

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: P331528-830

Luminaire Tested: **S122DIW-S675D435U830-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331528-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S675D435U830-4F0-1E-UDD-D1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3949.9 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: General Diffuse

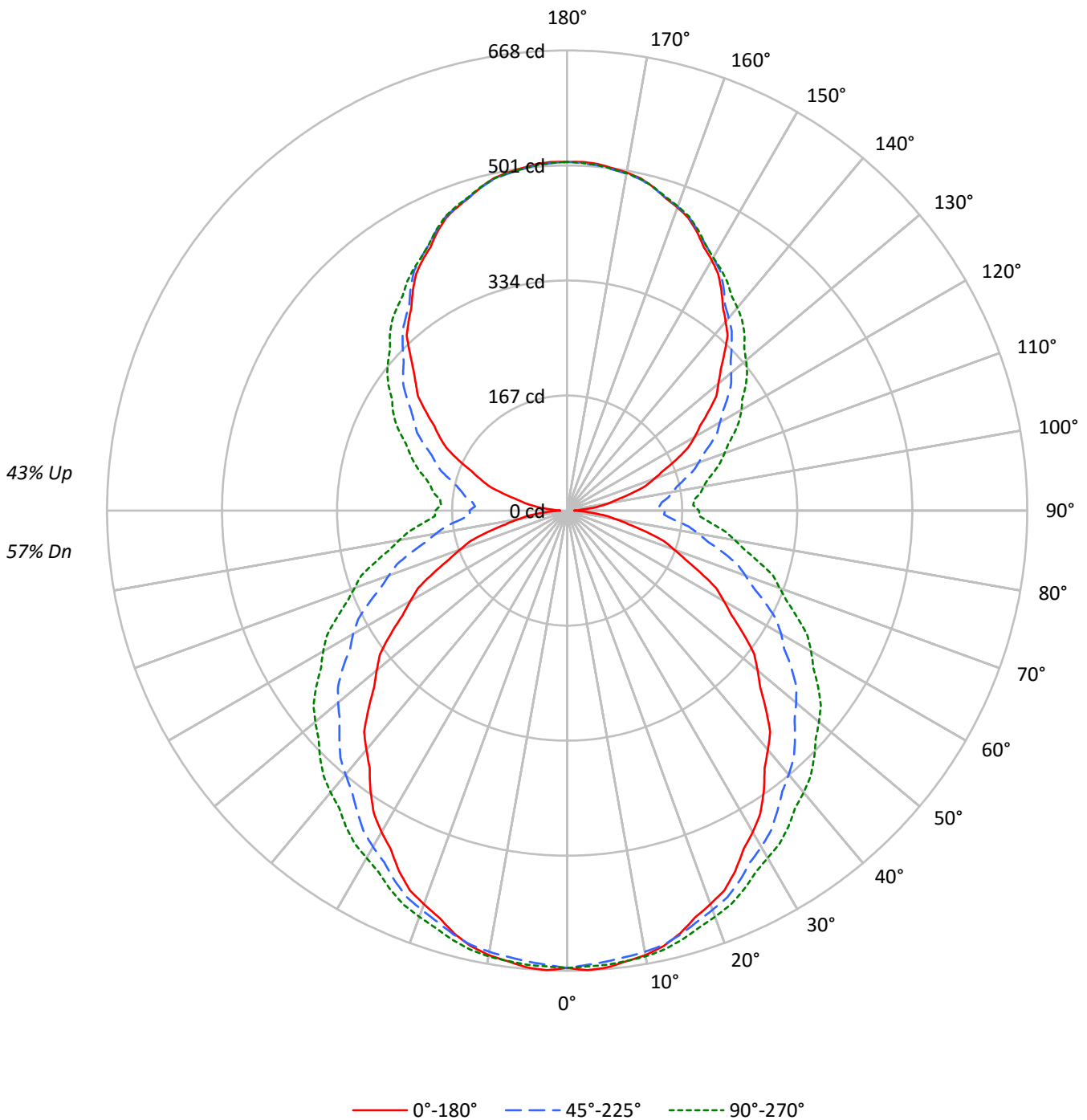
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331528-830

CATALOG NUMBER: S122DIW-S675D435U830-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P331528-830

