

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: P332502-927

Luminaire Tested: **SA4XXDIP-C350D590U927-4F0-1E-UDD-D**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332502-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C350D590U927-4F0-1E-UDD-D
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3012.1 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

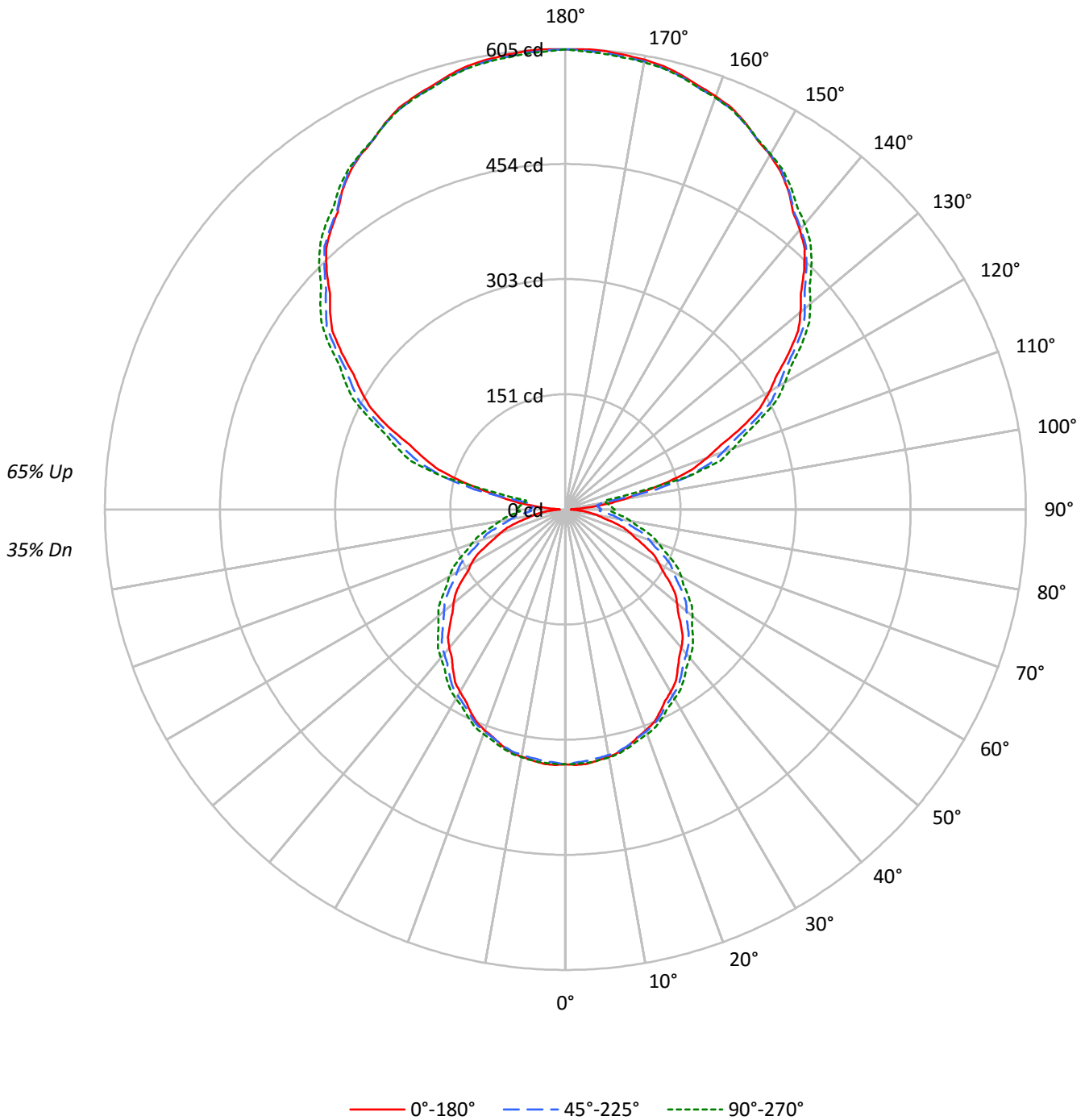
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332502-927

CATALOG NUMBER: SA4XXDIP-C350D590U927-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P332502-927

