

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: P333745

Luminaire Tested: **S122DW-S290D835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DW-S290D835-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 290 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

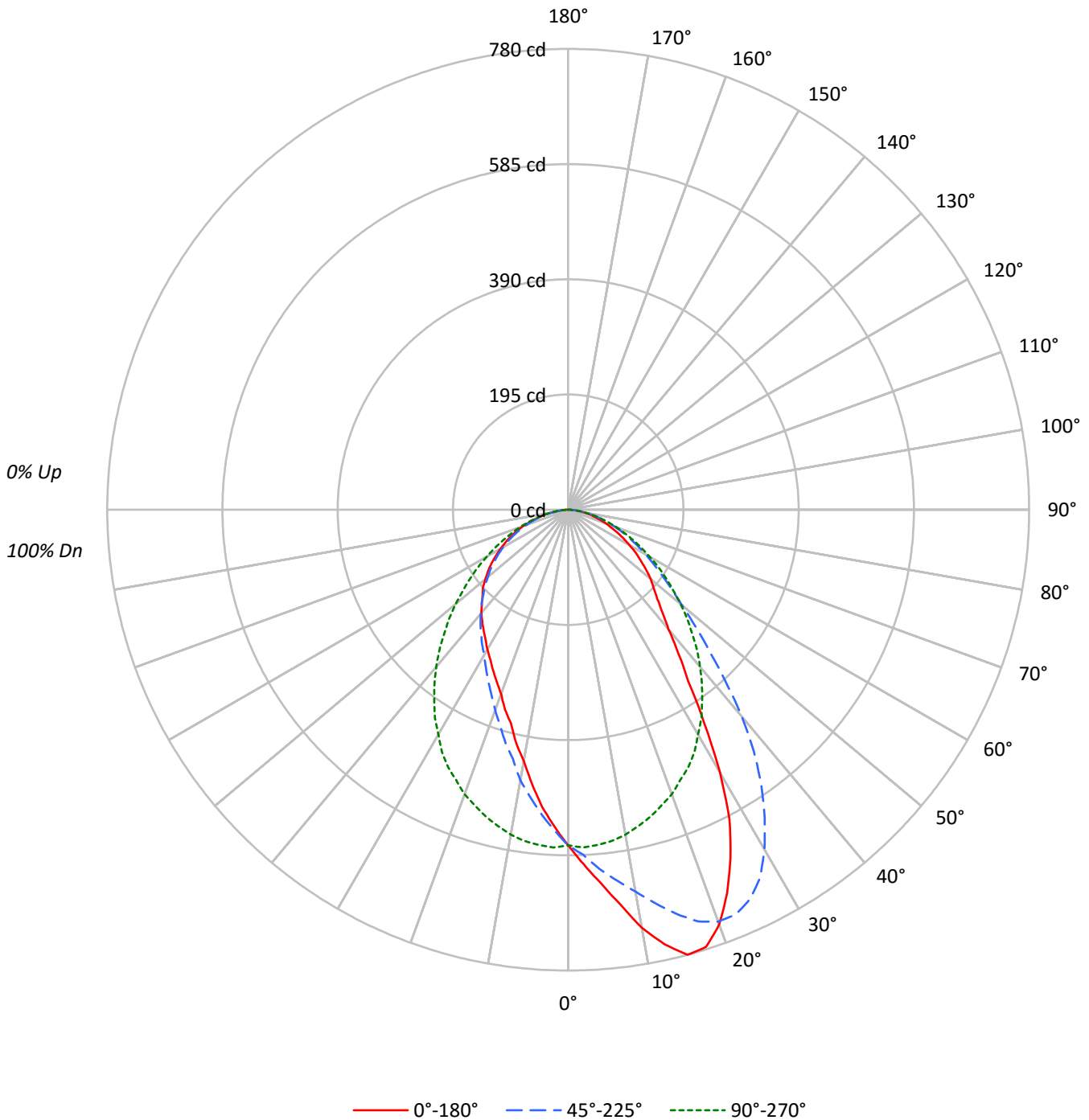
Lumens per Lamp: N/A
Luminaire Lumens: 1253.3 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

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: P333745
CATALOG NUMBER: S122DW-S290D835-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P333745

CATALOG NUMBER: S122DW-S290D835-4F0-1E-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 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 101 | 94 | 87 | 82 | 98 | 92 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 78 | 82 | 79 | 76 | 74 |
| 3 | 93 | 83 | 76 | 70 | 90 | 82 | 75 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 74 | 69 | 66 | 64 |
| 4 | 86 | 75 | 66 | 60 | 83 | 73 | 66 | 60 | 71 | 64 | 59 | 69 | 63 | 58 | 66 | 62 | 58 | 55 |
| 5 | 79 | 67 | 59 | 53 | 77 | 66 | 58 | 52 | 64 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 51 | 49 |
| 6 | 74 | 61 | 53 | 47 | 72 | 60 | 52 | 46 | 58 | 51 | 46 | 57 | 51 | 46 | 55 | 50 | 45 | 43 |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 47 | 42 | 54 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 39 |
| 8 | 64 | 51 | 43 | 38 | 63 | 51 | 43 | 38 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 35 |
| 9 | 60 | 47 | 39 | 34 | 59 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 32 |
| 10 | 56 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 41 | 35 | 31 | 29 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|------|------|
| 0° | 9172 | 9172 | 9172 |
| 5° | 10284 | 9232 | 8182 |
| 10° | 11785 | 9157 | 7081 |
| 15° | 13036 | 8990 | 6255 |
| 20° | 12837 | 8809 | 5703 |
| 25° | 11576 | 8569 | 5352 |
| 30° | 9566 | 8186 | 5097 |
| 35° | 6972 | 7786 | 4914 |
| 40° | 5569 | 7312 | 4814 |
| 45° | 4866 | 6766 | 4676 |
| 50° | 4574 | 6234 | 4584 |
| 55° | 4217 | 5697 | 4462 |
| 60° | 3862 | 5125 | 4272 |
| 65° | 3519 | 4611 | 4088 |
| 70° | 3196 | 4112 | 3814 |
