

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: P331637-830

Luminaire Tested: **S122RDIP-S290D925U830-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331637-830
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: S122RDIP-S290D925U830-4F0-1E-UDD-F1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 925 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4094.3 lumens
Efficiency: N/A
Efficacy: 109.8 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

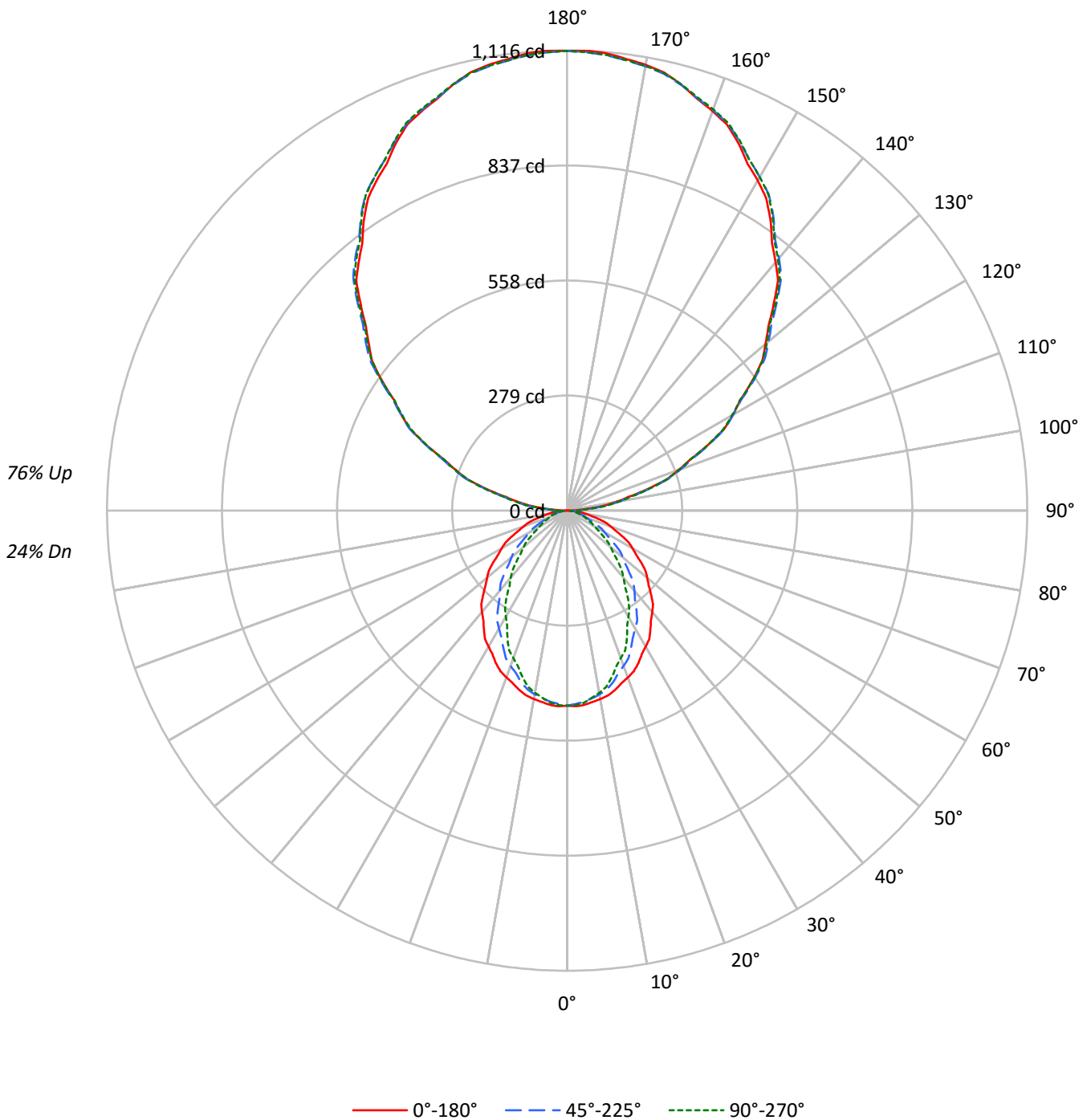
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331637-830

CATALOG NUMBER: S122RDIP-S290D925U830-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331637-830