CATALOG NUMBER: SA4XXDIP-C350D590U927-4F0-1E-UDD-D

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 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 75 | 75 | 75 | 58 | 58 | 58 | 42 | 42 | 42 | 35 | | | | |
| 1 | 94 | 89 | 85 | 81 | 84 | 81 | 77 | 74 | 65 | 62 | 60 | 50 | 48 | 47 | 36 | 35 | 34 | 28 | | | | |
| 2 | 85 | 77 | 71 | 66 | 76 | 70 | 65 | 60 | 56 | 52 | 49 | 43 | 41 | 38 | 32 | 30 | 28 | 23 | | | | |
| 3 | 77 | 68 | 60 | 54 | 69 | 61 | 55 | 50 | 49 | 45 | 41 | 38 | 35 | 32 | 28 | 26 | 24 | 19 | | | | |
| 4 | 71 | 60 | 52 | 46 | 63 | 54 | 47 | 42 | 44 | 38 | 34 | 34 | 30 | 27 | 25 | 22 | 20 | 16 | | | | |
| 5 | 65 | 53 | 45 | 39 | 58 | 48 | 41 | 36 | 39 | 34 | 29 | 30 | 26 | 23 | 22 | 20 | 17 | 14 | | | | |
| 6 | 59 | 47 | 39 | 33 | 53 | 43 | 36 | 31 | 35 | 29 | 26 | 27 | 23 | 20 | 20 | 17 | 15 | 12 | | | | |
| 7 | 55 | 43 | 35 | 29 | 49 | 39 | 32 | 27 | 31 | 26 | 22 | 25 | 21 | 18 | 18 | 15 | 13 | 11 | | | | |
| 8 | 51 | 38 | 31 | 26 | 46 | 35 | 28 | 24 | 29 | 23 | 20 | 22 | 19 | 16 | 17 | 14 | 12 | 9 | | | | |
| 9 | 47 | 35 | 28 | 23 | 42 | 32 | 25 | 21 | 26 | 21 | 17 | 20 | 17 | 14 | 15 | 13 | 11 | 8 | | | | |
| 10 | 44 | 32 | 25 | 20 | 40 | 29 | 23 | 19 | 24 | 19 | 16 | 19 | 15 | 13 | 14 | 12 | 10 | 8 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2704 | 2704 | 2704 |
| 5° | 2712 | 2641 | 2650 |
| 10° | 2694 | 2599 | 2596 |
| 15° | 2670 | 2549 | 2535 |
| 20° | 2635 | 2494 | 2475 |
| 25° | 2594 | 2432 | 2408 |
| 30° | 2549 | 2370 | 2340 |
| 35° | 2498 | 2307 | 2280 |
| 40° | 2458 | 2247 | 2218 |
| 45° | 2398 | 2191 | 2164 |
| 50° | 2348 | 2128 | 2108 |
| 55° | 2296 | 2068 | 2042 |
| 60° | 2214 | 1991 | 1982 |
| 65° | 2125 | 1909 | 1908 |
| 70° | 2018 | 1816 | 1820 |
| 75° | 1867 | 1712 | 1743 |
| 80° | 1701 | 1613 | 1665 |
| 85° | 1489 | 1525 | 1621 |



