

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: P332888-935

Luminaire Tested: **SA4XXRDIP-C350D1035U935-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332888-935
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-C350D1035U935-4F0-1E-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

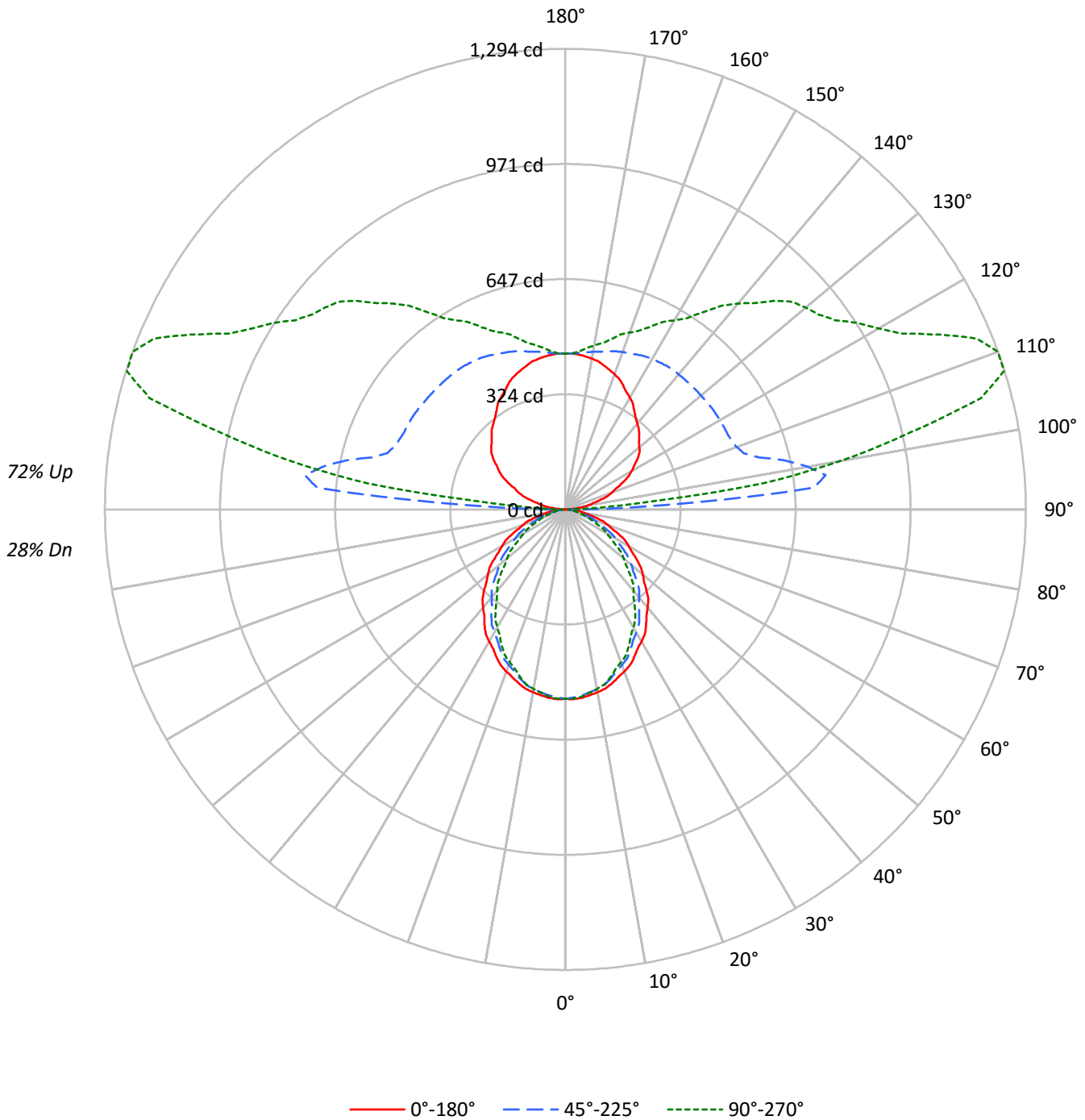
Lumens per Lamp: N/A
Luminaire Lumens: 4414.1 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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: P332888-935
CATALOG NUMBER: SA4XXRDIP-C350D1035U935-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P332888-935

