

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: P331631

Luminaire Tested: **S122RDIP-S290D725U835-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331631
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: S122RDIP-S290D725U835-4F0-1E-UDD-F1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 725 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3626.1 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

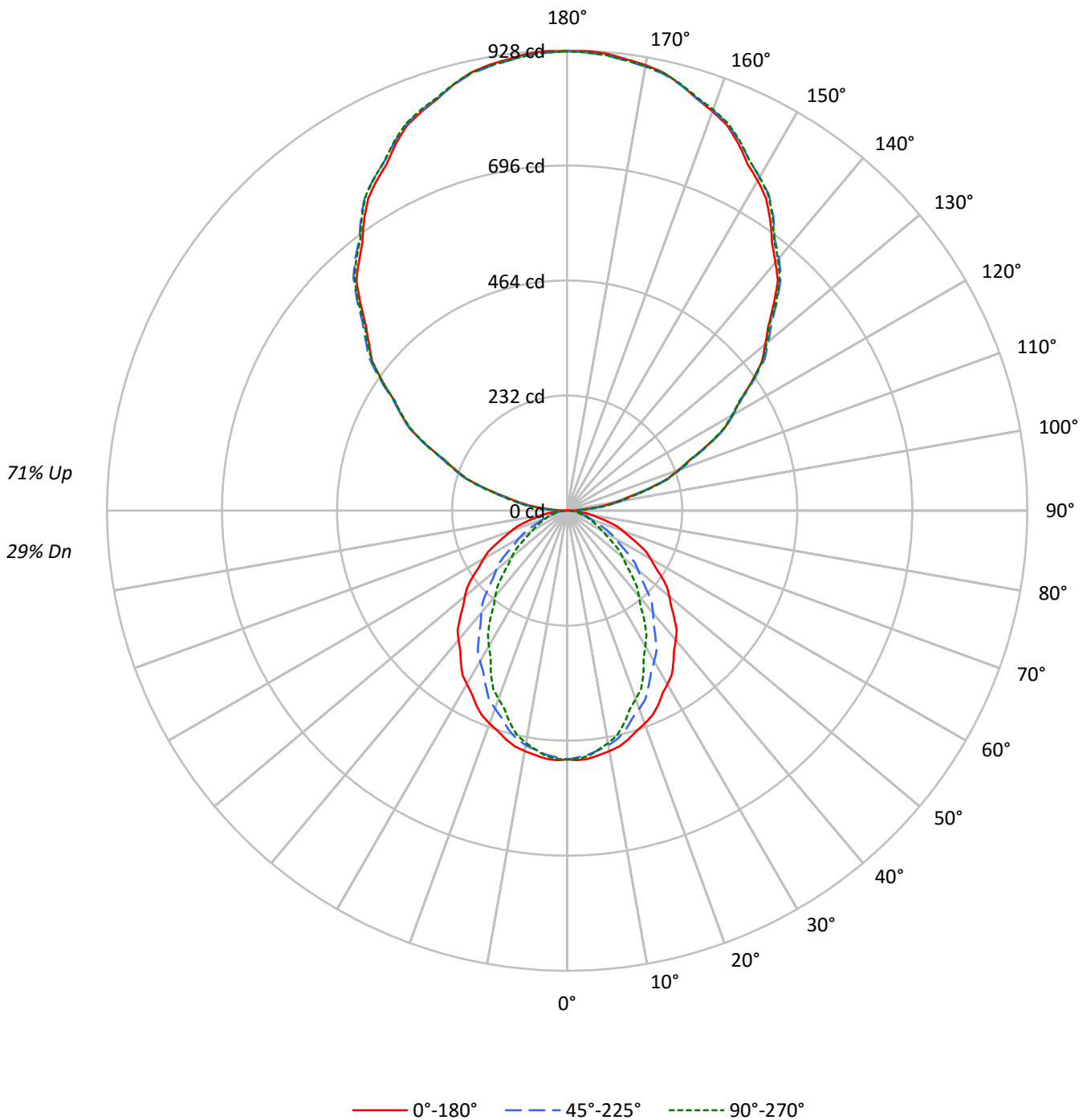
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331631

CATALOG NUMBER: S122RDIP-S290D725U835-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331631