CATALOG NUMBER: S122RDIP-S290D925U830-4F0-1E-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 | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 69 | 69 | 69 | 50 | 50 | 50 | 32 | 32 | 32 | 24 |
| 1 | 92 | 88 | 84 | 81 | 82 | 78 | 75 | 73 | 60 | 58 | 57 | 44 | 43 | 42 | 29 | 28 | 27 | 20 |
| 2 | 84 | 77 | 71 | 67 | 75 | 69 | 64 | 60 | 53 | 50 | 47 | 39 | 37 | 35 | 25 | 24 | 23 | 18 |
| 3 | 77 | 68 | 61 | 56 | 68 | 61 | 55 | 50 | 47 | 43 | 40 | 34 | 32 | 30 | 23 | 21 | 20 | 15 |
| 4 | 70 | 60 | 53 | 47 | 62 | 54 | 47 | 43 | 42 | 37 | 34 | 31 | 28 | 26 | 20 | 19 | 18 | 13 |
| 5 | 64 | 53 | 46 | 40 | 57 | 48 | 41 | 37 | 37 | 33 | 29 | 28 | 25 | 22 | 19 | 17 | 15 | 12 |
| 6 | 59 | 48 | 40 | 35 | 53 | 43 | 36 | 32 | 34 | 29 | 26 | 25 | 22 | 20 | 17 | 15 | 14 | 10 |
| 7 | 55 | 43 | 36 | 30 | 49 | 39 | 32 | 28 | 30 | 26 | 22 | 23 | 20 | 17 | 15 | 14 | 12 | 9 |
| 8 | 51 | 39 | 32 | 27 | 45 | 35 | 29 | 24 | 28 | 23 | 20 | 21 | 18 | 15 | 14 | 12 | 11 | 8 |
| 9 | 47 | 36 | 28 | 24 | 42 | 32 | 26 | 22 | 25 | 21 | 18 | 19 | 16 | 14 | 13 | 11 | 10 | 8 |
| 10 | 44 | 32 | 26 | 21 | 39 | 29 | 23 | 19 | 23 | 19 | 16 | 18 | 15 | 12 | 12 | 10 | 9 | 7 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7640 | 7640 | 7640 |
| 5° | 7669 | 7543 | 7585 |
| 10° | 7609 | 7420 | 7356 |
| 15° | 7522 | 7199 | 6992 |
| 20° | 7400 | 6887 | 6541 |
| 25° | 7277 | 6531 | 6102 |
| 30° | 7105 | 6162 | 5541 |
| 35° | 6936 | 5765 | 5048 |
| 40° | 6768 | 5351 | 4477 |
| 45° | 6572 | 4889 | 3959 |
| 50° | 6365 | 4421 | 3451 |
| 55° | 6159 | 3916 | 2967 |
| 60° | 5916 | 3387 | 2464 |
| 65° | 5643 | 2846 | 2239 |
| 70° | 5316 | 2346 | 2058 |
| 75° | 4916 | 2133 | 1921 |
| 80° | 4342 | 1906 | 1757 |
| 85° | 3409 | 1501 | 1501 |