| 75° | 2832 | 3556 | 3375 |
| 80° | 2436 | 2947 | 2724 |
| 85° | 2186 | 2186 | 1612 |



TEST NUMBER: P333745

CATALOG NUMBER: S122DW-S290D835-4F0-1E-UDD-A

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.1 | 4.3 |
| 10°-20° | 157.5 | 12.6 |
| 20°-30° | 228.6 | 18.2 |
| 30°-40° | 241.0 | 19.2 |
| 40°-50° | 213.2 | 17.0 |
| 50°-60° | 170.2 | 13.6 |
| 60°-70° | 115.6 | 9.2 |
| 70°-80° | 59.2 | 4.7 |
| 80°-90° | 14.0 | 1.1 |
| 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° | 440.2 | 35.1 |
| 0°-40° | 681.1 | 54.3 |
| 0°-60° | 1064.5 | 84.9 |
| 0°-90° | 1253.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1253.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 568 | 568 | 568 | 568 | 568 | |
| 5° | 634 | 611 | 570 | 518 | 505 | 63 |
| 15° | 780 | 708 | 538 | 409 | 374 | 216 |
| 25° | 650 | 728 | 481 | 320 | 300 | 295 |
| 35° | 354 | 570 | 395 | 257 | 249 | 229 |
| 45° | 213 | 337 | 296 | 203 | 205 | 167 |
| 55° | 150 | 194 | 202 | 153 | 158 | 134 |
| 65° | 92 | 115 | 121 | 101 | 107 | 91 |
| 75° | 45 | 56 | 57 | 51 | 54 | 48 |
| 85° | 12 | 13 | 12 | 10 | 9 | 13 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P333745

CATALOG NUMBER: S122DW-S290D835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 |
| 2.5° | 600.9 | 601.1 | 601.5 | 598.0 | 597.6 | 597.6 | 594.5 | 591.9 | 588.9 | 584.7 | 585.1 |
| 5° | 634.5 | 636.9 | 637.8 | 635.1 | 631.2 | 630.8 | 627.1 | 620.9 | 615.3 | 610.7 | 607.4 |
| 7.5° | 673.3 | 674.2 | 672.5 | 669.4 | 666.8 | 661.8 | 655.7 | 649.8 | 641.0 | 633.2 | 627.5 |
| 10° | 718.8 | 720.1 | 716.4 | 711.3 | 707.2 | 701.1 | 691.0 | 680.8 | 668.3 | 656.3 | 646.7 |
| 12.5° | 753.3 | 757.0 | 752.0 | 752.4 | 744.5 | 735.6 | 723.1 | 719.2 | 700.4 | 682.5 | 672.0 |
| 15° | 779.9 | 779.7 | 780.1 | 776.0 | 770.7 | 769.4 | 756.8 | 743.0 | 718.3 | 708.5 | 691.5 |
| 17.5° | 776.0 | 779.0 | 780.8 | 779.5 | 778.6 | 776.6 | 771.2 | 760.9 | 747.4 | 730.8 | 710.5 |
| 20° | 747.1 | 751.5 | 752.2 | 757.2 | 760.0 | 763.7 | 765.3 | 762.9 | 755.2 | 741.9 | 724.9 |
| 22.5° | 702.6 | 703.0 | 705.4 | 714.0 | 720.9 | 731.6 | 737.3 | 748.0 | 746.3 | 741.5 | 727.9 |
| 25° | 649.8 | 647.6 | 655.2 | 659.2 | 673.3 | 688.2 | 698.9 | 710.7 | 721.2 | 727.5 | 723.3 |