CATALOG NUMBER: S122DIW-S675D435U830-4F0-1E-UDD-D1

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 | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 74 | 74 | 74 | 63 | 63 | 63 | 57 |
| 1 | 98 | 93 | 88 | 84 | 91 | 86 | 82 | 78 | 74 | 71 | 68 | 63 | 61 | 58 | 53 | 51 | 49 | 44 |
| 2 | 88 | 80 | 73 | 67 | 82 | 74 | 68 | 63 | 64 | 59 | 55 | 54 | 51 | 48 | 45 | 43 | 40 | 36 |
| 3 | 80 | 70 | 62 | 55 | 74 | 65 | 58 | 52 | 56 | 50 | 46 | 47 | 43 | 39 | 40 | 36 | 34 | 30 |
| 4 | 73 | 61 | 53 | 46 | 67 | 57 | 49 | 44 | 49 | 43 | 38 | 42 | 37 | 33 | 35 | 31 | 28 | 25 |
| 5 | 67 | 54 | 46 | 39 | 62 | 51 | 43 | 37 | 44 | 38 | 33 | 37 | 32 | 29 | 31 | 28 | 25 | 21 |
| 6 | 62 | 49 | 40 | 34 | 57 | 45 | 38 | 32 | 39 | 33 | 28 | 34 | 29 | 25 | 28 | 24 | 21 | 19 |
| 7 | 57 | 44 | 35 | 30 | 53 | 41 | 33 | 28 | 36 | 29 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 16 |
| 8 | 53 | 40 | 32 | 26 | 49 | 37 | 30 | 25 | 32 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 14 |
| 9 | 49 | 36 | 28 | 23 | 45 | 34 | 27 | 22 | 30 | 24 | 20 | 26 | 21 | 17 | 22 | 18 | 15 | 13 |
| 10 | 46 | 33 | 26 | 21 | 43 | 31 | 24 | 20 | 27 | 22 | 18 | 24 | 19 | 16 | 20 | 16 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10719 | 10719 | 10719 |
| 5° | 10771 | 10318 | 10278 |
| 10° | 10704 | 10013 | 9900 |
| 15° | 10557 | 9691 | 9503 |
| 20° | 10370 | 9345 | 9120 |
| 25° | 10186 | 9011 | 8772 |
| 30° | 9928 | 8668 | 8421 |
| 35° | 9665 | 8338 | 8176 |
| 40° | 9388 | 8055 | 7929 |
| 45° | 9124 | 7803 | 7719 |
| 50° | 8843 | 7574 | 7511 |
| 55° | 8548 | 7331 | 7300 |
| 60° | 8188 | 7076 | 7078 |
| 65° | 7811 | 6777 | 6812 |
| 70° | 7390 | 6457 | 6525 |
| 75° | 6853 | 6143 | 6262 |
| 80° | 6004 | 5822 | 5995 |
| 85° | 5192 | 5544 | 5785 |