CATALOG NUMBER: SA4XXRDIP-C350D1035U935-4F0-1E-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° | 4297 | 4297 | 4297 |
| 5° | 4306 | 4254 | 4280 |
| 10° | 4279 | 4203 | 4203 |
| 15° | 4231 | 4115 | 4084 |
| 20° | 4163 | 3998 | 3924 |
| 25° | 4077 | 3862 | 3764 |
| 30° | 3993 | 3719 | 3564 |
| 35° | 3900 | 3571 | 3362 |
| 40° | 3789 | 3402 | 3144 |
| 45° | 3685 | 3234 | 2923 |
| 50° | 3567 | 3041 | 2688 |
| 55° | 3441 | 2839 | 2432 |
| 60° | 3303 | 2619 | 2172 |
| 65° | 3177 | 2344 | 1914 |
| 70° | 2991 | 2039 | 1626 |
| 75° | 2757 | 1691 | 1323 |
| 80° | 2404 | 1288 | 1213 |
| 85° | 2038 | 1176 | 1093 |



TEST NUMBER: P332888-935

CATALOG NUMBER: SA4XXRDIP-C350D1035U935-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.0 | 1.1 |
| 10°-20° | 139.4 | 3.2 |
| 20°-30° | 201.3 | 4.6 |
| 30°-40° | 228.2 | 5.2 |
| 40°-50° | 220.4 | 5.0 |
| 50°-60° | 183.2 | 4.2 |
| 60°-70° | 126.5 | 2.9 |
| 70°-80° | 64.1 | 1.5 |
| 80°-90° | 18.9 | 0.4 |
| 90°-100° | 316.0 | 7.2 |
| 100°-110° | 657.7 | 14.9 |
| 110°-120° | 589.1 | 13.3 |
| 120°-130° | 495.5 | 11.2 |
| 130°-140° | 413.2 | 9.4 |
| 140°-150° | 315.7 | 7.2 |
| 150°-160° | 221.9 | 5.0 |
| 160°-170° | 130.5 | 3.0 |
| 170°-180° | 42.5 | 1.0 |
| 0°-30° | 390.7 | 8.9 |
| 0°-40° | 619.0 | 14.0 |
| 0°-60° | 1022.6 | 23.2 |
| 0°-90° | 1232.1 | 27.9 |
| 90°-120° | 1562.8 | 35.4 |
| 90°-150° | 2787.1 | 63.1 |
| 90°-180° | 3182.0 | 72.1 |
| 0°-180° | 4414.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 532 | 532 | 532 | 532 | 532 | |
| 5° | 531 | 530 | 525 | 529 | 528 | 50 |
| 15° | 506 | 502 | 492 | 491 | 489 | 143 |
| 25° | 458 | 450 | 434 | 427 | 423 | 211 |
| 35° | 396 | 382 | 362 | 349 | 341 | 247 |
| 45° | 323 | 307 | 283 | 264 | 256 | 249 |
| 55° | 244 | 228 | 202 | 181 | 173 | 219 |
| 65° | 166 | 148 | 123 | 106 | 100 | 164 |
| 75° | 88 | 73 | 54 | 45 | 42 | 93 |
| 85° | 22 | 14 | 13 | 12 | 12 | 25 |
| 90° | 1 | 7 | 16 | 17 | 18 | 3 |
| 95° | 28 | 89 | 700 | 347 | 210 | 32 |
| 105° | 101 | 146 | 564 | 1214 | 1209 | 107 |
| 115° | 177 | 222 | 503 | 966 | 1161 | 176 |
| 125° | 247 | 293 | 500 | 822 | 927 | 220 |
| 135° | 293 | 349 | 496 | 730 | 829 | 227 |
| 145° | 338 | 387 | 493 | 615 | 676 | 212 |
| 155° | 384 | 415 | 480 | 543 | 566 | 177 |
| 165° | 419 | 432 | 460 | 487 | 494 | 118 |
| 175° | 437 | 438 | 441 | 447 | 445 | 41 |
| 180° | 438 | 438 | 438 | 438 | 438 | |