| 27.5° | 591.3 | 586.7 | 598.2 | 608.5 | 618.5 | 633.0 | 649.1 | 668.3 | 683.0 | 702.8 | 707.6 |
| 30° | 513.1 | 515.1 | 526.0 | 537.1 | 554.6 | 577.3 | 596.1 | 617.7 | 641.0 | 664.0 | 679.9 |
| 32.5° | 428.8 | 437.8 | 443.7 | 462.2 | 477.1 | 503.0 | 532.7 | 561.1 | 591.7 | 618.5 | 645.4 |
| 35° | 353.7 | 362.4 | 372.0 | 384.5 | 406.1 | 431.2 | 458.1 | 494.5 | 534.3 | 569.9 | 599.1 |
| 37.5° | 306.1 | 304.6 | 310.5 | 319.6 | 338.2 | 359.8 | 391.7 | 428.8 | 476.4 | 515.9 | 555.2 |
| 40° | 264.2 | 263.3 | 267.2 | 275.5 | 288.9 | 303.7 | 330.8 | 362.4 | 405.9 | 457.0 | 506.1 |
| 42.5° | 235.4 | 236.2 | 238.0 | 243.2 | 251.3 | 262.9 | 281.4 | 307.2 | 346.1 | 393.4 | 447.2 |
| 45° | 213.1 | 214.6 | 217.0 | 219.9 | 225.1 | 235.1 | 246.5 | 265.7 | 297.2 | 337.3 | 389.3 |
| 47.5° | 195.6 | 196.1 | 198.7 | 201.3 | 204.4 | 210.5 | 220.5 | 232.7 | 256.8 | 291.0 | 337.5 |
| 50° | 182.1 | 180.6 | 182.3 | 184.3 | 187.6 | 191.5 | 197.6 | 208.9 | 223.8 | 250.2 | 287.5 |
| 52.5° | 165.5 | 165.9 | 167.5 | 167.9 | 170.7 | 174.7 | 180.1 | 187.1 | 200.2 | 219.4 | 248.5 |
| 55° | 149.8 | 150.9 | 151.7 | 153.1 | 155.7 | 158.5 | 162.9 | 168.1 | 178.6 | 194.1 | 216.8 |
| 57.5° | 134.9 | 135.4 | 136.0 | 138.9 | 140.4 | 143.0 | 147.4 | 152.2 | 159.2 | 171.2 | 189.1 |
| 60° | 119.6 | 119.6 | 121.4 | 122.5 | 124.7 | 127.3 | 130.6 | 135.2 | 141.3 | 150.7 | 164.4 |
| 62.5° | 105.7 | 105.5 | 105.9 | 107.9 | 109.4 | 111.8 | 115.1 | 118.8 | 124.5 | 132.5 | 143.2 |
| 65° | 92.1 | 91.7 | 93.0 | 93.4 | 95.2 | 97.6 | 100.2 | 104.4 | 108.9 | 115.1 | 125.1 |
| 67.5° | 78.6 | 79.3 | 80.1 | 81.0 | 81.9 | 84.7 | 86.5 | 89.5 | 93.4 | 98.7 | 105.7 |
| 70° | 67.7 | 67.7 | 67.7 | 68.3 | 69.6 | 71.0 | 72.7 | 75.1 | 78.8 | 83.2 | 89.3 |
| 72.5° | 55.5 | 56.3 | 57.2 | 56.5 | 58.3 | 59.0 | 61.1 | 62.2 | 65.7 | 68.1 | 73.4 |
| 75° | 45.4 | 45.4 | 45.4 | 46.5 | 47.2 | 47.8 | 49.1 | 50.4 | 52.2 | 55.7 | 58.5 |
| 77.5° | 35.8 | 35.6 | 35.8 | 36.0 | 36.9 | 37.8 | 38.2 | 39.3 | 41.0 | 42.8 | 45.4 |
| 80° | 26.2 | 26.6 | 26.9 | 27.3 | 27.3 | 27.7 | 27.9 | 29.5 | 30.6 | 31.7 | 33.2 |
| 82.5° | 18.8 | 18.8 | 18.8 | 18.8 | 19.0 | 19.2 | 19.9 | 20.1 | 20.3 | 21.2 | 22.3 |
