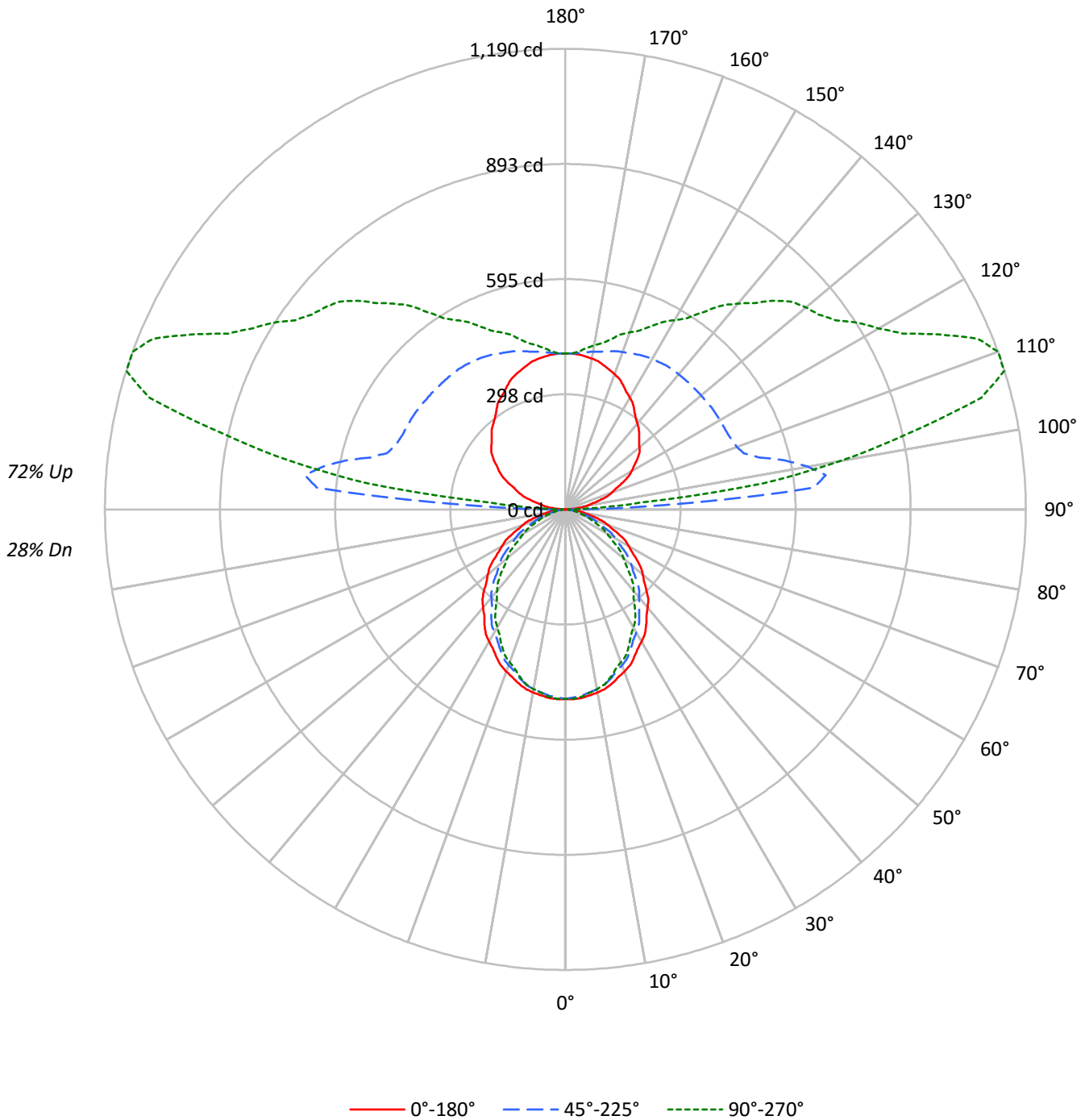
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332888-927

CATALOG NUMBER: SA4XXRDIP-C350D1035U927-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P332888-927

CATALOG NUMBER: SA4XXRDIP-C350D1035U927-4F0-1E-UDD-F4

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 | 36 | 36 | 36 | 28 |
| 1 | 93 | 89 | 85 | 82 | 83 | 80 | 77 | 74 | 62 | 60 | 58 | 46 | 45 | 44 | 32 | 31 | 30 | 24 |
| 2 | 85 | 78 | 72 | 67 | 76 | 70 | 65 | 61 | 55 | 51 | 49 | 41 | 39 | 37 | 28 | 27 | 26 | 20 |
| 3 | 77 | 68 | 61 | 56 | 69 | 61 | 56 | 51 | 48 | 44 | 41 | 36 | 34 | 31 | 25 | 24 | 22 | 17 |
| 4 | 71 | 60 | 53 | 47 | 63 | 54 | 48 | 43 | 43 | 38 | 35 | 32 | 29 | 27 | 22 | 21 | 19 | 15 |
| 5 | 65 | 54 | 46 | 40 | 58 | 48 | 42 | 37 | 38 | 34 | 30 | 29 | 26 | 23 | 20 | 18 | 17 | 13 |
| 6 | 60 | 48 | 40 | 35 | 53 | 43 | 37 | 32 | 35 | 30 | 26 | 26 | 23 | 20 | 18 | 16 | 15 | 11 |
| 7 | 55 | 43 | 36 | 30 | 49 | 39 | 33 | 28 | 31 | 26 | 23 | 24 | 20 | 18 | 17 | 15 | 13 | 10 |
| 8 | 51 | 39 | 32 | 27 | 46 | 36 | 29 | 25 | 28 | 24 | 20 | 22 | 18 | 16 | 15 | 13 | 12 | 9 |
| 9 | 47 | 36 | 29 | 24 | 42 | 32 | 26 | 22 | 26 | 21 | 18 | 20 | 17 | 14 | 14 | 12 | 11 | 8 |
| 10 | 44 | 33 | 26 | 21 | 40 | 30 | 24 | 19 | 24 | 19 | 16 | 18 | 15 | 13 | 13 | 11 | 10 | 8 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3953 | 3953 | 3953 |
| 5° | 3962 | 3914 | 3938 |
| 10° | 3937 | 3867 | 3867 |
| 15° | 3892 | 3786 | 3758 |
| 20° | 3830 | 3679 | 3611 |
| 25° | 3751 | 3553 | 3463 |
| 30° | 3674 | 3422 | 3278 |
| 35° | 3588 | 3286 | 3094 |
| 40° | 3485 | 3130 | 2893 |
| 45° | 3391 | 2975 | 2689 |
| 50° | 3282 | 2798 | 2473 |
| 55° | 3167 | 2612 | 2238 |
| 60° | 3039 | 2409 | 1997 |
| 65° | 2923 | 2157 | 1761 |
| 70° | 2752 | 1876 | 1496 |
| 75° | 2539 | 1556 | 1216 |
| 80° | 2213 | 1186 | 1116 |
| 85° | 1880 | 1074 | 1010 |



TEST NUMBER: P332888-927

CATALOG NUMBER: SA4XXRDIP-C350D1035U927-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.0 | 1.1 |
| 10°-20° | 128.3 | 3.2 |