TEST NUMBER: P332888-935

CATALOG NUMBER: SA4XXRDIP-C350D1035U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 532.3 | 532.3 | 532.3 | 532.3 | 532.3 | 532.3 | 532.3 | 532.3 | 532.3 | 532.3 | 532.3 |
| 2.5° | 533.6 | 533.2 | 533.0 | 532.7 | 532.4 | 531.8 | 531.1 | 530.3 | 529.4 | 528.7 | 529.4 |
| 5° | 531.4 | 531.1 | 530.7 | 530.4 | 529.9 | 529.3 | 528.1 | 527.1 | 526.0 | 525.0 | 525.8 |
| 7.5° | 526.6 | 526.2 | 525.9 | 525.5 | 525.1 | 524.2 | 522.8 | 521.3 | 520.0 | 518.6 | 519.1 |
| 10° | 522.0 | 521.6 | 521.2 | 520.7 | 520.2 | 519.2 | 517.5 | 515.9 | 514.3 | 512.7 | 513.1 |
| 12.5° | 516.2 | 515.7 | 515.1 | 514.6 | 514.1 | 512.9 | 510.9 | 509.0 | 507.1 | 505.1 | 505.4 |
| 15° | 506.2 | 505.3 | 504.5 | 503.7 | 502.9 | 501.4 | 499.1 | 496.8 | 494.6 | 492.3 | 492.1 |
| 17.5° | 494.0 | 492.8 | 491.6 | 490.5 | 489.3 | 487.3 | 484.7 | 481.9 | 479.2 | 476.5 | 476.0 |
| 20° | 484.6 | 483.4 | 482.2 | 481.0 | 479.8 | 477.8 | 474.7 | 471.6 | 468.5 | 465.4 | 464.7 |
| 22.5° | 474.2 | 472.8 | 471.5 | 470.2 | 468.8 | 466.5 | 463.2 | 459.9 | 456.7 | 453.3 | 452.3 |
| 25° | 457.7 | 456.1 | 454.4 | 452.8 | 451.2 | 448.5 | 444.8 | 441.1 | 437.3 | 433.6 | 432.0 |
| 27.5° | 440.4 | 438.3 | 436.3 | 434.3 | 432.2 | 429.2 | 425.2 | 421.3 | 417.3 | 413.4 | 411.4 |
| 30° | 428.3 | 426.0 | 423.8 | 421.5 | 419.3 | 416.0 | 411.7 | 407.5 | 403.2 | 399.0 | 396.7 |
| 32.5° | 415.6 | 413.0 | 410.5 | 407.9 | 405.4 | 401.9 | 397.5 | 393.1 | 388.7 | 384.4 | 381.7 |
| 35° | 395.7 | 392.8 | 389.9 | 387.0 | 384.1 | 380.4 | 375.9 | 371.3 | 366.9 | 362.3 | 359.2 |
| 37.5° | 374.4 | 371.4 | 368.5 | 365.5 | 362.5 | 358.5 | 353.4 | 348.4 | 343.5 | 338.5 | 335.0 |
| 40° | 359.5 | 356.5 | 353.4 | 350.5 | 347.5 | 343.5 | 338.3 | 333.1 | 328.0 | 322.8 | 319.0 |
| 42.5° | 345.1 | 342.0 | 338.8 | 335.7 | 332.6 | 328.3 | 323.0 | 317.5 | 312.2 | 306.8 | 302.9 |
| 45° | 322.8 | 319.4 | 316.1 | 312.7 | 309.4 | 305.0 | 299.5 | 294.1 | 288.7 | 283.3 | 278.8 |
| 47.5° | 299.7 | 296.3 | 292.8 | 289.3 | 285.9 | 281.3 | 275.7 | 270.0 | 264.3 | 258.7 | 254.1 |
| 50° | 284.0 | 280.5 | 277.0 | 273.5 | 269.9 | 265.3 | 259.5 | 253.7 | 247.9 | 242.1 | 237.5 |