TEST NUMBER: P331637-830

CATALOG NUMBER: S122RDIP-S290D925U830-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.3 | 1.1 |
| 10°-20° | 121.6 | 3.0 |
| 20°-30° | 170.8 | 4.2 |
| 30°-40° | 186.2 | 4.5 |
| 40°-50° | 171.2 | 4.2 |
| 50°-60° | 134.5 | 3.3 |
| 60°-70° | 87.7 | 2.1 |
| 70°-80° | 45.2 | 1.1 |
| 80°-90° | 16.2 | 0.4 |
| 90°-100° | 70.6 | 1.7 |
| 100°-110° | 219.4 | 5.4 |
| 110°-120° | 375.0 | 9.2 |
| 120°-130° | 493.1 | 12.0 |
| 130°-140° | 553.4 | 13.5 |
| 140°-150° | 542.7 | 13.3 |
| 150°-160° | 455.2 | 11.1 |
| 160°-170° | 301.9 | 7.4 |
| 170°-180° | 105.5 | 2.6 |
| 0°-30° | 336.6 | 8.2 |
| 0°-40° | 522.8 | 12.8 |
| 0°-60° | 828.5 | 20.2 |
| 0°-90° | 977.6 | 23.9 |
| 90°-120° | 665.0 | 16.2 |
| 90°-150° | 2254.1 | 55.1 |
| 90°-180° | 3117.0 | 76.1 |
| 0°-180° | 4094.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 473 | 473 | 473 | 473 | 473 | |
| 5° | 473 | 471 | 465 | 469 | 468 | 45 |
| 15° | 450 | 445 | 431 | 423 | 418 | 127 |
| 25° | 408 | 394 | 367 | 350 | 342 | 188 |
| 35° | 352 | 329 | 292 | 266 | 256 | 220 |
| 45° | 288 | 258 | 214 | 185 | 173 | 222 |
| 55° | 219 | 185 | 139 | 114 | 105 | 195 |
| 65° | 148 | 113 | 74 | 61 | 59 | 146 |
| 75° | 79 | 50 | 34 | 31 | 31 | 83 |
| 85° | 18 | 10 | 8 | 8 | 8 | 22 |
| 90° | 1 | 13 | 33 | 31 | 32 | 3 |
| 95° | 49 | 58 | 60 | 60 | 58 | 56 |
| 105° | 202 | 205 | 207 | 209 | 209 | 214 |
| 115° | 376 | 381 | 380 | 379 | 376 | 372 |
| 125° | 547 | 555 | 553 | 550 | 549 | 489 |
| 135° | 708 | 718 | 720 | 719 | 717 | 547 |
| 145° | 860 | 866 | 872 | 873 | 869 | 537 |
| 155° | 983 | 986 | 988 | 993 | 990 | 452 |
| 165° | 1070 | 1069 | 1069 | 1074 | 1070 | 301 |
| 175° | 1113 | 1110 | 1108 | 1114 | 1109 | 106 |
| 180° | 1115 | 1115 | 1115 | 1115 | 1115 | |