CATALOG NUMBER: S122RDIP-S290D725U835-4F0-1E-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 | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 53 | 53 | 53 | 36 | 36 | 36 | 29 |
| 1 | 93 | 89 | 85 | 82 | 83 | 80 | 77 | 74 | 63 | 61 | 59 | 47 | 46 | 45 | 33 | 32 | 31 | 25 |
| 2 | 85 | 78 | 72 | 67 | 76 | 70 | 65 | 61 | 55 | 52 | 49 | 42 | 40 | 38 | 29 | 28 | 27 | 21 |
| 3 | 78 | 69 | 62 | 56 | 69 | 62 | 56 | 51 | 49 | 45 | 42 | 37 | 34 | 32 | 26 | 24 | 23 | 18 |
| 4 | 71 | 61 | 54 | 48 | 64 | 55 | 49 | 44 | 44 | 39 | 36 | 33 | 30 | 28 | 23 | 21 | 20 | 16 |
| 5 | 65 | 54 | 47 | 41 | 58 | 49 | 42 | 38 | 39 | 34 | 31 | 30 | 27 | 24 | 21 | 19 | 18 | 14 |
| 6 | 60 | 49 | 41 | 35 | 54 | 44 | 37 | 33 | 35 | 30 | 27 | 27 | 24 | 21 | 19 | 17 | 16 | 12 |
| 7 | 56 | 44 | 36 | 31 | 50 | 40 | 33 | 29 | 32 | 27 | 24 | 25 | 21 | 19 | 18 | 16 | 14 | 11 |
| 8 | 51 | 40 | 32 | 27 | 46 | 36 | 30 | 25 | 29 | 24 | 21 | 22 | 19 | 17 | 16 | 14 | 13 | 10 |
| 9 | 48 | 36 | 29 | 24 | 43 | 33 | 27 | 22 | 27 | 22 | 19 | 21 | 17 | 15 | 15 | 13 | 11 | 9 |
| 10 | 45 | 33 | 26 | 22 | 40 | 30 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 14 | 14 | 12 | 10 | 8 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8105 | 8105 | 8105 |
| 5° | 8136 | 8003 | 8047 |
| 10° | 8073 | 7873 | 7806 |
| 15° | 7980 | 7639 | 7418 |
| 20° | 7852 | 7306 | 6940 |
| 25° | 7721 | 6928 | 6474 |
| 30° | 7538 | 6538 | 5878 |
| 35° | 7360 | 6116 | 5355 |
| 40° | 7181 | 5678 | 4749 |
| 45° | 6971 | 5186 | 4201 |
| 50° | 6754 | 4690 | 3662 |
| 55° | 6533 | 4155 | 3147 |
| 60° | 6278 | 3594 | 2612 |
| 65° | 5987 | 3018 | 2376 |
| 70° | 5641 | 2488 | 2186 |
| 75° | 5215 | 2264 | 2040 |
| 80° | 4603 | 2027 | 1860 |
| 85° | 3612 | 1593 | 1593 |