| 52.5° | 268.1 | 264.6 | 261.1 | 257.7 | 254.3 | 249.5 | 243.6 | 237.6 | 231.7 | 225.8 | 221.2 |
| 55° | 244.5 | 240.9 | 237.3 | 233.7 | 230.1 | 225.2 | 219.4 | 213.5 | 207.6 | 201.7 | 197.0 |
| 57.5° | 221.2 | 217.4 | 213.7 | 209.9 | 206.1 | 201.4 | 195.5 | 189.8 | 184.0 | 178.1 | 173.4 |
| 60° | 204.6 | 201.0 | 197.3 | 193.7 | 190.1 | 185.4 | 179.6 | 173.7 | 168.0 | 162.2 | 157.5 |
| 62.5° | 189.6 | 185.8 | 182.0 | 178.3 | 174.5 | 169.7 | 163.8 | 157.8 | 151.9 | 145.9 | 141.5 |
| 65° | 166.3 | 162.4 | 158.5 | 154.6 | 150.7 | 145.9 | 140.1 | 134.2 | 128.5 | 122.7 | 118.8 |
| 67.5° | 142.1 | 138.4 | 134.6 | 130.9 | 127.2 | 122.6 | 117.2 | 111.8 | 106.4 | 101.1 | 97.7 |
| 70° | 126.7 | 123.0 | 119.2 | 115.4 | 111.5 | 107.0 | 101.9 | 96.7 | 91.5 | 86.4 | 83.4 |
| 72.5° | 110.5 | 107.0 | 103.6 | 100.1 | 96.7 | 92.6 | 87.6 | 82.7 | 77.9 | 73.0 | 70.5 |
| 75° | 88.4 | 85.1 | 81.7 | 78.4 | 75.0 | 71.2 | 67.0 | 62.7 | 58.5 | 54.2 | 52.1 |
| 77.5° | 66.1 | 63.3 | 60.4 | 57.6 | 54.8 | 51.6 | 48.1 | 44.7 | 41.2 | 37.8 | 36.6 |
| 80° | 51.7 | 49.2 | 46.5 | 43.9 | 41.2 | 38.6 | 35.9 | 33.1 | 30.4 | 27.7 | 27.5 |
| 82.5° | 39.3 | 36.9 | 34.5 | 32.1 | 29.7 | 27.7 | 26.2 | 24.6 | 23.1 | 21.5 | 21.4 |
| 85° | 22.0 | 20.2 | 18.4 | 16.5 | 14.7 | 13.7 | 13.4 | 13.2 | 12.9 | 12.7 | 12.5 |
| 87.5° | 7.7 | 7.4 | 7.4 | 7.0 | 6.5 | 6.2 | 7.1 | 7.1 | 7.4 | 7.7 | 7.4 |
| 90° | 0.9 | 2.6 | 5.2 | 6.0 | 6.9 | 6.9 | 12.1 | 12.1 | 13.8 | 15.5 | 14.6 |
| 92.5° | 9.8 | 14.3 | 22.4 | 32.8 | 45.4 | 63.3 | 106.9 | 173.7 | 238.6 | 272.7 | 227.1 |
| 95° | 28.3 | 30.9 | 39.5 | 50.7 | 71.4 | 107.5 | 182.2 | 323.2 | 528.7 | 700.5 | 720.3 |
| 97.5° | 50.9 | 50.9 | 58.3 | 68.6 | 86.3 | 116.6 | 174.2 | 290.5 | 494.7 | 737.8 | 904.9 |
| 100° | 65.3 | 65.3 | 71.4 | 81.6 | 98.0 | 125.5 | 176.2 | 273.4 | 448.7 | 691.0 | 911.1 |
| 102.5° | 79.0 | 80.4 | 85.8 | 95.4 | 111.1 | 137.2 | 183.0 | 268.5 | 417.8 | 632.7 | 859.5 |
| 105° | 100.6 | 103.1 | 107.5 | 117.8 | 133.2 | 158.2 | 199.4 | 270.8 | 391.1 | 563.9 | 765.9 |
| 107.5° | 124.3 | 126.1 | 130.3 | 141.3 | 156.1 | 180.6 | 218.5 | 283.4 | 386.2 | 525.4 | 690.2 |
| 110° | 140.1 | 141.8 | 146.1 | 156.4 | 171.9 | 195.1 | 232.9 | 293.1 | 387.6 | 512.3 | 652.4 |