TEST NUMBER: P331528-830

CATALOG NUMBER: S122DIW-S675D435U830-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.9 | 1.6 |
| 10°-20° | 180.4 | 4.6 |
| 20°-30° | 273.4 | 6.9 |
| 30°-40° | 333.0 | 8.4 |
| 40°-50° | 358.2 | 9.1 |
| 50°-60° | 347.9 | 8.8 |
| 60°-70° | 303.7 | 7.7 |
| 70°-80° | 233.8 | 5.9 |
| 80°-90° | 159.0 | 4.0 |
| 90°-100° | 140.2 | 3.5 |
| 100°-110° | 178.5 | 4.5 |
| 110°-120° | 222.4 | 5.6 |
| 120°-130° | 253.0 | 6.4 |
| 130°-140° | 263.5 | 6.7 |
| 140°-150° | 248.5 | 6.3 |
| 150°-160° | 206.6 | 5.2 |
| 160°-170° | 137.1 | 3.5 |
| 170°-180° | 47.9 | 1.2 |
| 0°-30° | 516.7 | 13.1 |
| 0°-40° | 849.6 | 21.5 |
| 0°-60° | 1555.7 | 39.4 |
| 0°-90° | 2252.3 | 57.0 |
| 90°-120° | 541.1 | 13.7 |
| 90°-150° | 1306.0 | 33.1 |
| 90°-180° | 1698.0 | 43.0 |
| 0°-180° | 3949.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 664 | 664 | 664 | 664 | 664 | |
| 5° | 666 | 663 | 657 | 663 | 662 | 63 |
| 15° | 635 | 637 | 637 | 645 | 645 | 179 |
| 25° | 577 | 584 | 593 | 604 | 607 | 265 |
| 35° | 498 | 514 | 532 | 552 | 560 | 311 |
| 45° | 408 | 434 | 468 | 496 | 507 | 315 |
| 55° | 313 | 348 | 397 | 431 | 444 | 279 |
| 65° | 214 | 261 | 318 | 356 | 370 | 212 |
| 75° | 118 | 173 | 234 | 274 | 288 | 125 |
| 85° | 35 | 94 | 156 | 195 | 210 | 37 |
| 90° | 10 | 72 | 142 | 178 | 192 | 8 |
| 95° | 30 | 80 | 138 | 173 | 185 | 32 |
| 105° | 97 | 127 | 177 | 210 | 222 | 102 |
| 115° | 175 | 189 | 230 | 258 | 268 | 172 |
| 125° | 250 | 256 | 284 | 308 | 317 | 224 |
| 135° | 322 | 328 | 338 | 357 | 364 | 249 |
| 145° | 390 | 393 | 396 | 402 | 405 | 244 |
| 155° | 446 | 448 | 449 | 451 | 450 | 205 |
| 165° | 486 | 485 | 485 | 488 | 486 | 137 |
| 175° | 505 | 504 | 503 | 506 | 504 | 48 |
| 180° | 506 | 506 | 506 | 506 | 506 | |



