

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: P331476-935

Luminaire Tested: **S122DIW-S290D710U935-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331476-935
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-S290D710U935-4F0-1E-UDD-F1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 710 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3154.9 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

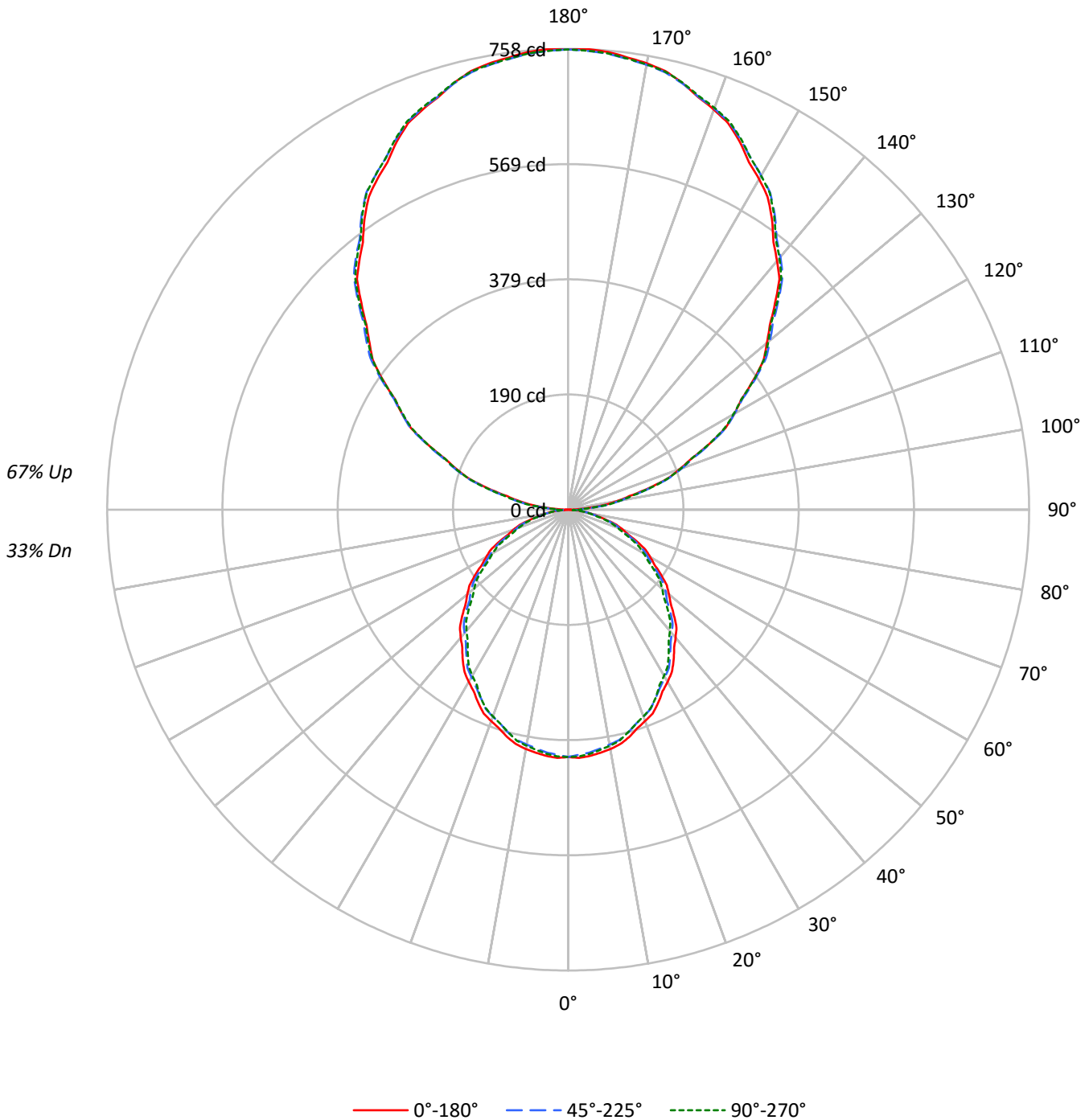
Input Watts (W): 30.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331476-935

CATALOG NUMBER: S122DIW-S290D710U935-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331476-935

