

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: CORELITE

Report Number: P303141

Luminaire Tested: **CTW-F-5050-30L940-UNV-STD-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-181-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTW-F-5050-30L940-UNV-STD-6
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
50% UPLIGHT, 50% DOWNLIGHT, 3000 LUMEN PACKAGE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

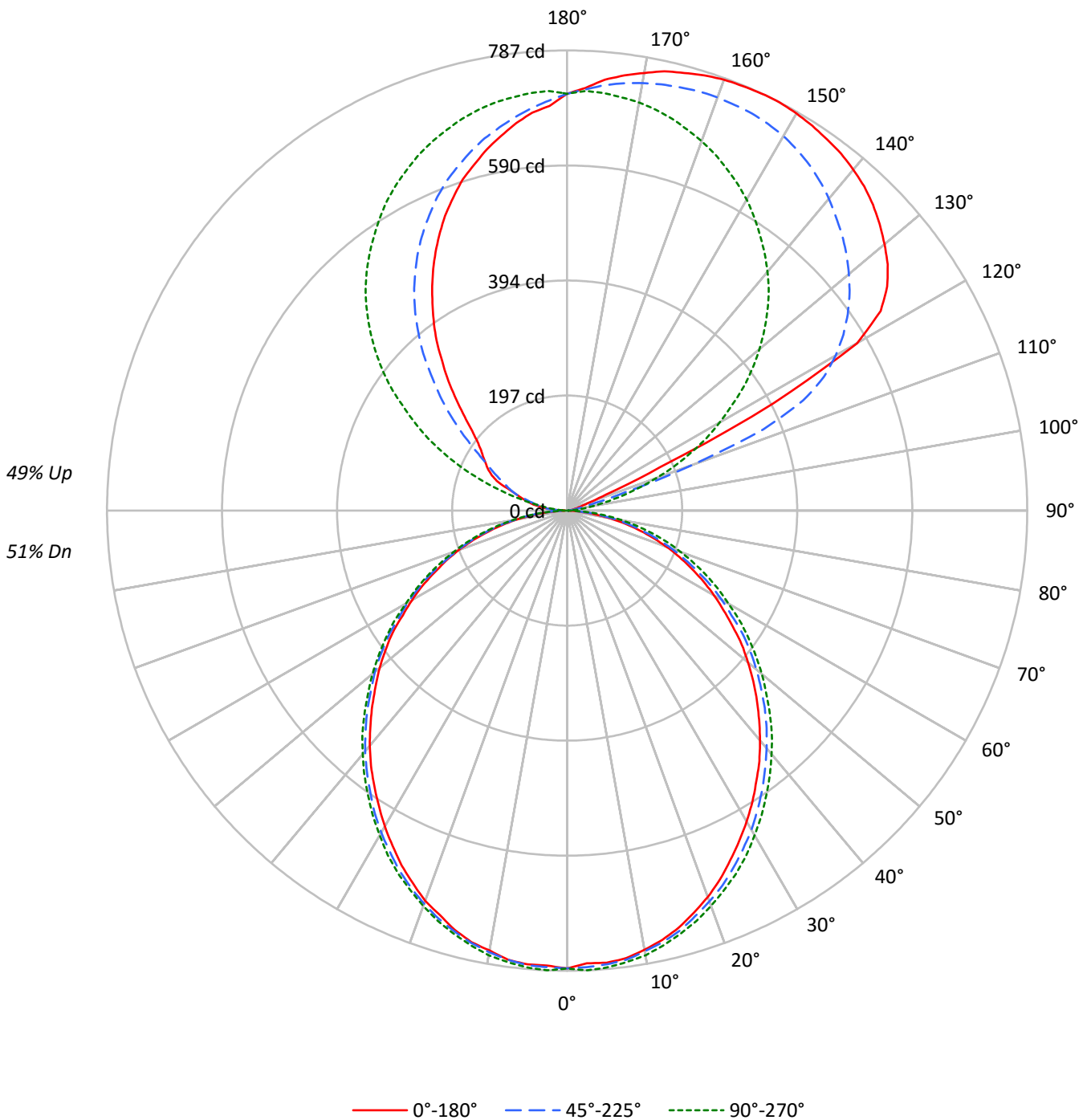
Lumens per Lamp: N/A
Luminaire Lumens: 4093.5 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 33.4
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: P303141
CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-6

Luminous Intensity Polar Plot





TEST NUMBER: P303141

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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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 | 51 |
| 1 | 98 | 94 | 90 | 86 | 90 | 87 | 83 | 80 | 73 | 71 | 69 | 61 | 60 | 58 | 50 | 49 | 48 | 43 |
| 2 | 89 | 82 | 75 | 70 | 82 | 76 | 70 | 66 | 64 | 60 | 57 | 54 | 51 | 48 | 44 | 42 | 40 | 36 |
| 3 | 81 | 72 | 64 | 58 | 75 | 66 | 60 | 55 | 57 | 52 | 48 | 47 | 44 | 41 | 39 | 36 | 34 | 30 |
| 4 | 74 | 63 | 55 | 49 | 68 | 59 | 52 | 46 | 50 | 45 | 40 | 42 | 38 | 35 | 35 | 32 | 29 | 26 |
| 5 | 68 | 56 | 48 | 42 | 63 | 52 | 45 | 40 | 45 | 39 | 35 | 38 | 34 | 30 | 31 | 28 | 26 | 22 |
| 6 | 63 | 51 | 42 | 36 | 58 | 47 | 40 | 34 | 40 | 35 | 30 | 34 | 30 | 26 | 28 | 25 | 22 | 20 |
| 7 | 58 | 46 | 38 | 32 | 53 | 43 | 35 | 30 | 37 | 31 | 27 | 31 | 27 | 23 | 26 | 23 | 20 | 17 |
| 8 | 54 | 41 | 34 | 28 | 50 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 24 | 20 | 18 | 15 |
| 9 | 50 | 38 | 30 | 25 | 46 | 35 | 28 | 24 | 31 | 25 | 21 | 26 | 22 | 19 | 22 | 19 | 16 | 14 |
| 10 | 47 | 35 | 27 | 23 | 43 | 32 | 26 | 21 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 15 | 13 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 11238 | 11238 | 11238 |
| 5° | 11182 | 11299 | 11221 |
| 10° | 11115 | 11253 | 11135 |
| 15° | 10971 | 11132 | 11032 |
| 20° | 10741 | 10989 | 10845 |
| 25° | 10453 | 10838 | 10603 |
| 30° | 10179 | 10626 | 10336 |
| 35° | 9887 | 10407 | 10076 |
| 40° | 9611 | 10192 | 9838 |
| 45° | 9316 | 9945 | 9562 |
| 50° | 9011 | 9706 | 9344 |
| 55° | 8648 | 9458 | 9120 |
| 60° | 8330 | 9145 | 8795 |
| 65° | 7977 | 8938 | 8480 |
| 70° | 7591 | 8665 | 8271 |
| 75° | 6959 | 8384 | 7785 |
| 80° | 5909 | 7810 | 7141 |
| 85° | 3557 | 6883 | 5335 |