TEST NUMBER: P332502-927

CATALOG NUMBER: SA4XXDIP-C350D590U927-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 31.7 | 1.1 |
| 10°-20° | 90.8 | 3.0 |
| 20°-30° | 137.4 | 4.6 |
| 30°-40° | 166.2 | 5.5 |
| 40°-50° | 175.7 | 5.8 |
| 50°-60° | 165.4 | 5.5 |
| 60°-70° | 137.2 | 4.6 |
| 70°-80° | 96.4 | 3.2 |
| 80°-90° | 56.2 | 1.9 |
| 90°-100° | 53.0 | 1.8 |
| 100°-110° | 155.7 | 5.2 |
| 110°-120° | 268.1 | 8.9 |
| 120°-130° | 329.0 | 10.9 |
| 130°-140° | 346.2 | 11.5 |
| 140°-150° | 320.9 | 10.7 |
| 150°-160° | 258.1 | 8.6 |
| 160°-170° | 166.5 | 5.5 |
| 170°-180° | 57.4 | 1.9 |
| 0°-30° | 259.9 | 8.6 |
| 0°-40° | 426.1 | 14.1 |
| 0°-60° | 767.2 | 25.5 |
| 0°-90° | 1057.0 | 35.1 |
| 90°-120° | 476.8 | 15.8 |
| 90°-150° | 1473.0 | 48.9 |
| 90°-180° | 1955.0 | 64.9 |
| 0°-180° | 3012.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 335 | 335 | 335 | 335 | 335 | |
| 5° | 335 | 334 | 331 | 334 | 334 | 32 |
| 15° | 321 | 322 | 321 | 324 | 324 | 90 |
| 25° | 294 | 296 | 297 | 301 | 302 | 135 |
| 35° | 257 | 262 | 266 | 270 | 272 | 161 |
| 45° | 214 | 222 | 229 | 235 | 237 | 166 |
| 55° | 168 | 176 | 187 | 194 | 197 | 150 |
| 65° | 116 | 128 | 141 | 150 | 153 | 115 |
| 75° | 64 | 78 | 94 | 104 | 108 | 69 |
| 85° | 20 | 36 | 52 | 63 | 68 | 21 |
| 90° | 7 | 27 | 47 | 60 | 65 | 5 |
| 95° | 30 | 28 | 42 | 55 | 59 | 36 |
| 105° | 139 | 150 | 166 | 178 | 166 | 146 |
| 115° | 256 | 261 | 272 | 281 | 284 | 252 |
| 125° | 358 | 360 | 368 | 377 | 380 | 320 |
| 135° | 444 | 443 | 448 | 454 | 458 | 342 |
| 145° | 511 | 512 | 512 | 515 | 517 | 319 |
| 155° | 560 | 560 | 559 | 561 | 559 | 258 |
| 165° | 591 | 588 | 588 | 592 | 588 | 167 |
| 175° | 604 | 602 | 602 | 605 | 601 | 58 |
| 180° | 604 | 604 | 604 | 604 | 604 | |