CATALOG NUMBER: S122DIW-S290D710U935-4F0-1E-UDD-F1

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 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 56 | 56 | 56 | 40 | 40 | 40 | 33 |
| 1 | 94 | 90 | 86 | 82 | 84 | 81 | 78 | 75 | 65 | 62 | 60 | 50 | 48 | 47 | 36 | 35 | 34 | 28 |
| 2 | 85 | 78 | 72 | 67 | 77 | 71 | 66 | 61 | 57 | 53 | 50 | 43 | 41 | 39 | 31 | 30 | 29 | 23 |
| 3 | 78 | 69 | 62 | 56 | 70 | 62 | 56 | 51 | 50 | 46 | 42 | 38 | 35 | 33 | 28 | 26 | 24 | 20 |
| 4 | 71 | 61 | 53 | 47 | 64 | 55 | 48 | 43 | 44 | 39 | 36 | 34 | 31 | 28 | 25 | 23 | 21 | 17 |
| 5 | 65 | 54 | 46 | 40 | 59 | 49 | 42 | 37 | 39 | 34 | 31 | 31 | 27 | 24 | 22 | 20 | 18 | 15 |
| 6 | 60 | 48 | 40 | 35 | 54 | 44 | 37 | 32 | 35 | 30 | 27 | 28 | 24 | 21 | 20 | 18 | 16 | 13 |
| 7 | 55 | 44 | 36 | 30 | 50 | 40 | 33 | 28 | 32 | 27 | 23 | 25 | 21 | 19 | 18 | 16 | 14 | 11 |
| 8 | 51 | 39 | 32 | 27 | 46 | 36 | 29 | 25 | 29 | 24 | 21 | 23 | 19 | 17 | 17 | 15 | 13 | 10 |
| 9 | 48 | 36 | 29 | 24 | 43 | 33 | 26 | 22 | 27 | 22 | 18 | 21 | 17 | 15 | 16 | 13 | 11 | 9 |
| 10 | 45 | 33 | 26 | 21 | 40 | 30 | 24 | 20 | 25 | 20 | 16 | 19 | 16 | 13 | 14 | 12 | 10 | 8 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6567 | 6567 | 6567 |
| 5° | 6592 | 6498 | 6536 |
| 10° | 6555 | 6432 | 6465 |
| 15° | 6472 | 6349 | 6342 |
| 20° | 6357 | 6223 | 6216 |
| 25° | 6242 | 6070 | 6070 |
| 30° | 6096 | 5929 | 5876 |
| 35° | 5960 | 5757 | 5673 |
| 40° | 5788 | 5590 | 5482 |
| 45° | 5617 | 5421 | 5286 |
| 50° | 5433 | 5247 | 5061 |
| 55° | 5239 | 5044 | 4856 |
| 60° | 5028 | 4799 | 4624 |
| 65° | 4795 | 4558 | 4348 |
| 70° | 4504 | 4263 | 4060 |
| 75° | 4099 | 3924 | 3830 |
| 80° | 3636 | 3533 | 3347 |
| 85° | 2964 | 2816 | 2538 |