TEST NUMBER: P331631

CATALOG NUMBER: S122RDIP-S290D725U835-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 47.0 | 1.3 |
| 10°-20° | 129.0 | 3.6 |
| 20°-30° | 181.2 | 5.0 |
| 30°-40° | 197.6 | 5.4 |
| 40°-50° | 181.6 | 5.0 |
| 50°-60° | 142.7 | 3.9 |
| 60°-70° | 93.0 | 2.6 |
| 70°-80° | 48.0 | 1.3 |
| 80°-90° | 16.1 | 0.4 |
| 90°-100° | 58.7 | 1.6 |
| 100°-110° | 182.3 | 5.0 |
| 110°-120° | 311.6 | 8.6 |
| 120°-130° | 409.8 | 11.3 |
| 130°-140° | 459.9 | 12.7 |
| 140°-150° | 450.9 | 12.4 |
| 150°-160° | 378.2 | 10.4 |
| 160°-170° | 250.9 | 6.9 |
| 170°-180° | 87.7 | 2.4 |
| 0°-30° | 357.2 | 9.8 |
| 0°-40° | 554.7 | 15.3 |
| 0°-60° | 879.0 | 24.2 |
| 0°-90° | 1036.1 | 28.6 |
| 90°-120° | 552.6 | 15.2 |
| 90°-150° | 1873.2 | 51.7 |
| 90°-180° | 2590.0 | 71.4 |
| 0°-180° | 3626.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 502 | 502 | 502 | 502 | 502 | |
| 5° | 502 | 500 | 494 | 498 | 496 | 48 |
| 15° | 477 | 472 | 457 | 449 | 444 | 134 |
| 25° | 433 | 418 | 389 | 371 | 363 | 199 |
| 35° | 373 | 349 | 310 | 283 | 272 | 234 |
| 45° | 305 | 274 | 227 | 196 | 184 | 236 |
| 55° | 232 | 196 | 148 | 121 | 112 | 207 |
| 65° | 157 | 120 | 79 | 64 | 62 | 155 |
| 75° | 84 | 53 | 36 | 33 | 33 | 88 |
| 85° | 20 | 10 | 9 | 9 | 9 | 23 |
| 90° | 1 | 11 | 27 | 26 | 27 | 3 |
| 95° | 41 | 48 | 50 | 50 | 48 | 47 |
| 105° | 168 | 170 | 172 | 173 | 174 | 177 |
| 115° | 313 | 317 | 316 | 315 | 313 | 309 |
| 125° | 455 | 461 | 460 | 457 | 456 | 406 |
| 135° | 589 | 597 | 599 | 598 | 596 | 454 |
| 145° | 714 | 720 | 725 | 725 | 722 | 446 |
| 155° | 817 | 819 | 822 | 825 | 823 | 376 |
| 165° | 889 | 888 | 888 | 893 | 890 | 251 |
| 175° | 925 | 922 | 921 | 926 | 922 | 88 |
| 180° | 926 | 926 | 926 | 926 | 926 | |



