

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: P333865

Luminaire Tested: **S122RDW-S290D930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDW-S290D930-4F0-1E-UDD-A
Description: DEFINE 2 REGRESSED DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 290 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

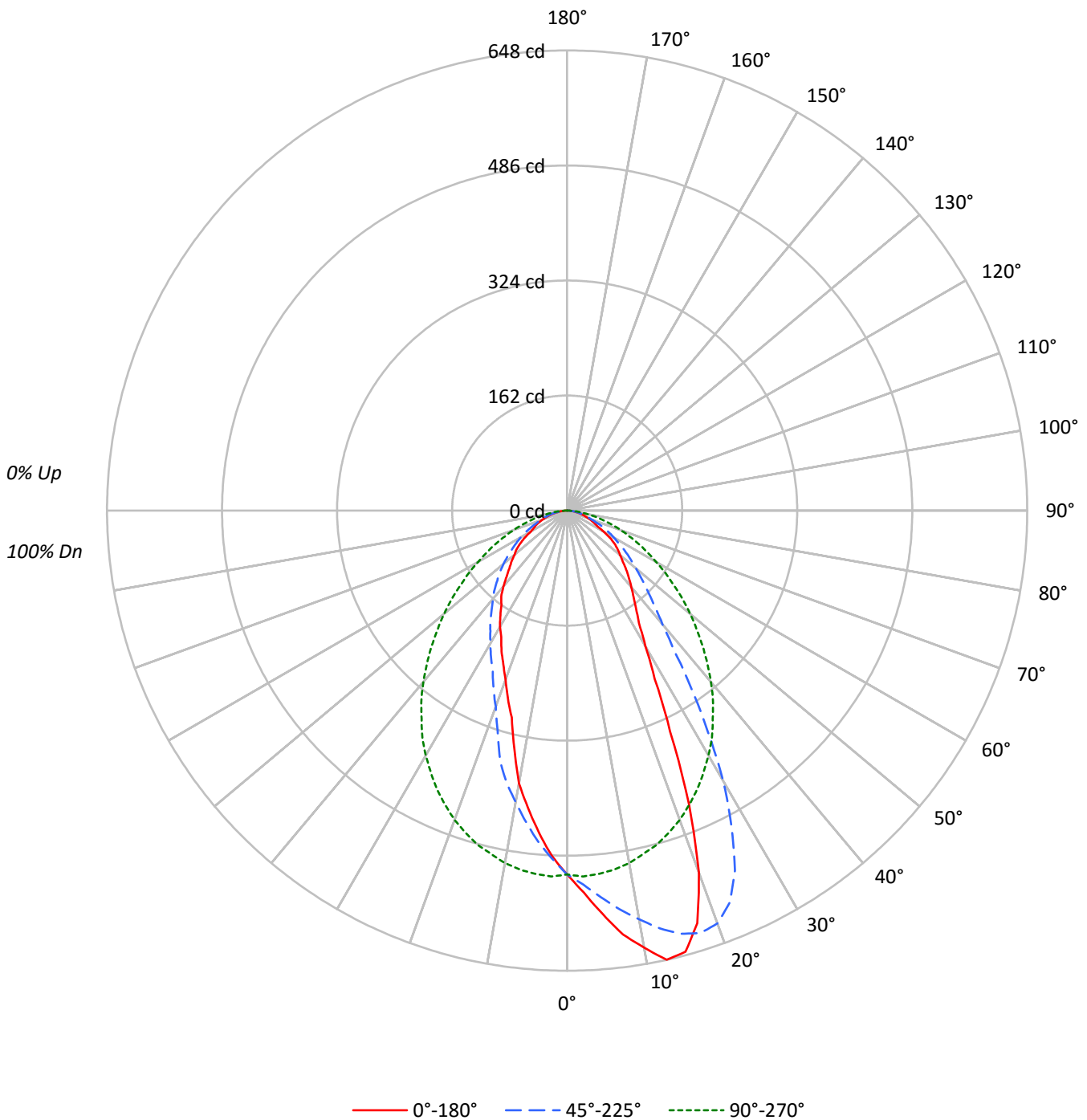
Lumens per Lamp: N/A
Luminaire Lumens: 885.2 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 11.6
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: P333865
CATALOG NUMBER: S122RDW-S290D930-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P333865

CATALOG NUMBER: S122RDW-S290D930-4F0-1E-UDD-A

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 111 | 106 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 |
| 4 | 87 | 77 | 69 | 63 | 85 | 76 | 68 | 63 | 73 | 67 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 59 |
| 5 | 81 | 70 | 62 | 56 | 79 | 69 | 61 | 56 | 67 | 60 | 55 | 65 | 59 | 55 | 63 | 58 | 54 | 52 |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 55 | 50 | 61 | 54 | 49 | 60 | 54 | 49 | 58 | 53 | 49 | 47 |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 39 |
| 9 | 62 | 50 | 43 | 38 | 61 | 50 | 42 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 47 | 41 | 37 | 35 |
| 10 | 59 | 47 | 39 | 35 | 58 | 46 | 39 | 35 | 45 | 39 | 34 | 44 | 38 | 34 | 44 | 38 | 34 | 33 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|------|------|
| 0° | 8272 | 8272 | 8272 |
| 5° | 9238 | 8323 | 7379 |
| 10° | 10248 | 8265 | 6397 |
| 15° | 10753 | 8144 | 5040 |
| 20° | 9321 | 7964 | 4361 |
| 25° | 6114 | 7717 | 3894 |
| 30° | 4115 | 7420 | 3524 |
| 35° | 3333 | 7045 | 3179 |
| 40° | 2963 | 6637 | 2942 |
| 45° | 2683 | 6158 | 2626 |
| 50° | 2442 | 5682 | 2431 |
| 55° | 2294 | 5157 | 2266 |
| 60° | 1921 | 4673 | 1896 |
| 65° | 1620 | 4244 | 1838 |
| 70° | 1496 | 3791 | 1733 |
| 75° | 1397 | 3300 | 1597 |
| 80° | 1292 | 2715 | 1423 |
| 85° | 1186 | 2149 | 1260 |



TEST NUMBER: P333865

CATALOG NUMBER: S122RDW-S290D930-4F0-1E-UDD-A

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 48.6 | 5.5 |