TEST NUMBER: P331476-935

CATALOG NUMBER: S122DIW-S290D710U935-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 38.3 | 1.2 |
| 10°-20° | 107.6 | 3.4 |
| 20°-30° | 158.2 | 5.0 |
| 30°-40° | 183.8 | 5.8 |
| 40°-50° | 183.6 | 5.8 |
| 50°-60° | 160.1 | 5.1 |
| 60°-70° | 118.4 | 3.8 |
| 70°-80° | 67.0 | 2.1 |
| 80°-90° | 21.0 | 0.7 |
| 90°-100° | 48.0 | 1.5 |
| 100°-110° | 149.0 | 4.7 |
| 110°-120° | 254.7 | 8.1 |
| 120°-130° | 334.9 | 10.6 |
| 130°-140° | 375.9 | 11.9 |
| 140°-150° | 368.6 | 11.7 |
| 150°-160° | 309.2 | 9.8 |
| 160°-170° | 205.1 | 6.5 |
| 170°-180° | 71.7 | 2.3 |
| 0°-30° | 304.1 | 9.6 |
| 0°-40° | 487.8 | 15.5 |
| 0°-60° | 831.5 | 26.4 |
| 0°-90° | 1037.9 | 32.9 |
| 90°-120° | 451.7 | 14.3 |
| 90°-150° | 1531.1 | 48.5 |
| 90°-180° | 2117.0 | 67.1 |
| 0°-180° | 3154.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 407 | 407 | 407 | 407 | 407 | |
| 5° | 407 | 405 | 401 | 404 | 403 | 39 |
| 15° | 387 | 385 | 380 | 381 | 379 | 109 |
| 25° | 350 | 347 | 341 | 341 | 341 | 161 |
| 35° | 302 | 298 | 292 | 290 | 288 | 189 |
| 45° | 246 | 243 | 237 | 233 | 232 | 190 |
| 55° | 186 | 184 | 179 | 175 | 172 | 166 |
| 65° | 126 | 123 | 119 | 116 | 114 | 124 |
| 75° | 66 | 65 | 63 | 61 | 61 | 70 |
| 85° | 16 | 16 | 15 | 14 | 14 | 18 |
| 90° | 1 | 9 | 22 | 21 | 22 | 3 |
| 95° | 33 | 39 | 41 | 41 | 40 | 38 |
| 105° | 137 | 139 | 141 | 142 | 142 | 145 |
| 115° | 256 | 259 | 258 | 257 | 256 | 253 |
| 125° | 372 | 377 | 376 | 374 | 373 | 332 |
| 135° | 481 | 488 | 489 | 489 | 487 | 372 |
| 145° | 584 | 588 | 592 | 593 | 590 | 365 |
| 155° | 668 | 670 | 672 | 674 | 673 | 307 |
| 165° | 726 | 726 | 726 | 730 | 727 | 205 |
| 175° | 756 | 754 | 753 | 757 | 753 | 72 |
| 180° | 757 | 757 | 757 | 757 | 757 | |