TEST NUMBER: P303141

CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-6

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.9 | 1.8 |
| 10°-20° | 209.3 | 5.1 |
| 20°-30° | 309.9 | 7.6 |
| 30°-40° | 363.9 | 8.9 |
| 40°-50° | 369.0 | 9.0 |
| 50°-60° | 328.2 | 8.0 |
| 60°-70° | 250.2 | 6.1 |
| 70°-80° | 148.6 | 3.6 |
| 80°-90° | 40.1 | 1.0 |
| 90°-100° | 19.5 | 0.5 |
| 100°-110° | 83.4 | 2.0 |
| 110°-120° | 236.3 | 5.8 |
| 120°-130° | 353.6 | 8.6 |
| 130°-140° | 382.2 | 9.3 |
| 140°-150° | 364.0 | 8.9 |
| 150°-160° | 298.5 | 7.3 |
| 160°-170° | 195.1 | 4.8 |
| 170°-180° | 67.6 | 1.7 |
| 0°-30° | 593.2 | 14.5 |
| 0°-40° | 957.1 | 23.4 |
| 0°-60° | 1654.3 | 40.4 |
| 0°-90° | 2093.2 | 51.1 |
| 90°-120° | 339.2 | 8.3 |
| 90°-150° | 1439.0 | 35.2 |
| 90°-180° | 2000.0 | 48.9 |
| 0°-180° | 4093.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0° | 783 | 783 | 783 | 783 | 783 | |
| 5° | 776 | 779 | 784 | 780 | 779 | 74 |
| 15° | 738 | 744 | 749 | 745 | 742 | 208 |
| 25° | 660 | 674 | 684 | 679 | 670 | 304 |
| 35° | 564 | 582 | 594 | 587 | 575 | 353 |
| 45° | 459 | 478 | 490 | 483 | 471 | 354 |
| 55° | 346 | 366 | 378 | 373 | 364 | 310 |
| 65° | 235 | 246 | 263 | 258 | 250 | 233 |
| 75° | 126 | 134 | 151 | 146 | 140 | 133 |
| 85° | 22 | 28 | 42 | 38 | 32 | 28 |
| 90° | 1 | 1 | 1 | 3 | 4 | 1 |
| 95° | 4 | 4 | 15 | 30 | 27 | 5 |
| 105° | 19 | 49 | 96 | 73 | 78 | 22 |
| 115° | 176 | 446 | 234 | 127 | 142 | 232 |
| 125° | 668 | 586 | 368 | 206 | 180 | 590 |
| 135° | 740 | 666 | 485 | 329 | 267 | 571 |
| 145° | 775 | 722 | 575 | 456 | 398 | 486 |
| 155° | 787 | 749 | 645 | 558 | 518 | 364 |
| 165° | 775 | 749 | 694 | 636 | 613 | 220 |
| 175° | 740 | 730 | 717 | 691 | 683 | 71 |
| 180° | 713 | 713 | 713 | 713 | 713 | |



TEST NUMBER: P303141

CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-6

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 |
| 2.5° | 774.9 | 774.9 | 778.9 | 780.3 | 780.3 | 781.6 | 783.0 | 784.3 | 784.3 | 784.3 | 781.6 |
| 5° | 776.2 | 776.2 | 776.2 | 776.2 | 776.2 | 777.6 | 778.9 | 780.3 | 781.6 | 780.3 | 778.9 |
| 7.5° | 772.2 | 772.2 | 772.2 | 772.2 | 770.8 | 772.2 | 772.2 | 774.9 | 774.9 | 774.9 | 774.9 |
| 10° | 762.7 | 762.7 | 762.7 | 764.1 | 762.7 | 764.1 | 765.4 | 766.8 | 768.1 | 768.1 | 765.4 |
| 12.5° | 751.9 | 751.9 | 751.9 | 753.3 | 751.9 | 751.9 | 754.6 | 754.6 | 757.3 | 756.0 | 756.0 |
| 15° | 738.4 | 738.4 | 738.4 | 741.1 | 739.8 | 739.8 | 741.1 | 742.5 | 743.8 | 743.8 | 743.8 |
| 17.5° | 720.9 | 720.9 | 723.6 | 724.9 | 723.6 | 724.9 | 724.9 | 726.3 | 729.0 | 729.0 | 727.6 |
| 20° | 703.3 | 703.3 | 703.3 | 706.0 | 704.7 | 706.0 | 706.0 | 708.7 | 711.4 | 711.4 | 711.4 |
| 22.5° | 683.1 | 681.7 | 683.1 | 684.4 | 684.4 | 685.8 | 685.8 | 688.5 | 691.2 | 692.5 | 693.9 |
| 25° | 660.1 | 660.1 | 661.5 | 664.2 | 664.2 | 664.2 | 665.5 | 668.2 | 670.9 | 672.3 | 673.6 |
| 27.5° | 637.2 | 637.2 | 638.5 | 641.2 | 642.6 | 642.6 | 642.6 | 646.6 | 650.7 | 652.0 | 652.0 |
| 30° | 614.2 | 614.2 | 614.2 | 616.9 | 618.3 | 618.3 | 618.3 | 622.3 | 626.4 | 630.4 | 630.4 |
| 32.5° | 589.9 | 589.9 | 589.9 | 594.0 | 595.3 | 595.3 | 595.3 | 598.0 | 602.1 | 604.8 | 606.1 |
| 35° | 564.3 | 564.3 | 565.6 | 568.3 | 569.7 | 569.7 | 569.7 | 572.4 | 575.1 | 580.5 | 581.8 |
| 37.5° | 540.0 | 538.6 | 540.0 | 542.7 | 544.0 | 544.0 | 542.7 | 546.7 | 550.8 | 554.8 | 556.2 |
| 40° | 513.0 | 511.6 | 514.3 | 515.7 | 517.0 | 517.0 | 517.0 | 521.1 | 525.1 | 529.2 | 530.5 |
| 42.5° | 486.0 | 486.0 | 487.3 | 488.7 | 490.0 | 490.0 | 491.4 | 494.1 | 496.8 | 502.2 | 504.9 |
| 45° | 459.0 | 457.6 | 460.3 | 461.7 | 464.4 | 463.0 | 464.4 | 465.7 | 469.8 | 473.8 | 477.9 |
| 47.5° | 432.0 | 432.0 | 432.0 | 433.3 | 436.0 | 437.4 | 437.4 | 438.7 | 442.8 | 446.8 | 449.5 |
| 50° | 403.6 | 403.6 | 405.0 | 406.3 | 409.0 | 409.0 | 410.4 | 411.7 | 413.1 | 419.8 | 422.5 |
| 52.5° | 376.6 | 376.6 | 376.6 | 378.0 | 382.0 | 382.0 | 382.0 | 384.7 | 387.4 | 390.1 | 394.2 |
| 55° | 345.6 | 346.9 | 346.9 | 346.9 | 351.0 | 351.0 | 352.3 | 353.7 | 356.4 | 361.8 | 365.8 |
| 57.5° | 317.2 | 318.6 | 318.6 | 319.9 | 321.3 | 322.6 | 324.0 | 324.0 | 326.7 | 329.4 | 333.4 |
| 60° | 290.2 | 291.6 | 291.6 | 291.6 | 294.3 | 294.3 | 295.6 | 297.0 | 298.3 | 301.0 | 305.1 |
| 62.5° | 263.2 | 263.2 | 263.2 | 263.2 | 265.9 | 265.9 | 267.3 | 270.0 | 270.0 | 272.7 | 276.7 |
| 65° | 234.9 | 236.2 | 234.9 | 236.2 | 237.6 | 237.6 | 238.9 | 241.6 | 241.6 | 244.3 | 245.7 |
| 67.5° | 207.9 | 207.9 | 207.9 | 209.2 | 209.2 | 210.6 | 210.6 | 213.3 | 214.6 | 216.0 | 217.3 |
| 70° | 180.9 | 180.9 | 179.5 | 180.9 | 182.2 | 183.6 | 183.6 | 184.9 | 186.3 | 187.6 | 190.3 |
| 72.5° | 152.5 | 152.5 | 152.5 | 153.9 | 153.9 | 155.2 | 155.2 | 157.9 | 159.3 | 160.6 | 162.0 |
| 75° | 125.5 | 125.5 | 125.5 | 126.9 | 126.9 | 126.9 | 128.2 | 129.6 | 130.9 | 132.3 | 133.6 |
| 77.5° | 98.5 | 98.5 | 98.5 | 99.9 | 98.5 | 99.9 | 99.9 | 102.6 | 103.9 | 105.3 | 106.6 |
| 80° | 71.5 | 71.5 | 71.5 | 72.9 | 74.2 | 74.2 | 74.2 | 75.6 | 76.9 | 78.3 | 79.6 |
| 82.5° | 45.9 | 44.5 | 44.5 | 45.9 | 47.2 | 47.2 | 48.6 | 48.6 | 49.9 | 51.3 | 54.0 |
| 85° | 21.6 | 21.6 | 20.2 | 21.6 | 22.9 | 22.9 | 24.3 | 24.3 | 25.6 | 27.0 | 28.3 |
| 87.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 4.0 | 4.0 | 4.0 | 5.4 |
| 90° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 92.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 95° | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 97.5° | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 8.1 | 8.1 |
| 100° | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 10.8 | 10.8 | 10.8 | 12.1 | 13.5 | 14.8 |
| 102.5° | 13.5 | 13.5 | 13.5 | 13.5 | 14.8 | 14.8 | 14.8 | 16.2 | 17.5 | 21.6 | 25.6 |
| 105° | 18.9 | 18.9 | 20.2 | 20.2 | 21.6 | 21.6 | 22.9 | 24.3 | 28.3 | 35.1 | 48.6 |
| 107.5° | 27.0 | 27.0 | 28.3 | 28.3 | 31.0 | 32.4 | 35.1 | 39.1 | 49.9 | 70.2 | 103.9 |
| 110° | 39.1 | 40.5 | 43.2 | 44.5 | 51.3 | 55.3 | 60.7 | 78.3 | 112.0 | 164.7 | 225.4 |