TEST NUMBER: P332888-935

CATALOG NUMBER: SA4XXRDIP-C350D1035U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 155.2 | 157.0 | 162.0 | 171.6 | 187.0 | 210.3 | 246.7 | 303.4 | 391.8 | 506.1 | 631.1 |
| 115° | 177.1 | 179.6 | 185.6 | 194.2 | 210.6 | 233.8 | 268.2 | 319.8 | 399.7 | 502.8 | 611.1 |
| 117.5° | 199.8 | 202.2 | 207.5 | 217.0 | 232.2 | 256.3 | 289.0 | 336.4 | 408.1 | 502.0 | 602.2 |
| 120° | 214.9 | 216.6 | 222.7 | 232.0 | 246.7 | 270.8 | 303.4 | 348.1 | 414.3 | 502.0 | 597.4 |
| 122.5° | 228.7 | 230.3 | 236.3 | 245.1 | 261.1 | 284.5 | 317.2 | 359.1 | 420.5 | 501.3 | 591.9 |
| 125° | 246.7 | 250.1 | 255.3 | 264.8 | 281.0 | 305.1 | 336.0 | 375.7 | 429.8 | 500.2 | 582.8 |
| 127.5° | 262.7 | 265.4 | 271.6 | 282.4 | 299.5 | 323.7 | 353.6 | 389.9 | 437.1 | 498.3 | 570.6 |
| 130° | 271.6 | 275.1 | 281.9 | 294.8 | 311.2 | 336.0 | 365.3 | 398.8 | 442.6 | 497.7 | 563.0 |
| 132.5° | 280.5 | 283.3 | 292.2 | 304.4 | 322.2 | 345.7 | 375.0 | 407.8 | 447.5 | 497.0 | 556.1 |
| 135° | 293.1 | 296.5 | 305.1 | 319.8 | 337.8 | 360.2 | 388.5 | 419.5 | 454.7 | 495.9 | 545.8 |
| 137.5° | 305.7 | 308.9 | 318.4 | 332.3 | 351.0 | 372.4 | 398.8 | 427.7 | 459.0 | 495.8 | 536.8 |
| 140° | 314.6 | 317.2 | 326.7 | 341.2 | 359.3 | 380.0 | 405.7 | 433.2 | 462.4 | 495.1 | 532.1 |
| 142.5° | 324.3 | 326.8 | 335.5 | 349.5 | 366.9 | 386.8 | 411.9 | 437.3 | 465.2 | 495.1 | 528.0 |
| 145° | 337.8 | 340.4 | 349.0 | 361.0 | 377.4 | 396.2 | 418.6 | 441.8 | 466.7 | 493.4 | 520.9 |
| 147.5° | 353.1 | 354.0 | 361.5 | 373.9 | 387.4 | 404.5 | 425.5 | 445.7 | 467.6 | 490.3 | 514.5 |
| 150° | 362.7 | 363.6 | 370.5 | 380.8 | 393.6 | 410.0 | 429.0 | 447.8 | 467.6 | 488.2 | 509.7 |
| 152.5° | 371.7 | 371.9 | 378.8 | 388.3 | 399.8 | 414.8 | 431.7 | 449.2 | 466.2 | 484.7 | 504.2 |
| 155° | 384.2 | 385.0 | 390.2 | 398.8 | 408.3 | 421.2 | 435.8 | 450.4 | 464.2 | 479.7 | 495.9 |
| 157.5° | 396.4 | 396.4 | 401.2 | 407.9 | 416.2 | 426.4 | 438.7 | 450.4 | 461.9 | 474.3 | 487.5 |
| 160° | 404.0 | 404.0 | 407.4 | 413.5 | 420.3 | 429.8 | 440.1 | 450.4 | 459.9 | 470.2 | 481.4 |
| 162.5° | 410.9 | 410.2 | 412.9 | 418.3 | 424.5 | 431.9 | 441.4 | 450.4 | 457.8 | 466.1 | 475.9 |
| 165° | 418.6 | 418.6 | 420.3 | 424.6 | 429.0 | 434.0 | 441.8 | 448.7 | 453.8 | 459.9 | 466.7 |
| 167.5° | 426.4 | 425.5 | 426.4 | 429.6 | 432.0 | 435.9 | 441.6 | 446.6 | 449.7 | 453.7 | 458.5 |
| 170° | 429.8 | 429.0 | 429.8 | 432.4 | 434.0 | 436.6 | 440.9 | 445.2 | 446.9 | 449.5 | 453.0 |
| 172.5° | 433.2 | 432.4 | 432.5 | 434.4 | 435.4 | 437.3 | 440.2 | 443.8 | 444.2 | 445.4 | 448.2 |
| 175° | 436.6 | 435.8 | 435.8 | 436.6 | 437.5 | 437.5 | 439.2 | 441.8 | 440.9 | 440.9 | 442.6 |
| 177.5° | 438.2 | 437.5 | 436.8 | 437.5 | 437.5 | 437.5 | 438.2 | 439.5 | 438.2 | 438.2 | 438.9 |
| 180° | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 |