TEST NUMBER: P331476-935

CATALOG NUMBER: S122DIW-S290D710U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 406.7 | 406.7 | 406.7 | 406.7 | 406.7 | 406.7 | 406.7 | 406.7 | 406.7 | 406.7 | 406.7 |
| 2.5° | 408.6 | 408.3 | 407.9 | 407.6 | 407.3 | 406.7 | 406.0 | 405.2 | 404.4 | 403.6 | 404.3 |
| 5° | 406.7 | 406.4 | 406.0 | 405.7 | 405.4 | 404.8 | 403.8 | 402.9 | 401.8 | 400.9 | 401.6 |
| 7.5° | 403.2 | 402.6 | 402.1 | 401.6 | 401.1 | 400.3 | 399.3 | 398.3 | 397.4 | 396.4 | 397.1 |
| 10° | 399.8 | 399.2 | 398.6 | 398.0 | 397.3 | 396.5 | 395.5 | 394.4 | 393.4 | 392.3 | 393.0 |
| 12.5° | 395.0 | 394.5 | 394.0 | 393.4 | 392.9 | 392.1 | 391.1 | 390.0 | 389.0 | 388.0 | 388.4 |
| 15° | 387.2 | 386.7 | 386.2 | 385.6 | 385.1 | 384.4 | 383.1 | 382.0 | 380.9 | 379.8 | 380.1 |
| 17.5° | 377.2 | 376.7 | 376.2 | 375.7 | 375.1 | 374.3 | 373.2 | 372.0 | 370.8 | 369.7 | 370.1 |
| 20° | 370.0 | 369.5 | 368.9 | 368.4 | 367.9 | 367.0 | 365.8 | 364.6 | 363.4 | 362.2 | 362.5 |
| 22.5° | 362.8 | 362.1 | 361.4 | 360.6 | 359.9 | 359.0 | 357.8 | 356.6 | 355.5 | 354.4 | 354.4 |
| 25° | 350.4 | 349.7 | 349.0 | 348.4 | 347.7 | 346.6 | 345.1 | 343.6 | 342.2 | 340.7 | 340.9 |
| 27.5° | 336.4 | 335.8 | 335.1 | 334.5 | 333.9 | 332.9 | 331.8 | 330.6 | 329.5 | 328.3 | 328.0 |
| 30° | 327.0 | 326.3 | 325.6 | 324.9 | 324.2 | 323.2 | 321.9 | 320.6 | 319.3 | 318.0 | 317.7 |
| 32.5° | 316.9 | 316.4 | 315.9 | 315.3 | 314.8 | 313.7 | 312.4 | 311.1 | 309.7 | 308.3 | 307.8 |
| 35° | 302.4 | 301.4 | 300.6 | 299.7 | 298.9 | 297.7 | 296.4 | 295.0 | 293.6 | 292.1 | 291.6 |
| 37.5° | 285.9 | 285.1 | 284.3 | 283.5 | 282.8 | 281.7 | 280.3 | 279.0 | 277.5 | 276.1 | 275.5 |
| 40° | 274.6 | 273.9 | 273.2 | 272.5 | 271.8 | 270.8 | 269.3 | 267.9 | 266.6 | 265.2 | 264.4 |
| 42.5° | 263.6 | 262.9 | 262.3 | 261.6 | 260.9 | 259.8 | 258.4 | 257.0 | 255.6 | 254.3 | 253.4 |
| 45° | 246.0 | 245.4 | 244.8 | 244.2 | 243.6 | 242.6 | 241.3 | 240.0 | 238.8 | 237.4 | 236.4 |
| 47.5° | 228.5 | 227.9 | 227.4 | 226.8 | 226.2 | 225.2 | 223.9 | 222.6 | 221.2 | 219.8 | 218.8 |
| 50° | 216.3 | 215.9 | 215.4 | 215.0 | 214.6 | 213.7 | 212.5 | 211.3 | 210.1 | 208.9 | 207.7 |