TEST NUMBER: P331637-830

CATALOG NUMBER: S122RDIP-S290D925U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 473.2 | 473.2 | 473.2 | 473.2 | 473.2 | 473.2 | 473.2 | 473.2 | 473.2 | 473.2 | 473.2 |
| 2.5° | 474.9 | 474.5 | 474.1 | 473.7 | 473.3 | 472.7 | 471.8 | 471.1 | 470.2 | 469.4 | 470.1 |
| 5° | 473.2 | 472.7 | 472.2 | 471.7 | 471.3 | 470.3 | 469.1 | 467.9 | 466.7 | 465.4 | 466.3 |
| 7.5° | 468.3 | 467.7 | 467.0 | 466.5 | 465.9 | 464.9 | 463.4 | 461.9 | 460.5 | 459.1 | 459.3 |
| 10° | 464.1 | 463.4 | 462.8 | 462.1 | 461.5 | 460.1 | 458.3 | 456.4 | 454.5 | 452.6 | 452.3 |
| 12.5° | 459.0 | 458.2 | 457.3 | 456.6 | 455.7 | 454.1 | 451.7 | 449.2 | 446.8 | 444.3 | 443.8 |
| 15° | 450.0 | 448.9 | 447.9 | 446.9 | 445.8 | 443.7 | 440.5 | 437.2 | 433.9 | 430.7 | 429.0 |
| 17.5° | 438.9 | 437.3 | 435.7 | 434.1 | 432.5 | 429.7 | 425.6 | 421.4 | 417.3 | 413.1 | 410.9 |
| 20° | 430.7 | 428.9 | 427.0 | 425.0 | 423.1 | 419.8 | 415.0 | 410.3 | 405.6 | 400.8 | 398.4 |
| 22.5° | 421.9 | 419.7 | 417.5 | 415.5 | 413.3 | 409.5 | 404.2 | 398.8 | 393.5 | 388.1 | 385.0 |
| 25° | 408.5 | 405.4 | 402.4 | 399.4 | 396.3 | 391.6 | 385.3 | 379.1 | 372.8 | 366.6 | 362.6 |
| 27.5° | 392.4 | 389.1 | 385.8 | 382.5 | 379.1 | 373.9 | 366.8 | 359.8 | 352.7 | 345.6 | 341.1 |
| 30° | 381.1 | 377.5 | 373.8 | 370.2 | 366.6 | 361.0 | 353.4 | 345.8 | 338.2 | 330.5 | 325.7 |
| 32.5° | 370.1 | 365.9 | 361.7 | 357.4 | 353.2 | 347.2 | 339.5 | 331.7 | 324.0 | 316.1 | 310.7 |
| 35° | 351.9 | 347.1 | 342.2 | 337.4 | 332.5 | 325.9 | 317.5 | 309.2 | 300.9 | 292.5 | 286.4 |
| 37.5° | 333.8 | 328.5 | 323.1 | 317.8 | 312.5 | 305.4 | 296.4 | 287.5 | 278.6 | 269.7 | 263.1 |
| 40° | 321.1 | 315.5 | 309.7 | 304.0 | 298.3 | 290.9 | 281.6 | 272.4 | 263.2 | 253.9 | 247.1 |
| 42.5° | 308.1 | 302.1 | 296.1 | 290.1 | 284.1 | 276.3 | 266.7 | 257.2 | 247.7 | 238.2 | 231.2 |
| 45° | 287.8 | 281.3 | 274.9 | 268.6 | 262.2 | 254.0 | 244.0 | 234.0 | 224.0 | 214.1 | 207.4 |
| 47.5° | 267.9 | 261.1 | 254.4 | 247.6 | 240.8 | 232.3 | 222.0 | 211.7 | 201.3 | 191.1 | 184.4 |
| 50° | 253.4 | 246.8 | 240.0 | 233.2 | 226.5 | 217.8 | 207.4 | 196.9 | 186.4 | 176.0 | 169.4 |