TEST NUMBER: P331631

CATALOG NUMBER: S122RDIP-S290D725U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 502.0 | 502.0 | 502.0 | 502.0 | 502.0 | 502.0 | 502.0 | 502.0 | 502.0 | 502.0 | 502.0 |
| 2.5° | 503.8 | 503.4 | 503.0 | 502.6 | 502.2 | 501.5 | 500.6 | 499.8 | 498.9 | 498.0 | 498.8 |
| 5° | 502.0 | 501.5 | 501.0 | 500.5 | 500.0 | 499.0 | 497.7 | 496.4 | 495.1 | 493.8 | 494.7 |
| 7.5° | 496.8 | 496.2 | 495.5 | 494.9 | 494.3 | 493.2 | 491.7 | 490.1 | 488.6 | 487.1 | 487.3 |
| 10° | 492.4 | 491.7 | 491.0 | 490.3 | 489.6 | 488.2 | 486.2 | 484.2 | 482.2 | 480.2 | 479.9 |
| 12.5° | 487.0 | 486.1 | 485.2 | 484.4 | 483.5 | 481.8 | 479.2 | 476.6 | 474.0 | 471.4 | 470.9 |
| 15° | 477.4 | 476.3 | 475.2 | 474.1 | 473.0 | 470.7 | 467.3 | 463.9 | 460.4 | 457.0 | 455.1 |
| 17.5° | 465.7 | 464.0 | 462.3 | 460.6 | 458.9 | 455.9 | 451.5 | 447.1 | 442.7 | 438.3 | 436.0 |
| 20° | 457.0 | 455.0 | 453.0 | 450.9 | 448.9 | 445.4 | 440.3 | 435.3 | 430.3 | 425.2 | 422.7 |
| 22.5° | 447.6 | 445.3 | 443.0 | 440.8 | 438.5 | 434.5 | 428.8 | 423.1 | 417.5 | 411.8 | 408.5 |
| 25° | 433.4 | 430.1 | 426.9 | 423.7 | 420.5 | 415.5 | 408.8 | 402.2 | 395.5 | 388.9 | 384.7 |
| 27.5° | 416.3 | 412.8 | 409.3 | 405.8 | 402.2 | 396.7 | 389.2 | 381.7 | 374.2 | 366.7 | 361.9 |
| 30° | 404.3 | 400.5 | 396.6 | 392.8 | 389.0 | 383.0 | 374.9 | 366.9 | 358.8 | 350.7 | 345.6 |
| 32.5° | 392.7 | 388.2 | 383.7 | 379.2 | 374.7 | 368.4 | 360.2 | 351.9 | 343.7 | 335.4 | 329.6 |
| 35° | 373.4 | 368.3 | 363.1 | 358.0 | 352.8 | 345.8 | 336.9 | 328.0 | 319.2 | 310.3 | 303.9 |
| 37.5° | 354.2 | 348.5 | 342.8 | 337.2 | 331.5 | 324.0 | 314.5 | 305.0 | 295.6 | 286.1 | 279.1 |
| 40° | 340.7 | 334.7 | 328.6 | 322.5 | 316.5 | 308.6 | 298.8 | 289.0 | 279.2 | 269.4 | 262.2 |
| 42.5° | 326.9 | 320.5 | 314.1 | 307.8 | 301.4 | 293.1 | 283.0 | 272.9 | 262.8 | 252.7 | 245.3 |
| 45° | 305.3 | 298.5 | 291.7 | 285.0 | 278.2 | 269.5 | 258.9 | 248.3 | 237.7 | 227.1 | 220.0 |
| 47.5° | 284.2 | 277.0 | 269.9 | 262.7 | 255.5 | 246.5 | 235.5 | 224.6 | 213.6 | 202.7 | 195.6 |
| 50° | 268.9 | 261.8 | 254.6 | 247.4 | 240.3 | 231.1 | 220.0 | 208.9 | 197.8 | 186.7 | 179.7 |