| 10°-20° | 135.6 | 15.3 |
| 20°-30° | 174.5 | 19.7 |
| 30°-40° | 165.6 | 18.7 |
| 40°-50° | 141.9 | 16.0 |
| 50°-60° | 108.1 | 12.2 |
| 60°-70° | 68.2 | 7.7 |
| 70°-80° | 34.0 | 3.8 |
| 80°-90° | 8.7 | 1.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 358.8 | 40.5 |
| 0°-40° | 524.3 | 59.2 |
| 0°-60° | 774.3 | 87.5 |
| 0°-90° | 885.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 885.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 512 | 512 | 512 | 512 | 512 | |
| 5° | 570 | 546 | 514 | 468 | 455 | 56 |
| 15° | 643 | 617 | 487 | 365 | 302 | 175 |
| 25° | 343 | 559 | 433 | 248 | 219 | 162 |
| 35° | 169 | 304 | 357 | 188 | 161 | 108 |
| 45° | 118 | 160 | 270 | 139 | 115 | 91 |
| 55° | 82 | 100 | 183 | 94 | 80 | 72 |
| 65° | 42 | 57 | 111 | 57 | 48 | 43 |
| 75° | 22 | 25 | 53 | 29 | 26 | 24 |
| 85° | 6 | 7 | 12 | 7 | 7 | 7 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P333865

CATALOG NUMBER: S122RDW-S290D930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 |
| 2.5° | 538.3 | 538.8 | 539.3 | 538.1 | 538.1 | 537.0 | 534.7 | 532.9 | 527.9 | 527.2 | 527.2 |
| 5° | 570.0 | 569.6 | 570.3 | 568.0 | 564.8 | 564.1 | 560.7 | 556.2 | 551.6 | 546.5 | 545.4 |
| 7.5° | 602.0 | 599.9 | 599.0 | 600.0 | 596.7 | 592.0 | 586.3 | 581.0 | 573.0 | 566.4 | 562.3 |
| 10° | 625.1 | 631.0 | 627.4 | 621.2 | 622.5 | 614.1 | 609.6 | 602.0 | 595.6 | 584.4 | 581.9 |
| 12.5° | 647.9 | 649.3 | 648.8 | 646.0 | 643.6 | 638.5 | 632.1 | 625.7 | 612.5 | 602.7 | 592.4 |
| 15° | 643.3 | 646.7 | 647.6 | 646.5 | 647.4 | 647.0 | 643.8 | 638.3 | 628.0 | 616.9 | 607.3 |
| 17.5° | 609.1 | 613.0 | 616.2 | 619.1 | 623.5 | 632.3 | 634.9 | 636.0 | 631.7 | 623.9 | 615.9 |
| 20° | 542.5 | 538.6 | 555.0 | 563.4 | 570.5 | 588.3 | 603.6 | 609.5 | 618.9 | 618.7 | 616.9 |
| 22.5° | 448.2 | 450.3 | 465.6 | 476.0 | 500.2 | 518.0 | 536.0 | 562.1 | 582.6 | 597.7 | 607.0 |
| 25° | 343.2 | 349.9 | 365.4 | 379.0 | 402.1 | 435.2 | 465.3 | 500.2 | 533.1 | 559.1 | 583.8 |
| 27.5° | 267.0 | 267.9 | 282.0 | 295.7 | 309.9 | 338.6 | 378.8 | 420.6 | 467.6 | 501.4 | 544.1 |