| 52.5° | 239.4 | 232.3 | 225.4 | 218.3 | 211.2 | 202.6 | 192.3 | 182.1 | 171.8 | 161.6 | 155.2 |
| 55° | 218.8 | 211.4 | 204.0 | 196.5 | 189.1 | 180.3 | 169.9 | 159.7 | 149.4 | 139.1 | 133.5 |
| 57.5° | 197.7 | 190.0 | 182.4 | 174.8 | 167.2 | 158.4 | 148.5 | 138.7 | 128.8 | 118.9 | 113.7 |
| 60° | 183.2 | 175.7 | 168.1 | 160.4 | 152.8 | 144.1 | 134.3 | 124.5 | 114.7 | 104.9 | 100.0 |
| 62.5° | 169.2 | 161.6 | 154.0 | 146.4 | 138.7 | 130.3 | 120.9 | 111.6 | 102.3 | 92.9 | 88.3 |
| 65° | 147.7 | 140.0 | 132.3 | 124.6 | 116.9 | 108.8 | 100.2 | 91.6 | 83.0 | 74.5 | 71.3 |
| 67.5° | 127.0 | 119.3 | 111.7 | 104.1 | 96.4 | 88.7 | 81.0 | 73.3 | 65.6 | 57.9 | 56.4 |
| 70° | 112.6 | 105.2 | 97.7 | 90.4 | 82.9 | 76.0 | 69.4 | 62.8 | 56.3 | 49.7 | 48.7 |
| 72.5° | 98.9 | 91.8 | 84.6 | 77.6 | 70.4 | 64.3 | 59.0 | 53.7 | 48.4 | 43.2 | 42.3 |
| 75° | 78.8 | 72.1 | 65.5 | 58.8 | 52.1 | 47.2 | 43.9 | 40.7 | 37.5 | 34.2 | 33.6 |
| 77.5° | 59.0 | 53.2 | 47.3 | 41.5 | 35.6 | 32.0 | 30.3 | 28.8 | 27.2 | 25.7 | 25.4 |
| 80° | 46.7 | 41.8 | 36.9 | 32.1 | 27.2 | 24.3 | 23.4 | 22.4 | 21.5 | 20.5 | 20.2 |
| 82.5° | 35.3 | 31.6 | 27.8 | 24.0 | 20.3 | 18.0 | 17.3 | 16.7 | 16.0 | 15.5 | 15.2 |
| 85° | 18.4 | 16.4 | 14.4 | 12.4 | 10.5 | 9.2 | 9.0 | 8.7 | 8.4 | 8.1 | 8.1 |
| 87.5° | 5.7 | 5.6 | 5.5 | 5.4 | 5.3 | 5.7 | 6.6 | 7.4 | 8.4 | 9.3 | 9.1 |
| 90° | 0.9 | 3.5 | 5.9 | 8.5 | 10.9 | 14.5 | 19.1 | 23.8 | 28.3 | 32.9 | 32.5 |
| 92.5° | 16.8 | 18.6 | 20.5 | 22.2 | 24.1 | 25.5 | 26.7 | 27.7 | 28.8 | 29.9 | 30.0 |
| 95° | 48.9 | 51.0 | 53.1 | 55.1 | 57.3 | 58.5 | 58.9 | 59.4 | 59.8 | 60.2 | 60.2 |
| 97.5° | 89.4 | 91.2 | 93.0 | 94.9 | 96.7 | 98.0 | 98.9 | 99.6 | 100.4 | 101.2 | 101.2 |
| 100° | 119.4 | 121.1 | 122.8 | 124.5 | 126.1 | 127.3 | 127.9 | 128.6 | 129.2 | 129.8 | 129.8 |
| 102.5° | 151.1 | 152.4 | 153.7 | 155.0 | 156.4 | 157.5 | 158.3 | 159.1 | 159.9 | 160.7 | 160.8 |
| 105° | 202.3 | 202.8 | 203.5 | 204.2 | 204.7 | 205.3 | 205.7 | 206.1 | 206.5 | 206.9 | 207.4 |
| 107.5° | 253.7 | 254.7 | 255.6 | 256.6 | 257.5 | 257.9 | 257.9 | 257.9 | 257.9 | 257.9 | 258.1 |
| 110° | 286.9 | 288.1 | 289.4 | 290.7 | 291.9 | 292.6 | 292.6 | 292.6 | 292.6 | 292.6 | 292.6 |