TEST NUMBER: P332888-935

CATALOG NUMBER: SA4XXRDIP-C350D1035U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 532.3 | 532.3 | 532.3 | 532.3 | 532.3 | 532.3 | 532.3 | 532.3 |
| 2.5° | 530.3 | 531.1 | 531.8 | 532.2 | 532.1 | 532.1 | 532.0 | 531.9 |
| 5° | 526.8 | 527.6 | 528.6 | 528.9 | 528.7 | 528.6 | 528.3 | 528.1 |
| 7.5° | 519.7 | 520.3 | 520.9 | 521.0 | 520.7 | 520.5 | 520.1 | 519.9 |
| 10° | 513.4 | 513.8 | 514.1 | 514.1 | 513.8 | 513.4 | 513.1 | 512.7 |
| 12.5° | 505.6 | 505.8 | 506.1 | 505.9 | 505.4 | 504.9 | 504.4 | 503.9 |
| 15° | 492.0 | 491.8 | 491.5 | 491.2 | 490.5 | 489.9 | 489.3 | 488.6 |
| 17.5° | 475.4 | 475.0 | 474.5 | 473.7 | 472.8 | 471.8 | 470.9 | 469.9 |
| 20° | 464.0 | 463.2 | 462.5 | 461.6 | 460.4 | 459.2 | 458.1 | 456.8 |
| 22.5° | 451.2 | 450.0 | 449.0 | 448.0 | 447.0 | 446.1 | 445.1 | 444.1 |
| 25° | 430.5 | 429.0 | 427.5 | 426.3 | 425.3 | 424.4 | 423.5 | 422.6 |
| 27.5° | 409.5 | 407.6 | 405.7 | 404.2 | 402.8 | 401.5 | 400.2 | 398.9 |
| 30° | 394.4 | 392.2 | 389.9 | 388.1 | 386.6 | 385.2 | 383.7 | 382.3 |
| 32.5° | 379.1 | 376.4 | 373.8 | 371.8 | 370.4 | 369.0 | 367.6 | 366.3 |
| 35° | 356.1 | 353.1 | 350.0 | 347.7 | 346.0 | 344.4 | 342.8 | 341.1 |
| 37.5° | 331.6 | 328.1 | 324.7 | 322.1 | 320.5 | 318.8 | 317.2 | 315.6 |
| 40° | 315.1 | 311.3 | 307.5 | 304.9 | 303.2 | 301.6 | 300.0 | 298.3 |
| 42.5° | 299.0 | 295.2 | 291.3 | 288.5 | 286.8 | 285.1 | 283.4 | 281.7 |
| 45° | 274.4 | 269.9 | 265.4 | 262.4 | 260.8 | 259.2 | 257.5 | 256.0 |
| 47.5° | 249.5 | 244.9 | 240.3 | 237.1 | 235.3 | 233.5 | 231.7 | 230.0 |
| 50° | 233.0 | 228.5 | 223.9 | 220.8 | 219.1 | 217.4 | 215.7 | 214.0 |
| 52.5° | 216.5 | 212.0 | 207.4 | 204.1 | 202.4 | 200.6 | 198.8 | 197.0 |