| 52.5° | 254.0 | 246.5 | 239.1 | 231.6 | 224.1 | 214.9 | 204.0 | 193.2 | 182.3 | 171.4 | 164.7 |
| 55° | 232.1 | 224.3 | 216.4 | 208.5 | 200.6 | 191.3 | 180.3 | 169.4 | 158.5 | 147.6 | 141.6 |
| 57.5° | 209.7 | 201.6 | 193.5 | 185.5 | 177.4 | 168.1 | 157.6 | 147.2 | 136.7 | 126.2 | 120.6 |
| 60° | 194.4 | 186.4 | 178.3 | 170.2 | 162.1 | 152.9 | 142.5 | 132.1 | 121.7 | 111.3 | 106.1 |
| 62.5° | 179.5 | 171.5 | 163.4 | 155.3 | 147.2 | 138.2 | 128.3 | 118.4 | 108.5 | 98.6 | 93.7 |
| 65° | 156.7 | 148.5 | 140.4 | 132.2 | 124.0 | 115.4 | 106.3 | 97.2 | 88.1 | 79.0 | 75.6 |
| 67.5° | 134.7 | 126.6 | 118.5 | 110.4 | 102.3 | 94.1 | 85.9 | 77.8 | 69.6 | 61.4 | 59.8 |
| 70° | 119.5 | 111.6 | 103.7 | 95.9 | 88.0 | 80.6 | 73.6 | 66.6 | 59.7 | 52.7 | 51.7 |
| 72.5° | 104.9 | 97.4 | 89.8 | 82.3 | 74.7 | 68.2 | 62.6 | 57.0 | 51.4 | 45.8 | 44.9 |
| 75° | 83.6 | 76.5 | 69.5 | 62.4 | 55.3 | 50.1 | 46.6 | 43.2 | 39.8 | 36.3 | 35.6 |
| 77.5° | 62.6 | 56.4 | 50.2 | 44.0 | 37.8 | 33.9 | 32.2 | 30.6 | 28.9 | 27.3 | 26.9 |
| 80° | 49.5 | 44.4 | 39.2 | 34.1 | 28.9 | 25.8 | 24.8 | 23.8 | 22.8 | 21.8 | 21.4 |
| 82.5° | 37.5 | 33.5 | 29.5 | 25.5 | 21.5 | 19.1 | 18.4 | 17.7 | 17.0 | 16.4 | 16.1 |
| 85° | 19.5 | 17.4 | 15.3 | 13.2 | 11.1 | 9.8 | 9.5 | 9.2 | 8.9 | 8.6 | 8.6 |
| 87.5° | 6.0 | 5.7 | 5.5 | 5.3 | 5.1 | 5.3 | 6.1 | 6.9 | 7.6 | 8.4 | 8.2 |
| 90° | 0.8 | 2.9 | 5.0 | 7.0 | 9.1 | 12.1 | 15.9 | 19.7 | 23.5 | 27.4 | 27.0 |
| 92.5° | 13.9 | 15.4 | 17.0 | 18.5 | 20.0 | 21.2 | 22.1 | 23.0 | 24.0 | 24.9 | 24.9 |
| 95° | 40.6 | 42.4 | 44.1 | 45.9 | 47.6 | 48.6 | 49.0 | 49.3 | 49.7 | 50.0 | 50.0 |
| 97.5° | 74.3 | 75.8 | 77.3 | 78.8 | 80.4 | 81.5 | 82.1 | 82.8 | 83.4 | 84.1 | 84.1 |
| 100° | 99.3 | 100.7 | 102.0 | 103.4 | 104.8 | 105.8 | 106.3 | 106.8 | 107.3 | 107.9 | 107.9 |
| 102.5° | 125.5 | 126.6 | 127.8 | 128.9 | 130.0 | 130.9 | 131.5 | 132.2 | 132.8 | 133.5 | 133.6 |
| 105° | 168.1 | 168.6 | 169.1 | 169.6 | 170.1 | 170.6 | 170.9 | 171.3 | 171.6 | 172.0 | 172.3 |
| 107.5° | 210.9 | 211.7 | 212.4 | 213.2 | 213.9 | 214.3 | 214.3 | 214.3 | 214.3 | 214.3 | 214.5 |
| 110° | 238.4 | 239.4 | 240.5 | 241.5 | 242.6 | 243.1 | 243.1 | 243.1 | 243.1 | 243.1 | 243.1 |