| 30° | 220.7 | 219.7 | 224.8 | 232.5 | 244.2 | 265.2 | 293.7 | 334.6 | 381.5 | 439.8 | 491.8 |
| 32.5° | 188.0 | 188.3 | 191.9 | 197.0 | 206.3 | 218.8 | 236.0 | 267.4 | 311.0 | 368.1 | 431.3 |
| 35° | 169.1 | 168.9 | 171.8 | 175.9 | 180.0 | 189.0 | 202.4 | 219.8 | 250.3 | 303.8 | 366.1 |
| 37.5° | 153.4 | 154.3 | 155.6 | 158.2 | 163.2 | 168.6 | 176.9 | 189.2 | 212.4 | 245.6 | 301.5 |
| 40° | 140.6 | 141.0 | 142.9 | 145.1 | 147.7 | 151.7 | 158.2 | 167.7 | 183.5 | 208.8 | 247.1 |
| 42.5° | 128.9 | 129.2 | 130.5 | 132.4 | 134.4 | 138.3 | 143.5 | 151.3 | 163.4 | 181.7 | 211.6 |
| 45° | 117.5 | 117.5 | 118.7 | 119.6 | 121.9 | 125.5 | 129.9 | 136.7 | 145.6 | 160.2 | 181.2 |
| 47.5° | 106.4 | 106.4 | 107.3 | 108.9 | 110.5 | 113.4 | 118.0 | 123.7 | 130.1 | 142.0 | 160.7 |
| 50° | 97.2 | 97.4 | 97.9 | 99.1 | 100.0 | 102.5 | 105.9 | 110.7 | 117.5 | 126.2 | 141.2 |
| 52.5° | 89.7 | 89.5 | 90.2 | 90.6 | 91.1 | 92.7 | 95.1 | 99.1 | 105.0 | 112.3 | 124.1 |
| 55° | 81.5 | 80.8 | 81.9 | 82.8 | 83.3 | 84.0 | 85.4 | 88.1 | 93.3 | 99.7 | 108.9 |
| 57.5° | 71.9 | 71.6 | 72.1 | 73.0 | 74.6 | 76.4 | 77.3 | 79.0 | 81.7 | 86.7 | 96.5 |
| 60° | 59.5 | 59.5 | 61.1 | 61.6 | 63.5 | 66.0 | 68.5 | 70.0 | 72.6 | 75.6 | 82.4 |
| 62.5° | 48.4 | 48.6 | 49.1 | 49.7 | 50.6 | 53.8 | 57.5 | 61.1 | 63.5 | 66.4 | 70.3 |
| 65° | 42.4 | 42.7 | 42.7 | 43.1 | 43.8 | 44.5 | 45.9 | 48.4 | 52.9 | 57.0 | 60.3 |
| 67.5° | 37.0 | 37.0 | 37.2 | 37.6 | 37.7 | 38.6 | 39.2 | 40.4 | 41.3 | 45.9 | 50.6 |
| 70° | 31.7 | 32.2 | 32.0 | 32.4 | 32.6 | 32.9 | 33.6 | 34.2 | 35.8 | 36.7 | 39.2 |
| 72.5° | 26.7 | 27.1 | 27.1 | 27.2 | 27.8 | 27.8 | 28.3 | 28.8 | 29.7 | 30.4 | 31.5 |
| 75° | 22.4 | 22.2 | 22.4 | 22.8 | 23.0 | 23.1 | 23.1 | 23.9 | 24.4 | 25.1 | 26.0 |
| 77.5° | 18.2 | 18.3 | 18.3 | 18.3 | 18.3 | 18.7 | 18.7 | 19.0 | 19.6 | 19.9 | 20.5 |
| 80° | 13.9 | 14.1 | 13.9 | 14.1 | 14.2 | 14.4 | 14.2 | 14.4 | 15.0 | 15.3 | 15.3 |
| 82.5° | 10.0 | 10.0 | 10.1 | 10.1 | 10.1 | 10.1 | 10.5 | 10.5 | 10.9 | 10.7 | 10.9 |
| 85° | 6.4 | 6.2 | 6.2 | 6.2 | 6.4 | 6.6 | 6.4 | 6.4 | 6.6 | 6.6 | 6.6 |