| 85° | 11.8 | 11.6 | 11.6 | 12.0 | 11.8 | 11.8 | 12.2 | 12.7 | 12.7 | 12.9 | 13.5 |
| 87.5° | 5.7 | 5.7 | 5.9 | 5.7 | 5.7 | 5.9 | 5.9 | 5.7 | 5.9 | 6.1 | 6.3 |
| 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: P333745

CATALOG NUMBER: S122DW-S290D835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 |
| 2.5° | 586.7 | 584.9 | 583.8 | 579.9 | 576.4 | 572.9 | 571.8 | 572.3 | 567.5 | 562.9 | 560.9 |
| 5° | 605.7 | 601.3 | 597.1 | 591.3 | 584.3 | 576.6 | 572.7 | 569.6 | 562.0 | 553.7 | 548.9 |
| 7.5° | 622.9 | 617.2 | 609.8 | 599.3 | 589.7 | 578.4 | 571.4 | 565.5 | 554.8 | 543.7 | 536.9 |
| 10° | 638.4 | 629.9 | 619.6 | 606.1 | 593.7 | 579.0 | 568.8 | 558.5 | 545.4 | 531.4 | 522.7 |
| 12.5° | 651.7 | 639.5 | 629.5 | 611.1 | 595.8 | 576.6 | 564.0 | 548.5 | 534.5 | 517.2 | 508.7 |
| 15° | 674.4 | 653.3 | 634.0 | 614.4 | 596.3 | 570.7 | 557.2 | 537.8 | 519.6 | 499.1 | 489.3 |
| 17.5° | 691.3 | 668.3 | 638.6 | 614.8 | 594.7 | 567.5 | 548.0 | 524.9 | 504.4 | 481.6 | 468.5 |
| 20° | 705.2 | 677.9 | 645.4 | 615.7 | 590.4 | 558.1 | 536.5 | 512.7 | 487.5 | 461.1 | 446.7 |
| 22.5° | 713.5 | 684.5 | 652.4 | 612.4 | 581.6 | 550.4 | 521.8 | 495.2 | 469.6 | 440.6 | 425.3 |
| 25° | 714.0 | 687.8 | 653.7 | 610.9 | 574.7 | 539.1 | 506.3 | 481.0 | 450.2 | 423.6 | 401.5 |
| 27.5° | 706.8 | 686.0 | 653.0 | 607.8 | 566.6 | 525.8 | 490.2 | 462.4 | 429.9 | 401.1 | 379.0 |
| 30° | 690.8 | 679.9 | 648.0 | 602.6 | 556.5 | 511.8 | 471.6 | 439.1 | 406.8 | 377.5 | 354.8 |
| 32.5° | 666.1 | 665.9 | 638.9 | 595.2 | 545.8 | 494.1 | 452.2 | 419.2 | 382.5 | 353.9 | 332.5 |
| 35° | 632.3 | 642.8 | 625.1 | 583.4 | 531.9 | 477.5 | 432.5 | 395.0 | 357.9 | 330.3 | 310.0 |
| 37.5° | 589.3 | 613.5 | 606.5 | 567.7 | 514.0 | 459.8 | 410.9 | 371.6 | 336.0 | 307.6 | 287.8 |
| 40° | 544.5 | 577.7 | 582.5 | 549.1 | 494.7 | 438.6 | 386.0 | 346.9 | 312.4 | 287.1 | 267.0 |
| 42.5° | 496.5 | 536.7 | 552.0 | 526.8 | 473.8 | 416.4 | 363.7 | 322.9 | 288.9 | 264.4 | 247.2 |
| 45° | 441.7 | 493.0 | 516.8 | 501.5 | 450.0 | 391.5 | 337.3 | 296.3 | 265.3 | 242.1 | 228.4 |
| 47.5° | 392.1 | 447.8 | 478.2 | 471.0 | 424.4 | 366.4 | 312.9 | 272.9 | 242.1 | 223.4 | 210.5 |