TEST NUMBER: P331631

CATALOG NUMBER: S122RDIP-S290D725U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 268.4 | 269.5 | 270.5 | 271.5 | 272.6 | 273.0 | 272.9 | 272.8 | 272.6 | 272.5 | 272.1 |
| 115° | 312.7 | 313.7 | 314.7 | 315.8 | 316.8 | 317.2 | 316.8 | 316.5 | 316.1 | 315.8 | 315.6 |
| 117.5° | 356.7 | 358.1 | 359.5 | 360.9 | 362.3 | 362.5 | 361.5 | 360.6 | 359.6 | 358.6 | 358.2 |
| 120° | 386.1 | 387.5 | 388.9 | 390.3 | 391.7 | 391.7 | 390.3 | 388.9 | 387.5 | 386.1 | 386.1 |
| 122.5° | 413.0 | 414.7 | 416.4 | 418.0 | 419.7 | 420.0 | 419.1 | 418.1 | 417.1 | 416.1 | 415.7 |
| 125° | 454.9 | 456.5 | 458.0 | 459.6 | 461.2 | 461.7 | 461.2 | 460.6 | 460.1 | 459.6 | 459.1 |
| 127.5° | 495.7 | 497.7 | 499.7 | 501.7 | 503.6 | 504.3 | 503.7 | 503.1 | 502.4 | 501.8 | 501.2 |
| 130° | 521.4 | 523.6 | 525.9 | 528.1 | 530.4 | 531.3 | 531.0 | 530.6 | 530.3 | 530.0 | 529.6 |
| 132.5° | 550.1 | 552.0 | 553.8 | 555.6 | 557.5 | 558.4 | 558.5 | 558.6 | 558.6 | 558.7 | 558.0 |
| 135° | 588.6 | 590.5 | 592.4 | 594.3 | 596.2 | 597.3 | 597.7 | 598.0 | 598.4 | 598.7 | 598.6 |
| 137.5° | 629.1 | 630.6 | 632.2 | 633.8 | 635.3 | 636.3 | 636.8 | 637.2 | 637.7 | 638.1 | 638.0 |
| 140° | 653.5 | 655.0 | 656.6 | 658.1 | 659.7 | 660.9 | 661.8 | 662.7 | 663.5 | 664.4 | 664.4 |
| 142.5° | 678.5 | 680.0 | 681.6 | 683.2 | 684.7 | 685.8 | 686.4 | 687.0 | 687.6 | 688.2 | 688.3 |
| 145° | 714.4 | 715.6 | 716.9 | 718.1 | 719.3 | 720.4 | 721.5 | 722.5 | 723.5 | 724.6 | 724.8 |
| 147.5° | 746.5 | 747.9 | 749.4 | 750.8 | 752.3 | 753.4 | 754.1 | 754.8 | 755.5 | 756.2 | 756.5 |
| 150° | 768.4 | 769.4 | 770.4 | 771.5 | 772.5 | 773.4 | 774.1 | 774.8 | 775.5 | 776.2 | 776.7 |
| 152.5° | 787.7 | 788.8 | 789.8 | 790.9 | 791.9 | 792.8 | 793.7 | 794.5 | 795.3 | 796.2 | 796.8 |
| 155° | 816.8 | 817.3 | 817.9 | 818.4 | 818.9 | 819.4 | 819.9 | 820.5 | 821.0 | 821.5 | 822.4 |
| 157.5° | 841.7 | 842.0 | 842.4 | 842.7 | 843.1 | 843.4 | 843.7 | 844.0 | 844.3 | 844.6 | 845.8 |
| 160° | 856.7 | 857.0 | 857.4 | 857.7 | 858.1 | 858.3 | 858.5 | 858.7 | 858.9 | 859.0 | 860.1 |
| 162.5° | 870.4 | 870.5 | 870.6 | 870.6 | 870.7 | 870.8 | 871.0 | 871.2 | 871.4 | 871.5 | 872.7 |
| 165° | 888.7 | 888.6 | 888.4 | 888.2 | 888.0 | 887.9 | 887.9 | 887.9 | 887.9 | 887.9 | 889.2 |
| 167.5° | 904.0 | 903.5 | 903.0 | 902.5 | 902.0 | 901.7 | 901.7 | 901.6 | 901.6 | 901.5 | 902.8 |
| 170° | 912.2 | 911.7 | 911.1 | 910.6 | 910.1 | 909.7 | 909.6 | 909.4 | 909.2 | 909.0 | 910.3 |
| 172.5° | 917.8 | 917.3 | 916.8 | 916.2 | 915.7 | 915.4 | 915.2 | 915.0 | 914.9 | 914.7 | 915.9 |
| 175° | 924.7 | 924.2 | 923.6 | 923.1 | 922.6 | 922.2 | 921.8 | 921.5 | 921.1 | 920.8 | 922.0 |
| 177.5° | 927.5 | 927.1 | 926.7 | 926.2 | 925.8 | 925.5 | 925.2 | 924.9 | 924.6 | 924.4 | 925.2 |
| 180° | 926.2 | 926.2 | 926.2 | 926.2 | 926.2 | 926.2 | 926.2 | 926.2 | 926.2 | 926.2 | 926.2 |