| 52.5° | 204.4 | 203.8 | 203.3 | 202.7 | 202.1 | 201.2 | 200.1 | 199.0 | 197.8 | 196.7 | 195.6 |
| 55° | 186.1 | 185.6 | 185.1 | 184.6 | 184.1 | 183.3 | 182.3 | 181.2 | 180.2 | 179.2 | 178.1 |
| 57.5° | 167.9 | 167.5 | 167.0 | 166.6 | 166.2 | 165.4 | 164.3 | 163.2 | 162.0 | 160.8 | 159.8 |
| 60° | 155.7 | 155.3 | 155.0 | 154.6 | 154.3 | 153.5 | 152.3 | 151.1 | 149.8 | 148.6 | 147.7 |
| 62.5° | 143.8 | 143.2 | 142.7 | 142.2 | 141.5 | 140.8 | 139.8 | 139.0 | 138.0 | 137.1 | 136.1 |
| 65° | 125.5 | 125.0 | 124.5 | 124.0 | 123.5 | 122.8 | 121.9 | 121.1 | 120.2 | 119.3 | 118.5 |
| 67.5° | 107.0 | 106.6 | 106.2 | 105.7 | 105.4 | 104.8 | 103.9 | 103.1 | 102.4 | 101.6 | 101.0 |
| 70° | 95.4 | 95.1 | 94.7 | 94.4 | 94.0 | 93.5 | 92.7 | 92.0 | 91.1 | 90.3 | 89.7 |
| 72.5° | 83.5 | 83.2 | 82.8 | 82.5 | 82.1 | 81.7 | 81.2 | 80.8 | 80.2 | 79.7 | 79.1 |
| 75° | 65.7 | 65.5 | 65.3 | 65.2 | 65.0 | 64.7 | 64.3 | 63.8 | 63.4 | 62.9 | 62.4 |
| 77.5° | 49.8 | 49.4 | 49.2 | 48.9 | 48.6 | 48.3 | 48.1 | 48.0 | 47.8 | 47.6 | 47.4 |
| 80° | 39.1 | 39.0 | 38.9 | 38.8 | 38.7 | 38.7 | 38.5 | 38.3 | 38.1 | 38.0 | 37.7 |
| 82.5° | 29.1 | 29.1 | 29.1 | 29.0 | 29.0 | 28.9 | 28.8 | 28.8 | 28.7 | 28.6 | 28.2 |
| 85° | 16.0 | 15.9 | 15.8 | 15.8 | 15.7 | 15.6 | 15.5 | 15.4 | 15.3 | 15.2 | 15.0 |
| 87.5° | 5.8 | 5.9 | 6.2 | 6.4 | 6.5 | 6.9 | 7.4 | 7.9 | 8.4 | 8.9 | 8.6 |
| 90° | 0.6 | 2.3 | 4.0 | 5.8 | 7.5 | 9.9 | 13.0 | 16.1 | 19.2 | 22.4 | 22.0 |
| 92.5° | 11.4 | 12.7 | 13.9 | 15.2 | 16.4 | 17.4 | 18.1 | 18.9 | 19.5 | 20.3 | 20.4 |
| 95° | 33.2 | 34.6 | 36.1 | 37.5 | 38.9 | 39.8 | 40.0 | 40.3 | 40.6 | 40.9 | 40.9 |
| 97.5° | 60.7 | 61.9 | 63.2 | 64.4 | 65.7 | 66.6 | 67.2 | 67.7 | 68.2 | 68.7 | 68.7 |
| 100° | 81.1 | 82.3 | 83.4 | 84.6 | 85.7 | 86.4 | 86.9 | 87.3 | 87.7 | 88.2 | 88.2 |
| 102.5° | 102.6 | 103.5 | 104.4 | 105.3 | 106.2 | 106.9 | 107.5 | 108.1 | 108.6 | 109.1 | 109.3 |
| 105° | 137.3 | 137.8 | 138.2 | 138.6 | 139.1 | 139.4 | 139.7 | 140.0 | 140.3 | 140.6 | 140.9 |
| 107.5° | 172.4 | 173.0 | 173.7 | 174.3 | 174.9 | 175.2 | 175.2 | 175.2 | 175.2 | 175.2 | 175.3 |
| 110° | 194.8 | 195.7 | 196.6 | 197.4 | 198.3 | 198.7 | 198.7 | 198.7 | 198.7 | 198.7 | 198.7 |