TEST NUMBER: P332502-927

CATALOG NUMBER: SA4XXDIP-C350D590U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 334.9 | 334.9 | 334.9 | 334.9 | 334.9 | 334.9 | 334.9 | 334.9 | 334.9 | 334.9 | 334.9 |
| 2.5° | 336.0 | 335.8 | 335.6 | 335.4 | 335.3 | 334.9 | 334.4 | 333.8 | 333.3 | 332.7 | 333.2 |
| 5° | 335.3 | 334.9 | 334.7 | 334.5 | 334.2 | 333.8 | 333.2 | 332.6 | 332.1 | 331.4 | 332.2 |
| 7.5° | 332.4 | 332.2 | 332.1 | 331.9 | 331.8 | 331.4 | 331.0 | 330.5 | 330.0 | 329.5 | 330.3 |
| 10° | 329.9 | 329.9 | 329.8 | 329.7 | 329.6 | 329.4 | 329.0 | 328.5 | 328.1 | 327.7 | 328.4 |
| 12.5° | 326.7 | 326.6 | 326.6 | 326.6 | 326.6 | 326.5 | 326.1 | 325.9 | 325.6 | 325.3 | 326.0 |
| 15° | 321.3 | 321.5 | 321.5 | 321.6 | 321.7 | 321.6 | 321.3 | 321.1 | 320.8 | 320.6 | 321.3 |
| 17.5° | 314.1 | 314.3 | 314.6 | 314.8 | 315.1 | 315.2 | 315.1 | 315.1 | 315.1 | 315.0 | 315.8 |
| 20° | 309.0 | 309.2 | 309.5 | 309.7 | 310.0 | 310.1 | 310.2 | 310.3 | 310.4 | 310.5 | 311.3 |
| 22.5° | 303.2 | 303.6 | 303.9 | 304.2 | 304.5 | 304.8 | 304.9 | 305.1 | 305.2 | 305.4 | 306.2 |
| 25° | 294.0 | 294.5 | 295.0 | 295.5 | 296.0 | 296.4 | 296.6 | 296.8 | 297.1 | 297.4 | 298.3 |
| 27.5° | 283.6 | 284.4 | 285.1 | 285.8 | 286.5 | 287.1 | 287.5 | 287.9 | 288.3 | 288.7 | 289.5 |
| 30° | 276.7 | 277.4 | 278.1 | 278.7 | 279.4 | 280.0 | 280.6 | 281.1 | 281.8 | 282.3 | 283.3 |
| 32.5° | 269.3 | 270.1 | 270.8 | 271.6 | 272.4 | 273.1 | 273.8 | 274.4 | 275.1 | 275.8 | 276.8 |
| 35° | 257.2 | 258.3 | 259.2 | 260.2 | 261.3 | 262.1 | 263.0 | 263.8 | 264.7 | 265.5 | 266.6 |
| 37.5° | 245.2 | 246.3 | 247.5 | 248.6 | 249.8 | 250.8 | 251.9 | 252.9 | 254.0 | 255.0 | 256.2 |
| 40° | 237.3 | 238.4 | 239.6 | 240.6 | 241.7 | 242.8 | 244.0 | 245.2 | 246.3 | 247.5 | 248.7 |
| 42.5° | 228.4 | 229.6 | 230.8 | 232.0 | 233.2 | 234.5 | 235.9 | 237.3 | 238.6 | 240.0 | 241.4 |
| 45° | 214.4 | 216.0 | 217.6 | 219.2 | 220.8 | 222.4 | 223.9 | 225.5 | 227.1 | 228.7 | 230.1 |
| 47.5° | 201.2 | 202.9 | 204.5 | 206.1 | 207.7 | 209.5 | 211.3 | 213.2 | 215.0 | 216.8 | 218.2 |
| 50° | 191.6 | 193.5 | 195.3 | 197.1 | 198.9 | 200.7 | 202.6 | 204.5 | 206.3 | 208.1 | 209.8 |