| 50° | 338.9 | 396.5 | 435.1 | 436.9 | 396.5 | 339.1 | 285.4 | 248.2 | 220.5 | 203.3 | 193.2 |
| 52.5° | 292.6 | 346.9 | 389.9 | 401.1 | 365.3 | 310.7 | 260.7 | 223.8 | 200.2 | 184.7 | 176.0 |
| 55° | 253.5 | 300.0 | 346.7 | 363.7 | 334.3 | 281.9 | 234.9 | 202.4 | 179.5 | 168.6 | 160.7 |
| 57.5° | 216.4 | 257.2 | 301.5 | 319.4 | 300.6 | 254.6 | 209.2 | 180.6 | 161.1 | 151.3 | 145.2 |
| 60° | 188.2 | 218.8 | 257.2 | 279.7 | 264.0 | 224.0 | 185.6 | 158.7 | 143.4 | 134.9 | 129.3 |
| 62.5° | 162.0 | 188.2 | 219.2 | 239.3 | 232.5 | 195.4 | 162.0 | 139.1 | 126.4 | 118.6 | 114.8 |
| 65° | 138.0 | 159.4 | 184.5 | 203.5 | 197.8 | 169.2 | 141.0 | 120.7 | 110.3 | 103.9 | 100.7 |
| 67.5° | 117.5 | 133.8 | 151.7 | 169.2 | 164.4 | 143.2 | 119.4 | 103.1 | 95.0 | 89.3 | 87.3 |
| 70° | 98.3 | 110.0 | 125.5 | 138.9 | 135.2 | 118.6 | 100.7 | 87.1 | 80.3 | 75.8 | 73.8 |
| 72.5° | 79.9 | 89.1 | 100.0 | 110.3 | 108.1 | 95.0 | 80.8 | 71.4 | 66.6 | 62.4 | 60.9 |
| 75° | 63.1 | 70.5 | 77.7 | 84.9 | 84.3 | 73.6 | 64.8 | 57.0 | 52.8 | 49.6 | 48.9 |
| 77.5° | 49.3 | 53.9 | 59.2 | 63.8 | 62.7 | 55.7 | 48.5 | 43.7 | 40.4 | 38.2 | 38.0 |
| 80° | 35.6 | 38.0 | 41.5 | 44.5 | 43.0 | 40.4 | 34.9 | 31.7 | 29.5 | 27.3 | 26.4 |
| 82.5° | 23.4 | 25.8 | 27.5 | 28.8 | 27.7 | 25.3 | 22.5 | 20.5 | 19.4 | 18.1 | 17.9 |
| 85° | 13.5 | 14.8 | 15.7 | 16.2 | 15.7 | 14.2 | 12.7 | 11.8 | 10.7 | 10.0 | 9.8 |
| 87.5° | 6.6 | 6.6 | 6.6 | 7.0 | 6.3 | 6.3 | 5.5 | 4.8 | 4.6 | 4.4 | 3.9 |
| 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: P333745

CATALOG NUMBER: S122DW-S290D835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 |
| 2.5° | 558.7 | 557.4 | 552.8 | 550.4 | 546.5 | 542.8 | 540.4 | 541.5 | 542.3 | 541.9 | 541.3 |
| 5° | 544.5 | 540.4 | 534.1 | 528.6 | 524.7 | 517.5 | 514.4 | 512.9 | 511.6 | 510.0 | 508.5 |
| 7.5° | 528.8 | 522.9 | 514.0 | 507.0 | 500.0 | 490.8 | 486.2 | 483.6 | 480.8 | 477.5 | 474.4 |
| 10° | 511.8 | 502.6 | 493.0 | 482.1 | 473.4 | 465.3 | 458.1 | 453.3 | 448.9 | 444.8 | 441.7 |
| 12.5° | 493.9 | 483.0 | 470.5 | 454.6 | 444.8 | 432.3 | 432.7 | 423.4 | 415.9 | 413.7 | 410.0 |
| 15° | 474.7 | 459.8 | 444.8 | 427.1 | 419.4 | 408.9 | 402.4 | 395.8 | 389.9 | 385.8 | 384.7 |