| 55° | 192.3 | 187.6 | 182.9 | 179.7 | 178.0 | 176.2 | 174.5 | 172.8 |
| 57.5° | 168.6 | 163.8 | 159.0 | 156.0 | 154.7 | 153.4 | 152.1 | 150.8 |
| 60° | 152.7 | 148.1 | 143.4 | 140.3 | 138.8 | 137.4 | 136.0 | 134.5 |
| 62.5° | 137.2 | 132.9 | 128.5 | 125.8 | 124.6 | 123.5 | 122.3 | 121.1 |
| 65° | 114.9 | 111.0 | 107.1 | 104.6 | 103.5 | 102.5 | 101.3 | 100.2 |
| 67.5° | 94.4 | 91.0 | 87.6 | 85.4 | 84.2 | 83.0 | 81.8 | 80.6 |
| 70° | 80.4 | 77.4 | 74.5 | 72.5 | 71.5 | 70.7 | 69.7 | 68.9 |
| 72.5° | 67.9 | 65.3 | 62.9 | 61.1 | 60.3 | 59.5 | 58.6 | 57.8 |
| 75° | 50.0 | 48.0 | 45.9 | 44.6 | 44.0 | 43.5 | 43.0 | 42.4 |
| 77.5° | 35.4 | 34.2 | 33.0 | 32.3 | 32.1 | 31.9 | 31.8 | 31.6 |
| 80° | 27.2 | 26.9 | 26.6 | 26.4 | 26.3 | 26.3 | 26.2 | 26.1 |
| 82.5° | 21.1 | 20.9 | 20.8 | 20.6 | 20.5 | 20.4 | 20.3 | 20.2 |
| 85° | 12.3 | 12.1 | 11.9 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| 87.5° | 7.5 | 7.6 | 7.7 | 7.7 | 7.9 | 8.2 | 8.1 | 8.2 |
| 90° | 15.5 | 16.4 | 17.2 | 17.2 | 18.1 | 18.9 | 18.1 | 18.1 |
| 92.5° | 168.8 | 127.1 | 101.1 | 83.9 | 73.8 | 69.1 | 66.2 | 66.2 |
| 95° | 636.9 | 503.7 | 388.5 | 305.1 | 263.0 | 236.3 | 220.9 | 209.7 |
| 97.5° | 941.1 | 891.5 | 807.4 | 717.7 | 656.0 | 604.2 | 578.5 | 560.6 |
| 100° | 1036.6 | 1053.8 | 1011.7 | 948.0 | 873.3 | 820.9 | 795.0 | 788.2 |
| 102.5° | 1031.8 | 1117.1 | 1129.3 | 1102.8 | 1056.9 | 1018.9 | 991.8 | 986.3 |
| 105° | 962.7 | 1111.4 | 1196.4 | 1231.7 | 1233.5 | 1226.6 | 1214.5 | 1209.4 |
| 107.5° | 864.5 | 1022.9 | 1142.7 | 1219.3 | 1261.8 | 1281.4 | 1290.0 | 1292.3 |
| 110° | 805.4 | 954.1 | 1078.7 | 1173.3 | 1234.3 | 1270.4 | 1285.9 | 1293.7 |



