

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: P303186

Luminaire Tested: **CTW-F-7525-20L940-UNV-STD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-181-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTW-F-7525-20L940-UNV-STD-4
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
75% UPLIGHT, 25% DOWNLIGHT, 2000 LUMEN PACKAGE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

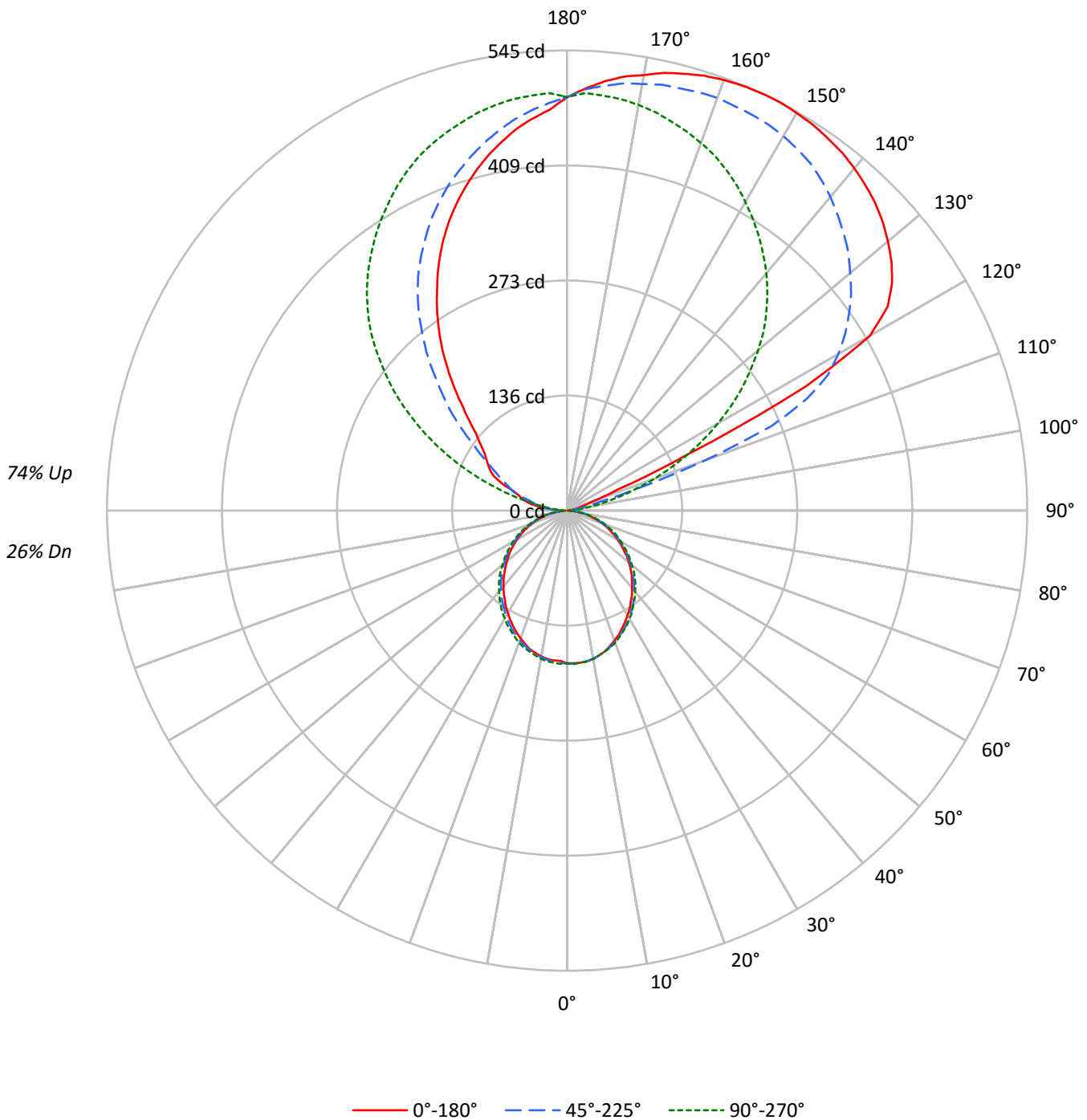
Lumens per Lamp: N/A
Luminaire Lumens: 1868.1 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.32
Luminous Opening: Rectangular (W 4' x L: 0.12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 16.8
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: P303186
CATALOG NUMBER: CTW-F-7525-20L940-UNV-STD-4