| 17.5° | 453.7 | 433.8 | 419.2 | 406.1 | 393.7 | 383.0 | 377.3 | 372.0 | 367.0 | 360.9 | 360.7 |
| 20° | 429.0 | 412.4 | 396.1 | 384.9 | 372.0 | 361.1 | 353.7 | 348.5 | 344.3 | 341.0 | 338.2 |
| 22.5° | 405.7 | 387.1 | 372.5 | 360.0 | 347.4 | 339.1 | 333.6 | 328.6 | 325.3 | 321.6 | 319.0 |
| 25° | 380.3 | 366.1 | 349.8 | 336.0 | 325.5 | 319.9 | 315.1 | 310.7 | 308.5 | 306.1 | 303.1 |
| 27.5° | 358.7 | 343.0 | 326.8 | 316.2 | 306.5 | 301.5 | 297.8 | 294.5 | 292.6 | 291.0 | 289.1 |
| 30° | 335.6 | 319.6 | 307.6 | 297.2 | 289.5 | 284.5 | 282.3 | 280.6 | 278.2 | 277.3 | 276.4 |
| 32.5° | 313.3 | 299.3 | 289.5 | 280.8 | 273.6 | 270.7 | 268.8 | 267.2 | 265.5 | 264.6 | 262.7 |
| 35° | 292.6 | 280.6 | 270.5 | 265.5 | 259.6 | 256.8 | 255.2 | 253.1 | 251.3 | 250.4 | 250.2 |
| 37.5° | 272.7 | 261.8 | 255.0 | 248.2 | 245.4 | 243.9 | 241.7 | 240.2 | 239.5 | 239.3 | 239.1 |
| 40° | 253.5 | 245.0 | 239.1 | 233.8 | 232.7 | 230.1 | 228.4 | 227.1 | 227.1 | 227.3 | 227.1 |
| 42.5° | 236.0 | 228.6 | 223.6 | 219.2 | 217.9 | 216.6 | 214.8 | 215.1 | 215.5 | 216.4 | 215.5 |
| 45° | 218.3 | 212.9 | 209.2 | 207.0 | 204.6 | 203.1 | 202.8 | 203.5 | 203.7 | 203.9 | 204.6 |
| 47.5° | 201.7 | 198.2 | 194.8 | 192.1 | 191.0 | 190.8 | 190.4 | 191.5 | 192.6 | 192.8 | 193.9 |
| 50° | 187.3 | 183.2 | 180.3 | 178.8 | 177.9 | 177.5 | 177.9 | 179.3 | 180.1 | 181.2 | 181.9 |
| 52.5° | 171.2 | 168.6 | 166.8 | 165.7 | 165.5 | 165.9 | 165.9 | 167.5 | 169.0 | 169.2 | 169.4 |
| 55° | 156.5 | 154.4 | 153.9 | 152.0 | 152.8 | 152.6 | 153.7 | 154.6 | 155.9 | 157.2 | 157.4 |
| 57.5° | 141.7 | 139.7 | 138.4 | 138.6 | 138.9 | 139.7 | 140.6 | 142.1 | 143.7 | 145.2 | 145.2 |
| 60° | 126.9 | 126.0 | 125.3 | 125.3 | 125.8 | 127.1 | 128.2 | 129.7 | 130.6 | 131.4 | 132.1 |
| 62.5° | 113.3 | 112.4 | 111.8 | 112.2 | 113.5 | 114.2 | 115.5 | 116.2 | 117.0 | 117.9 | 118.1 |
| 65° | 98.9 | 98.5 | 99.1 | 99.6 | 99.8 | 100.9 | 102.4 | 103.1 | 103.9 | 104.4 | 105.9 |
| 67.5° | 85.8 | 85.8 | 85.6 | 86.2 | 87.6 | 87.8 | 89.3 | 91.0 | 91.0 | 91.9 | 93.0 |
| 70° | 72.5 | 72.9 | 73.4 | 73.8 | 74.9 | 75.3 | 76.4 | 77.1 | 77.9 | 78.6 | 79.3 |