| 87.5° | 2.8 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.2 | 3.0 | 3.2 | 3.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P333865

CATALOG NUMBER: S122RDW-S290D930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 |
| 2.5° | 527.6 | 526.2 | 524.9 | 521.7 | 520.1 | 516.6 | 516.0 | 515.8 | 511.2 | 506.8 | 505.5 |
| 5° | 542.5 | 539.7 | 535.4 | 530.4 | 525.3 | 519.9 | 516.4 | 513.5 | 506.4 | 499.6 | 495.7 |
| 7.5° | 557.3 | 552.2 | 545.4 | 536.8 | 529.5 | 521.0 | 515.1 | 509.8 | 500.0 | 491.1 | 485.2 |
| 10° | 574.2 | 564.3 | 554.5 | 541.5 | 531.3 | 521.4 | 512.1 | 504.1 | 492.7 | 479.9 | 470.8 |
| 12.5° | 584.7 | 573.5 | 559.1 | 546.5 | 532.6 | 519.2 | 506.1 | 495.2 | 481.3 | 468.0 | 456.7 |
| 15° | 594.0 | 582.2 | 565.9 | 547.7 | 530.8 | 514.2 | 500.0 | 487.2 | 469.7 | 453.9 | 440.7 |
| 17.5° | 602.5 | 586.3 | 569.4 | 548.4 | 529.7 | 509.6 | 491.6 | 475.6 | 456.6 | 437.9 | 422.9 |
| 20° | 606.3 | 590.2 | 570.0 | 548.9 | 525.8 | 501.1 | 481.3 | 463.5 | 442.7 | 421.9 | 404.1 |
| 22.5° | 604.0 | 592.4 | 569.2 | 543.1 | 519.2 | 493.1 | 470.1 | 448.7 | 425.1 | 403.7 | 382.3 |
| 25° | 591.8 | 587.6 | 566.2 | 538.8 | 511.7 | 481.7 | 455.9 | 433.2 | 406.9 | 384.1 | 361.7 |
| 27.5° | 569.6 | 575.8 | 560.7 | 531.0 | 501.8 | 469.4 | 441.3 | 415.8 | 388.9 | 363.5 | 341.0 |
| 30° | 534.4 | 555.5 | 549.8 | 522.8 | 489.1 | 457.5 | 424.9 | 398.0 | 368.8 | 342.5 | 320.4 |
| 32.5° | 486.1 | 524.6 | 532.9 | 511.4 | 476.3 | 440.7 | 406.2 | 379.5 | 348.7 | 320.6 | 299.2 |
| 35° | 434.3 | 486.6 | 510.7 | 496.3 | 461.4 | 423.8 | 388.6 | 357.4 | 326.8 | 299.4 | 278.0 |
| 37.5° | 372.9 | 442.7 | 479.7 | 478.1 | 444.8 | 406.5 | 368.3 | 337.5 | 306.0 | 278.9 | 256.7 |
| 40° | 313.5 | 390.7 | 442.9 | 454.4 | 427.4 | 385.2 | 346.4 | 314.9 | 284.3 | 257.9 | 231.4 |
| 42.5° | 260.1 | 337.0 | 404.1 | 426.3 | 406.2 | 364.4 | 325.4 | 292.1 | 262.5 | 238.0 | 210.8 |
| 45° | 218.9 | 286.2 | 356.9 | 392.8 | 380.9 | 342.1 | 301.0 | 269.7 | 241.7 | 220.2 | 194.2 |
| 47.5° | 189.6 | 238.5 | 309.5 | 356.5 | 355.1 | 318.3 | 277.3 | 247.2 | 220.9 | 201.0 | 178.9 |
| 50° | 165.2 | 206.5 | 264.3 | 319.5 | 324.1 | 294.4 | 256.0 | 226.2 | 202.0 | 180.8 | 163.9 |