TEST NUMBER: P332888-935

CATALOG NUMBER: SA4XXRDIP-C350D1035U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 112.5° | 762.1 | 893.5 | 1011.3 | 1105.9 | 1175.2 | 1218.8 | 1240.5 | 1253.0 |
| 115° | 718.6 | 824.3 | 924.9 | 1007.4 | 1075.3 | 1126.9 | 1154.3 | 1161.2 |
| 117.5° | 697.2 | 784.8 | 863.8 | 933.8 | 991.8 | 1035.1 | 1062.9 | 1068.2 |
| 120° | 687.6 | 767.6 | 836.4 | 897.3 | 946.3 | 984.2 | 1006.5 | 1016.0 |
| 122.5° | 679.4 | 756.6 | 819.2 | 872.6 | 914.0 | 946.3 | 965.3 | 974.7 |
| 125° | 665.3 | 739.2 | 798.5 | 845.8 | 880.2 | 905.1 | 921.4 | 926.6 |
| 127.5° | 648.1 | 718.8 | 777.9 | 822.8 | 857.3 | 879.5 | 893.2 | 898.4 |
| 130° | 634.4 | 702.2 | 760.7 | 806.2 | 841.5 | 863.0 | 876.8 | 881.9 |
| 132.5° | 619.9 | 683.7 | 740.7 | 786.4 | 820.9 | 845.1 | 858.2 | 863.3 |
| 135° | 599.9 | 655.8 | 708.3 | 751.2 | 785.7 | 809.7 | 823.5 | 828.6 |
| 137.5° | 581.9 | 629.2 | 673.4 | 712.2 | 744.3 | 768.1 | 779.5 | 785.7 |
| 140° | 571.6 | 612.0 | 650.7 | 686.7 | 716.9 | 735.8 | 747.8 | 754.7 |
| 142.5° | 562.0 | 597.5 | 630.8 | 662.0 | 688.6 | 706.2 | 716.9 | 721.7 |
| 145° | 548.4 | 577.6 | 603.4 | 627.5 | 648.9 | 663.6 | 672.2 | 676.5 |
| 147.5° | 537.2 | 560.4 | 581.1 | 599.9 | 615.8 | 628.4 | 634.9 | 636.4 |
| 150° | 530.4 | 550.1 | 567.3 | 582.8 | 596.5 | 607.7 | 612.9 | 613.7 |
| 152.5° | 522.8 | 539.8 | 555.6 | 568.3 | 580.1 | 589.1 | 592.2 | 593.1 |
| 155° | 511.4 | 525.2 | 538.0 | 548.4 | 557.0 | 563.9 | 566.5 | 566.5 |
| 157.5° | 499.2 | 510.7 | 521.6 | 529.9 | 536.3 | 541.5 | 543.0 | 543.0 |
| 160° | 491.6 | 501.1 | 510.6 | 517.5 | 522.6 | 527.8 | 528.7 | 528.7 |
| 162.5° | 484.1 | 492.1 | 499.6 | 505.8 | 509.5 | 514.7 | 515.6 | 514.9 |
| 165° | 473.6 | 478.8 | 484.7 | 489.0 | 492.5 | 495.9 | 495.1 | 494.2 |
| 167.5° | 463.5 | 467.4 | 472.3 | 474.8 | 476.6 | 478.8 | 478.6 | 477.9 |
| 170° | 457.3 | 459.9 | 463.3 | 465.9 | 467.6 | 468.5 | 467.6 | 467.6 |
| 172.5° | 451.8 | 453.7 | 455.7 | 457.6 | 458.7 | 459.5 | 458.7 | 457.3 |
| 175° | 444.4 | 445.2 | 446.9 | 446.9 | 446.9 | 448.7 | 446.9 | 445.2 |
| 177.5° | 439.5 | 440.2 | 440.2 | 440.9 | 440.2 | 440.9 | 439.5 | 438.2 |
| 180° | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 |

(END OF REPORT)