TEST NUMBER: P303141

CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-6

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 71.5 | 72.9 | 83.7 | 90.4 | 110.7 | 125.5 | 140.4 | 190.3 | 259.2 | 322.6 | 363.1 |
| 115° | 175.5 | 183.6 | 198.4 | 225.4 | 268.6 | 299.7 | 328.0 | 383.4 | 427.9 | 444.1 | 445.5 |
| 117.5° | 398.2 | 405.0 | 425.2 | 446.8 | 475.2 | 494.1 | 502.2 | 514.3 | 515.7 | 506.2 | 495.4 |
| 120° | 572.4 | 572.4 | 572.4 | 577.8 | 577.8 | 580.5 | 576.4 | 571.0 | 558.9 | 544.0 | 530.5 |
| 122.5° | 635.8 | 633.1 | 631.8 | 627.7 | 622.3 | 618.3 | 614.2 | 603.4 | 592.6 | 576.4 | 560.2 |
| 125° | 668.2 | 664.2 | 662.8 | 657.4 | 649.3 | 646.6 | 641.2 | 630.4 | 618.3 | 602.1 | 585.9 |
| 127.5° | 691.2 | 687.1 | 684.4 | 680.4 | 672.3 | 668.2 | 662.8 | 652.0 | 639.9 | 625.0 | 608.8 |
| 130° | 708.7 | 704.7 | 702.0 | 699.3 | 689.8 | 687.1 | 681.7 | 670.9 | 658.8 | 645.3 | 629.1 |
| 132.5° | 724.9 | 722.2 | 718.2 | 714.1 | 708.7 | 704.7 | 699.3 | 689.8 | 677.7 | 664.2 | 648.0 |
| 135° | 739.8 | 735.7 | 733.0 | 730.3 | 722.2 | 719.5 | 714.1 | 704.7 | 693.9 | 679.0 | 665.5 |
| 137.5° | 751.9 | 747.9 | 745.2 | 741.1 | 735.7 | 730.3 | 726.3 | 718.2 | 707.4 | 695.2 | 680.4 |
| 140° | 761.4 | 757.3 | 754.6 | 750.6 | 745.2 | 741.1 | 737.1 | 730.3 | 720.9 | 708.7 | 696.6 |
| 142.5° | 769.5 | 764.1 | 762.7 | 758.7 | 753.3 | 750.6 | 746.5 | 739.8 | 731.7 | 719.5 | 710.1 |
| 145° | 774.9 | 770.8 | 769.5 | 765.4 | 761.4 | 757.3 | 756.0 | 750.6 | 741.1 | 729.0 | 722.2 |
| 147.5° | 780.3 | 776.2 | 774.9 | 772.2 | 766.8 | 764.1 | 762.7 | 756.0 | 747.9 | 737.1 | 731.7 |
| 150° | 784.3 | 780.3 | 778.9 | 776.2 | 770.8 | 769.5 | 768.1 | 762.7 | 754.6 | 743.8 | 739.8 |
| 152.5° | 787.0 | 781.6 | 780.3 | 777.6 | 773.5 | 772.2 | 770.8 | 765.4 | 758.7 | 749.2 | 745.2 |
| 155° | 787.0 | 783.0 | 781.6 | 778.9 | 774.9 | 773.5 | 770.8 | 766.8 | 760.0 | 753.3 | 749.2 |
| 157.5° | 785.7 | 783.0 | 781.6 | 778.9 | 773.5 | 773.5 | 770.8 | 766.8 | 761.4 | 756.0 | 750.6 |
| 160° | 784.3 | 780.3 | 780.3 | 777.6 | 773.5 | 773.5 | 770.8 | 768.1 | 761.4 | 757.3 | 751.9 |
| 162.5° | 780.3 | 777.6 | 777.6 | 774.9 | 772.2 | 772.2 | 769.5 | 766.8 | 760.0 | 758.7 | 751.9 |
| 165° | 774.9 | 772.2 | 772.2 | 770.8 | 766.8 | 766.8 | 765.4 | 761.4 | 757.3 | 756.0 | 749.2 |
| 167.5° | 769.5 | 765.4 | 765.4 | 764.1 | 760.0 | 760.0 | 760.0 | 757.3 | 753.3 | 754.6 | 746.5 |
| 170° | 760.0 | 756.0 | 756.0 | 754.6 | 753.3 | 753.3 | 753.3 | 750.6 | 746.5 | 749.2 | 742.5 |
| 172.5° | 750.6 | 749.2 | 747.9 | 746.5 | 745.2 | 745.2 | 745.2 | 743.8 | 741.1 | 743.8 | 737.1 |
| 175° | 739.8 | 737.1 | 737.1 | 735.7 | 735.7 | 735.7 | 735.7 | 735.7 | 733.0 | 737.1 | 730.3 |
| 177.5° | 723.6 | 720.9 | 722.2 | 723.6 | 723.6 | 724.9 | 724.9 | 724.9 | 723.6 | 727.6 | 720.9 |
| 180° | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 |