| 20°-30° | 185.2 | 4.6 |
| 30°-40° | 210.0 | 5.2 |
| 40°-50° | 202.8 | 5.0 |
| 50°-60° | 168.6 | 4.2 |
| 60°-70° | 116.4 | 2.9 |
| 70°-80° | 59.0 | 1.5 |
| 80°-90° | 17.4 | 0.4 |
| 90°-100° | 290.8 | 7.2 |
| 100°-110° | 605.1 | 14.9 |
| 110°-120° | 542.0 | 13.3 |
| 120°-130° | 455.9 | 11.2 |
| 130°-140° | 380.1 | 9.4 |
| 140°-150° | 290.4 | 7.2 |
| 150°-160° | 204.1 | 5.0 |
| 160°-170° | 120.1 | 3.0 |
| 170°-180° | 39.1 | 1.0 |
| 0°-30° | 359.5 | 8.9 |
| 0°-40° | 569.5 | 14.0 |
| 0°-60° | 940.8 | 23.2 |
| 0°-90° | 1133.6 | 27.9 |
| 90°-120° | 1437.9 | 35.4 |
| 90°-150° | 2564.4 | 63.1 |
| 90°-180° | 2928.0 | 72.1 |
| 0°-180° | 4061.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 490 | 490 | 490 | 490 | 490 | |
| 5° | 489 | 487 | 483 | 486 | 486 | 46 |
| 15° | 466 | 462 | 453 | 452 | 450 | 131 |
| 25° | 421 | 414 | 399 | 393 | 389 | 194 |
| 35° | 364 | 352 | 333 | 321 | 314 | 227 |
| 45° | 297 | 283 | 261 | 243 | 236 | 229 |
| 55° | 225 | 209 | 186 | 167 | 159 | 201 |
| 65° | 153 | 136 | 113 | 97 | 92 | 151 |
| 75° | 81 | 67 | 50 | 42 | 39 | 86 |
| 85° | 20 | 13 | 12 | 11 | 11 | 23 |
| 90° | 1 | 6 | 14 | 16 | 17 | 2 |
| 95° | 26 | 82 | 644 | 319 | 193 | 29 |
| 105° | 92 | 134 | 519 | 1117 | 1113 | 99 |
| 115° | 163 | 204 | 463 | 889 | 1068 | 162 |
| 125° | 227 | 270 | 460 | 756 | 852 | 202 |
| 135° | 270 | 321 | 456 | 671 | 762 | 208 |
| 145° | 311 | 356 | 454 | 566 | 622 | 195 |
| 155° | 354 | 382 | 441 | 500 | 521 | 163 |
| 165° | 385 | 397 | 423 | 448 | 455 | 109 |
| 175° | 402 | 402 | 406 | 411 | 410 | 38 |
| 180° | 402 | 402 | 402 | 402 | 402 | |



TEST NUMBER: P332888-927

CATALOG NUMBER: SA4XXRDIP-C350D1035U927-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 |
| 2.5° | 490.9 | 490.6 | 490.4 | 490.1 | 489.8 | 489.3 | 488.6 | 487.9 | 487.1 | 486.4 | 487.1 |
| 5° | 488.9 | 488.6 | 488.3 | 488.0 | 487.6 | 487.0 | 485.9 | 485.0 | 483.9 | 483.0 | 483.8 |
| 7.5° | 484.5 | 484.2 | 483.9 | 483.5 | 483.2 | 482.3 | 481.0 | 479.7 | 478.4 | 477.1 | 477.6 |