TEST NUMBER: P331528-830

CATALOG NUMBER: S122DIW-S675D435U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 |
| 2.5° | 667.8 | 667.2 | 666.8 | 666.2 | 665.7 | 664.9 | 663.6 | 662.4 | 661.3 | 660.1 | 660.9 |
| 5° | 665.8 | 665.2 | 664.6 | 663.9 | 663.3 | 662.3 | 661.0 | 659.8 | 658.5 | 657.1 | 658.5 |
| 7.5° | 659.9 | 659.4 | 659.0 | 658.6 | 658.2 | 657.4 | 656.5 | 655.4 | 654.5 | 653.6 | 655.1 |
| 10° | 655.3 | 654.8 | 654.4 | 653.9 | 653.6 | 653.0 | 652.3 | 651.8 | 651.1 | 650.4 | 652.1 |
| 12.5° | 647.5 | 647.6 | 647.7 | 647.8 | 647.9 | 647.7 | 647.2 | 646.8 | 646.3 | 645.8 | 647.5 |
| 15° | 635.1 | 635.5 | 635.9 | 636.3 | 636.8 | 637.0 | 637.0 | 637.0 | 637.0 | 637.0 | 638.9 |
| 17.5° | 618.9 | 619.8 | 620.7 | 621.6 | 622.5 | 623.3 | 624.0 | 624.6 | 625.3 | 626.0 | 628.0 |
| 20° | 608.1 | 609.2 | 610.2 | 611.3 | 612.4 | 613.3 | 614.2 | 615.1 | 616.0 | 616.8 | 619.2 |
| 22.5° | 596.5 | 597.8 | 599.1 | 600.3 | 601.5 | 602.8 | 604.0 | 605.1 | 606.3 | 607.6 | 609.9 |
| 25° | 577.3 | 578.8 | 580.3 | 581.8 | 583.3 | 585.0 | 586.9 | 588.9 | 590.8 | 592.7 | 595.3 |
| 27.5° | 554.2 | 556.7 | 559.1 | 561.6 | 564.0 | 566.4 | 568.6 | 570.9 | 573.2 | 575.4 | 578.6 |
| 30° | 538.9 | 541.6 | 544.4 | 547.1 | 550.0 | 552.7 | 555.5 | 558.3 | 561.1 | 563.8 | 567.2 |
| 32.5° | 521.9 | 525.0 | 528.1 | 531.2 | 534.4 | 537.6 | 540.9 | 544.1 | 547.4 | 550.7 | 554.7 |
| 35° | 497.5 | 501.1 | 504.7 | 508.3 | 512.0 | 515.9 | 519.9 | 524.0 | 528.0 | 532.1 | 536.8 |
| 37.5° | 470.9 | 475.1 | 479.3 | 483.4 | 487.7 | 492.4 | 497.7 | 502.9 | 508.1 | 513.4 | 518.7 |
| 40° | 453.2 | 457.9 | 462.6 | 467.3 | 472.0 | 477.2 | 483.1 | 488.8 | 494.6 | 500.3 | 505.9 |
| 42.5° | 436.3 | 440.9 | 445.6 | 450.3 | 455.1 | 460.7 | 467.4 | 474.0 | 480.6 | 487.3 | 493.3 |
| 45° | 407.9 | 413.8 | 419.5 | 425.3 | 431.0 | 437.7 | 445.2 | 452.7 | 460.1 | 467.6 | 474.3 |
| 47.5° | 380.0 | 386.3 | 392.7 | 398.9 | 405.2 | 412.7 | 421.5 | 430.3 | 439.0 | 447.8 | 454.8 |
| 50° | 360.8 | 367.5 | 374.1 | 380.7 | 387.3 | 395.5 | 405.1 | 414.7 | 424.3 | 433.9 | 441.2 |
| 52.5° | 342.3 | 349.3 | 356.3 | 363.3 | 370.2 | 378.8 | 388.9 | 399.1 | 409.2 | 419.3 | 426.8 |