TEST NUMBER: P303141

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CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 |
| 2.5° | 778.9 | 781.6 | 780.3 | 780.3 | 780.3 | 780.3 | 780.3 | 781.6 | 785.7 | 787.0 | 787.0 |
| 5° | 776.2 | 778.9 | 777.6 | 776.2 | 776.2 | 776.2 | 776.2 | 778.9 | 783.0 | 784.3 | 783.0 |
| 7.5° | 770.8 | 773.5 | 772.2 | 770.8 | 772.2 | 772.2 | 772.2 | 774.9 | 778.9 | 778.9 | 778.9 |
| 10° | 762.7 | 765.4 | 764.1 | 764.1 | 764.1 | 764.1 | 765.4 | 766.8 | 770.8 | 772.2 | 770.8 |
| 12.5° | 753.3 | 754.6 | 753.3 | 754.6 | 754.6 | 754.6 | 754.6 | 756.0 | 760.0 | 761.4 | 761.4 |
| 15° | 741.1 | 742.5 | 741.1 | 742.5 | 741.1 | 742.5 | 742.5 | 745.2 | 747.9 | 749.2 | 750.6 |
| 17.5° | 726.3 | 726.3 | 726.3 | 727.6 | 727.6 | 727.6 | 727.6 | 730.3 | 734.4 | 735.7 | 735.7 |
| 20° | 708.7 | 710.1 | 711.4 | 711.4 | 711.4 | 712.8 | 712.8 | 714.1 | 719.5 | 719.5 | 720.9 |
| 22.5° | 692.5 | 692.5 | 693.9 | 693.9 | 695.2 | 695.2 | 695.2 | 696.6 | 702.0 | 702.0 | 702.0 |
| 25° | 672.3 | 672.3 | 675.0 | 676.3 | 676.3 | 676.3 | 677.7 | 679.0 | 684.4 | 684.4 | 684.4 |
| 27.5° | 650.7 | 650.7 | 654.7 | 653.4 | 654.7 | 656.1 | 657.4 | 660.1 | 662.8 | 664.2 | 664.2 |
| 30° | 629.1 | 629.1 | 631.8 | 631.8 | 633.1 | 633.1 | 634.5 | 637.2 | 641.2 | 641.2 | 642.6 |
| 32.5° | 607.5 | 607.5 | 608.8 | 610.2 | 611.5 | 610.2 | 611.5 | 614.2 | 618.3 | 618.3 | 619.6 |
| 35° | 583.2 | 581.8 | 584.5 | 585.9 | 585.9 | 587.2 | 587.2 | 589.9 | 594.0 | 594.0 | 595.3 |
| 37.5° | 558.9 | 557.5 | 560.2 | 561.6 | 562.9 | 562.9 | 562.9 | 565.6 | 568.3 | 569.7 | 571.0 |
| 40° | 533.2 | 531.9 | 535.9 | 537.3 | 537.3 | 537.3 | 537.3 | 540.0 | 542.7 | 544.0 | 545.4 |
| 42.5° | 504.9 | 506.2 | 508.9 | 511.6 | 511.6 | 511.6 | 513.0 | 513.0 | 517.0 | 518.4 | 519.7 |
| 45° | 479.2 | 480.6 | 481.9 | 486.0 | 484.6 | 483.3 | 486.0 | 486.0 | 490.0 | 490.0 | 491.4 |
| 47.5° | 452.2 | 453.6 | 453.6 | 457.6 | 457.6 | 456.3 | 459.0 | 459.0 | 461.7 | 461.7 | 464.4 |
| 50° | 425.2 | 426.6 | 426.6 | 430.6 | 430.6 | 429.3 | 432.0 | 432.0 | 434.7 | 434.7 | 437.4 |
| 52.5° | 395.5 | 398.2 | 398.2 | 402.3 | 403.6 | 402.3 | 403.6 | 403.6 | 406.3 | 406.3 | 409.0 |
| 55° | 367.2 | 369.9 | 371.2 | 372.6 | 375.3 | 373.9 | 375.3 | 376.6 | 379.3 | 378.0 | 380.7 |
| 57.5° | 337.5 | 337.5 | 340.2 | 341.5 | 342.9 | 342.9 | 346.9 | 345.6 | 345.6 | 349.6 | 351.0 |
| 60° | 307.8 | 309.1 | 311.8 | 313.2 | 314.5 | 314.5 | 315.9 | 317.2 | 318.6 | 318.6 | 321.3 |
| 62.5° | 279.4 | 282.1 | 283.5 | 284.8 | 286.2 | 284.8 | 288.9 | 290.2 | 291.6 | 291.6 | 291.6 |
| 65° | 251.1 | 252.4 | 255.1 | 256.5 | 256.5 | 256.5 | 260.5 | 261.9 | 261.9 | 263.2 | 263.2 |
| 67.5° | 221.4 | 224.1 | 226.8 | 226.8 | 229.5 | 228.1 | 232.2 | 233.5 | 233.5 | 234.9 | 236.2 |
| 70° | 193.0 | 194.4 | 197.1 | 198.4 | 201.1 | 199.8 | 202.5 | 203.8 | 205.2 | 206.5 | 207.9 |
| 72.5° | 164.7 | 166.0 | 168.7 | 170.1 | 171.4 | 172.8 | 174.1 | 176.8 | 178.2 | 179.5 | 179.5 |
| 75° | 136.3 | 137.7 | 140.4 | 141.7 | 143.1 | 144.4 | 145.8 | 148.5 | 148.5 | 151.2 | 151.2 |
| 77.5° | 109.3 | 110.7 | 112.0 | 113.4 | 116.1 | 117.4 | 118.8 | 120.1 | 121.5 | 122.8 | 122.8 |
| 80° | 82.3 | 82.3 | 85.0 | 86.4 | 89.1 | 89.1 | 90.4 | 91.8 | 94.5 | 94.5 | 94.5 |
| 82.5° | 55.3 | 56.7 | 58.0 | 59.4 | 62.1 | 62.1 | 63.4 | 66.1 | 67.5 | 67.5 | 67.5 |
| 85° | 29.7 | 31.0 | 33.7 | 35.1 | 36.4 | 36.4 | 39.1 | 40.5 | 41.8 | 41.8 | 41.8 |
| 87.5° | 6.7 | 8.1 | 9.4 | 10.8 | 13.5 | 14.8 | 14.8 | 16.2 | 17.5 | 17.5 | 17.5 |
| 90° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 92.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 4.0 | 5.4 | 6.7 | 6.7 | 5.4 | 6.7 |
| 95° | 5.4 | 5.4 | 6.7 | 9.4 | 12.1 | 13.5 | 18.9 | 20.2 | 17.5 | 14.8 | 14.8 |
| 97.5° | 9.4 | 12.1 | 16.2 | 24.3 | 29.7 | 33.7 | 40.5 | 37.8 | 32.4 | 28.3 | 25.6 |
| 100° | 18.9 | 25.6 | 35.1 | 51.3 | 59.4 | 66.1 | 68.8 | 62.1 | 54.0 | 45.9 | 40.5 |
| 102.5° | 33.7 | 51.3 | 72.9 | 98.5 | 106.6 | 109.3 | 108.0 | 94.5 | 81.0 | 67.5 | 59.4 |
| 105° | 70.2 | 102.6 | 140.4 | 159.3 | 163.3 | 160.6 | 147.1 | 132.3 | 113.4 | 95.8 | 82.3 |
| 107.5° | 151.2 | 197.1 | 221.4 | 224.1 | 220.0 | 211.9 | 191.7 | 171.4 | 148.5 | 128.2 | 109.3 |
| 110° | 268.6 | 292.9 | 292.9 | 280.8 | 270.0 | 260.5 | 234.9 | 211.9 | 186.3 | 162.0 | 141.7 |