| 10° | 480.3 | 479.9 | 479.5 | 479.1 | 478.6 | 477.7 | 476.2 | 474.7 | 473.2 | 471.7 | 472.1 |
| 12.5° | 474.9 | 474.4 | 474.0 | 473.5 | 473.0 | 471.9 | 470.1 | 468.3 | 466.6 | 464.8 | 465.0 |
| 15° | 465.7 | 464.9 | 464.2 | 463.4 | 462.7 | 461.3 | 459.2 | 457.1 | 455.0 | 453.0 | 452.8 |
| 17.5° | 454.6 | 453.4 | 452.3 | 451.3 | 450.2 | 448.4 | 445.9 | 443.4 | 440.9 | 438.4 | 437.9 |
| 20° | 445.8 | 444.7 | 443.7 | 442.6 | 441.5 | 439.6 | 436.7 | 433.9 | 431.0 | 428.2 | 427.5 |
| 22.5° | 436.3 | 435.0 | 433.8 | 432.6 | 431.3 | 429.2 | 426.2 | 423.2 | 420.2 | 417.1 | 416.1 |
| 25° | 421.1 | 419.6 | 418.1 | 416.6 | 415.1 | 412.6 | 409.2 | 405.8 | 402.3 | 398.9 | 397.5 |
| 27.5° | 405.2 | 403.3 | 401.4 | 399.6 | 397.7 | 394.9 | 391.3 | 387.6 | 384.0 | 380.3 | 378.5 |
| 30° | 394.1 | 392.0 | 389.9 | 387.9 | 385.8 | 382.8 | 378.8 | 374.9 | 371.0 | 367.1 | 365.0 |
| 32.5° | 382.4 | 380.0 | 377.7 | 375.3 | 373.0 | 369.8 | 365.8 | 361.7 | 357.7 | 353.6 | 351.2 |
| 35° | 364.1 | 361.4 | 358.8 | 356.1 | 353.4 | 350.0 | 345.9 | 341.7 | 337.5 | 333.4 | 330.5 |
| 37.5° | 344.5 | 341.7 | 339.1 | 336.3 | 333.5 | 329.9 | 325.2 | 320.6 | 316.0 | 311.4 | 308.2 |
| 40° | 330.7 | 328.0 | 325.2 | 322.5 | 319.7 | 316.0 | 311.2 | 306.5 | 301.7 | 297.0 | 293.5 |
| 42.5° | 317.5 | 314.7 | 311.7 | 308.9 | 306.0 | 302.1 | 297.1 | 292.2 | 287.2 | 282.3 | 278.7 |
| 45° | 297.0 | 293.9 | 290.8 | 287.7 | 284.6 | 280.6 | 275.6 | 270.6 | 265.6 | 260.6 | 256.5 |
| 47.5° | 275.8 | 272.6 | 269.4 | 266.2 | 263.0 | 258.8 | 253.7 | 248.4 | 243.2 | 238.1 | 233.8 |
| 50° | 261.3 | 258.1 | 254.8 | 251.6 | 248.3 | 244.1 | 238.8 | 233.4 | 228.1 | 222.8 | 218.6 |
| 52.5° | 246.7 | 243.4 | 240.3 | 237.1 | 233.9 | 229.6 | 224.1 | 218.6 | 213.2 | 207.7 | 203.5 |
| 55° | 225.0 | 221.7 | 218.3 | 215.0 | 211.7 | 207.2 | 201.8 | 196.5 | 191.0 | 185.6 | 181.3 |
| 57.5° | 203.5 | 200.0 | 196.6 | 193.1 | 189.6 | 185.3 | 179.9 | 174.6 | 169.3 | 163.9 | 159.5 |
| 60° | 188.2 | 184.9 | 181.6 | 178.2 | 174.9 | 170.6 | 165.2 | 159.9 | 154.6 | 149.2 | 144.9 |