| 52.5° | 143.3 | 175.5 | 226.1 | 278.4 | 293.7 | 269.0 | 231.9 | 205.1 | 181.7 | 162.7 | 148.8 |
| 55° | 124.8 | 151.1 | 190.6 | 240.1 | 260.1 | 241.9 | 208.8 | 183.2 | 164.1 | 147.7 | 135.3 |
| 57.5° | 108.6 | 129.2 | 162.2 | 203.6 | 226.2 | 214.0 | 185.7 | 164.5 | 147.6 | 132.3 | 122.3 |
| 60° | 93.4 | 109.6 | 136.5 | 169.8 | 195.4 | 187.4 | 164.1 | 144.7 | 130.8 | 118.0 | 108.8 |
| 62.5° | 79.2 | 92.6 | 114.6 | 140.1 | 163.0 | 160.9 | 142.9 | 127.4 | 115.7 | 104.3 | 96.8 |
| 65° | 66.0 | 76.2 | 94.2 | 115.3 | 134.2 | 135.8 | 122.1 | 111.1 | 100.2 | 91.0 | 84.0 |
| 67.5° | 54.6 | 61.6 | 75.1 | 93.8 | 108.2 | 113.2 | 104.0 | 95.1 | 86.2 | 78.7 | 72.4 |
| 70° | 44.3 | 49.7 | 58.9 | 73.3 | 86.3 | 91.7 | 86.9 | 80.3 | 72.8 | 66.9 | 61.8 |
| 72.5° | 33.8 | 39.0 | 45.2 | 54.8 | 65.5 | 71.4 | 70.5 | 66.2 | 60.5 | 55.9 | 51.1 |
| 75° | 27.1 | 28.7 | 33.3 | 40.4 | 49.1 | 54.1 | 55.4 | 52.9 | 48.1 | 44.3 | 41.5 |
| 77.5° | 21.0 | 22.1 | 24.6 | 28.8 | 34.9 | 39.3 | 41.3 | 40.9 | 37.4 | 34.9 | 32.2 |
| 80° | 16.0 | 16.6 | 17.6 | 19.2 | 23.5 | 27.9 | 29.2 | 29.2 | 26.9 | 26.0 | 23.3 |
| 82.5° | 11.2 | 11.6 | 12.1 | 12.8 | 14.2 | 18.0 | 19.4 | 19.8 | 18.5 | 17.3 | 15.3 |
| 85° | 6.9 | 6.8 | 7.1 | 7.7 | 8.0 | 9.1 | 11.2 | 11.6 | 11.2 | 9.8 | 9.3 |
| 87.5° | 3.0 | 3.2 | 3.2 | 3.0 | 3.2 | 3.4 | 4.3 | 5.2 | 4.4 | 3.9 | 3.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P333865

CATALOG NUMBER: S122RDW-S290D930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 |
| 2.5° | 503.2 | 502.0 | 499.6 | 496.1 | 493.9 | 490.2 | 487.7 | 489.1 | 489.5 | 489.1 | 488.8 |
| 5° | 491.5 | 487.7 | 482.6 | 477.6 | 472.9 | 468.0 | 465.1 | 463.9 | 461.4 | 459.9 | 459.2 |
| 7.5° | 478.1 | 472.6 | 465.3 | 457.3 | 449.8 | 442.7 | 439.5 | 437.0 | 432.4 | 429.9 | 427.6 |
| 10° | 462.8 | 452.7 | 445.4 | 434.0 | 427.0 | 416.9 | 409.9 | 410.1 | 403.2 | 399.3 | 396.4 |
| 12.5° | 445.9 | 434.5 | 421.1 | 411.2 | 400.9 | 393.2 | 384.5 | 380.2 | 372.7 | 369.0 | 360.1 |
| 15° | 426.8 | 413.8 | 401.0 | 387.1 | 377.4 | 364.7 | 352.6 | 337.8 | 325.9 | 315.6 | 312.7 |