Luminous Intensity Polar Plot





TEST NUMBER: P303186

CATALOG NUMBER: CTW-F-7525-20L940-UNV-STD-4

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 | 70 | 70 | 70 | 51 | 51 | 51 | 34 | 34 | 34 | 26 |
| 1 | 92 | 88 | 84 | 81 | 82 | 79 | 76 | 73 | 61 | 59 | 57 | 45 | 43 | 42 | 30 | 29 | 28 | 22 |
| 2 | 84 | 77 | 71 | 66 | 75 | 69 | 64 | 59 | 53 | 50 | 47 | 39 | 37 | 35 | 26 | 25 | 24 | 18 |
| 3 | 76 | 67 | 60 | 55 | 68 | 60 | 54 | 50 | 47 | 43 | 39 | 35 | 32 | 30 | 23 | 22 | 20 | 15 |
| 4 | 70 | 59 | 52 | 46 | 62 | 53 | 47 | 42 | 42 | 37 | 33 | 31 | 28 | 25 | 21 | 19 | 17 | 13 |
| 5 | 64 | 53 | 45 | 39 | 57 | 47 | 41 | 36 | 37 | 32 | 29 | 27 | 24 | 22 | 19 | 17 | 15 | 11 |
| 6 | 59 | 47 | 39 | 34 | 52 | 42 | 36 | 31 | 33 | 28 | 25 | 25 | 21 | 19 | 17 | 15 | 13 | 10 |
| 7 | 54 | 42 | 35 | 29 | 48 | 38 | 32 | 27 | 30 | 25 | 22 | 22 | 19 | 17 | 15 | 13 | 12 | 9 |
| 8 | 50 | 38 | 31 | 26 | 45 | 35 | 28 | 24 | 27 | 23 | 19 | 20 | 17 | 15 | 14 | 12 | 10 | 8 |
| 9 | 47 | 35 | 28 | 23 | 41 | 31 | 25 | 21 | 25 | 20 | 17 | 19 | 15 | 13 | 13 | 11 | 9 | 7 |
| 10 | 43 | 32 | 25 | 20 | 39 | 29 | 23 | 19 | 23 | 18 | 15 | 17 | 14 | 12 | 12 | 10 | 8 | 6 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|------|------|------|
| 0° | 3894 | 3894 | 3894 |
| 5° | 3909 | 3909 | 3851 |
| 10° | 3895 | 3895 | 3836 |
| 15° | 3851 | 3851 | 3791 |
| 20° | 3753 | 3814 | 3691 |
| 25° | 3656 | 3741 | 3592 |
| 30° | 3557 | 3669 | 3490 |
| 35° | 3453 | 3595 | 3382 |
| 40° | 3364 | 3516 | 3288 |
| 45° | 3288 | 3452 | 3206 |
| 50° | 3195 | 3346 | 3105 |
| 55° | 3074 | 3277 | 3040 |
| 60° | 2984 | 3178 | 2945 |
| 65° | 2888 | 3117 | 2842 |
| 70° | 2776 | 3002 | 2719 |
| 75° | 2545 | 2845 | 2545 |
| 80° | 2232 | 2678 | 2232 |
| 85° | 1556 | 2445 | 1778 |



TEST NUMBER: P303186

CATALOG NUMBER: CTW-F-7525-20L940-UNV-STD-4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 17.1 | 0.9 |
| 10°-20° | 48.3 | 2.6 |
| 20°-30° | 71.3 | 3.8 |
| 30°-40° | 83.7 | 4.5 |
| 40°-50° | 84.8 | 4.5 |
| 50°-60° | 75.6 | 4.0 |
| 60°-70° | 58.0 | 3.1 |
| 70°-80° | 34.4 | 1.8 |
| 80°-90° | 9.7 | 0.5 |
| 90°-100° | 14.7 | 0.8 |
| 100°-110° | 59.7 | 3.2 |
| 110°-120° | 167.3 | 9.0 |
| 120°-130° | 244.0 | 13.1 |
| 130°-140° | 262.8 | 14.1 |
| 140°-150° | 250.4 | 13.4 |
| 150°-160° | 205.5 | 11.0 |
| 160°-170° | 134.2 | 7.2 |
| 170°-180° | 46.5 | 2.5 |
| 0°-30° | 136.7 | 7.3 |
| 0°-40° | 220.4 | 11.8 |
| 0°-60° | 380.8 | 20.4 |
| 0°-90° | 482.9 | 25.9 |
| 90°-120° | 241.7 | 12.9 |
| 90°-150° | 999.0 | 53.5 |
| 90°-180° | 1385.0 | 74.1 |
| 0°-180° | 1868.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0° | 181 | 181 | 181 | 181 | 181 | |
| 5° | 181 | 181 | 181 | 180 | 178 | 17 |
| 15° | 173 | 173 | 173 | 171 | 170 | 49 |
| 25° | 154 | 157 | 158 | 155 | 151 | 71 |
| 35° | 131 | 136 | 137 | 133 | 129 | 82 |
| 45° | 108 | 111 | 113 | 110 | 105 | 83 |
| 55° | 82 | 85 | 87 | 85 | 81 | 74 |
| 65° | 57 | 58 | 61 | 58 | 56 | 56 |
| 75° | 31 | 32 | 34 | 32 | 31 | 32 |
| 85° | 6 | 8 | 10 | 8 | 7 | 8 |
| 90° | 1 | 1 | 1 | 4 | 5 | 1 |
| 95° | 4 | 4 | 11 | 20 | 20 | 4 |
| 105° | 16 | 40 | 65 | 47 | 56 | 19 |
| 115° | 158 | 313 | 158 | 84 | 95 | 187 |
| 125° | 470 | 408 | 253 | 135 | 120 | 416 |
| 135° | 516 | 464 | 334 | 219 | 176 | 398 |
| 145° | 538 | 502 | 396 | 309 | 266 | 338 |
| 155° | 545 | 518 | 446 | 381 | 349 | 252 |
| 165° | 536 | 518 | 477 | 436 | 417 | 152 |
| 175° | 510 | 505 | 493 | 476 | 466 | 49 |
| 180° | 490 | 490 | 490 | 490 | 490 | |