| 62.5° | 174.4 | 171.0 | 167.5 | 164.1 | 160.6 | 156.1 | 150.7 | 145.2 | 139.7 | 134.3 | 130.2 |
| 65° | 153.0 | 149.4 | 145.8 | 142.3 | 138.6 | 134.2 | 128.9 | 123.5 | 118.2 | 112.9 | 109.3 |
| 67.5° | 130.7 | 127.3 | 123.8 | 120.4 | 117.0 | 112.8 | 107.8 | 102.9 | 97.9 | 93.0 | 89.9 |
| 70° | 116.6 | 113.1 | 109.6 | 106.2 | 102.6 | 98.5 | 93.7 | 89.0 | 84.2 | 79.5 | 76.8 |
| 72.5° | 101.6 | 98.5 | 95.3 | 92.1 | 89.0 | 85.2 | 80.6 | 76.1 | 71.7 | 67.2 | 64.9 |
| 75° | 81.4 | 78.3 | 75.2 | 72.1 | 69.0 | 65.5 | 61.6 | 57.7 | 53.8 | 49.9 | 47.9 |
| 77.5° | 60.8 | 58.2 | 55.6 | 53.0 | 50.4 | 47.5 | 44.3 | 41.1 | 37.9 | 34.8 | 33.7 |
| 80° | 47.6 | 45.2 | 42.8 | 40.4 | 37.9 | 35.5 | 33.0 | 30.5 | 28.0 | 25.5 | 25.3 |
| 82.5° | 36.2 | 34.0 | 31.8 | 29.5 | 27.3 | 25.5 | 24.1 | 22.7 | 21.2 | 19.8 | 19.6 |
| 85° | 20.3 | 18.6 | 17.0 | 15.2 | 13.5 | 12.6 | 12.4 | 12.1 | 11.9 | 11.6 | 11.5 |
| 87.5° | 7.1 | 6.8 | 6.8 | 6.4 | 6.0 | 5.7 | 6.6 | 6.6 | 6.8 | 7.1 | 6.8 |
| 90° | 0.8 | 2.4 | 4.8 | 5.5 | 6.3 | 6.3 | 11.1 | 11.1 | 12.7 | 14.3 | 13.5 |
| 92.5° | 9.0 | 13.2 | 20.6 | 30.2 | 41.7 | 58.2 | 98.4 | 159.8 | 219.5 | 250.9 | 209.0 |
| 95° | 26.1 | 28.4 | 36.4 | 46.7 | 65.7 | 98.9 | 167.6 | 297.4 | 486.4 | 644.5 | 662.7 |
| 97.5° | 46.8 | 46.8 | 53.6 | 63.1 | 79.4 | 107.3 | 160.3 | 267.3 | 455.2 | 678.8 | 832.6 |
| 100° | 60.1 | 60.1 | 65.7 | 75.1 | 90.2 | 115.5 | 162.2 | 251.5 | 412.8 | 635.8 | 838.3 |
| 102.5° | 72.7 | 74.0 | 78.9 | 87.8 | 102.2 | 126.2 | 168.4 | 247.1 | 384.4 | 582.1 | 790.8 |
| 105° | 92.5 | 94.9 | 98.9 | 108.4 | 122.6 | 145.5 | 183.5 | 249.1 | 359.8 | 518.8 | 704.6 |
| 107.5° | 114.4 | 116.0 | 119.9 | 130.0 | 143.6 | 166.2 | 201.1 | 260.8 | 355.4 | 483.4 | 635.0 |
| 110° | 128.9 | 130.5 | 134.4 | 143.9 | 158.2 | 179.5 | 214.3 | 269.7 | 356.6 | 471.3 | 600.2 |



TEST NUMBER: P332888-927

CATALOG NUMBER: SA4XXRDIP-C350D1035U927-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 142.8 | 144.4 | 149.0 | 157.9 | 172.1 | 193.5 | 227.0 | 279.2 | 360.4 | 465.6 | 580.7 |