| 52.5° | 182.0 | 183.9 | 185.7 | 187.5 | 189.3 | 191.3 | 193.4 | 195.5 | 197.6 | 199.7 | 201.4 |
| 55° | 168.0 | 169.8 | 171.5 | 173.3 | 175.0 | 177.1 | 179.6 | 182.1 | 184.6 | 187.1 | 188.8 |
| 57.5° | 152.3 | 154.5 | 156.6 | 158.8 | 161.0 | 163.3 | 165.8 | 168.3 | 170.7 | 173.3 | 175.2 |
| 60° | 142.1 | 144.3 | 146.5 | 148.6 | 150.8 | 153.2 | 156.0 | 158.8 | 161.4 | 164.2 | 166.1 |
| 62.5° | 132.2 | 134.6 | 137.0 | 139.3 | 141.6 | 144.3 | 146.9 | 149.7 | 152.5 | 155.3 | 157.2 |
| 65° | 116.2 | 118.9 | 121.6 | 124.2 | 126.9 | 129.7 | 132.5 | 135.3 | 138.2 | 141.0 | 143.1 |
| 67.5° | 100.8 | 103.7 | 106.5 | 109.4 | 112.2 | 115.1 | 118.2 | 121.2 | 124.2 | 127.2 | 129.4 |
| 70° | 90.4 | 93.2 | 96.0 | 98.9 | 101.7 | 104.7 | 107.9 | 111.1 | 114.2 | 117.4 | 119.6 |
| 72.5° | 80.2 | 83.1 | 86.0 | 88.9 | 91.7 | 94.9 | 98.2 | 101.6 | 105.0 | 108.4 | 110.5 |
| 75° | 64.5 | 67.6 | 70.7 | 73.8 | 76.8 | 80.1 | 83.7 | 87.1 | 90.6 | 94.1 | 96.5 |
| 77.5° | 49.9 | 53.2 | 56.4 | 59.7 | 62.9 | 66.4 | 70.0 | 73.8 | 77.4 | 81.0 | 83.4 |
| 80° | 40.9 | 44.2 | 47.5 | 50.9 | 54.2 | 57.7 | 61.4 | 65.0 | 68.7 | 72.4 | 74.9 |
| 82.5° | 31.8 | 35.3 | 38.8 | 42.3 | 45.7 | 49.3 | 53.0 | 56.6 | 60.3 | 64.0 | 66.5 |
| 85° | 19.9 | 23.4 | 26.9 | 30.3 | 33.9 | 37.5 | 41.3 | 45.0 | 48.7 | 52.5 | 55.0 |
| 87.5° | 11.4 | 15.0 | 18.6 | 22.3 | 25.8 | 29.5 | 33.4 | 37.2 | 41.0 | 44.8 | 47.4 |
| 90° | 7.4 | 11.8 | 16.2 | 20.7 | 25.1 | 29.5 | 33.9 | 38.3 | 42.7 | 47.1 | 50.1 |
| 92.5° | 11.4 | 14.4 | 17.5 | 20.6 | 23.6 | 27.3 | 31.8 | 36.1 | 40.5 | 44.9 | 47.8 |
| 95° | 29.7 | 29.1 | 28.4 | 27.7 | 27.1 | 28.5 | 32.0 | 35.6 | 39.1 | 42.5 | 45.4 |
| 97.5° | 57.2 | 61.7 | 66.2 | 70.7 | 75.2 | 73.5 | 65.7 | 57.9 | 50.1 | 42.2 | 44.4 |
| 100° | 78.3 | 82.2 | 86.2 | 90.2 | 94.1 | 90.8 | 80.2 | 69.6 | 59.0 | 48.4 | 49.0 |
| 102.5° | 102.1 | 105.3 | 108.5 | 111.8 | 115.0 | 117.3 | 118.7 | 120.0 | 121.4 | 122.8 | 106.5 |
| 105° | 139.4 | 141.6 | 143.9 | 146.2 | 148.5 | 151.4 | 155.0 | 158.6 | 162.2 | 165.7 | 168.7 |
| 107.5° | 174.7 | 176.3 | 178.0 | 179.7 | 181.3 | 183.9 | 187.6 | 191.2 | 194.7 | 198.4 | 200.8 |
| 110° | 198.2 | 199.7 | 201.1 | 202.6 | 204.1 | 206.6 | 210.1 | 213.7 | 217.1 | 220.6 | 222.8 |