TEST NUMBER: P303141

CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-6

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 369.9 | 365.8 | 348.3 | 326.7 | 314.5 | 302.4 | 275.4 | 251.1 | 222.7 | 198.4 | 174.1 |
| 115° | 433.3 | 414.4 | 392.8 | 368.5 | 355.0 | 340.2 | 315.9 | 287.5 | 257.8 | 233.5 | 207.9 |
| 117.5° | 475.2 | 453.6 | 429.3 | 406.3 | 392.8 | 382.0 | 353.7 | 321.3 | 294.3 | 268.6 | 243.0 |
| 120° | 508.9 | 486.0 | 463.0 | 440.1 | 427.9 | 415.8 | 386.1 | 357.7 | 326.7 | 301.0 | 276.7 |
| 122.5° | 537.3 | 515.7 | 492.7 | 471.1 | 459.0 | 445.5 | 418.5 | 390.1 | 364.5 | 333.4 | 310.5 |
| 125° | 565.6 | 545.4 | 521.1 | 500.8 | 487.3 | 472.5 | 448.2 | 419.8 | 394.2 | 368.5 | 344.2 |
| 127.5° | 589.9 | 569.7 | 549.4 | 526.5 | 513.0 | 499.5 | 475.2 | 448.2 | 423.9 | 399.6 | 376.6 |
| 130° | 611.5 | 594.0 | 572.4 | 549.4 | 535.9 | 523.8 | 499.5 | 475.2 | 452.2 | 429.3 | 406.3 |
| 132.5° | 634.5 | 614.2 | 594.0 | 571.0 | 558.9 | 546.7 | 525.1 | 502.2 | 479.2 | 457.6 | 436.0 |
| 135° | 653.4 | 633.1 | 611.5 | 588.6 | 579.1 | 568.3 | 548.1 | 526.5 | 504.9 | 484.6 | 464.4 |
| 137.5° | 670.9 | 648.0 | 627.7 | 606.1 | 598.0 | 588.6 | 568.3 | 548.1 | 529.2 | 510.3 | 490.0 |
| 140° | 684.4 | 661.5 | 642.6 | 623.7 | 615.6 | 606.1 | 585.9 | 569.7 | 552.1 | 533.2 | 514.3 |
| 142.5° | 695.2 | 673.6 | 654.7 | 638.5 | 630.4 | 623.7 | 604.8 | 588.6 | 572.4 | 554.8 | 537.3 |
| 145° | 704.7 | 685.8 | 668.2 | 652.0 | 646.6 | 638.5 | 621.0 | 607.5 | 592.6 | 575.1 | 558.9 |
| 147.5° | 712.8 | 696.6 | 680.4 | 665.5 | 658.8 | 652.0 | 635.8 | 623.7 | 608.8 | 595.3 | 579.1 |
| 150° | 720.9 | 706.0 | 691.2 | 677.7 | 672.3 | 665.5 | 649.3 | 638.5 | 627.7 | 614.2 | 599.4 |
| 152.5° | 726.3 | 712.8 | 699.3 | 688.5 | 683.1 | 677.7 | 662.8 | 654.7 | 642.6 | 630.4 | 616.9 |
| 155° | 731.7 | 719.5 | 707.4 | 697.9 | 693.9 | 688.5 | 676.3 | 668.2 | 657.4 | 645.3 | 633.1 |
| 157.5° | 735.7 | 724.9 | 714.1 | 706.0 | 702.0 | 697.9 | 685.8 | 680.4 | 670.9 | 660.1 | 648.0 |
| 160° | 737.1 | 727.6 | 719.5 | 712.8 | 708.7 | 704.7 | 695.2 | 689.8 | 681.7 | 672.3 | 661.5 |
| 162.5° | 737.1 | 730.3 | 722.2 | 718.2 | 714.1 | 710.1 | 702.0 | 697.9 | 691.2 | 683.1 | 673.6 |
| 165° | 737.1 | 731.7 | 724.9 | 720.9 | 718.2 | 715.5 | 708.7 | 704.7 | 697.9 | 693.9 | 684.4 |
| 167.5° | 737.1 | 731.7 | 726.3 | 723.6 | 720.9 | 718.2 | 714.1 | 711.4 | 706.0 | 702.0 | 693.9 |
| 170° | 734.4 | 729.0 | 726.3 | 724.9 | 722.2 | 720.9 | 716.8 | 715.5 | 711.4 | 708.7 | 702.0 |
| 172.5° | 730.3 | 726.3 | 724.9 | 723.6 | 722.2 | 720.9 | 718.2 | 716.8 | 714.1 | 712.8 | 708.7 |
| 175° | 724.9 | 722.2 | 720.9 | 720.9 | 720.9 | 719.5 | 716.8 | 718.2 | 716.8 | 716.8 | 712.8 |
| 177.5° | 716.8 | 715.5 | 715.5 | 715.5 | 716.8 | 715.5 | 715.5 | 716.8 | 716.8 | 718.2 | 715.5 |
| 180° | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 |