| 115° | 163.0 | 165.2 | 170.8 | 178.7 | 193.8 | 215.1 | 246.8 | 294.2 | 367.7 | 462.6 | 562.3 |
| 117.5° | 183.8 | 186.0 | 190.9 | 199.6 | 213.7 | 235.8 | 265.9 | 309.5 | 375.5 | 461.8 | 554.1 |
| 120° | 197.7 | 199.3 | 204.9 | 213.5 | 227.0 | 249.1 | 279.2 | 320.3 | 381.2 | 461.8 | 549.6 |
| 122.5° | 210.4 | 211.9 | 217.5 | 225.5 | 240.3 | 261.7 | 291.8 | 330.4 | 386.9 | 461.2 | 544.5 |
| 125° | 227.0 | 230.1 | 234.9 | 243.6 | 258.6 | 280.7 | 309.2 | 345.6 | 395.5 | 460.3 | 536.2 |
| 127.5° | 241.7 | 244.2 | 249.9 | 259.8 | 275.5 | 297.9 | 325.3 | 358.7 | 402.2 | 458.5 | 525.0 |
| 130° | 249.9 | 253.1 | 259.4 | 271.2 | 286.3 | 309.2 | 336.1 | 366.9 | 407.3 | 457.9 | 518.0 |
| 132.5° | 258.1 | 260.6 | 268.9 | 280.1 | 296.4 | 318.1 | 345.0 | 375.2 | 411.7 | 457.2 | 511.7 |
| 135° | 269.7 | 272.8 | 280.7 | 294.2 | 310.8 | 331.4 | 357.4 | 386.0 | 418.4 | 456.3 | 502.2 |
| 137.5° | 281.2 | 284.2 | 292.9 | 305.7 | 323.0 | 342.6 | 366.9 | 393.6 | 422.3 | 456.1 | 493.9 |
| 140° | 289.5 | 291.8 | 300.6 | 313.9 | 330.6 | 349.6 | 373.3 | 398.5 | 425.5 | 455.5 | 489.6 |
| 142.5° | 298.3 | 300.7 | 308.7 | 321.5 | 337.5 | 355.8 | 379.0 | 402.3 | 428.0 | 455.5 | 485.8 |
| 145° | 310.8 | 313.1 | 321.1 | 332.2 | 347.2 | 364.6 | 385.2 | 406.5 | 429.4 | 453.9 | 479.3 |
| 147.5° | 324.9 | 325.7 | 332.6 | 344.0 | 356.5 | 372.2 | 391.5 | 410.1 | 430.2 | 451.1 | 473.4 |
| 150° | 333.7 | 334.5 | 340.9 | 350.4 | 362.2 | 377.2 | 394.7 | 412.0 | 430.2 | 449.2 | 469.0 |
| 152.5° | 342.0 | 342.1 | 348.5 | 357.3 | 367.9 | 381.7 | 397.2 | 413.3 | 429.0 | 446.0 | 463.9 |
| 155° | 353.5 | 354.3 | 359.0 | 366.9 | 375.7 | 387.5 | 400.9 | 414.4 | 427.1 | 441.3 | 456.3 |
| 157.5° | 364.7 | 364.7 | 369.2 | 375.3 | 382.9 | 392.3 | 403.6 | 414.4 | 425.0 | 436.4 | 448.5 |
| 160° | 371.7 | 371.7 | 374.9 | 380.4 | 386.7 | 395.5 | 404.9 | 414.4 | 423.1 | 432.6 | 442.9 |
| 162.5° | 378.0 | 377.4 | 379.9 | 384.8 | 390.5 | 397.4 | 406.2 | 414.4 | 421.2 | 428.8 | 437.8 |
| 165° | 385.2 | 385.2 | 386.7 | 390.7 | 394.7 | 399.3 | 406.5 | 412.8 | 417.6 | 423.1 | 429.4 |