TEST NUMBER: P331476-935

CATALOG NUMBER: S122DIW-S290D710U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 219.4 | 220.2 | 221.1 | 222.0 | 222.8 | 223.2 | 223.1 | 222.9 | 222.8 | 222.7 | 222.4 |
| 115° | 255.5 | 256.4 | 257.3 | 258.1 | 259.0 | 259.2 | 259.0 | 258.6 | 258.4 | 258.1 | 258.0 |
| 117.5° | 291.6 | 292.7 | 293.9 | 295.0 | 296.1 | 296.3 | 295.5 | 294.7 | 293.9 | 293.2 | 292.8 |
| 120° | 315.6 | 316.8 | 317.9 | 319.0 | 320.1 | 320.1 | 319.0 | 317.9 | 316.8 | 315.6 | 315.6 |
| 122.5° | 337.6 | 339.0 | 340.4 | 341.6 | 343.0 | 343.4 | 342.5 | 341.7 | 341.0 | 340.2 | 339.8 |
| 125° | 371.9 | 373.2 | 374.4 | 375.7 | 376.9 | 377.4 | 376.9 | 376.5 | 376.1 | 375.7 | 375.2 |
| 127.5° | 405.2 | 406.8 | 408.5 | 410.0 | 411.6 | 412.2 | 411.7 | 411.2 | 410.7 | 410.2 | 409.7 |
| 130° | 426.1 | 428.0 | 429.8 | 431.7 | 433.5 | 434.3 | 434.0 | 433.8 | 433.4 | 433.2 | 432.9 |
| 132.5° | 449.7 | 451.2 | 452.7 | 454.2 | 455.6 | 456.5 | 456.5 | 456.6 | 456.7 | 456.7 | 456.1 |
| 135° | 481.1 | 482.7 | 484.2 | 485.8 | 487.3 | 488.3 | 488.5 | 488.9 | 489.1 | 489.4 | 489.2 |
| 137.5° | 514.2 | 515.5 | 516.8 | 518.1 | 519.3 | 520.1 | 520.5 | 520.9 | 521.2 | 521.6 | 521.5 |
| 140° | 534.2 | 535.4 | 536.7 | 538.0 | 539.2 | 540.2 | 541.0 | 541.7 | 542.3 | 543.0 | 543.0 |
| 142.5° | 554.6 | 555.9 | 557.2 | 558.4 | 559.6 | 560.6 | 561.0 | 561.5 | 562.0 | 562.5 | 562.6 |
| 145° | 583.9 | 585.0 | 585.9 | 586.9 | 588.0 | 588.8 | 589.7 | 590.6 | 591.4 | 592.3 | 592.4 |
| 147.5° | 610.2 | 611.3 | 612.5 | 613.7 | 614.9 | 615.8 | 616.4 | 616.9 | 617.5 | 618.1 | 618.4 |
| 150° | 628.0 | 628.9 | 629.7 | 630.6 | 631.5 | 632.1 | 632.7 | 633.3 | 633.9 | 634.5 | 634.9 |
| 152.5° | 643.9 | 644.7 | 645.6 | 646.4 | 647.3 | 648.1 | 648.8 | 649.5 | 650.1 | 650.8 | 651.3 |
| 155° | 667.6 | 668.0 | 668.5 | 668.9 | 669.3 | 669.8 | 670.2 | 670.6 | 671.1 | 671.5 | 672.2 |
| 157.5° | 687.9 | 688.3 | 688.5 | 688.8 | 689.1 | 689.4 | 689.7 | 689.9 | 690.2 | 690.4 | 691.4 |
| 160° | 700.3 | 700.5 | 700.8 | 701.1 | 701.4 | 701.6 | 701.7 | 701.9 | 702.0 | 702.1 | 703.0 |
| 162.5° | 711.4 | 711.5 | 711.6 | 711.6 | 711.7 | 711.8 | 712.0 | 712.1 | 712.2 | 712.4 | 713.3 |
| 165° | 726.4 | 726.3 | 726.2 | 726.0 | 725.9 | 725.8 | 725.8 | 725.8 | 725.8 | 725.8 | 726.8 |
| 167.5° | 739.0 | 738.6 | 738.1 | 737.7 | 737.3 | 737.0 | 737.0 | 736.9 | 736.9 | 736.9 | 737.9 |
| 170° | 745.6 | 745.2 | 744.8 | 744.3 | 743.9 | 743.6 | 743.5 | 743.3 | 743.2 | 743.0 | 744.1 |
| 172.5° | 750.2 | 749.8 | 749.3 | 748.9 | 748.5 | 748.2 | 748.0 | 748.0 | 747.8 | 747.6 | 748.6 |
| 175° | 755.8 | 755.4 | 755.0 | 754.6 | 754.1 | 753.8 | 753.5 | 753.2 | 752.9 | 752.6 | 753.6 |
| 177.5° | 758.1 | 757.8 | 757.4 | 757.1 | 756.7 | 756.5 | 756.2 | 756.0 | 755.8 | 755.5 | 756.2 |
| 180° | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 |