TEST NUMBER: P303186

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 |
| 2.5° | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 181.8 | 181.8 |
| 5° | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.0 | 180.9 | 180.9 | 180.9 |
| 7.5° | 180.0 | 180.0 | 180.0 | 180.0 | 180.0 | 180.0 | 179.1 | 179.1 | 179.1 | 180.0 | 180.0 |
| 10° | 178.2 | 178.2 | 178.2 | 177.3 | 177.3 | 178.2 | 177.3 | 177.3 | 178.2 | 178.2 | 178.2 |
| 12.5° | 175.5 | 175.5 | 175.5 | 175.5 | 175.5 | 175.5 | 175.5 | 174.6 | 175.5 | 176.4 | 175.5 |
| 15° | 172.8 | 172.8 | 172.8 | 172.8 | 172.8 | 172.8 | 172.8 | 171.9 | 172.8 | 173.7 | 172.8 |
| 17.5° | 168.3 | 168.3 | 168.3 | 168.3 | 169.2 | 169.2 | 169.2 | 168.3 | 169.2 | 170.1 | 169.2 |
| 20° | 163.8 | 163.8 | 163.8 | 164.7 | 164.7 | 164.7 | 164.7 | 164.7 | 164.7 | 165.6 | 165.6 |
| 22.5° | 159.3 | 159.3 | 159.3 | 159.3 | 160.2 | 160.2 | 160.2 | 159.3 | 160.2 | 161.1 | 161.1 |
| 25° | 153.9 | 153.9 | 153.9 | 153.9 | 154.8 | 154.8 | 154.8 | 154.8 | 155.7 | 156.6 | 156.6 |
| 27.5° | 148.5 | 148.5 | 148.5 | 149.4 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 151.2 | 152.1 |
| 30° | 143.1 | 143.1 | 143.1 | 144.0 | 144.0 | 144.9 | 144.9 | 144.9 | 144.9 | 145.8 | 146.7 |
| 32.5° | 137.7 | 137.7 | 137.7 | 138.6 | 138.6 | 138.6 | 139.5 | 139.5 | 139.5 | 140.4 | 141.3 |
| 35° | 131.4 | 132.3 | 132.3 | 132.3 | 133.2 | 133.2 | 133.2 | 133.2 | 134.1 | 135.0 | 135.9 |
| 37.5° | 126.0 | 126.0 | 126.0 | 126.0 | 126.9 | 126.9 | 126.9 | 127.8 | 127.8 | 128.7 | 129.6 |
| 40° | 119.7 | 119.7 | 119.7 | 120.6 | 120.6 | 120.6 | 121.5 | 121.5 | 122.4 | 123.3 | 123.3 |
| 42.5° | 113.4 | 113.4 | 113.4 | 114.3 | 114.3 | 114.3 | 115.2 | 116.1 | 116.1 | 117.0 | 117.0 |
| 45° | 108.0 | 107.1 | 108.0 | 108.0 | 108.0 | 108.0 | 108.9 | 108.9 | 109.8 | 110.7 | 110.7 |
| 47.5° | 101.7 | 100.8 | 101.7 | 101.7 | 101.7 | 101.7 | 102.6 | 102.6 | 103.5 | 103.5 | 104.4 |
| 50° | 95.4 | 94.5 | 95.4 | 95.4 | 95.4 | 95.4 | 96.3 | 96.3 | 97.2 | 97.2 | 98.1 |
| 52.5° | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 90.0 | 90.9 | 90.9 | 91.8 |
| 55° | 81.9 | 81.9 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 83.7 | 83.7 | 84.6 | 84.6 |
| 57.5° | 75.6 | 75.6 | 75.6 | 76.5 | 76.5 | 76.5 | 76.5 | 77.4 | 77.4 | 78.3 | 78.3 |
| 60° | 69.3 | 69.3 | 69.3 | 69.3 | 70.2 | 70.2 | 70.2 | 70.2 | 71.1 | 72.0 | 72.0 |
| 62.5° | 63.0 | 63.0 | 63.0 | 63.0 | 63.9 | 63.9 | 63.0 | 63.9 | 63.9 | 64.8 | 64.8 |
| 65° | 56.7 | 56.7 | 56.7 | 56.7 | 56.7 | 56.7 | 56.7 | 57.6 | 57.6 | 58.5 | 58.5 |
| 67.5° | 50.4 | 49.5 | 50.4 | 50.4 | 50.4 | 50.4 | 50.4 | 51.3 | 51.3 | 51.3 | 52.2 |
| 70° | 44.1 | 43.2 | 43.2 | 43.2 | 44.1 | 44.1 | 44.1 | 45.0 | 44.1 | 45.0 | 45.0 |
| 72.5° | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 37.8 | 37.8 | 37.8 | 37.8 | 38.7 | 38.7 |
| 75° | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 | 31.5 | 31.5 | 31.5 | 32.4 | 32.4 |
| 77.5° | 24.3 | 24.3 | 24.3 | 24.3 | 24.3 | 24.3 | 25.2 | 25.2 | 25.2 | 25.2 | 26.1 |
| 80° | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.9 | 18.9 | 18.9 | 18.9 | 19.8 |
| 82.5° | 11.7 | 11.7 | 11.7 | 12.6 | 11.7 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 13.5 |
| 85° | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 7.2 | 7.2 | 8.1 |
| 87.5° | 1.8 | 0.9 | 0.9 | 1.8 | 0.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 90° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 92.5° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 95° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 4.5 | 4.5 |