| 17.5° | 406.5 | 390.5 | 377.9 | 363.7 | 348.3 | 325.4 | 310.4 | 301.4 | 294.2 | 288.9 | 284.6 |
| 20° | 385.5 | 369.2 | 355.5 | 330.9 | 308.3 | 293.9 | 283.6 | 277.0 | 269.5 | 263.6 | 260.4 |
| 22.5° | 363.5 | 346.2 | 326.3 | 298.1 | 281.8 | 270.9 | 262.0 | 254.2 | 249.7 | 245.5 | 242.6 |
| 25° | 342.8 | 324.1 | 293.3 | 274.5 | 260.2 | 248.1 | 241.7 | 237.1 | 231.8 | 225.5 | 222.7 |
| 27.5° | 321.3 | 291.6 | 268.2 | 254.5 | 239.9 | 232.3 | 226.8 | 219.1 | 214.3 | 212.0 | 208.8 |
| 30° | 296.5 | 266.8 | 249.6 | 234.2 | 224.6 | 215.9 | 209.1 | 205.2 | 200.6 | 195.8 | 193.8 |
| 32.5° | 269.0 | 246.7 | 230.3 | 218.2 | 208.4 | 201.3 | 196.3 | 189.4 | 186.4 | 183.9 | 179.2 |
| 35° | 247.1 | 229.1 | 214.0 | 203.6 | 194.4 | 188.3 | 182.1 | 178.4 | 172.3 | 169.8 | 168.2 |
| 37.5° | 227.1 | 211.5 | 200.1 | 188.7 | 181.6 | 174.4 | 170.9 | 164.6 | 162.3 | 158.4 | 155.2 |
| 40° | 210.8 | 195.4 | 184.6 | 175.7 | 167.5 | 162.5 | 157.7 | 152.9 | 149.0 | 147.4 | 143.3 |
| 42.5° | 194.0 | 182.3 | 171.4 | 161.4 | 156.6 | 151.3 | 144.9 | 141.7 | 137.6 | 134.7 | 132.6 |
| 45° | 178.9 | 167.9 | 158.6 | 150.6 | 144.5 | 139.0 | 135.1 | 129.2 | 126.9 | 121.8 | 119.6 |
| 47.5° | 165.5 | 154.9 | 146.0 | 138.1 | 132.1 | 128.9 | 123.2 | 118.0 | 114.8 | 111.2 | 108.2 |
| 50° | 151.1 | 142.6 | 134.0 | 127.3 | 121.9 | 116.8 | 110.9 | 108.6 | 102.9 | 101.3 | 99.7 |
| 52.5° | 137.9 | 129.9 | 122.3 | 115.7 | 110.4 | 105.4 | 100.4 | 97.2 | 93.8 | 92.2 | 91.1 |
| 55° | 125.8 | 118.0 | 110.5 | 104.7 | 99.3 | 94.2 | 91.0 | 87.2 | 85.4 | 84.2 | 82.8 |
| 57.5° | 113.4 | 106.3 | 100.4 | 94.3 | 89.0 | 84.7 | 80.8 | 78.7 | 76.9 | 75.5 | 73.5 |
| 60° | 101.6 | 94.9 | 89.7 | 84.2 | 78.7 | 75.3 | 72.4 | 69.8 | 67.6 | 65.1 | 64.4 |
| 62.5° | 89.2 | 83.5 | 78.9 | 73.5 | 68.9 | 65.9 | 63.2 | 60.7 | 58.0 | 54.1 | 53.0 |
| 65° | 78.0 | 73.3 | 68.4 | 63.9 | 59.6 | 56.6 | 52.7 | 49.8 | 48.8 | 48.4 | 48.2 |
| 67.5° | 67.6 | 63.2 | 58.9 | 54.3 | 50.4 | 47.0 | 44.7 | 44.3 | 43.6 | 43.4 | 42.9 |
| 70° | 57.3 | 53.2 | 48.9 | 44.7 | 40.9 | 40.4 | 39.7 | 39.0 | 38.1 | 37.7 | 37.4 |
| 72.5° | 48.1 | 43.8 | 39.5 | 36.3 | 35.2 | 34.5 | 33.8 | 33.1 | 32.6 | 32.2 | 32.0 |