TEST NUMBER: P332502-927

CATALOG NUMBER: SA4XXDIP-C350D590U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 221.0 | 222.6 | 224.2 | 225.8 | 227.4 | 229.7 | 232.7 | 235.8 | 238.8 | 241.9 | 243.8 |
| 115° | 256.2 | 257.2 | 258.3 | 259.4 | 260.4 | 262.2 | 264.7 | 267.4 | 269.9 | 272.5 | 274.5 |
| 117.5° | 288.2 | 289.1 | 289.9 | 290.8 | 291.6 | 293.4 | 296.1 | 298.8 | 301.5 | 304.2 | 305.9 |
| 120° | 309.6 | 310.2 | 310.9 | 311.6 | 312.2 | 313.7 | 316.0 | 318.3 | 320.7 | 323.0 | 324.8 |
| 122.5° | 329.9 | 330.1 | 330.4 | 330.7 | 331.1 | 332.4 | 334.8 | 337.2 | 339.6 | 342.1 | 343.9 |
| 125° | 358.5 | 358.8 | 359.1 | 359.4 | 359.7 | 360.8 | 362.7 | 364.6 | 366.5 | 368.4 | 370.3 |
| 127.5° | 385.9 | 385.9 | 386.0 | 386.0 | 386.0 | 387.0 | 389.0 | 391.1 | 393.2 | 395.2 | 396.6 |
| 130° | 403.3 | 403.3 | 403.3 | 403.4 | 403.4 | 404.2 | 405.8 | 407.5 | 409.1 | 410.7 | 412.3 |
| 132.5° | 419.5 | 419.7 | 419.8 | 419.9 | 419.9 | 420.7 | 422.2 | 423.7 | 425.1 | 426.5 | 428.0 |
| 135° | 443.6 | 443.5 | 443.4 | 443.3 | 443.2 | 443.6 | 444.7 | 445.6 | 446.6 | 447.6 | 449.1 |
| 137.5° | 465.2 | 465.2 | 465.1 | 465.1 | 465.0 | 465.3 | 466.1 | 466.8 | 467.5 | 468.3 | 469.7 |
| 140° | 479.3 | 479.4 | 479.5 | 479.7 | 479.7 | 480.0 | 480.2 | 480.5 | 480.9 | 481.1 | 482.5 |
| 142.5° | 491.6 | 492.0 | 492.3 | 492.7 | 493.1 | 493.2 | 493.3 | 493.4 | 493.5 | 493.5 | 494.7 |
| 145° | 511.0 | 511.2 | 511.4 | 511.7 | 511.9 | 512.0 | 512.0 | 512.0 | 512.0 | 512.0 | 512.6 |
| 147.5° | 526.5 | 527.0 | 527.4 | 527.9 | 528.4 | 528.5 | 528.5 | 528.4 | 528.2 | 528.1 | 528.3 |
| 150° | 537.7 | 538.0 | 538.3 | 538.6 | 538.9 | 539.1 | 538.9 | 538.8 | 538.8 | 538.6 | 538.6 |
| 152.5° | 546.8 | 547.1 | 547.4 | 547.6 | 548.0 | 548.0 | 547.9 | 547.7 | 547.5 | 547.3 | 547.5 |
| 155° | 559.9 | 560.0 | 560.1 | 560.2 | 560.3 | 560.2 | 559.9 | 559.6 | 559.3 | 559.0 | 559.4 |
| 157.5° | 571.0 | 570.9 | 570.8 | 570.8 | 570.8 | 570.5 | 570.2 | 569.9 | 569.5 | 569.2 | 569.7 |
| 160° | 577.5 | 577.2 | 576.9 | 576.6 | 576.3 | 576.1 | 576.0 | 575.9 | 575.8 | 575.7 | 576.3 |
| 162.5° | 583.3 | 582.9 | 582.5 | 582.2 | 581.8 | 581.5 | 581.4 | 581.3 | 581.2 | 581.1 | 581.7 |
| 165° | 590.6 | 590.1 | 589.6 | 589.1 | 588.6 | 588.4 | 588.4 | 588.4 | 588.4 | 588.4 | 589.1 |
| 167.5° | 596.4 | 595.9 | 595.3 | 594.8 | 594.3 | 594.0 | 594.0 | 593.9 | 593.8 | 593.7 | 594.7 |
| 170° | 599.7 | 599.0 | 598.4 | 597.9 | 597.2 | 597.0 | 597.1 | 597.1 | 597.3 | 597.4 | 598.2 |
| 172.5° | 601.8 | 601.2 | 600.6 | 600.0 | 599.4 | 599.1 | 599.3 | 599.4 | 599.4 | 599.5 | 600.4 |
| 175° | 604.2 | 603.6 | 602.9 | 602.4 | 601.7 | 601.5 | 601.6 | 601.7 | 601.8 | 601.9 | 602.8 |
| 177.5° | 605.2 | 604.7 | 604.1 | 603.6 | 603.0 | 602.8 | 602.9 | 603.1 | 603.2 | 603.4 | 604.1 |
| 180° | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 |