| 97.5° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 6.3 | 6.3 | 6.3 | 6.3 | 7.2 | 8.1 |
| 100° | 8.1 | 8.1 | 8.1 | 8.1 | 9.0 | 9.0 | 9.0 | 9.9 | 9.9 | 11.7 | 12.6 |
| 102.5° | 11.7 | 11.7 | 11.7 | 11.7 | 12.6 | 12.6 | 13.5 | 14.4 | 15.3 | 18.0 | 22.5 |
| 105° | 16.2 | 16.2 | 16.2 | 17.1 | 18.0 | 18.0 | 18.9 | 20.7 | 24.3 | 29.7 | 39.6 |
| 107.5° | 22.5 | 22.5 | 23.4 | 24.3 | 26.1 | 27.0 | 28.8 | 35.1 | 43.2 | 57.6 | 86.4 |
| 110° | 34.2 | 34.2 | 36.0 | 38.7 | 44.1 | 47.7 | 54.0 | 71.1 | 96.3 | 133.2 | 172.8 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 64.8 | 65.7 | 72.9 | 78.3 | 96.3 | 109.8 | 128.7 | 166.5 | 205.2 | 238.5 | 261.9 |
| 115° | 158.4 | 161.1 | 179.1 | 189.0 | 229.5 | 237.6 | 258.3 | 294.3 | 311.4 | 315.9 | 313.2 |
| 117.5° | 318.6 | 319.5 | 332.1 | 340.2 | 355.5 | 360.9 | 362.7 | 369.0 | 365.4 | 358.2 | 348.3 |
| 120° | 414.0 | 412.2 | 414.0 | 411.3 | 412.2 | 410.4 | 407.7 | 402.3 | 393.3 | 383.4 | 370.8 |
| 122.5° | 450.0 | 449.1 | 447.3 | 441.9 | 439.2 | 435.6 | 431.1 | 424.8 | 415.8 | 403.2 | 390.6 |
| 125° | 469.8 | 468.9 | 467.1 | 461.7 | 457.2 | 453.6 | 450.0 | 442.8 | 432.0 | 421.2 | 407.7 |
| 127.5° | 484.2 | 483.3 | 480.6 | 477.0 | 471.6 | 468.0 | 464.4 | 457.2 | 446.4 | 435.6 | 423.9 |
| 130° | 495.9 | 495.0 | 492.3 | 489.6 | 484.2 | 481.5 | 477.9 | 470.7 | 459.9 | 449.1 | 437.4 |
| 132.5° | 506.7 | 505.8 | 504.0 | 501.3 | 495.9 | 492.3 | 489.6 | 483.3 | 471.6 | 460.8 | 451.8 |
| 135° | 515.7 | 513.9 | 513.9 | 510.3 | 504.9 | 502.2 | 499.5 | 493.2 | 482.4 | 472.5 | 463.5 |
| 137.5° | 522.9 | 522.0 | 520.2 | 517.5 | 513.0 | 510.3 | 507.6 | 501.3 | 492.3 | 482.4 | 474.3 |
| 140° | 529.2 | 528.3 | 527.4 | 524.7 | 520.2 | 517.5 | 515.7 | 508.5 | 500.4 | 492.3 | 485.1 |
| 142.5° | 534.6 | 533.7 | 531.9 | 530.1 | 525.6 | 523.8 | 522.0 | 515.7 | 506.7 | 500.4 | 494.1 |
| 145° | 538.2 | 538.2 | 536.4 | 534.6 | 531.0 | 529.2 | 527.4 | 520.2 | 513.0 | 507.6 | 502.2 |
| 147.5° | 541.8 | 541.8 | 539.1 | 538.2 | 535.5 | 533.7 | 531.9 | 524.7 | 517.5 | 513.0 | 507.6 |
| 150° | 543.6 | 543.6 | 541.8 | 540.0 | 537.3 | 536.4 | 534.6 | 528.3 | 522.0 | 518.4 | 512.1 |
| 152.5° | 545.4 | 545.4 | 543.6 | 541.8 | 539.1 | 538.2 | 535.5 | 531.0 | 524.7 | 521.1 | 515.7 |
| 155° | 545.4 | 546.3 | 543.6 | 541.8 | 540.0 | 539.1 | 536.4 | 531.0 | 526.5 | 523.8 | 517.5 |
| 157.5° | 544.5 | 544.5 | 543.6 | 541.8 | 539.1 | 538.2 | 535.5 | 530.1 | 526.5 | 525.6 | 518.4 |
| 160° | 542.7 | 542.7 | 541.8 | 539.1 | 538.2 | 536.4 | 533.7 | 530.1 | 527.4 | 525.6 | 520.2 |
| 162.5° | 540.0 | 539.1 | 538.2 | 536.4 | 535.5 | 534.6 | 532.8 | 528.3 | 525.6 | 524.7 | 519.3 |
| 165° | 535.5 | 534.6 | 533.7 | 532.8 | 531.9 | 531.0 | 529.2 | 524.7 | 523.8 | 522.9 | 517.5 |
| 167.5° | 531.0 | 529.2 | 528.3 | 526.5 | 526.5 | 524.7 | 523.8 | 521.1 | 520.2 | 520.2 | 516.6 |
| 170° | 523.8 | 522.9 | 522.0 | 521.1 | 521.1 | 520.2 | 519.3 | 515.7 | 515.7 | 516.6 | 513.0 |
| 172.5° | 518.4 | 516.6 | 516.6 | 515.7 | 515.7 | 514.8 | 513.9 | 511.2 | 511.2 | 512.1 | 510.3 |
| 175° | 510.3 | 509.4 | 508.5 | 507.6 | 507.6 | 507.6 | 506.7 | 504.9 | 505.8 | 506.7 | 504.9 |
| 177.5° | 500.4 | 497.7 | 498.6 | 498.6 | 500.4 | 499.5 | 499.5 | 497.7 | 498.6 | 500.4 | 499.5 |
| 180° | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 |