TEST NUMBER: P331476-935

CATALOG NUMBER: S122DIW-S290D710U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 406.7 | 406.7 | 406.7 | 406.7 | 406.7 | 406.7 | 406.7 | 406.7 |
| 2.5° | 405.0 | 405.7 | 406.4 | 406.7 | 406.6 | 406.4 | 406.3 | 406.1 |
| 5° | 402.3 | 403.0 | 403.7 | 404.0 | 403.8 | 403.6 | 403.5 | 403.3 |
| 7.5° | 397.8 | 398.5 | 399.2 | 399.4 | 399.2 | 399.0 | 398.8 | 398.6 |
| 10° | 393.7 | 394.4 | 395.1 | 395.3 | 395.0 | 394.8 | 394.5 | 394.3 |
| 12.5° | 388.9 | 389.3 | 389.9 | 390.0 | 389.9 | 389.6 | 389.4 | 389.3 |
| 15° | 380.5 | 380.8 | 381.2 | 381.2 | 380.7 | 380.3 | 379.9 | 379.4 |
| 17.5° | 370.5 | 370.9 | 371.3 | 371.3 | 370.8 | 370.5 | 370.1 | 369.6 |
| 20° | 362.7 | 363.0 | 363.3 | 363.2 | 362.8 | 362.5 | 362.1 | 361.8 |
| 22.5° | 354.5 | 354.6 | 354.6 | 354.5 | 354.3 | 354.0 | 353.9 | 353.7 |
| 25° | 341.0 | 341.2 | 341.4 | 341.4 | 341.2 | 341.0 | 340.9 | 340.7 |
| 27.5° | 327.8 | 327.5 | 327.3 | 326.9 | 326.5 | 326.1 | 325.7 | 325.3 |
| 30° | 317.5 | 317.2 | 316.9 | 316.7 | 316.3 | 316.0 | 315.6 | 315.2 |
| 32.5° | 307.4 | 306.9 | 306.4 | 306.0 | 305.7 | 305.3 | 305.0 | 304.6 |
| 35° | 291.1 | 290.6 | 290.1 | 289.6 | 289.2 | 288.8 | 288.3 | 287.8 |
| 37.5° | 274.8 | 274.2 | 273.5 | 273.0 | 272.6 | 272.2 | 271.8 | 271.4 |
| 40° | 263.6 | 262.9 | 262.1 | 261.5 | 261.1 | 260.8 | 260.5 | 260.1 |
| 42.5° | 252.5 | 251.7 | 250.8 | 250.1 | 249.7 | 249.2 | 248.7 | 248.2 |
| 45° | 235.5 | 234.5 | 233.6 | 232.9 | 232.6 | 232.2 | 231.9 | 231.5 |
| 47.5° | 217.8 | 216.8 | 215.8 | 215.0 | 214.6 | 214.0 | 213.5 | 213.0 |
| 50° | 206.5 | 205.2 | 204.0 | 203.2 | 202.8 | 202.3 | 201.9 | 201.5 |
| 52.5° | 194.7 | 193.6 | 192.6 | 191.8 | 191.2 | 190.7 | 190.1 | 189.5 |
| 55° | 177.0 | 176.0 | 175.0 | 174.3 | 173.8 | 173.3 | 172.9 | 172.5 |
| 57.5° | 158.8 | 157.7 | 156.7 | 156.0 | 155.8 | 155.4 | 155.1 | 154.7 |
| 60° | 146.7 | 145.8 | 144.8 | 144.2 | 144.0 | 143.7 | 143.4 | 143.2 |
| 62.5° | 135.3 | 134.4 | 133.5 | 132.9 | 132.6 | 132.2 | 131.9 | 131.6 |
| 65° | 117.7 | 116.9 | 116.1 | 115.5 | 115.1 | 114.7 | 114.3 | 113.8 |
| 67.5° | 100.4 | 99.8 | 99.2 | 98.7 | 98.3 | 98.0 | 97.6 | 97.3 |
| 70° | 89.1 | 88.5 | 87.9 | 87.5 | 87.1 | 86.7 | 86.4 | 86.0 |
| 72.5° | 78.5 | 77.9 | 77.3 | 76.8 | 76.5 | 76.3 | 76.0 | 75.7 |
| 75° | 61.9 | 61.4 | 60.9 | 60.7 | 60.9 | 61.0 | 61.2 | 61.4 |
| 77.5° | 47.1 | 46.8 | 46.6 | 46.3 | 46.1 | 45.9 | 45.6 | 45.4 |
| 80° | 37.5 | 37.2 | 36.9 | 36.7 | 36.5 | 36.3 | 36.2 | 36.0 |
| 82.5° | 27.9 | 27.6 | 27.2 | 27.0 | 27.0 | 26.9 | 26.9 | 26.9 |
| 85° | 14.7 | 14.5 | 14.2 | 14.0 | 13.9 | 13.9 | 13.8 | 13.7 |
| 87.5° | 8.4 | 8.1 | 7.7 | 7.7 | 7.6 | 7.6 | 7.5 | 7.5 |
| 90° | 21.8 | 21.5 | 21.3 | 21.2 | 21.3 | 21.4 | 21.6 | 21.7 |
| 92.5° | 20.4 | 20.5 | 20.6 | 20.6 | 20.6 | 20.7 | 20.7 | 20.7 |
| 95° | 40.9 | 40.9 | 40.9 | 40.7 | 40.5 | 40.2 | 39.9 | 39.6 |
| 97.5° | 68.7 | 68.7 | 68.7 | 68.7 | 68.7 | 68.7 | 68.6 | 68.6 |
| 100° | 88.2 | 88.2 | 88.2 | 88.1 | 88.0 | 87.8 | 87.6 | 87.6 |
| 102.5° | 109.3 | 109.4 | 109.6 | 109.6 | 109.4 | 109.3 | 109.2 | 109.0 |
| 105° | 141.1 | 141.4 | 141.7 | 141.8 | 141.8 | 141.8 | 141.8 | 141.8 |
| 107.5° | 175.4 | 175.6 | 175.6 | 175.4 | 174.7 | 174.1 | 173.4 | 172.8 |
| 110° | 198.7 | 198.7 | 198.7 | 198.5 | 198.0 | 197.6 | 197.2 | 196.8 |