| 55° | 312.7 | 320.4 | 328.1 | 335.8 | 343.5 | 352.9 | 364.0 | 375.1 | 386.3 | 397.4 | 405.1 |
| 57.5° | 283.4 | 292.2 | 300.9 | 309.5 | 318.2 | 328.2 | 339.5 | 350.8 | 362.2 | 373.5 | 381.8 |
| 60° | 262.7 | 271.8 | 281.1 | 290.3 | 299.4 | 310.2 | 322.3 | 334.5 | 346.7 | 358.9 | 367.0 |
| 62.5° | 244.2 | 253.7 | 263.3 | 272.8 | 282.4 | 293.2 | 305.4 | 317.5 | 329.8 | 342.0 | 350.6 |
| 65° | 213.6 | 224.0 | 234.6 | 245.1 | 255.5 | 267.0 | 279.7 | 292.3 | 304.9 | 317.5 | 326.3 |
| 67.5° | 185.5 | 196.4 | 207.5 | 218.4 | 229.3 | 241.2 | 254.1 | 267.0 | 279.9 | 292.8 | 301.7 |
| 70° | 165.5 | 176.6 | 187.8 | 198.9 | 210.0 | 222.2 | 235.4 | 248.6 | 261.9 | 275.2 | 284.4 |
| 72.5° | 147.0 | 158.4 | 169.9 | 181.4 | 192.8 | 205.3 | 218.8 | 232.1 | 245.6 | 259.0 | 268.1 |
| 75° | 118.4 | 130.4 | 142.3 | 154.3 | 166.3 | 179.1 | 192.7 | 206.4 | 220.1 | 233.8 | 243.0 |
| 77.5° | 90.7 | 103.2 | 115.7 | 128.2 | 140.7 | 154.0 | 167.9 | 181.8 | 195.7 | 209.5 | 218.8 |
| 80° | 72.2 | 85.2 | 98.2 | 111.3 | 124.3 | 137.8 | 151.7 | 165.6 | 179.5 | 193.4 | 202.4 |
| 82.5° | 56.7 | 69.7 | 82.5 | 95.4 | 108.3 | 121.7 | 135.8 | 149.9 | 163.9 | 178.0 | 187.0 |
| 85° | 34.7 | 47.9 | 61.2 | 74.4 | 87.7 | 101.1 | 114.8 | 128.5 | 142.2 | 155.9 | 164.9 |
| 87.5° | 18.9 | 32.0 | 44.9 | 57.9 | 70.8 | 84.4 | 98.5 | 112.5 | 126.7 | 140.8 | 149.5 |
| 90° | 10.1 | 23.6 | 37.1 | 50.7 | 64.2 | 78.9 | 94.6 | 110.4 | 126.2 | 141.9 | 150.3 |
| 92.5° | 16.5 | 28.8 | 41.2 | 53.6 | 66.0 | 79.0 | 92.7 | 106.3 | 120.0 | 133.7 | 142.0 |
| 95° | 29.9 | 40.9 | 51.9 | 62.9 | 73.9 | 85.9 | 99.0 | 112.0 | 125.0 | 138.0 | 146.1 |
| 97.5° | 47.3 | 57.1 | 66.8 | 76.6 | 86.4 | 97.6 | 110.3 | 123.0 | 135.6 | 148.4 | 156.3 |
| 100° | 61.0 | 69.7 | 78.3 | 87.0 | 95.7 | 106.1 | 118.4 | 130.6 | 142.9 | 155.1 | 163.1 |
| 102.5° | 74.6 | 82.4 | 90.2 | 98.0 | 105.8 | 115.8 | 127.8 | 139.8 | 151.7 | 163.8 | 171.5 |
| 105° | 96.6 | 103.1 | 109.6 | 116.1 | 122.5 | 131.5 | 142.8 | 154.1 | 165.4 | 176.7 | 184.4 |
| 107.5° | 119.8 | 125.2 | 130.5 | 136.0 | 141.4 | 149.4 | 160.0 | 170.7 | 181.3 | 192.0 | 199.3 |
| 110° | 134.1 | 138.9 | 143.7 | 148.6 | 153.4 | 161.2 | 171.6 | 182.1 | 192.6 | 203.0 | 209.9 |