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CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 |
| 2.5° | 180.0 | 180.0 | 179.1 | 180.0 | 180.0 | 180.0 | 180.9 | 180.9 | 181.8 | 181.8 | 181.8 |
| 5° | 180.0 | 179.1 | 179.1 | 179.1 | 180.0 | 180.0 | 180.0 | 180.9 | 180.9 | 180.9 | 180.9 |
| 7.5° | 178.2 | 178.2 | 178.2 | 178.2 | 178.2 | 179.1 | 179.1 | 179.1 | 180.0 | 180.0 | 179.1 |
| 10° | 177.3 | 176.4 | 176.4 | 176.4 | 177.3 | 177.3 | 177.3 | 178.2 | 178.2 | 178.2 | 177.3 |
| 12.5° | 174.6 | 174.6 | 173.7 | 174.6 | 174.6 | 174.6 | 174.6 | 175.5 | 175.5 | 175.5 | 175.5 |
| 15° | 171.9 | 171.9 | 171.0 | 171.9 | 171.9 | 171.9 | 171.9 | 172.8 | 173.7 | 172.8 | 172.8 |
| 17.5° | 168.3 | 168.3 | 168.3 | 168.3 | 168.3 | 169.2 | 169.2 | 170.1 | 170.1 | 170.1 | 169.2 |
| 20° | 164.7 | 164.7 | 164.7 | 164.7 | 164.7 | 164.7 | 165.6 | 165.6 | 166.5 | 166.5 | 165.6 |
| 22.5° | 160.2 | 160.2 | 160.2 | 160.2 | 161.1 | 161.1 | 161.1 | 162.0 | 162.0 | 162.0 | 161.1 |
| 25° | 156.6 | 155.7 | 155.7 | 155.7 | 156.6 | 156.6 | 156.6 | 157.5 | 157.5 | 157.5 | 157.5 |
| 27.5° | 151.2 | 151.2 | 150.3 | 151.2 | 151.2 | 152.1 | 152.1 | 153.0 | 153.0 | 153.0 | 152.1 |
| 30° | 146.7 | 145.8 | 145.8 | 145.8 | 146.7 | 146.7 | 147.6 | 147.6 | 148.5 | 147.6 | 147.6 |
| 32.5° | 141.3 | 141.3 | 140.4 | 141.3 | 141.3 | 141.3 | 142.2 | 142.2 | 143.1 | 143.1 | 142.2 |
| 35° | 135.9 | 135.0 | 135.0 | 135.9 | 135.9 | 135.9 | 136.8 | 136.8 | 137.7 | 136.8 | 136.8 |
| 37.5° | 130.5 | 129.6 | 129.6 | 129.6 | 129.6 | 130.5 | 131.4 | 131.4 | 131.4 | 131.4 | 131.4 |
| 40° | 124.2 | 124.2 | 124.2 | 124.2 | 124.2 | 124.2 | 125.1 | 125.1 | 126.0 | 125.1 | 125.1 |
| 42.5° | 118.8 | 117.9 | 117.9 | 117.9 | 117.9 | 118.8 | 118.8 | 119.7 | 119.7 | 119.7 | 118.8 |
| 45° | 112.5 | 112.5 | 112.5 | 111.6 | 111.6 | 112.5 | 113.4 | 113.4 | 113.4 | 113.4 | 112.5 |
| 47.5° | 106.2 | 105.3 | 106.2 | 106.2 | 105.3 | 106.2 | 107.1 | 107.1 | 107.1 | 107.1 | 106.2 |
| 50° | 99.0 | 99.0 | 99.0 | 99.9 | 99.0 | 99.9 | 100.8 | 100.8 | 100.8 | 99.9 | 99.9 |
| 52.5° | 91.8 | 92.7 | 93.6 | 93.6 | 92.7 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 |
| 55° | 85.5 | 86.4 | 86.4 | 86.4 | 86.4 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3 |
| 57.5° | 79.2 | 79.2 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 81.0 | 80.1 | 80.1 | 80.1 |
| 60° | 72.0 | 72.9 | 73.8 | 73.8 | 73.8 | 73.8 | 73.8 | 74.7 | 73.8 | 73.8 | 73.8 |
| 62.5° | 65.7 | 65.7 | 66.6 | 67.5 | 66.6 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 |
| 65° | 59.4 | 59.4 | 60.3 | 60.3 | 60.3 | 60.3 | 60.3 | 61.2 | 60.3 | 61.2 | 61.2 |
| 67.5° | 52.2 | 53.1 | 53.1 | 54.0 | 54.0 | 54.0 | 54.0 | 54.9 | 54.9 | 54.0 | 54.0 |
| 70° | 45.9 | 45.9 | 46.8 | 46.8 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 |
| 72.5° | 38.7 | 39.6 | 39.6 | 40.5 | 40.5 | 40.5 | 40.5 | 41.4 | 41.4 | 41.4 | 41.4 |
| 75° | 32.4 | 33.3 | 33.3 | 34.2 | 33.3 | 34.2 | 34.2 | 34.2 | 35.1 | 34.2 | 35.1 |
| 77.5° | 26.1 | 27.0 | 27.0 | 27.0 | 27.9 | 27.9 | 27.9 | 27.9 | 27.9 | 27.9 | 27.9 |
| 80° | 19.8 | 20.7 | 20.7 | 20.7 | 21.6 | 21.6 | 21.6 | 21.6 | 21.6 | 21.6 | 21.6 |
| 82.5° | 13.5 | 14.4 | 14.4 | 14.4 | 14.4 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 |
| 85° | 8.1 | 8.1 | 8.1 | 9.0 | 9.0 | 9.0 | 9.0 | 9.9 | 9.9 | 9.9 | 9.9 |
| 87.5° | 2.7 | 2.7 | 2.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 4.5 | 4.5 |
| 90° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 92.5° | 2.7 | 2.7 | 2.7 | 2.7 | 3.6 | 3.6 | 5.4 | 5.4 | 4.5 | 4.5 | 4.5 |
| 95° | 5.4 | 5.4 | 7.2 | 9.0 | 10.8 | 12.6 | 14.4 | 14.4 | 12.6 | 10.8 | 9.9 |
| 97.5° | 9.0 | 11.7 | 15.3 | 20.7 | 23.4 | 27.0 | 29.7 | 27.0 | 23.4 | 19.8 | 18.0 |
| 100° | 16.2 | 21.6 | 30.6 | 41.4 | 45.9 | 49.5 | 50.4 | 45.0 | 37.8 | 30.6 | 27.9 |
| 102.5° | 30.6 | 41.4 | 60.3 | 74.7 | 78.3 | 81.0 | 76.5 | 66.6 | 56.7 | 45.9 | 40.5 |
| 105° | 58.5 | 82.8 | 108.9 | 116.1 | 117.9 | 116.1 | 106.2 | 91.8 | 78.3 | 64.8 | 56.7 |
| 107.5° | 119.7 | 147.6 | 163.8 | 160.2 | 155.7 | 150.3 | 135.9 | 118.8 | 102.6 | 85.5 | 75.6 |
| 110° | 198.9 | 210.6 | 209.7 | 197.1 | 188.1 | 180.0 | 164.7 | 145.8 | 126.9 | 108.9 | 96.3 |