TEST NUMBER: P331637-830

CATALOG NUMBER: S122RDIP-S290D925U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 323.0 | 324.2 | 325.6 | 326.8 | 328.0 | 328.6 | 328.4 | 328.2 | 328.1 | 327.9 | 327.4 |
| 115° | 376.3 | 377.5 | 378.7 | 380.0 | 381.3 | 381.6 | 381.3 | 380.9 | 380.4 | 380.0 | 379.8 |
| 117.5° | 429.3 | 430.9 | 432.6 | 434.3 | 436.0 | 436.2 | 435.1 | 433.9 | 432.7 | 431.6 | 431.0 |
| 120° | 464.7 | 466.4 | 468.0 | 469.7 | 471.4 | 471.4 | 469.7 | 468.0 | 466.4 | 464.7 | 464.7 |
| 122.5° | 497.0 | 499.0 | 501.1 | 503.0 | 505.0 | 505.5 | 504.3 | 503.1 | 502.0 | 500.8 | 500.3 |
| 125° | 547.4 | 549.3 | 551.2 | 553.1 | 555.0 | 555.6 | 555.0 | 554.3 | 553.7 | 553.1 | 552.4 |
| 127.5° | 596.5 | 598.9 | 601.3 | 603.7 | 606.1 | 606.9 | 606.1 | 605.4 | 604.6 | 603.9 | 603.1 |
| 130° | 627.4 | 630.1 | 632.8 | 635.6 | 638.3 | 639.4 | 638.9 | 638.6 | 638.2 | 637.7 | 637.3 |
| 132.5° | 662.0 | 664.2 | 666.5 | 668.6 | 670.9 | 672.0 | 672.1 | 672.2 | 672.2 | 672.3 | 671.5 |
| 135° | 708.3 | 710.6 | 712.8 | 715.2 | 717.5 | 718.9 | 719.3 | 719.6 | 720.1 | 720.5 | 720.3 |
| 137.5° | 757.1 | 758.8 | 760.7 | 762.6 | 764.5 | 765.7 | 766.3 | 766.9 | 767.4 | 767.9 | 767.8 |
| 140° | 786.4 | 788.2 | 790.1 | 792.0 | 793.9 | 795.3 | 796.4 | 797.4 | 798.5 | 799.6 | 799.6 |
| 142.5° | 816.4 | 818.3 | 820.2 | 822.1 | 824.0 | 825.3 | 826.0 | 826.7 | 827.4 | 828.1 | 828.3 |
| 145° | 859.7 | 861.2 | 862.6 | 864.1 | 865.5 | 867.0 | 868.2 | 869.4 | 870.7 | 871.9 | 872.1 |
| 147.5° | 898.2 | 900.0 | 901.8 | 903.5 | 905.3 | 906.6 | 907.5 | 908.2 | 909.1 | 909.9 | 910.4 |
| 150° | 924.6 | 925.9 | 927.1 | 928.4 | 929.6 | 930.7 | 931.5 | 932.4 | 933.2 | 934.1 | 934.6 |
| 152.5° | 947.9 | 949.2 | 950.5 | 951.7 | 953.0 | 954.1 | 955.1 | 956.1 | 957.1 | 958.1 | 958.9 |
| 155° | 983.0 | 983.5 | 984.2 | 984.9 | 985.4 | 986.1 | 986.7 | 987.3 | 988.0 | 988.5 | 989.7 |
| 157.5° | 1012.9 | 1013.2 | 1013.7 | 1014.1 | 1014.6 | 1014.9 | 1015.3 | 1015.7 | 1016.1 | 1016.4 | 1017.9 |
| 160° | 1031.0 | 1031.3 | 1031.7 | 1032.2 | 1032.6 | 1032.9 | 1033.1 | 1033.3 | 1033.5 | 1033.7 | 1035.0 |
| 162.5° | 1047.4 | 1047.5 | 1047.6 | 1047.7 | 1047.8 | 1047.9 | 1048.2 | 1048.4 | 1048.6 | 1048.8 | 1050.2 |
| 165° | 1069.5 | 1069.3 | 1069.0 | 1068.8 | 1068.7 | 1068.6 | 1068.6 | 1068.6 | 1068.6 | 1068.6 | 1070.0 |
| 167.5° | 1087.9 | 1087.3 | 1086.7 | 1086.0 | 1085.4 | 1085.1 | 1085.1 | 1085.0 | 1085.0 | 1084.9 | 1086.4 |
| 170° | 1097.7 | 1097.0 | 1096.5 | 1095.8 | 1095.1 | 1094.8 | 1094.6 | 1094.4 | 1094.1 | 1093.9 | 1095.4 |
| 172.5° | 1104.5 | 1103.8 | 1103.2 | 1102.6 | 1101.9 | 1101.5 | 1101.4 | 1101.1 | 1100.9 | 1100.7 | 1102.2 |
| 175° | 1112.8 | 1112.1 | 1111.4 | 1110.9 | 1110.2 | 1109.7 | 1109.3 | 1108.9 | 1108.4 | 1108.1 | 1109.5 |
| 177.5° | 1116.2 | 1115.6 | 1115.1 | 1114.7 | 1114.1 | 1113.7 | 1113.3 | 1113.0 | 1112.7 | 1112.4 | 1113.3 |
| 180° | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 |