| 72.5° | 60.3 | 60.3 | 60.7 | 60.5 | 61.4 | 62.4 | 63.3 | 64.0 | 64.8 | 65.7 | 66.4 |
| 75° | 48.3 | 48.3 | 48.7 | 48.9 | 50.0 | 51.1 | 50.9 | 51.3 | 52.2 | 53.1 | 53.5 |
| 77.5° | 37.3 | 36.9 | 37.3 | 37.6 | 38.0 | 38.9 | 39.1 | 39.7 | 40.8 | 40.6 | 41.0 |
| 80° | 26.9 | 26.2 | 26.9 | 27.1 | 27.1 | 28.2 | 28.2 | 28.6 | 29.3 | 28.6 | 29.3 |
| 82.5° | 17.2 | 17.0 | 17.5 | 17.5 | 17.9 | 17.7 | 18.1 | 18.1 | 18.8 | 18.6 | 18.8 |
| 85° | 9.6 | 9.4 | 9.6 | 9.4 | 9.6 | 9.8 | 9.8 | 9.6 | 9.6 | 10.0 | 9.4 |
| 87.5° | 3.7 | 3.5 | 3.3 | 3.3 | 3.1 | 2.8 | 2.6 | 2.6 | 2.6 | 2.2 | 2.2 |
| 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: P333745

CATALOG NUMBER: S122DW-S290D835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 568.1 | 568.1 | 568.1 | 568.1 |
| 2.5° | 539.1 | 538.6 | 538.6 | 536.7 |
| 5° | 505.4 | 504.8 | 503.7 | 504.8 |
| 7.5° | 473.6 | 470.7 | 470.3 | 468.1 |
| 10° | 438.0 | 436.2 | 436.0 | 431.9 |
| 12.5° | 410.9 | 406.1 | 407.2 | 405.2 |
| 15° | 378.8 | 378.8 | 377.9 | 374.2 |
| 17.5° | 355.9 | 355.7 | 353.7 | 355.0 |
| 20° | 335.8 | 334.5 | 331.9 | 331.9 |
| 22.5° | 316.8 | 317.0 | 314.2 | 315.3 |
| 25° | 302.8 | 301.1 | 299.8 | 300.4 |
| 27.5° | 288.4 | 287.8 | 287.5 | 285.6 |
| 30° | 276.2 | 274.0 | 274.4 | 273.4 |
| 32.5° | 262.2 | 261.8 | 261.1 | 260.3 |
| 35° | 249.8 | 250.0 | 248.9 | 249.3 |
| 37.5° | 238.6 | 239.5 | 238.9 | 238.9 |
| 40° | 227.7 | 227.7 | 227.7 | 228.4 |
| 42.5° | 217.2 | 216.8 | 216.4 | 216.2 |
| 45° | 205.0 | 205.7 | 205.9 | 204.8 |
| 47.5° | 194.3 | 194.5 | 194.3 | 195.6 |
| 50° | 183.0 | 182.5 | 183.0 | 182.5 |
| 52.5° | 171.0 | 171.2 | 170.7 | 170.7 |
| 55° | 158.3 | 158.7 | 158.5 | 158.5 |
| 57.5° | 145.4 | 145.6 | 146.1 | 145.0 |
| 60° | 131.9 | 133.0 | 132.7 | 132.3 |
| 62.5° | 119.4 | 119.6 | 119.6 | 119.6 |
| 65° | 106.5 | 107.0 | 106.3 | 107.0 |
| 67.5° | 92.6 | 92.8 | 93.2 | 93.4 |
| 70° | 79.7 | 79.5 | 80.1 | 80.8 |
| 72.5° | 66.2 | 66.8 | 66.4 | 66.8 |
| 75° | 53.1 | 53.7 | 53.5 | 54.1 |
| 77.5° | 40.6 | 40.8 | 40.8 | 41.0 |
| 80° | 29.3 | 28.8 | 28.4 | 29.3 |
| 82.5° | 18.1 | 18.6 | 18.1 | 17.9 |
| 85° | 9.4 | 9.2 | 8.7 | 8.7 |
| 87.5° | 2.2 | 2.0 | 2.0 | 1.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)