TEST NUMBER: P331528-830

CATALOG NUMBER: S122DIW-S675D435U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 150.5 | 154.7 | 158.8 | 163.0 | 167.1 | 174.2 | 184.1 | 194.0 | 203.9 | 213.7 | 220.4 |
| 115° | 174.7 | 177.6 | 180.5 | 183.4 | 186.3 | 192.6 | 202.0 | 211.4 | 220.8 | 230.3 | 236.6 |
| 117.5° | 197.7 | 200.1 | 202.4 | 204.7 | 207.0 | 212.3 | 220.6 | 229.0 | 237.4 | 245.7 | 251.8 |
| 120° | 213.9 | 215.5 | 217.1 | 218.7 | 220.3 | 225.0 | 232.8 | 240.6 | 248.4 | 256.2 | 262.1 |
| 122.5° | 228.6 | 229.8 | 231.0 | 232.2 | 233.6 | 237.9 | 245.4 | 253.0 | 260.4 | 268.0 | 273.5 |
| 125° | 250.4 | 251.3 | 252.1 | 253.0 | 253.8 | 257.6 | 264.1 | 270.7 | 277.2 | 283.8 | 289.3 |
| 127.5° | 272.8 | 273.6 | 274.5 | 275.3 | 276.3 | 279.3 | 284.5 | 289.5 | 294.7 | 299.9 | 304.9 |
| 130° | 286.7 | 287.8 | 288.8 | 289.8 | 290.9 | 293.5 | 297.7 | 302.1 | 306.4 | 310.7 | 315.7 |
| 132.5° | 302.5 | 303.2 | 304.1 | 304.8 | 305.7 | 307.7 | 311.3 | 314.8 | 318.3 | 321.8 | 326.3 |
| 135° | 322.5 | 323.6 | 324.6 | 325.6 | 326.7 | 328.4 | 330.7 | 333.0 | 335.4 | 337.7 | 342.0 |
| 137.5° | 344.6 | 345.4 | 346.3 | 347.0 | 347.9 | 348.8 | 350.1 | 351.3 | 352.4 | 353.6 | 357.5 |
| 140° | 358.0 | 358.6 | 359.2 | 359.9 | 360.5 | 361.3 | 362.2 | 363.1 | 364.0 | 364.9 | 368.3 |
| 142.5° | 371.6 | 372.3 | 372.9 | 373.5 | 374.2 | 374.7 | 375.1 | 375.5 | 375.9 | 376.4 | 379.2 |
| 145° | 390.3 | 391.0 | 391.6 | 392.3 | 392.9 | 393.6 | 394.2 | 394.7 | 395.3 | 395.9 | 397.2 |
| 147.5° | 407.8 | 408.6 | 409.4 | 410.2 | 411.0 | 411.6 | 412.0 | 412.4 | 412.7 | 413.1 | 413.5 |
| 150° | 419.8 | 420.4 | 420.9 | 421.5 | 422.1 | 422.5 | 422.9 | 423.3 | 423.7 | 424.0 | 424.3 |
| 152.5° | 430.4 | 430.9 | 431.5 | 432.1 | 432.6 | 433.2 | 433.6 | 434.0 | 434.5 | 435.0 | 435.4 |
| 155° | 446.2 | 446.5 | 446.8 | 447.1 | 447.4 | 447.7 | 448.0 | 448.3 | 448.6 | 448.8 | 449.3 |
| 157.5° | 459.9 | 460.1 | 460.2 | 460.4 | 460.6 | 460.7 | 460.9 | 461.1 | 461.3 | 461.5 | 462.1 |
| 160° | 468.1 | 468.3 | 468.4 | 468.6 | 468.8 | 468.9 | 469.0 | 469.1 | 469.2 | 469.3 | 469.9 |
| 162.5° | 475.5 | 475.6 | 475.6 | 475.6 | 475.7 | 475.8 | 475.9 | 476.0 | 476.1 | 476.2 | 476.7 |
| 165° | 485.5 | 485.4 | 485.3 | 485.2 | 485.1 | 485.1 | 485.1 | 485.1 | 485.1 | 485.1 | 485.8 |
| 167.5° | 493.9 | 493.6 | 493.3 | 493.0 | 492.8 | 492.6 | 492.6 | 492.6 | 492.6 | 492.6 | 493.2 |
| 170° | 498.3 | 498.0 | 497.8 | 497.5 | 497.2 | 497.0 | 496.9 | 496.8 | 496.7 | 496.6 | 497.3 |
| 172.5° | 501.4 | 501.1 | 500.9 | 500.6 | 500.3 | 500.1 | 500.0 | 499.9 | 499.8 | 499.7 | 500.4 |
| 175° | 505.2 | 504.9 | 504.6 | 504.4 | 504.1 | 503.8 | 503.6 | 503.4 | 503.2 | 503.0 | 503.7 |
| 177.5° | 506.7 | 506.5 | 506.2 | 506.1 | 505.8 | 505.6 | 505.5 | 505.3 | 505.1 | 505.0 | 505.5 |
| 180° | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 |