| 167.5° | 392.3 | 391.5 | 392.3 | 395.3 | 397.5 | 401.1 | 406.3 | 410.9 | 413.8 | 417.4 | 421.8 |
| 170° | 395.5 | 394.7 | 395.5 | 397.8 | 399.3 | 401.7 | 405.7 | 409.6 | 411.2 | 413.6 | 416.8 |
| 172.5° | 398.5 | 397.8 | 397.9 | 399.7 | 400.6 | 402.3 | 405.0 | 408.4 | 408.7 | 409.8 | 412.3 |
| 175° | 401.7 | 400.9 | 400.9 | 401.7 | 402.5 | 402.5 | 404.1 | 406.5 | 405.7 | 405.7 | 407.3 |
| 177.5° | 403.1 | 402.5 | 401.9 | 402.5 | 402.5 | 402.5 | 403.1 | 404.4 | 403.1 | 403.1 | 403.8 |
| 180° | 402.5 | 402.5 | 402.5 | 402.5 | 402.5 | 402.5 | 402.5 | 402.5 | 402.5 | 402.5 | 402.5 |



TEST NUMBER: P332888-927

CATALOG NUMBER: SA4XXRDIP-C350D1035U927-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 |
| 2.5° | 487.9 | 488.6 | 489.3 | 489.6 | 489.6 | 489.6 | 489.5 | 489.4 |
| 5° | 484.7 | 485.4 | 486.3 | 486.6 | 486.5 | 486.3 | 486.1 | 485.9 |
| 7.5° | 478.2 | 478.7 | 479.3 | 479.3 | 479.1 | 478.9 | 478.6 | 478.3 |
| 10° | 472.4 | 472.7 | 473.0 | 473.0 | 472.7 | 472.4 | 472.1 | 471.7 |
| 12.5° | 465.2 | 465.4 | 465.6 | 465.5 | 465.0 | 464.5 | 464.1 | 463.6 |
| 15° | 452.7 | 452.5 | 452.3 | 451.9 | 451.3 | 450.8 | 450.2 | 449.6 |
| 17.5° | 437.4 | 437.0 | 436.6 | 435.9 | 435.0 | 434.1 | 433.2 | 432.4 |
| 20° | 426.9 | 426.2 | 425.6 | 424.7 | 423.6 | 422.5 | 421.4 | 420.3 |
| 22.5° | 415.1 | 414.1 | 413.1 | 412.2 | 411.3 | 410.4 | 409.6 | 408.6 |
| 25° | 396.1 | 394.7 | 393.3 | 392.2 | 391.3 | 390.5 | 389.7 | 388.8 |
| 27.5° | 376.8 | 375.0 | 373.3 | 371.9 | 370.6 | 369.4 | 368.2 | 367.0 |
| 30° | 362.9 | 360.8 | 358.8 | 357.0 | 355.7 | 354.4 | 353.1 | 351.7 |
| 32.5° | 348.8 | 346.3 | 344.0 | 342.1 | 340.8 | 339.5 | 338.3 | 337.0 |
| 35° | 327.6 | 324.9 | 322.0 | 319.9 | 318.4 | 316.9 | 315.4 | 313.9 |
| 37.5° | 305.1 | 301.9 | 298.7 | 296.4 | 294.9 | 293.3 | 291.8 | 290.3 |
| 40° | 289.9 | 286.5 | 283.0 | 280.5 | 279.0 | 277.5 | 276.0 | 274.5 |
| 42.5° | 275.1 | 271.6 | 268.0 | 265.5 | 263.9 | 262.3 | 260.7 | 259.2 |
| 45° | 252.5 | 248.3 | 244.2 | 241.5 | 240.0 | 238.4 | 236.9 | 235.5 |