TEST NUMBER: P303186

CATALOG NUMBER: CTW-F-7525-20L940-UNV-STD-4

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 264.6 | 258.3 | 245.7 | 227.7 | 217.8 | 207.9 | 191.7 | 172.8 | 152.1 | 133.2 | 119.7 |
| 115° | 304.2 | 290.7 | 273.6 | 257.4 | 247.5 | 236.7 | 217.8 | 198.0 | 177.3 | 157.5 | 143.1 |
| 117.5° | 332.1 | 316.8 | 300.6 | 282.6 | 272.7 | 262.8 | 244.8 | 222.3 | 201.6 | 181.8 | 166.5 |
| 120° | 354.6 | 338.4 | 321.3 | 305.1 | 296.1 | 287.1 | 268.2 | 247.5 | 225.0 | 206.1 | 189.0 |
| 122.5° | 375.3 | 359.1 | 343.8 | 326.7 | 316.8 | 308.7 | 288.9 | 269.1 | 249.3 | 229.5 | 211.5 |
| 125° | 394.2 | 379.8 | 361.8 | 345.6 | 337.5 | 328.5 | 309.6 | 289.8 | 271.8 | 252.9 | 235.8 |
| 127.5° | 411.3 | 396.9 | 380.7 | 362.7 | 354.6 | 346.5 | 326.7 | 308.7 | 292.5 | 273.6 | 257.4 |
| 130° | 426.6 | 412.2 | 396.9 | 379.8 | 372.6 | 363.6 | 345.6 | 327.6 | 312.3 | 295.2 | 278.1 |
| 132.5° | 441.0 | 426.6 | 411.3 | 395.1 | 387.0 | 378.9 | 363.6 | 345.6 | 331.2 | 315.9 | 298.8 |
| 135° | 453.6 | 439.2 | 423.9 | 407.7 | 400.5 | 393.3 | 378.0 | 362.7 | 347.4 | 333.9 | 317.7 |
| 137.5° | 464.4 | 450.9 | 435.6 | 420.3 | 414.0 | 406.8 | 392.4 | 378.0 | 364.5 | 351.0 | 335.7 |
| 140° | 474.3 | 460.8 | 445.5 | 431.1 | 424.8 | 419.4 | 405.0 | 392.4 | 380.7 | 367.2 | 352.8 |
| 142.5° | 483.3 | 468.9 | 454.5 | 441.0 | 435.6 | 430.2 | 417.6 | 405.9 | 395.1 | 381.6 | 369.0 |
| 145° | 490.5 | 476.1 | 462.6 | 450.0 | 446.4 | 440.1 | 428.4 | 418.5 | 407.7 | 396.0 | 384.3 |
| 147.5° | 497.7 | 484.2 | 470.7 | 459.0 | 455.4 | 450.0 | 440.1 | 430.2 | 420.3 | 409.5 | 398.7 |
| 150° | 502.2 | 489.6 | 477.9 | 468.0 | 464.4 | 459.0 | 449.1 | 441.0 | 432.9 | 422.1 | 411.3 |
| 152.5° | 505.8 | 494.1 | 483.3 | 475.2 | 472.5 | 468.0 | 459.0 | 452.7 | 443.7 | 434.7 | 424.8 |
| 155° | 508.5 | 497.7 | 488.7 | 481.5 | 478.8 | 476.1 | 467.1 | 461.7 | 453.6 | 445.5 | 436.5 |
| 157.5° | 510.3 | 500.4 | 492.3 | 486.9 | 484.2 | 481.5 | 473.4 | 468.9 | 462.6 | 455.4 | 446.4 |
| 160° | 511.2 | 502.2 | 495.9 | 491.4 | 488.7 | 486.0 | 480.6 | 475.2 | 468.9 | 463.5 | 456.3 |
| 162.5° | 511.2 | 504.0 | 497.7 | 494.1 | 492.3 | 490.5 | 485.1 | 480.6 | 476.1 | 470.7 | 464.4 |
| 165° | 511.2 | 504.9 | 499.5 | 496.8 | 495.0 | 494.1 | 488.7 | 486.0 | 481.5 | 477.0 | 471.6 |
| 167.5° | 509.4 | 504.0 | 500.4 | 498.6 | 496.8 | 495.9 | 492.3 | 488.7 | 486.0 | 483.3 | 477.9 |
| 170° | 507.6 | 503.1 | 499.5 | 498.6 | 497.7 | 496.8 | 494.1 | 492.3 | 490.5 | 487.8 | 483.3 |
| 172.5° | 504.9 | 501.3 | 498.6 | 497.7 | 497.7 | 496.8 | 495.0 | 494.1 | 493.2 | 491.4 | 487.8 |
| 175° | 500.4 | 497.7 | 495.0 | 495.9 | 495.9 | 495.9 | 494.1 | 495.0 | 494.1 | 493.2 | 490.5 |
| 177.5° | 495.0 | 493.2 | 492.3 | 493.2 | 493.2 | 493.2 | 493.2 | 494.1 | 495.0 | 495.0 | 492.3 |
| 180° | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 |