TEST NUMBER: P331528-830

CATALOG NUMBER: S122DIW-S675D435U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 |
| 2.5° | 661.8 | 662.6 | 663.5 | 663.7 | 663.4 | 663.1 | 662.7 | 662.4 |
| 5° | 659.8 | 661.0 | 662.3 | 662.9 | 662.6 | 662.4 | 662.2 | 661.9 |
| 7.5° | 656.6 | 658.2 | 659.7 | 660.3 | 660.2 | 659.9 | 659.7 | 659.5 |
| 10° | 653.8 | 655.5 | 657.3 | 658.0 | 657.8 | 657.6 | 657.4 | 657.1 |
| 12.5° | 649.2 | 650.9 | 652.7 | 653.4 | 653.2 | 653.0 | 652.8 | 652.5 |
| 15° | 640.8 | 642.7 | 644.7 | 645.5 | 645.4 | 645.1 | 644.9 | 644.7 |
| 17.5° | 630.0 | 632.1 | 634.0 | 635.1 | 635.1 | 635.1 | 635.1 | 635.1 |
| 20° | 621.5 | 623.9 | 626.1 | 627.4 | 627.4 | 627.4 | 627.4 | 627.4 |
| 22.5° | 612.3 | 614.6 | 616.9 | 618.3 | 618.6 | 619.0 | 619.3 | 619.6 |
| 25° | 597.9 | 600.4 | 602.9 | 604.5 | 605.2 | 605.9 | 606.5 | 607.2 |
| 27.5° | 581.9 | 585.1 | 588.4 | 590.2 | 590.7 | 591.2 | 591.6 | 592.1 |
| 30° | 570.7 | 574.1 | 577.5 | 579.6 | 580.2 | 580.9 | 581.5 | 582.1 |
| 32.5° | 558.6 | 562.6 | 566.5 | 569.0 | 570.2 | 571.4 | 572.5 | 573.6 |
| 35° | 541.5 | 546.2 | 550.9 | 554.0 | 555.5 | 557.0 | 558.5 | 560.0 |
| 37.5° | 523.9 | 529.0 | 534.3 | 537.7 | 539.3 | 540.8 | 542.4 | 544.0 |
| 40° | 511.4 | 517.0 | 522.5 | 526.3 | 528.2 | 530.2 | 532.1 | 534.0 |
| 42.5° | 499.4 | 505.5 | 511.5 | 515.6 | 517.5 | 519.4 | 521.3 | 523.2 |
| 45° | 480.9 | 487.5 | 494.2 | 498.5 | 500.7 | 502.8 | 504.9 | 507.1 |
| 47.5° | 461.7 | 468.6 | 475.5 | 480.1 | 482.5 | 484.8 | 487.2 | 489.6 |
| 50° | 448.5 | 455.7 | 463.1 | 467.9 | 470.2 | 472.6 | 474.9 | 477.2 |
| 52.5° | 434.2 | 441.7 | 449.1 | 454.1 | 456.6 | 459.1 | 461.7 | 464.2 |
| 55° | 412.7 | 420.5 | 428.2 | 433.4 | 436.2 | 438.9 | 441.8 | 444.5 |
| 57.5° | 390.1 | 398.4 | 406.7 | 412.3 | 415.1 | 417.9 | 420.8 | 423.6 |
| 60° | 375.1 | 383.2 | 391.4 | 397.0 | 399.9 | 402.9 | 406.0 | 409.0 |
| 62.5° | 359.2 | 367.9 | 376.5 | 382.3 | 385.0 | 387.9 | 390.7 | 393.5 |
| 65° | 335.1 | 343.8 | 352.6 | 358.4 | 361.2 | 363.9 | 366.7 | 369.5 |
| 67.5° | 310.6 | 319.4 | 328.3 | 334.2 | 337.1 | 340.0 | 342.9 | 345.8 |
| 70° | 293.6 | 302.7 | 312.0 | 317.8 | 320.4 | 323.0 | 325.6 | 328.1 |
| 72.5° | 277.1 | 286.1 | 295.1 | 301.1 | 304.3 | 307.4 | 310.4 | 313.5 |
| 75° | 252.2 | 261.4 | 270.6 | 276.5 | 279.4 | 282.1 | 284.9 | 287.7 |
| 77.5° | 227.9 | 237.0 | 246.2 | 252.2 | 255.2 | 258.3 | 261.2 | 264.2 |
| 80° | 211.3 | 220.4 | 229.3 | 235.4 | 238.3 | 241.3 | 244.3 | 247.3 |
| 82.5° | 196.0 | 204.9 | 214.0 | 219.8 | 222.6 | 225.5 | 228.3 | 231.1 |
| 85° | 173.8 | 182.9 | 191.8 | 197.7 | 200.8 | 203.8 | 206.8 | 209.7 |
| 87.5° | 158.2 | 166.8 | 175.5 | 181.3 | 184.0 | 186.7 | 189.5 | 192.3 |
| 90° | 158.7 | 167.0 | 175.4 | 180.9 | 183.6 | 186.2 | 188.9 | 191.5 |
| 92.5° | 150.5 | 158.9 | 167.3 | 172.9 | 175.4 | 178.0 | 180.6 | 183.1 |
| 95° | 154.2 | 162.4 | 170.5 | 175.7 | 178.1 | 180.5 | 182.9 | 185.2 |
| 97.5° | 164.2 | 172.0 | 179.9 | 185.2 | 187.7 | 190.2 | 192.7 | 195.2 |
| 100° | 171.0 | 178.9 | 186.8 | 191.9 | 194.2 | 196.4 | 198.7 | 201.0 |
| 102.5° | 179.4 | 187.2 | 195.0 | 200.1 | 202.4 | 204.6 | 206.8 | 209.1 |
| 105° | 192.0 | 199.7 | 207.4 | 212.4 | 214.7 | 217.1 | 219.4 | 221.8 |
| 107.5° | 206.5 | 213.8 | 221.0 | 225.6 | 227.5 | 229.4 | 231.3 | 233.3 |
| 110° | 216.7 | 223.6 | 230.5 | 234.9 | 237.0 | 239.0 | 241.1 | 243.2 |