TEST NUMBER: P331476-935

CATALOG NUMBER: S122DIW-S290D710U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 222.1 | 221.7 | 221.4 | 221.0 | 220.8 | 220.4 | 220.1 | 219.8 |
| 115° | 257.9 | 257.7 | 257.5 | 257.3 | 256.8 | 256.4 | 256.0 | 255.5 |
| 117.5° | 292.5 | 292.1 | 291.8 | 291.4 | 290.9 | 290.5 | 290.1 | 289.6 |
| 120° | 315.6 | 315.6 | 315.6 | 315.4 | 315.0 | 314.5 | 314.1 | 313.7 |
| 122.5° | 339.5 | 339.1 | 338.8 | 338.5 | 338.1 | 337.9 | 337.5 | 337.3 |
| 125° | 374.8 | 374.4 | 373.9 | 373.7 | 373.6 | 373.4 | 373.2 | 373.2 |
| 127.5° | 409.1 | 408.6 | 408.1 | 407.7 | 407.2 | 406.7 | 406.3 | 405.9 |
| 130° | 432.7 | 432.3 | 432.0 | 431.6 | 431.0 | 430.5 | 429.9 | 429.4 |
| 132.5° | 455.5 | 454.8 | 454.2 | 453.7 | 453.2 | 452.7 | 452.3 | 451.9 |
| 135° | 489.1 | 489.0 | 488.9 | 488.5 | 488.1 | 487.7 | 487.2 | 486.8 |
| 137.5° | 521.3 | 521.2 | 521.2 | 520.8 | 520.2 | 519.7 | 519.1 | 518.5 |
| 140° | 543.0 | 543.0 | 543.0 | 542.8 | 542.3 | 541.7 | 541.1 | 540.5 |
| 142.5° | 562.7 | 562.8 | 562.9 | 562.7 | 562.1 | 561.5 | 561.0 | 560.4 |
| 145° | 592.5 | 592.7 | 592.8 | 592.6 | 592.0 | 591.5 | 590.9 | 590.4 |
| 147.5° | 618.7 | 619.0 | 619.3 | 619.2 | 618.7 | 618.1 | 617.6 | 617.1 |
| 150° | 635.2 | 635.7 | 636.1 | 636.1 | 635.7 | 635.2 | 634.9 | 634.5 |
| 152.5° | 651.9 | 652.4 | 653.0 | 653.0 | 652.4 | 651.9 | 651.3 | 650.8 |
| 155° | 672.9 | 673.6 | 674.3 | 674.5 | 674.1 | 673.6 | 673.2 | 672.8 |
| 157.5° | 692.3 | 693.3 | 694.2 | 694.4 | 693.7 | 693.0 | 692.3 | 691.6 |
| 160° | 703.9 | 704.7 | 705.6 | 705.7 | 705.2 | 704.6 | 704.0 | 703.4 |
| 162.5° | 714.3 | 715.3 | 716.3 | 716.4 | 715.7 | 715.1 | 714.4 | 713.7 |
| 165° | 727.8 | 728.8 | 729.8 | 730.0 | 729.2 | 728.5 | 727.8 | 727.1 |
| 167.5° | 738.9 | 739.9 | 740.9 | 741.0 | 740.3 | 739.5 | 738.8 | 738.0 |
| 170° | 745.0 | 746.1 | 747.0 | 747.1 | 746.2 | 745.4 | 744.5 | 743.6 |
| 172.5° | 749.7 | 750.6 | 751.7 | 751.7 | 750.9 | 750.0 | 749.2 | 748.3 |
| 175° | 754.6 | 755.6 | 756.6 | 756.6 | 755.8 | 755.0 | 754.1 | 753.3 |
| 177.5° | 756.9 | 757.6 | 758.3 | 758.3 | 757.6 | 756.9 | 756.2 | 755.5 |
| 180° | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 |

(END OF REPORT)