TEST NUMBER: P331631

CATALOG NUMBER: S122RDIP-S290D725U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 502.0 | 502.0 | 502.0 | 502.0 | 502.0 | 502.0 | 502.0 | 502.0 |
| 2.5° | 499.6 | 500.4 | 501.2 | 501.5 | 501.4 | 501.2 | 501.0 | 500.9 |
| 5° | 495.6 | 496.5 | 497.4 | 497.7 | 497.4 | 497.1 | 496.8 | 496.5 |
| 7.5° | 487.6 | 487.9 | 488.1 | 488.0 | 487.5 | 486.9 | 486.4 | 485.9 |
| 10° | 479.6 | 479.3 | 479.0 | 478.5 | 477.9 | 477.3 | 476.7 | 476.1 |
| 12.5° | 470.4 | 469.8 | 469.3 | 468.5 | 467.5 | 466.5 | 465.5 | 464.5 |
| 15° | 453.2 | 451.2 | 449.3 | 447.9 | 446.9 | 445.8 | 444.8 | 443.8 |
| 17.5° | 433.7 | 431.4 | 429.2 | 427.2 | 425.4 | 423.7 | 421.9 | 420.2 |
| 20° | 420.2 | 417.6 | 415.1 | 412.7 | 410.5 | 408.3 | 406.1 | 403.9 |
| 22.5° | 405.3 | 402.0 | 398.8 | 396.3 | 394.6 | 393.0 | 391.3 | 389.7 |
| 25° | 380.6 | 376.4 | 372.3 | 369.5 | 368.0 | 366.4 | 364.9 | 363.4 |
| 27.5° | 357.0 | 352.2 | 347.4 | 343.8 | 341.4 | 339.0 | 336.6 | 334.2 |
| 30° | 340.4 | 335.3 | 330.1 | 326.2 | 323.4 | 320.7 | 318.0 | 315.3 |
| 32.5° | 323.7 | 317.8 | 311.9 | 307.7 | 305.2 | 302.6 | 300.0 | 297.5 |
| 35° | 297.6 | 291.2 | 284.8 | 280.5 | 278.3 | 276.1 | 273.9 | 271.7 |
| 37.5° | 272.1 | 265.1 | 258.1 | 253.3 | 250.8 | 248.2 | 245.7 | 243.1 |
| 40° | 255.1 | 247.9 | 240.7 | 235.8 | 233.2 | 230.6 | 227.9 | 225.3 |
| 42.5° | 237.8 | 230.4 | 223.0 | 218.1 | 215.5 | 213.0 | 210.4 | 207.9 |
| 45° | 212.8 | 205.6 | 198.5 | 193.7 | 191.3 | 188.8 | 186.4 | 184.0 |
| 47.5° | 188.4 | 181.3 | 174.2 | 169.5 | 167.3 | 165.1 | 162.9 | 160.7 |
| 50° | 172.8 | 165.8 | 158.8 | 154.3 | 152.2 | 150.1 | 147.9 | 145.8 |
| 52.5° | 158.0 | 151.3 | 144.6 | 140.2 | 138.3 | 136.3 | 134.3 | 132.4 |
| 55° | 135.5 | 129.5 | 123.4 | 119.4 | 117.5 | 115.6 | 113.7 | 111.8 |
| 57.5° | 115.1 | 109.5 | 104.0 | 100.4 | 98.8 | 97.2 | 95.6 | 93.9 |
| 60° | 101.0 | 95.9 | 90.7 | 87.3 | 85.7 | 84.1 | 82.5 | 80.9 |
| 62.5° | 88.8 | 83.9 | 79.0 | 76.0 | 75.0 | 74.1 | 73.1 | 72.1 |
| 65° | 72.2 | 68.7 | 65.3 | 63.4 | 63.1 | 62.8 | 62.5 | 62.2 |
| 67.5° | 58.3 | 56.7 | 55.1 | 54.2 | 53.8 | 53.5 | 53.2 | 52.9 |
| 70° | 50.7 | 49.7 | 48.7 | 48.0 | 47.5 | 47.1 | 46.7 | 46.3 |
| 72.5° | 44.1 | 43.2 | 42.4 | 41.9 | 41.6 | 41.4 | 41.1 | 40.9 |
| 75° | 34.9 | 34.2 | 33.5 | 33.1 | 33.0 | 32.9 | 32.8 | 32.7 |
| 77.5° | 26.4 | 26.0 | 25.6 | 25.4 | 25.2 | 25.0 | 24.9 | 24.7 |
| 80° | 21.0 | 20.6 | 20.2 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| 82.5° | 15.9 | 15.6 | 15.4 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 |
| 85° | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 |
| 87.5° | 8.1 | 7.9 | 7.8 | 7.7 | 7.8 | 7.8 | 7.8 | 7.9 |
| 90° | 26.7 | 26.3 | 26.0 | 25.9 | 26.1 | 26.2 | 26.4 | 26.6 |
| 92.5° | 25.0 | 25.1 | 25.1 | 25.2 | 25.2 | 25.3 | 25.3 | 25.3 |
| 95° | 50.0 | 50.0 | 50.0 | 49.9 | 49.5 | 49.2 | 48.8 | 48.5 |
| 97.5° | 84.1 | 84.1 | 84.1 | 84.1 | 84.1 | 84.0 | 84.0 | 83.9 |
| 100° | 107.9 | 107.9 | 107.9 | 107.8 | 107.6 | 107.4 | 107.3 | 107.1 |
| 102.5° | 133.8 | 133.9 | 134.1 | 134.0 | 133.9 | 133.7 | 133.5 | 133.3 |
| 105° | 172.7 | 173.0 | 173.4 | 173.5 | 173.5 | 173.5 | 173.5 | 173.5 |
| 107.5° | 214.6 | 214.7 | 214.9 | 214.6 | 213.8 | 213.0 | 212.2 | 211.4 |
| 110° | 243.1 | 243.1 | 243.1 | 242.8 | 242.3 | 241.8 | 241.3 | 240.7 |