TEST NUMBER: P303141

CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-6

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 |
| 2.5° | 785.7 | 783.0 | 781.6 | 781.6 | 780.3 | 777.6 | 777.6 | 778.9 | 781.6 | 787.0 | 783.0 |
| 5° | 783.0 | 781.6 | 777.6 | 777.6 | 777.6 | 776.2 | 773.5 | 776.2 | 780.3 | 784.3 | 778.9 |
| 7.5° | 777.6 | 776.2 | 773.5 | 773.5 | 773.5 | 770.8 | 769.5 | 772.2 | 774.9 | 777.6 | 773.5 |
| 10° | 770.8 | 768.1 | 766.8 | 765.4 | 765.4 | 762.7 | 761.4 | 764.1 | 766.8 | 769.5 | 766.8 |
| 12.5° | 761.4 | 758.7 | 756.0 | 756.0 | 754.6 | 753.3 | 751.9 | 754.6 | 757.3 | 760.0 | 757.3 |
| 15° | 749.2 | 746.5 | 743.8 | 743.8 | 743.8 | 739.8 | 739.8 | 741.1 | 745.2 | 746.5 | 742.5 |
| 17.5° | 735.7 | 731.7 | 729.0 | 730.3 | 729.0 | 724.9 | 726.3 | 726.3 | 731.7 | 731.7 | 729.0 |
| 20° | 719.5 | 715.5 | 714.1 | 714.1 | 712.8 | 710.1 | 710.1 | 711.4 | 715.5 | 714.1 | 711.4 |
| 22.5° | 702.0 | 697.9 | 697.9 | 696.6 | 696.6 | 692.5 | 692.5 | 693.9 | 697.9 | 695.2 | 692.5 |
| 25° | 683.1 | 680.4 | 679.0 | 679.0 | 676.3 | 673.6 | 673.6 | 675.0 | 679.0 | 675.0 | 673.6 |
| 27.5° | 661.5 | 660.1 | 658.8 | 658.8 | 656.1 | 653.4 | 654.7 | 654.7 | 657.4 | 654.7 | 652.0 |
| 30° | 641.2 | 638.5 | 637.2 | 637.2 | 634.5 | 630.4 | 631.8 | 631.8 | 635.8 | 631.8 | 631.8 |
| 32.5° | 619.6 | 615.6 | 615.6 | 614.2 | 611.5 | 608.8 | 610.2 | 611.5 | 612.9 | 607.5 | 608.8 |
| 35° | 595.3 | 591.3 | 591.3 | 589.9 | 587.2 | 585.9 | 585.9 | 587.2 | 587.2 | 583.2 | 583.2 |
| 37.5° | 571.0 | 568.3 | 567.0 | 565.6 | 562.9 | 561.6 | 562.9 | 564.3 | 562.9 | 558.9 | 558.9 |
| 40° | 545.4 | 542.7 | 540.0 | 540.0 | 538.6 | 537.3 | 537.3 | 540.0 | 537.3 | 533.2 | 533.2 |
| 42.5° | 519.7 | 517.0 | 514.3 | 514.3 | 513.0 | 513.0 | 513.0 | 514.3 | 510.3 | 508.9 | 506.2 |
| 45° | 492.7 | 490.0 | 487.3 | 487.3 | 486.0 | 486.0 | 486.0 | 486.0 | 483.3 | 481.9 | 480.6 |
| 47.5° | 465.7 | 463.0 | 460.3 | 460.3 | 459.0 | 460.3 | 460.3 | 459.0 | 454.9 | 454.9 | 453.6 |
| 50° | 438.7 | 436.0 | 433.3 | 433.3 | 433.3 | 433.3 | 433.3 | 432.0 | 429.3 | 427.9 | 426.6 |
| 52.5° | 410.4 | 407.7 | 405.0 | 406.3 | 405.0 | 406.3 | 405.0 | 403.6 | 400.9 | 399.6 | 398.2 |
| 55° | 382.0 | 379.3 | 378.0 | 379.3 | 378.0 | 378.0 | 376.6 | 375.3 | 372.6 | 372.6 | 369.9 |
| 57.5° | 352.3 | 348.3 | 348.3 | 349.6 | 348.3 | 348.3 | 345.6 | 344.2 | 341.5 | 341.5 | 338.8 |
| 60° | 321.3 | 319.9 | 319.9 | 319.9 | 319.9 | 318.6 | 317.2 | 317.2 | 314.5 | 313.2 | 310.5 |
| 62.5° | 292.9 | 292.9 | 291.6 | 292.9 | 290.2 | 290.2 | 288.9 | 287.5 | 286.2 | 284.8 | 283.5 |
| 65° | 264.6 | 263.2 | 263.2 | 261.9 | 261.9 | 261.9 | 260.5 | 259.2 | 257.8 | 256.5 | 255.1 |
| 67.5° | 234.9 | 234.9 | 234.9 | 234.9 | 233.5 | 233.5 | 232.2 | 230.8 | 228.1 | 229.5 | 226.8 |
| 70° | 206.5 | 206.5 | 206.5 | 206.5 | 205.2 | 205.2 | 203.8 | 202.5 | 199.8 | 201.1 | 199.8 |
| 72.5° | 178.2 | 178.2 | 178.2 | 178.2 | 176.8 | 176.8 | 174.1 | 174.1 | 174.1 | 172.8 | 171.4 |
| 75° | 149.8 | 149.8 | 149.8 | 148.5 | 148.5 | 148.5 | 145.8 | 145.8 | 145.8 | 145.8 | 143.1 |
| 77.5° | 121.5 | 122.8 | 121.5 | 121.5 | 120.1 | 120.1 | 120.1 | 118.8 | 118.8 | 117.4 | 116.1 |
| 80° | 93.1 | 94.5 | 94.5 | 94.5 | 93.1 | 93.1 | 93.1 | 91.8 | 90.4 | 90.4 | 89.1 |
| 82.5° | 68.8 | 67.5 | 67.5 | 67.5 | 66.1 | 66.1 | 66.1 | 64.8 | 64.8 | 63.4 | 62.1 |
| 85° | 41.8 | 41.8 | 41.8 | 41.8 | 40.5 | 40.5 | 39.1 | 37.8 | 37.8 | 35.1 | 35.1 |
| 87.5° | 18.9 | 17.5 | 17.5 | 17.5 | 17.5 | 16.2 | 14.8 | 13.5 | 13.5 | 12.1 | 12.1 |
| 90° | 1.3 | 1.3 | 2.7 | 1.3 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 92.5° | 9.4 | 12.1 | 13.5 | 14.8 | 13.5 | 14.8 | 14.8 | 14.8 | 13.5 | 13.5 | 13.5 |
| 95° | 16.2 | 18.9 | 22.9 | 24.3 | 25.6 | 28.3 | 29.7 | 29.7 | 29.7 | 28.3 | 28.3 |
| 97.5° | 25.6 | 28.3 | 29.7 | 31.0 | 31.0 | 35.1 | 37.8 | 40.5 | 43.2 | 43.2 | 44.5 |
| 100° | 39.1 | 37.8 | 40.5 | 43.2 | 43.2 | 43.2 | 44.5 | 47.2 | 49.9 | 51.3 | 54.0 |
| 102.5° | 55.3 | 51.3 | 51.3 | 52.6 | 54.0 | 58.0 | 56.7 | 58.0 | 59.4 | 60.7 | 62.1 |
| 105° | 74.2 | 70.2 | 66.1 | 66.1 | 66.1 | 68.8 | 72.9 | 75.6 | 72.9 | 72.9 | 74.2 |
| 107.5° | 98.5 | 90.4 | 83.7 | 82.3 | 82.3 | 81.0 | 83.7 | 87.7 | 90.4 | 91.8 | 90.4 |
| 110° | 125.5 | 113.4 | 106.6 | 99.9 | 98.5 | 97.2 | 97.2 | 98.5 | 102.6 | 106.6 | 109.3 |