| 47.5° | 229.6 | 225.3 | 221.1 | 218.2 | 216.5 | 214.8 | 213.2 | 211.6 |
| 50° | 214.4 | 210.2 | 206.0 | 203.2 | 201.6 | 200.0 | 198.4 | 196.9 |
| 52.5° | 199.2 | 195.0 | 190.8 | 187.8 | 186.2 | 184.6 | 182.9 | 181.3 |
| 55° | 177.0 | 172.6 | 168.3 | 165.3 | 163.7 | 162.2 | 160.6 | 159.0 |
| 57.5° | 155.1 | 150.8 | 146.3 | 143.5 | 142.4 | 141.2 | 139.9 | 138.7 |
| 60° | 140.5 | 136.3 | 131.9 | 129.0 | 127.7 | 126.4 | 125.1 | 123.7 |
| 62.5° | 126.3 | 122.2 | 118.3 | 115.7 | 114.6 | 113.6 | 112.5 | 111.5 |
| 65° | 105.7 | 102.1 | 98.5 | 96.3 | 95.2 | 94.3 | 93.2 | 92.2 |
| 67.5° | 86.8 | 83.7 | 80.6 | 78.6 | 77.5 | 76.4 | 75.3 | 74.1 |
| 70° | 74.0 | 71.2 | 68.5 | 66.7 | 65.8 | 65.0 | 64.2 | 63.4 |
| 72.5° | 62.5 | 60.1 | 57.8 | 56.2 | 55.5 | 54.7 | 53.9 | 53.2 |
| 75° | 46.0 | 44.1 | 42.2 | 41.0 | 40.5 | 40.0 | 39.5 | 39.0 |
| 77.5° | 32.6 | 31.4 | 30.3 | 29.7 | 29.5 | 29.4 | 29.2 | 29.1 |
| 80° | 25.0 | 24.7 | 24.5 | 24.3 | 24.2 | 24.2 | 24.1 | 24.0 |
| 82.5° | 19.4 | 19.3 | 19.1 | 18.9 | 18.9 | 18.8 | 18.7 | 18.6 |
| 85° | 11.3 | 11.1 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| 87.5° | 6.9 | 7.0 | 7.1 | 7.1 | 7.3 | 7.5 | 7.4 | 7.5 |
| 90° | 14.3 | 15.1 | 15.8 | 15.8 | 16.6 | 17.4 | 16.6 | 16.6 |
| 92.5° | 155.3 | 116.9 | 93.0 | 77.2 | 67.9 | 63.6 | 60.9 | 60.9 |
| 95° | 586.0 | 463.4 | 357.4 | 280.7 | 242.0 | 217.5 | 203.3 | 193.0 |
| 97.5° | 865.9 | 820.2 | 742.9 | 660.4 | 603.6 | 556.0 | 532.3 | 515.8 |
| 100° | 953.8 | 969.6 | 930.8 | 872.3 | 803.5 | 755.3 | 731.5 | 725.2 |
| 102.5° | 949.4 | 1027.8 | 1039.0 | 1014.6 | 972.4 | 937.5 | 912.5 | 907.4 |
| 105° | 885.7 | 1022.5 | 1100.8 | 1133.3 | 1134.9 | 1128.5 | 1117.5 | 1112.7 |
| 107.5° | 795.4 | 941.1 | 1051.4 | 1121.9 | 1160.9 | 1179.0 | 1186.9 | 1189.0 |
| 110° | 741.0 | 877.8 | 992.5 | 1079.5 | 1135.7 | 1168.9 | 1183.1 | 1190.3 |



TEST NUMBER: P332888-927

CATALOG NUMBER: SA4XXRDIP-C350D1035U927-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 112.5° | 701.2 | 822.1 | 930.5 | 1017.5 | 1081.2 | 1121.4 | 1141.4 | 1152.9 |