TEST NUMBER: P332502-927

CATALOG NUMBER: SA4XXDIP-C350D590U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 334.9 | 334.9 | 334.9 | 334.9 | 334.9 | 334.9 | 334.9 | 334.9 |
| 2.5° | 333.7 | 334.1 | 334.6 | 334.8 | 334.8 | 334.7 | 334.6 | 334.5 |
| 5° | 332.8 | 333.4 | 334.1 | 334.5 | 334.4 | 334.2 | 334.1 | 334.1 |
| 7.5° | 331.1 | 331.8 | 332.6 | 332.9 | 332.8 | 332.7 | 332.6 | 332.6 |
| 10° | 329.2 | 329.9 | 330.7 | 331.1 | 331.0 | 330.9 | 330.8 | 330.7 |
| 12.5° | 326.7 | 327.4 | 328.0 | 328.4 | 328.4 | 328.4 | 328.4 | 328.3 |
| 15° | 322.1 | 322.8 | 323.6 | 323.9 | 323.8 | 323.8 | 323.7 | 323.6 |
| 17.5° | 316.5 | 317.3 | 318.1 | 318.4 | 318.3 | 318.2 | 318.2 | 318.1 |
| 20° | 312.1 | 313.0 | 313.8 | 314.3 | 314.3 | 314.3 | 314.3 | 314.3 |
| 22.5° | 307.0 | 307.8 | 308.7 | 309.2 | 309.3 | 309.4 | 309.6 | 309.7 |
| 25° | 299.2 | 300.1 | 301.0 | 301.5 | 301.6 | 301.7 | 301.7 | 301.8 |
| 27.5° | 290.3 | 291.2 | 292.1 | 292.6 | 292.6 | 292.7 | 292.8 | 292.9 |
| 30° | 284.2 | 285.1 | 286.0 | 286.5 | 286.7 | 286.9 | 287.1 | 287.2 |
| 32.5° | 277.8 | 278.9 | 280.0 | 280.6 | 280.7 | 280.9 | 281.1 | 281.2 |
| 35° | 267.8 | 268.9 | 270.1 | 270.8 | 271.1 | 271.3 | 271.6 | 271.9 |
| 37.5° | 257.4 | 258.5 | 259.7 | 260.5 | 260.7 | 260.9 | 261.3 | 261.5 |
| 40° | 250.0 | 251.2 | 252.5 | 253.3 | 253.6 | 254.0 | 254.3 | 254.6 |
| 42.5° | 242.7 | 244.2 | 245.5 | 246.4 | 246.6 | 246.8 | 247.2 | 247.4 |
| 45° | 231.6 | 233.0 | 234.4 | 235.3 | 235.8 | 236.1 | 236.5 | 236.9 |
| 47.5° | 219.8 | 221.2 | 222.7 | 223.6 | 224.2 | 224.7 | 225.1 | 225.7 |
| 50° | 211.4 | 213.1 | 214.8 | 215.9 | 216.3 | 216.8 | 217.4 | 217.9 |
| 52.5° | 203.0 | 204.7 | 206.4 | 207.5 | 207.9 | 208.4 | 209.0 | 209.5 |
| 55° | 190.4 | 192.1 | 193.8 | 194.9 | 195.4 | 195.8 | 196.4 | 196.9 |
| 57.5° | 177.2 | 179.2 | 181.2 | 182.4 | 182.8 | 183.3 | 183.8 | 184.3 |
| 60° | 168.1 | 170.0 | 171.9 | 173.2 | 173.9 | 174.5 | 175.2 | 175.9 |
| 62.5° | 159.1 | 161.0 | 162.9 | 164.2 | 164.9 | 165.5 | 166.2 | 166.8 |
| 65° | 145.1 | 147.3 | 149.3 | 150.7 | 151.4 | 152.0 | 152.7 | 153.4 |
| 67.5° | 131.5 | 133.6 | 135.7 | 137.1 | 137.8 | 138.4 | 139.0 | 139.7 |
| 70° | 121.8 | 124.1 | 126.4 | 127.8 | 128.3 | 129.0 | 129.5 | 130.1 |
| 72.5° | 112.7 | 114.9 | 117.1 | 118.5 | 119.1 | 119.8 | 120.5 | 121.1 |
| 75° | 98.8 | 101.1 | 103.5 | 105.0 | 105.8 | 106.5 | 107.3 | 108.0 |
| 77.5° | 85.8 | 88.2 | 90.5 | 92.1 | 92.9 | 93.7 | 94.5 | 95.3 |
| 80° | 77.4 | 79.9 | 82.4 | 84.0 | 84.6 | 85.3 | 86.0 | 86.6 |
| 82.5° | 69.1 | 71.7 | 74.2 | 75.9 | 76.6 | 77.3 | 78.1 | 78.8 |
| 85° | 57.5 | 60.0 | 62.5 | 64.2 | 65.0 | 65.8 | 66.6 | 67.5 |
| 87.5° | 49.9 | 52.4 | 55.0 | 56.6 | 57.4 | 58.1 | 58.9 | 59.7 |
| 90° | 53.1 | 56.1 | 59.2 | 61.1 | 61.9 | 62.8 | 63.7 | 64.6 |
| 92.5° | 50.8 | 53.8 | 56.7 | 58.5 | 59.3 | 60.0 | 60.7 | 61.4 |
| 95° | 48.2 | 51.1 | 53.9 | 55.8 | 56.6 | 57.5 | 58.4 | 59.3 |
| 97.5° | 46.7 | 49.0 | 51.2 | 52.8 | 53.6 | 54.3 | 55.2 | 56.0 |
| 100° | 49.4 | 50.0 | 50.5 | 51.2 | 51.8 | 52.5 | 53.2 | 53.9 |
| 102.5° | 90.3 | 74.1 | 57.8 | 50.1 | 50.8 | 51.4 | 52.1 | 52.8 |
| 105° | 171.7 | 174.7 | 177.7 | 177.7 | 174.8 | 171.8 | 168.9 | 165.9 |
| 107.5° | 203.4 | 205.8 | 208.3 | 210.1 | 211.0 | 212.0 | 213.0 | 214.0 |
| 110° | 224.9 | 227.0 | 229.1 | 230.7 | 231.6 | 232.6 | 233.5 | 234.6 |