TEST NUMBER: P331637-830

CATALOG NUMBER: S122RDIP-S290D925U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 473.2 | 473.2 | 473.2 | 473.2 | 473.2 | 473.2 | 473.2 | 473.2 |
| 2.5° | 470.9 | 471.6 | 472.4 | 472.7 | 472.6 | 472.4 | 472.2 | 472.1 |
| 5° | 467.1 | 468.0 | 468.8 | 469.1 | 468.8 | 468.5 | 468.3 | 468.0 |
| 7.5° | 459.6 | 459.9 | 460.1 | 460.0 | 459.5 | 458.9 | 458.5 | 458.0 |
| 10° | 452.0 | 451.8 | 451.5 | 451.0 | 450.4 | 449.9 | 449.3 | 448.7 |
| 12.5° | 443.4 | 442.8 | 442.3 | 441.6 | 440.6 | 439.7 | 438.8 | 437.8 |
| 15° | 427.2 | 425.3 | 423.5 | 422.2 | 421.2 | 420.2 | 419.2 | 418.3 |
| 17.5° | 408.8 | 406.6 | 404.5 | 402.7 | 401.0 | 399.4 | 397.7 | 396.1 |
| 20° | 396.1 | 393.6 | 391.2 | 389.0 | 386.9 | 384.8 | 382.8 | 380.7 |
| 22.5° | 382.0 | 378.9 | 375.9 | 373.5 | 371.9 | 370.4 | 368.8 | 367.3 |
| 25° | 358.7 | 354.8 | 350.9 | 348.3 | 346.9 | 345.3 | 343.9 | 342.5 |
| 27.5° | 336.5 | 332.0 | 327.4 | 324.0 | 321.8 | 319.5 | 317.3 | 315.0 |
| 30° | 320.8 | 316.0 | 311.1 | 307.5 | 304.8 | 302.3 | 299.7 | 297.2 |
| 32.5° | 305.1 | 299.5 | 294.0 | 290.0 | 287.7 | 285.2 | 282.8 | 280.4 |
| 35° | 280.5 | 274.5 | 268.4 | 264.4 | 262.3 | 260.2 | 258.2 | 256.1 |
| 37.5° | 256.5 | 249.9 | 243.3 | 238.7 | 236.4 | 233.9 | 231.6 | 229.1 |
| 40° | 240.4 | 233.7 | 226.9 | 222.3 | 219.8 | 217.4 | 214.8 | 212.4 |
| 42.5° | 224.1 | 217.2 | 210.2 | 205.6 | 203.1 | 200.8 | 198.3 | 196.0 |
| 45° | 200.6 | 193.8 | 187.1 | 182.6 | 180.3 | 178.0 | 175.7 | 173.4 |
| 47.5° | 177.6 | 170.9 | 164.2 | 159.8 | 157.7 | 155.6 | 153.5 | 151.5 |
| 50° | 162.9 | 156.3 | 149.7 | 145.4 | 143.5 | 141.5 | 139.4 | 137.4 |
| 52.5° | 148.9 | 142.6 | 136.3 | 132.1 | 130.4 | 128.5 | 126.6 | 124.8 |
| 55° | 127.7 | 122.1 | 116.3 | 112.5 | 110.7 | 109.0 | 107.2 | 105.4 |
| 57.5° | 108.5 | 103.2 | 98.0 | 94.6 | 93.1 | 91.6 | 90.1 | 88.5 |
| 60° | 95.2 | 90.4 | 85.5 | 82.3 | 80.8 | 79.3 | 77.8 | 76.3 |
| 62.5° | 83.7 | 79.1 | 74.5 | 71.6 | 70.7 | 69.8 | 68.9 | 68.0 |
| 65° | 68.1 | 64.8 | 61.5 | 59.8 | 59.5 | 59.2 | 58.9 | 58.6 |
| 67.5° | 55.0 | 53.4 | 51.9 | 51.1 | 50.7 | 50.4 | 50.1 | 49.9 |
| 70° | 47.8 | 46.8 | 45.9 | 45.2 | 44.8 | 44.4 | 44.0 | 43.6 |
| 72.5° | 41.6 | 40.7 | 40.0 | 39.5 | 39.2 | 39.0 | 38.7 | 38.5 |
| 75° | 32.9 | 32.2 | 31.6 | 31.2 | 31.1 | 31.0 | 30.9 | 30.8 |
| 77.5° | 24.9 | 24.5 | 24.1 | 23.9 | 23.8 | 23.6 | 23.5 | 23.3 |
| 80° | 19.8 | 19.4 | 19.0 | 18.9 | 18.9 | 18.9 | 18.9 | 18.9 |
| 82.5° | 15.0 | 14.7 | 14.5 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 |
| 85° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |
| 87.5° | 9.0 | 8.9 | 8.7 | 8.7 | 8.7 | 8.7 | 8.8 | 8.8 |
| 90° | 32.0 | 31.7 | 31.3 | 31.1 | 31.4 | 31.6 | 31.8 | 32.0 |
| 92.5° | 30.1 | 30.2 | 30.3 | 30.3 | 30.3 | 30.3 | 30.4 | 30.4 |
| 95° | 60.2 | 60.2 | 60.2 | 59.9 | 59.6 | 59.2 | 58.7 | 58.3 |
| 97.5° | 101.2 | 101.2 | 101.2 | 101.2 | 101.1 | 101.1 | 101.0 | 101.0 |
| 100° | 129.8 | 129.8 | 129.8 | 129.7 | 129.5 | 129.3 | 129.0 | 128.8 |
| 102.5° | 161.0 | 161.2 | 161.4 | 161.3 | 161.1 | 160.9 | 160.7 | 160.5 |
| 105° | 207.7 | 208.2 | 208.6 | 208.8 | 208.8 | 208.8 | 208.8 | 208.8 |
| 107.5° | 258.3 | 258.4 | 258.5 | 258.2 | 257.2 | 256.3 | 255.3 | 254.3 |
| 110° | 292.6 | 292.6 | 292.6 | 292.2 | 291.6 | 291.0 | 290.3 | 289.7 |