| 115° | 661.2 | 758.4 | 851.0 | 926.9 | 989.4 | 1036.8 | 1062.1 | 1068.4 |
| 117.5° | 641.5 | 722.1 | 794.8 | 859.2 | 912.5 | 952.4 | 977.9 | 982.9 |
| 120° | 632.6 | 706.2 | 769.5 | 825.6 | 870.7 | 905.5 | 926.1 | 934.8 |
| 122.5° | 625.1 | 696.1 | 753.7 | 802.9 | 841.0 | 870.7 | 888.1 | 896.8 |
| 125° | 612.1 | 680.1 | 734.7 | 778.2 | 809.8 | 832.7 | 847.8 | 852.5 |
| 127.5° | 596.3 | 661.3 | 715.7 | 757.0 | 788.8 | 809.2 | 821.8 | 826.6 |
| 130° | 583.7 | 646.1 | 699.9 | 741.8 | 774.2 | 794.0 | 806.7 | 811.4 |
| 132.5° | 570.4 | 629.1 | 681.5 | 723.5 | 755.3 | 777.5 | 789.6 | 794.3 |
| 135° | 552.0 | 603.4 | 651.6 | 691.2 | 722.9 | 745.0 | 757.6 | 762.4 |
| 137.5° | 535.4 | 578.9 | 619.6 | 655.3 | 684.8 | 706.7 | 717.2 | 722.9 |
| 140° | 525.9 | 563.1 | 598.7 | 631.8 | 659.6 | 677.0 | 688.0 | 694.3 |
| 142.5° | 517.1 | 549.8 | 580.4 | 609.1 | 633.6 | 649.7 | 659.6 | 664.0 |
| 145° | 504.5 | 531.5 | 555.2 | 577.3 | 597.1 | 610.5 | 618.5 | 622.4 |
| 147.5° | 494.2 | 515.6 | 534.6 | 552.0 | 566.6 | 578.1 | 584.2 | 585.5 |
| 150° | 488.0 | 506.1 | 522.0 | 536.2 | 548.8 | 559.1 | 563.9 | 564.7 |
| 152.5° | 481.0 | 496.6 | 511.2 | 522.9 | 533.7 | 542.0 | 544.9 | 545.7 |
| 155° | 470.6 | 483.2 | 495.0 | 504.5 | 512.5 | 518.8 | 521.2 | 521.2 |
| 157.5° | 459.3 | 469.9 | 479.9 | 487.5 | 493.5 | 498.2 | 499.6 | 499.6 |
| 160° | 452.3 | 461.1 | 469.8 | 476.1 | 480.9 | 485.6 | 486.4 | 486.4 |
| 162.5° | 445.4 | 452.8 | 459.6 | 465.3 | 468.8 | 473.6 | 474.4 | 473.7 |
| 165° | 435.8 | 440.5 | 446.0 | 450.0 | 453.1 | 456.3 | 455.5 | 454.7 |
| 167.5° | 426.4 | 430.1 | 434.5 | 436.9 | 438.5 | 440.5 | 440.4 | 439.7 |
| 170° | 420.7 | 423.1 | 426.3 | 428.6 | 430.2 | 431.0 | 430.2 | 430.2 |
| 172.5° | 415.7 | 417.4 | 419.3 | 421.0 | 422.0 | 422.8 | 422.0 | 420.7 |
| 175° | 408.8 | 409.6 | 411.2 | 411.2 | 411.2 | 412.8 | 411.2 | 409.6 |
| 177.5° | 404.4 | 405.0 | 405.0 | 405.7 | 405.0 | 405.7 | 404.4 | 403.1 |
| 180° | 402.5 | 402.5 | 402.5 | 402.5 | 402.5 | 402.5 | 402.5 | 402.5 |

(END OF REPORT)