TEST NUMBER: P332502-927

CATALOG NUMBER: SA4XXDIP-C350D590U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 245.6 | 247.3 | 249.1 | 250.6 | 251.7 | 252.7 | 253.7 | 254.8 |
| 115° | 276.6 | 278.6 | 280.6 | 281.9 | 282.5 | 283.1 | 283.7 | 284.2 |
| 117.5° | 307.6 | 309.3 | 311.0 | 312.1 | 312.8 | 313.4 | 314.0 | 314.7 |
| 120° | 326.7 | 328.6 | 330.4 | 331.6 | 332.1 | 332.6 | 333.0 | 333.4 |
| 122.5° | 345.6 | 347.5 | 349.2 | 350.3 | 350.7 | 351.1 | 351.5 | 351.9 |
| 125° | 372.2 | 374.1 | 375.9 | 377.2 | 377.8 | 378.3 | 379.0 | 379.5 |
| 127.5° | 398.2 | 399.6 | 401.0 | 402.0 | 402.4 | 402.9 | 403.5 | 403.9 |
| 130° | 413.9 | 415.5 | 417.2 | 418.2 | 418.7 | 419.1 | 419.7 | 420.2 |
| 132.5° | 429.6 | 431.1 | 432.7 | 433.6 | 434.0 | 434.5 | 434.9 | 435.3 |
| 135° | 450.7 | 452.2 | 453.7 | 454.8 | 455.5 | 456.2 | 456.9 | 457.6 |
| 137.5° | 471.1 | 472.5 | 474.0 | 474.9 | 475.2 | 475.6 | 475.9 | 476.3 |
| 140° | 483.9 | 485.3 | 486.6 | 487.6 | 488.1 | 488.6 | 489.2 | 489.6 |
| 142.5° | 495.8 | 497.0 | 498.2 | 499.0 | 499.3 | 499.7 | 500.1 | 500.4 |
| 145° | 513.2 | 513.8 | 514.4 | 514.9 | 515.5 | 516.0 | 516.6 | 517.1 |
| 147.5° | 528.5 | 528.6 | 528.8 | 529.0 | 529.3 | 529.7 | 530.1 | 530.4 |
| 150° | 538.6 | 538.6 | 538.6 | 538.7 | 538.8 | 538.9 | 539.0 | 539.1 |
| 152.5° | 547.6 | 547.8 | 548.0 | 548.0 | 548.0 | 547.9 | 547.8 | 547.8 |
| 155° | 559.8 | 560.2 | 560.5 | 560.6 | 560.3 | 560.0 | 559.8 | 559.4 |
| 157.5° | 570.2 | 570.8 | 571.2 | 571.2 | 570.8 | 570.2 | 569.7 | 569.2 |
| 160° | 576.9 | 577.5 | 578.1 | 578.1 | 577.5 | 576.9 | 576.3 | 575.7 |
| 162.5° | 582.3 | 582.9 | 583.5 | 583.5 | 582.8 | 582.1 | 581.5 | 580.7 |
| 165° | 589.9 | 590.7 | 591.6 | 591.5 | 590.6 | 589.7 | 588.8 | 587.9 |
| 167.5° | 595.6 | 596.4 | 597.3 | 597.2 | 596.3 | 595.2 | 594.2 | 593.3 |
| 170° | 599.0 | 599.8 | 600.6 | 600.5 | 599.5 | 598.5 | 597.5 | 596.5 |
| 172.5° | 601.2 | 602.0 | 602.8 | 602.6 | 601.6 | 600.5 | 599.4 | 598.3 |
| 175° | 603.7 | 604.6 | 605.5 | 605.4 | 604.2 | 602.9 | 601.7 | 600.6 |
| 177.5° | 604.8 | 605.4 | 606.0 | 605.9 | 604.9 | 604.0 | 602.9 | 602.0 |
| 180° | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 |

(END OF REPORT)