TEST NUMBER: P331528-830

CATALOG NUMBER: S122DIW-S675D435U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 227.0 | 233.6 | 240.2 | 244.6 | 246.7 | 248.8 | 251.0 | 253.2 |
| 115° | 242.9 | 249.2 | 255.5 | 259.8 | 261.7 | 263.8 | 265.9 | 268.0 |
| 117.5° | 258.0 | 264.1 | 270.1 | 274.2 | 276.1 | 278.0 | 279.8 | 281.7 |
| 120° | 268.2 | 274.1 | 280.1 | 284.2 | 286.3 | 288.3 | 290.4 | 292.4 |
| 122.5° | 279.1 | 284.7 | 290.3 | 294.0 | 295.8 | 297.6 | 299.4 | 301.2 |
| 125° | 294.8 | 300.3 | 305.8 | 309.4 | 311.2 | 313.1 | 314.9 | 316.7 |
| 127.5° | 309.8 | 314.8 | 319.8 | 323.0 | 324.6 | 326.2 | 327.8 | 329.3 |
| 130° | 320.6 | 325.6 | 330.5 | 333.6 | 334.9 | 336.3 | 337.6 | 338.9 |
| 132.5° | 330.8 | 335.5 | 340.0 | 342.9 | 344.3 | 345.7 | 347.1 | 348.6 |
| 135° | 346.5 | 350.9 | 355.2 | 358.2 | 359.6 | 361.0 | 362.5 | 363.9 |
| 137.5° | 361.4 | 365.2 | 369.1 | 371.6 | 372.6 | 373.7 | 374.8 | 375.8 |
| 140° | 371.7 | 375.1 | 378.6 | 380.8 | 381.6 | 382.6 | 383.4 | 384.4 |
| 142.5° | 381.9 | 384.7 | 387.6 | 389.4 | 390.1 | 390.9 | 391.5 | 392.3 |
| 145° | 398.6 | 400.0 | 401.3 | 402.4 | 403.1 | 403.8 | 404.4 | 405.2 |
| 147.5° | 413.9 | 414.2 | 414.6 | 414.9 | 415.0 | 415.2 | 415.4 | 415.5 |
| 150° | 424.6 | 424.9 | 425.2 | 425.2 | 424.9 | 424.6 | 424.3 | 424.0 |
| 152.5° | 435.6 | 436.0 | 436.4 | 436.4 | 436.0 | 435.6 | 435.4 | 435.0 |
| 155° | 449.8 | 450.3 | 450.7 | 450.8 | 450.5 | 450.3 | 450.0 | 449.7 |
| 157.5° | 462.7 | 463.4 | 464.0 | 464.1 | 463.6 | 463.2 | 462.8 | 462.3 |
| 160° | 470.4 | 471.0 | 471.6 | 471.6 | 471.3 | 470.9 | 470.5 | 470.1 |
| 162.5° | 477.4 | 478.1 | 478.7 | 478.8 | 478.3 | 477.9 | 477.4 | 477.0 |
| 165° | 486.4 | 487.1 | 487.8 | 487.9 | 487.4 | 486.9 | 486.4 | 486.0 |
| 167.5° | 493.9 | 494.6 | 495.2 | 495.3 | 494.7 | 494.3 | 493.8 | 493.3 |
| 170° | 497.9 | 498.6 | 499.3 | 499.4 | 498.8 | 498.2 | 497.7 | 497.1 |
| 172.5° | 501.1 | 501.7 | 502.4 | 502.4 | 501.8 | 501.2 | 500.7 | 500.1 |
| 175° | 504.4 | 505.0 | 505.7 | 505.8 | 505.2 | 504.6 | 504.1 | 503.5 |
| 177.5° | 506.0 | 506.3 | 506.8 | 506.8 | 506.3 | 506.0 | 505.5 | 505.0 |
| 180° | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 | 506.1 |

(END OF REPORT)