TEST NUMBER: P303141

CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-6

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 156.6 | 141.7 | 129.6 | 124.2 | 118.8 | 113.4 | 112.0 | 112.0 | 113.4 | 117.4 | 120.1 |
| 115° | 189.0 | 171.4 | 155.2 | 148.5 | 144.4 | 133.6 | 128.2 | 125.5 | 126.9 | 128.2 | 130.9 |
| 117.5° | 222.7 | 203.8 | 184.9 | 176.8 | 171.4 | 159.3 | 148.5 | 144.4 | 141.7 | 140.4 | 143.1 |
| 120° | 256.5 | 237.6 | 218.7 | 207.9 | 199.8 | 186.3 | 174.1 | 163.3 | 157.9 | 155.2 | 153.9 |
| 122.5° | 288.9 | 270.0 | 251.1 | 240.3 | 232.2 | 214.6 | 202.5 | 189.0 | 179.5 | 172.8 | 168.7 |
| 125° | 321.3 | 302.4 | 283.5 | 272.7 | 264.6 | 245.7 | 230.8 | 218.7 | 206.5 | 195.7 | 187.6 |
| 127.5° | 353.7 | 333.4 | 314.5 | 305.1 | 297.0 | 276.7 | 260.5 | 248.4 | 236.2 | 224.1 | 213.3 |
| 130° | 386.1 | 368.5 | 348.3 | 336.1 | 329.4 | 309.1 | 292.9 | 278.1 | 267.3 | 255.1 | 241.6 |
| 132.5° | 414.4 | 398.2 | 379.3 | 369.9 | 360.4 | 340.2 | 326.7 | 310.5 | 298.3 | 286.2 | 274.0 |
| 135° | 444.1 | 426.6 | 407.7 | 399.6 | 391.5 | 375.3 | 359.1 | 342.9 | 329.4 | 317.2 | 305.1 |
| 137.5° | 469.8 | 454.9 | 436.0 | 427.9 | 419.8 | 405.0 | 390.1 | 378.0 | 364.5 | 351.0 | 336.1 |
| 140° | 495.4 | 479.2 | 463.0 | 454.9 | 446.8 | 434.7 | 419.8 | 409.0 | 395.5 | 384.7 | 369.9 |
| 142.5° | 518.4 | 502.2 | 488.7 | 480.6 | 472.5 | 460.3 | 446.8 | 437.4 | 426.6 | 414.4 | 405.0 |
| 145° | 541.3 | 526.5 | 513.0 | 504.9 | 498.1 | 486.0 | 472.5 | 465.7 | 456.3 | 444.1 | 433.3 |
| 147.5° | 561.6 | 548.1 | 534.6 | 527.8 | 522.4 | 510.3 | 499.5 | 491.4 | 483.3 | 472.5 | 463.0 |
| 150° | 581.8 | 568.3 | 556.2 | 550.8 | 544.0 | 534.6 | 525.1 | 515.7 | 510.3 | 499.5 | 491.4 |
| 152.5° | 600.7 | 588.6 | 576.4 | 572.4 | 567.0 | 556.2 | 546.7 | 538.6 | 534.6 | 525.1 | 518.4 |
| 155° | 619.6 | 607.5 | 595.3 | 592.6 | 587.2 | 577.8 | 568.3 | 561.6 | 557.5 | 548.1 | 541.3 |
| 157.5° | 635.8 | 623.7 | 614.2 | 610.2 | 604.8 | 596.7 | 588.6 | 583.2 | 580.5 | 572.4 | 565.6 |
| 160° | 650.7 | 639.9 | 630.4 | 626.4 | 622.3 | 614.2 | 608.8 | 602.1 | 600.7 | 594.0 | 588.6 |
| 162.5° | 662.8 | 653.4 | 645.3 | 642.6 | 638.5 | 631.8 | 626.4 | 619.6 | 618.3 | 614.2 | 608.8 |
| 165° | 675.0 | 665.5 | 658.8 | 656.1 | 653.4 | 646.6 | 642.6 | 637.2 | 635.8 | 633.1 | 627.7 |
| 167.5° | 685.8 | 677.7 | 670.9 | 669.6 | 666.9 | 661.5 | 658.8 | 653.4 | 652.0 | 650.7 | 645.3 |
| 170° | 693.9 | 687.1 | 681.7 | 680.4 | 677.7 | 673.6 | 670.9 | 666.9 | 665.5 | 666.9 | 661.5 |
| 172.5° | 700.6 | 695.2 | 691.2 | 689.8 | 688.5 | 685.8 | 683.1 | 680.4 | 679.0 | 681.7 | 676.3 |
| 175° | 707.4 | 702.0 | 699.3 | 697.9 | 697.9 | 695.2 | 693.9 | 691.2 | 691.2 | 693.9 | 689.8 |
| 177.5° | 711.4 | 707.4 | 704.7 | 704.7 | 703.3 | 702.0 | 702.0 | 699.3 | 702.0 | 704.7 | 700.6 |
| 180° | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 |