| 75° | 38.3 | 34.4 | 31.5 | 30.3 | 29.4 | 28.8 | 27.8 | 27.2 | 26.9 | 26.3 | 26.2 |
| 77.5° | 29.2 | 26.7 | 25.3 | 24.6 | 23.5 | 23.0 | 22.2 | 21.7 | 21.2 | 21.2 | 20.8 |
| 80° | 21.0 | 19.9 | 19.0 | 18.0 | 17.6 | 16.9 | 16.7 | 16.2 | 16.4 | 15.8 | 15.8 |
| 82.5° | 15.1 | 13.7 | 13.0 | 12.6 | 12.3 | 11.7 | 11.6 | 11.4 | 11.4 | 11.0 | 11.0 |
| 85° | 8.4 | 8.0 | 7.7 | 7.3 | 7.3 | 6.8 | 6.9 | 6.8 | 6.8 | 6.4 | 6.2 |
| 87.5° | 3.4 | 3.2 | 2.8 | 2.8 | 2.8 | 2.7 | 2.7 | 2.5 | 2.5 | 2.5 | 2.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P333865

CATALOG NUMBER: S122RDW-S290D930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 512.3 | 512.3 | 512.3 | 512.3 |
| 2.5° | 486.8 | 487.2 | 486.6 | 487.0 |
| 5° | 458.3 | 456.2 | 455.9 | 455.3 |
| 7.5° | 424.7 | 424.5 | 423.5 | 422.2 |
| 10° | 392.5 | 391.6 | 391.4 | 390.2 |
| 12.5° | 354.8 | 347.8 | 347.1 | 343.5 |
| 15° | 308.5 | 307.4 | 303.8 | 301.5 |
| 17.5° | 282.7 | 279.1 | 277.9 | 277.3 |
| 20° | 257.9 | 254.7 | 254.2 | 253.8 |
| 22.5° | 240.8 | 237.5 | 235.8 | 234.6 |
| 25° | 220.9 | 219.7 | 218.9 | 218.6 |
| 27.5° | 205.2 | 202.0 | 201.7 | 200.8 |
| 30° | 192.2 | 191.3 | 190.1 | 189.0 |
| 32.5° | 176.9 | 176.2 | 175.2 | 174.8 |
| 35° | 166.4 | 163.9 | 162.9 | 161.3 |
| 37.5° | 154.9 | 153.4 | 151.7 | 152.4 |
| 40° | 141.0 | 140.1 | 139.7 | 139.6 |
| 42.5° | 129.9 | 127.1 | 126.0 | 126.0 |
| 45° | 118.7 | 116.4 | 114.8 | 115.0 |
| 47.5° | 106.6 | 106.8 | 105.7 | 106.1 |
| 50° | 98.4 | 97.4 | 96.7 | 96.8 |
| 52.5° | 90.6 | 89.7 | 89.2 | 90.1 |
| 55° | 81.9 | 80.8 | 80.6 | 80.5 |
| 57.5° | 72.4 | 71.9 | 71.0 | 70.5 |
| 60° | 62.1 | 60.7 | 58.9 | 58.7 |
| 62.5° | 52.7 | 52.7 | 52.7 | 52.7 |
| 65° | 47.9 | 47.7 | 47.9 | 48.1 |
| 67.5° | 42.9 | 42.5 | 42.2 | 42.4 |
| 70° | 37.0 | 36.8 | 36.7 | 36.7 |
| 72.5° | 31.3 | 31.3 | 31.1 | 31.0 |
| 75° | 26.0 | 25.6 | 25.6 | 25.6 |
| 77.5° | 20.8 | 20.6 | 20.5 | 20.3 |
| 80° | 15.7 | 15.5 | 15.3 | 15.3 |
| 82.5° | 11.0 | 10.9 | 10.9 | 10.7 |
| 85° | 6.4 | 6.6 | 6.4 | 6.8 |
| 87.5° | 2.3 | 2.1 | 2.3 | 2.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)