TEST NUMBER: P331637-830

CATALOG NUMBER: S122RDIP-S290D925U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 326.9 | 326.4 | 325.9 | 325.4 | 325.0 | 324.5 | 324.0 | 323.6 |
| 115° | 379.6 | 379.4 | 379.2 | 378.7 | 378.1 | 377.5 | 376.8 | 376.3 |
| 117.5° | 430.6 | 430.1 | 429.5 | 429.0 | 428.4 | 427.7 | 427.1 | 426.5 |
| 120° | 464.7 | 464.7 | 464.7 | 464.4 | 463.7 | 463.1 | 462.5 | 461.8 |
| 122.5° | 499.7 | 499.3 | 498.8 | 498.3 | 497.9 | 497.4 | 496.9 | 496.4 |
| 125° | 551.9 | 551.2 | 550.5 | 550.2 | 550.0 | 549.7 | 549.5 | 549.3 |
| 127.5° | 602.4 | 601.6 | 600.9 | 600.1 | 599.5 | 598.8 | 598.1 | 597.5 |
| 130° | 636.9 | 636.5 | 636.0 | 635.5 | 634.6 | 633.8 | 632.9 | 632.1 |
| 132.5° | 670.5 | 669.6 | 668.6 | 667.9 | 667.2 | 666.6 | 665.9 | 665.2 |
| 135° | 720.1 | 719.9 | 719.6 | 719.3 | 718.6 | 718.0 | 717.4 | 716.7 |
| 137.5° | 767.6 | 767.4 | 767.2 | 766.8 | 765.9 | 765.1 | 764.2 | 763.4 |
| 140° | 799.6 | 799.6 | 799.6 | 799.1 | 798.2 | 797.4 | 796.6 | 795.8 |
| 142.5° | 828.5 | 828.6 | 828.8 | 828.5 | 827.6 | 826.8 | 826.0 | 825.1 |
| 145° | 872.3 | 872.6 | 872.8 | 872.5 | 871.7 | 870.8 | 870.0 | 869.1 |
| 147.5° | 910.9 | 911.3 | 911.8 | 911.6 | 910.9 | 910.0 | 909.3 | 908.4 |
| 150° | 935.3 | 935.9 | 936.5 | 936.5 | 935.9 | 935.3 | 934.6 | 934.1 |
| 152.5° | 959.7 | 960.5 | 961.3 | 961.3 | 960.5 | 959.7 | 958.9 | 958.1 |
| 155° | 990.7 | 991.7 | 992.8 | 993.0 | 992.3 | 991.7 | 991.1 | 990.4 |
| 157.5° | 1019.3 | 1020.7 | 1022.1 | 1022.3 | 1021.3 | 1020.3 | 1019.3 | 1018.3 |
| 160° | 1036.2 | 1037.5 | 1038.8 | 1039.0 | 1038.1 | 1037.3 | 1036.4 | 1035.6 |
| 162.5° | 1051.6 | 1053.0 | 1054.4 | 1054.7 | 1053.7 | 1052.6 | 1051.7 | 1050.7 |
| 165° | 1071.5 | 1072.9 | 1074.4 | 1074.6 | 1073.6 | 1072.5 | 1071.5 | 1070.4 |
| 167.5° | 1087.8 | 1089.3 | 1090.7 | 1090.9 | 1089.9 | 1088.7 | 1087.7 | 1086.6 |
| 170° | 1096.8 | 1098.3 | 1099.8 | 1099.9 | 1098.6 | 1097.4 | 1096.1 | 1094.9 |
| 172.5° | 1103.6 | 1105.1 | 1106.5 | 1106.6 | 1105.4 | 1104.2 | 1102.9 | 1101.6 |
| 175° | 1111.0 | 1112.4 | 1113.9 | 1114.0 | 1112.8 | 1111.4 | 1110.2 | 1109.0 |
| 177.5° | 1114.4 | 1115.4 | 1116.3 | 1116.3 | 1115.4 | 1114.4 | 1113.3 | 1112.4 |
| 180° | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 |

(END OF REPORT)