TEST NUMBER: P303186

CATALOG NUMBER: CTW-F-7525-20L940-UNV-STD-4

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 |
| 2.5° | 180.0 | 179.1 | 179.1 | 179.1 | 180.0 | 180.0 | 180.0 | 180.0 | 180.9 | 180.9 | 180.9 |
| 5° | 179.1 | 178.2 | 178.2 | 178.2 | 179.1 | 179.1 | 179.1 | 179.1 | 180.0 | 180.0 | 180.0 |
| 7.5° | 178.2 | 177.3 | 177.3 | 177.3 | 177.3 | 178.2 | 178.2 | 177.3 | 178.2 | 179.1 | 178.2 |
| 10° | 176.4 | 175.5 | 175.5 | 175.5 | 175.5 | 176.4 | 176.4 | 175.5 | 176.4 | 176.4 | 176.4 |
| 12.5° | 173.7 | 172.8 | 172.8 | 172.8 | 173.7 | 173.7 | 173.7 | 172.8 | 173.7 | 174.6 | 173.7 |
| 15° | 171.0 | 170.1 | 170.1 | 170.1 | 170.1 | 171.0 | 171.0 | 170.1 | 171.0 | 171.0 | 170.1 |
| 17.5° | 168.3 | 167.4 | 166.5 | 166.5 | 167.4 | 167.4 | 167.4 | 166.5 | 167.4 | 167.4 | 166.5 |
| 20° | 163.8 | 162.9 | 162.9 | 162.9 | 163.8 | 163.8 | 162.9 | 162.9 | 163.8 | 162.9 | 162.9 |
| 22.5° | 160.2 | 159.3 | 159.3 | 159.3 | 159.3 | 159.3 | 159.3 | 158.4 | 159.3 | 158.4 | 158.4 |
| 25° | 155.7 | 154.8 | 154.8 | 154.8 | 154.8 | 154.8 | 153.9 | 153.9 | 154.8 | 153.9 | 153.0 |
| 27.5° | 151.2 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 149.4 | 149.4 | 149.4 | 148.5 | 148.5 |
| 30° | 145.8 | 145.8 | 144.9 | 144.9 | 144.9 | 144.9 | 144.0 | 144.0 | 144.9 | 144.0 | 143.1 |
| 32.5° | 141.3 | 140.4 | 140.4 | 140.4 | 140.4 | 139.5 | 138.6 | 138.6 | 138.6 | 138.6 | 137.7 |
| 35° | 135.0 | 135.0 | 135.0 | 135.0 | 134.1 | 134.1 | 133.2 | 134.1 | 133.2 | 132.3 | 132.3 |
| 37.5° | 129.6 | 129.6 | 128.7 | 128.7 | 128.7 | 128.7 | 127.8 | 128.7 | 127.8 | 126.9 | 126.0 |
| 40° | 124.2 | 123.3 | 123.3 | 123.3 | 123.3 | 122.4 | 122.4 | 122.4 | 121.5 | 120.6 | 120.6 |
| 42.5° | 117.9 | 117.9 | 117.0 | 117.9 | 117.0 | 117.0 | 116.1 | 117.0 | 116.1 | 115.2 | 114.3 |
| 45° | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | 110.7 | 110.7 | 110.7 | 109.8 | 108.9 | 108.0 |
| 47.5° | 105.3 | 105.3 | 105.3 | 106.2 | 105.3 | 104.4 | 104.4 | 104.4 | 103.5 | 102.6 | 101.7 |
| 50° | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 98.1 | 98.1 | 97.2 | 97.2 | 96.3 | 95.4 |