TEST NUMBER: P303141

CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-6

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 |
| 2.5° | 785.7 | 783.0 | 783.0 | 781.6 | 780.3 | 778.9 | 778.9 | 778.9 |
| 5° | 781.6 | 780.3 | 778.9 | 776.2 | 776.2 | 777.6 | 778.9 | 778.9 |
| 7.5° | 774.9 | 774.9 | 773.5 | 772.2 | 770.8 | 773.5 | 773.5 | 774.9 |
| 10° | 768.1 | 766.8 | 765.4 | 764.1 | 762.7 | 764.1 | 764.1 | 764.1 |
| 12.5° | 757.3 | 756.0 | 754.6 | 751.9 | 751.9 | 753.3 | 753.3 | 756.0 |
| 15° | 745.2 | 743.8 | 741.1 | 741.1 | 739.8 | 741.1 | 741.1 | 742.5 |
| 17.5° | 730.3 | 727.6 | 726.3 | 724.9 | 724.9 | 726.3 | 726.3 | 724.9 |
| 20° | 712.8 | 710.1 | 707.4 | 706.0 | 706.0 | 707.4 | 707.4 | 710.1 |
| 22.5° | 692.5 | 689.8 | 688.5 | 687.1 | 687.1 | 688.5 | 688.5 | 689.8 |
| 25° | 673.6 | 670.9 | 669.6 | 668.2 | 668.2 | 668.2 | 668.2 | 669.6 |
| 27.5° | 653.4 | 649.3 | 646.6 | 646.6 | 645.3 | 645.3 | 645.3 | 646.6 |
| 30° | 629.1 | 625.0 | 623.7 | 623.7 | 622.3 | 622.3 | 622.3 | 623.7 |
| 32.5° | 604.8 | 602.1 | 600.7 | 599.4 | 598.0 | 599.4 | 598.0 | 599.4 |
| 35° | 580.5 | 576.4 | 576.4 | 576.4 | 575.1 | 575.1 | 573.7 | 575.1 |
| 37.5° | 556.2 | 552.1 | 550.8 | 550.8 | 549.4 | 549.4 | 549.4 | 550.8 |
| 40° | 530.5 | 526.5 | 526.5 | 525.1 | 523.8 | 523.8 | 523.8 | 525.1 |
| 42.5° | 503.5 | 500.8 | 499.5 | 499.5 | 498.1 | 498.1 | 498.1 | 498.1 |
| 45° | 476.5 | 472.5 | 472.5 | 473.8 | 471.1 | 471.1 | 471.1 | 471.1 |
| 47.5° | 449.5 | 446.8 | 446.8 | 446.8 | 444.1 | 444.1 | 444.1 | 444.1 |
| 50° | 422.5 | 421.2 | 419.8 | 419.8 | 419.8 | 418.5 | 418.5 | 418.5 |
| 52.5° | 395.5 | 394.2 | 392.8 | 394.2 | 391.5 | 391.5 | 391.5 | 391.5 |
| 55° | 367.2 | 365.8 | 365.8 | 367.2 | 364.5 | 364.5 | 363.1 | 364.5 |
| 57.5° | 336.1 | 334.8 | 334.8 | 334.8 | 334.8 | 333.4 | 333.4 | 333.4 |
| 60° | 309.1 | 307.8 | 307.8 | 307.8 | 306.4 | 306.4 | 306.4 | 306.4 |
| 62.5° | 280.8 | 280.8 | 280.8 | 279.4 | 279.4 | 278.1 | 278.1 | 279.4 |
| 65° | 253.8 | 252.4 | 252.4 | 252.4 | 251.1 | 251.1 | 249.7 | 249.7 |
| 67.5° | 225.4 | 225.4 | 225.4 | 224.1 | 224.1 | 222.7 | 222.7 | 224.1 |
| 70° | 198.4 | 198.4 | 197.1 | 197.1 | 197.1 | 195.7 | 195.7 | 197.1 |
| 72.5° | 171.4 | 170.1 | 170.1 | 168.7 | 170.1 | 167.4 | 167.4 | 168.7 |
| 75° | 143.1 | 143.1 | 141.7 | 141.7 | 141.7 | 140.4 | 140.4 | 140.4 |
| 77.5° | 116.1 | 116.1 | 114.7 | 114.7 | 114.7 | 113.4 | 113.4 | 113.4 |
| 80° | 89.1 | 87.7 | 87.7 | 87.7 | 87.7 | 86.4 | 85.0 | 86.4 |
| 82.5° | 60.7 | 60.7 | 60.7 | 60.7 | 59.4 | 58.0 | 56.7 | 58.0 |
| 85° | 35.1 | 33.7 | 33.7 | 35.1 | 33.7 | 33.7 | 33.7 | 32.4 |
| 87.5° | 12.1 | 10.8 | 10.8 | 10.8 | 10.8 | 12.1 | 10.8 | 10.8 |
| 90° | 2.7 | 2.7 | 2.7 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 92.5° | 13.5 | 13.5 | 12.1 | 12.1 | 12.1 | 12.1 | 10.8 | 10.8 |
| 95° | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |
| 97.5° | 44.5 | 44.5 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 |
| 100° | 55.3 | 56.7 | 56.7 | 56.7 | 58.0 | 58.0 | 58.0 | 58.0 |
| 102.5° | 64.8 | 64.8 | 66.1 | 66.1 | 66.1 | 67.5 | 67.5 | 67.5 |
| 105° | 74.2 | 75.6 | 75.6 | 75.6 | 76.9 | 76.9 | 78.3 | 78.3 |
| 107.5° | 89.1 | 89.1 | 89.1 | 89.1 | 90.4 | 90.4 | 90.4 | 90.4 |
| 110° | 109.3 | 109.3 | 108.0 | 106.6 | 106.6 | 106.6 | 105.3 | 105.3 |



TEST NUMBER: P303141

CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-6

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 122.8 | 125.5 | 125.5 | 126.9 | 128.2 | 128.2 | 128.2 | 128.2 |
| 115° | 133.6 | 136.3 | 137.7 | 139.0 | 140.4 | 140.4 | 141.7 | 141.7 |
| 117.5° | 144.4 | 145.8 | 147.1 | 148.5 | 149.8 | 151.2 | 151.2 | 152.5 |
| 120° | 155.2 | 156.6 | 157.9 | 157.9 | 159.3 | 160.6 | 160.6 | 160.6 |
| 122.5° | 167.4 | 168.7 | 167.4 | 167.4 | 168.7 | 168.7 | 168.7 | 170.1 |
| 125° | 183.6 | 182.2 | 180.9 | 180.9 | 179.5 | 179.5 | 179.5 | 179.5 |
| 127.5° | 205.2 | 202.5 | 199.8 | 197.1 | 195.7 | 194.4 | 193.0 | 193.0 |
| 130° | 232.2 | 226.8 | 222.7 | 220.0 | 217.3 | 214.6 | 211.9 | 211.9 |
| 132.5° | 263.2 | 256.5 | 252.4 | 248.4 | 244.3 | 240.3 | 236.2 | 237.6 |
| 135° | 295.6 | 290.2 | 284.8 | 280.8 | 275.4 | 270.0 | 267.3 | 267.3 |
| 137.5° | 326.7 | 319.9 | 315.9 | 313.2 | 309.1 | 303.7 | 299.7 | 301.0 |
| 140° | 361.8 | 349.6 | 346.9 | 344.2 | 340.2 | 334.8 | 332.1 | 332.1 |
| 142.5° | 392.8 | 383.4 | 380.7 | 379.3 | 373.9 | 368.5 | 365.8 | 367.2 |
| 145° | 423.9 | 414.4 | 413.1 | 410.4 | 406.3 | 400.9 | 398.2 | 398.2 |
| 147.5° | 453.6 | 445.5 | 444.1 | 441.4 | 437.4 | 432.0 | 429.3 | 429.3 |
| 150° | 483.3 | 475.2 | 472.5 | 471.1 | 467.1 | 461.7 | 459.0 | 460.3 |
| 152.5° | 510.3 | 502.2 | 500.8 | 499.5 | 494.1 | 491.4 | 488.7 | 490.0 |
| 155° | 535.9 | 527.8 | 526.5 | 525.1 | 522.4 | 518.4 | 517.0 | 518.4 |
| 157.5° | 560.2 | 553.5 | 552.1 | 550.8 | 548.1 | 544.0 | 542.7 | 545.4 |
| 160° | 583.2 | 577.8 | 576.4 | 575.1 | 573.7 | 571.0 | 568.3 | 569.7 |
| 162.5° | 604.8 | 599.4 | 599.4 | 598.0 | 596.7 | 594.0 | 592.6 | 594.0 |
| 165° | 625.0 | 621.0 | 619.6 | 618.3 | 616.9 | 615.6 | 614.2 | 612.9 |
| 167.5° | 643.9 | 638.5 | 638.5 | 635.8 | 635.8 | 634.5 | 633.1 | 633.1 |
| 170° | 660.1 | 656.1 | 656.1 | 653.4 | 653.4 | 652.0 | 650.7 | 650.7 |
| 172.5° | 675.0 | 672.3 | 670.9 | 670.9 | 670.9 | 669.6 | 668.2 | 668.2 |
| 175° | 689.8 | 687.1 | 685.8 | 684.4 | 684.4 | 683.1 | 681.7 | 683.1 |
| 177.5° | 702.0 | 700.6 | 699.3 | 697.9 | 697.9 | 695.2 | 693.9 | 692.5 |
| 180° | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 | 712.8 |

(END OF REPORT)