TEST NUMBER: P331631

CATALOG NUMBER: S122RDIP-S290D725U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 271.6 | 271.2 | 270.8 | 270.4 | 270.0 | 269.6 | 269.3 | 268.9 |
| 115° | 315.4 | 315.3 | 315.1 | 314.7 | 314.2 | 313.7 | 313.2 | 312.7 |
| 117.5° | 357.8 | 357.4 | 356.9 | 356.5 | 356.0 | 355.4 | 354.9 | 354.4 |
| 120° | 386.1 | 386.1 | 386.1 | 385.9 | 385.3 | 384.8 | 384.3 | 383.8 |
| 122.5° | 415.3 | 414.9 | 414.5 | 414.1 | 413.7 | 413.3 | 412.9 | 412.6 |
| 125° | 458.6 | 458.0 | 457.5 | 457.2 | 457.0 | 456.8 | 456.7 | 456.5 |
| 127.5° | 500.6 | 499.9 | 499.3 | 498.7 | 498.2 | 497.6 | 497.1 | 496.5 |
| 130° | 529.3 | 528.9 | 528.6 | 528.0 | 527.3 | 526.7 | 526.0 | 525.3 |
| 132.5° | 557.2 | 556.4 | 555.7 | 555.0 | 554.4 | 553.9 | 553.3 | 552.8 |
| 135° | 598.4 | 598.2 | 598.0 | 597.7 | 597.2 | 596.7 | 596.1 | 595.6 |
| 137.5° | 637.9 | 637.7 | 637.6 | 637.2 | 636.5 | 635.8 | 635.1 | 634.4 |
| 140° | 664.4 | 664.4 | 664.4 | 664.0 | 663.4 | 662.7 | 662.0 | 661.3 |
| 142.5° | 688.4 | 688.6 | 688.7 | 688.4 | 687.7 | 687.0 | 686.4 | 685.7 |
| 145° | 724.9 | 725.1 | 725.3 | 725.0 | 724.3 | 723.6 | 722.9 | 722.2 |
| 147.5° | 756.9 | 757.3 | 757.7 | 757.6 | 756.9 | 756.2 | 755.6 | 754.9 |
| 150° | 777.2 | 777.7 | 778.3 | 778.3 | 777.7 | 777.2 | 776.7 | 776.2 |
| 152.5° | 797.5 | 798.2 | 798.8 | 798.8 | 798.2 | 797.5 | 796.8 | 796.2 |
| 155° | 823.2 | 824.1 | 825.0 | 825.2 | 824.6 | 824.1 | 823.6 | 823.1 |
| 157.5° | 847.0 | 848.2 | 849.4 | 849.5 | 848.7 | 847.9 | 847.0 | 846.2 |
| 160° | 861.1 | 862.2 | 863.2 | 863.4 | 862.7 | 862.0 | 861.3 | 860.6 |
| 162.5° | 873.9 | 875.1 | 876.3 | 876.4 | 875.6 | 874.8 | 873.9 | 873.1 |
| 165° | 890.4 | 891.6 | 892.8 | 893.0 | 892.1 | 891.2 | 890.4 | 889.5 |
| 167.5° | 904.0 | 905.2 | 906.4 | 906.6 | 905.7 | 904.8 | 903.9 | 903.0 |
| 170° | 911.5 | 912.7 | 913.9 | 914.0 | 913.0 | 911.9 | 910.9 | 909.8 |
| 172.5° | 917.1 | 918.3 | 919.5 | 919.6 | 918.6 | 917.5 | 916.5 | 915.5 |
| 175° | 923.2 | 924.4 | 925.6 | 925.7 | 924.7 | 923.6 | 922.6 | 921.6 |
| 177.5° | 926.0 | 926.9 | 927.7 | 927.7 | 926.9 | 926.0 | 925.2 | 924.4 |
| 180° | 926.2 | 926.2 | 926.2 | 926.2 | 926.2 | 926.2 | 926.2 | 926.2 |

(END OF REPORT)