| 52.5° | 92.7 | 92.7 | 92.7 | 93.6 | 92.7 | 91.8 | 91.8 | 91.8 | 90.9 | 90.0 | 89.1 |
| 55° | 86.4 | 86.4 | 87.3 | 86.4 | 86.4 | 86.4 | 85.5 | 85.5 | 84.6 | 83.7 | 82.8 |
| 57.5° | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 79.2 | 79.2 | 79.2 | 78.3 | 77.4 | 76.5 |
| 60° | 73.8 | 73.8 | 73.8 | 73.8 | 72.9 | 72.9 | 72.9 | 72.0 | 71.1 | 70.2 | 70.2 |
| 62.5° | 66.6 | 67.5 | 67.5 | 66.6 | 66.6 | 66.6 | 65.7 | 65.7 | 64.8 | 64.8 | 63.9 |
| 65° | 60.3 | 61.2 | 60.3 | 60.3 | 60.3 | 60.3 | 59.4 | 59.4 | 58.5 | 57.6 | 57.6 |
| 67.5° | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 53.1 | 53.1 | 52.2 | 52.2 | 51.3 | 51.3 |
| 70° | 47.7 | 47.7 | 46.8 | 46.8 | 47.7 | 46.8 | 45.9 | 45.9 | 45.9 | 45.0 | 45.0 |
| 72.5° | 41.4 | 41.4 | 40.5 | 40.5 | 40.5 | 40.5 | 39.6 | 39.6 | 38.7 | 38.7 | 37.8 |
| 75° | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 33.3 | 33.3 | 33.3 | 32.4 | 32.4 | 31.5 |
| 77.5° | 27.9 | 27.9 | 27.9 | 27.9 | 27.9 | 27.0 | 27.0 | 27.0 | 27.0 | 26.1 | 26.1 |
| 80° | 21.6 | 21.6 | 21.6 | 21.6 | 21.6 | 20.7 | 20.7 | 20.7 | 19.8 | 19.8 | 18.9 |
| 82.5° | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 14.4 | 14.4 | 14.4 | 13.5 | 13.5 | 13.5 |
| 85° | 9.9 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 8.1 | 8.1 | 8.1 | 8.1 | 7.2 |
| 87.5° | 4.5 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 2.7 | 3.6 |
| 90° | 0.9 | 1.8 | 1.8 | 2.7 | 2.7 | 2.7 | 2.7 | 3.6 | 3.6 | 3.6 | 3.6 |
| 92.5° | 7.2 | 9.0 | 9.0 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 |
| 95° | 11.7 | 13.5 | 17.1 | 18.0 | 18.9 | 20.7 | 20.7 | 20.7 | 19.8 | 19.8 | 19.8 |
| 97.5° | 17.1 | 19.8 | 19.8 | 21.6 | 22.5 | 26.1 | 28.8 | 29.7 | 31.5 | 31.5 | 31.5 |
| 100° | 26.1 | 25.2 | 27.9 | 29.7 | 29.7 | 29.7 | 31.5 | 35.1 | 36.9 | 38.7 | 39.6 |
| 102.5° | 37.8 | 34.2 | 34.2 | 35.1 | 36.9 | 40.5 | 37.8 | 38.7 | 40.5 | 42.3 | 45.0 |
| 105° | 50.4 | 46.8 | 44.1 | 43.2 | 44.1 | 46.8 | 49.5 | 48.6 | 46.8 | 47.7 | 49.5 |
| 107.5° | 66.6 | 60.3 | 54.9 | 54.0 | 54.0 | 54.0 | 56.7 | 59.4 | 61.2 | 59.4 | 57.6 |
| 110° | 85.5 | 75.6 | 70.2 | 65.7 | 64.8 | 63.9 | 63.9 | 65.7 | 69.3 | 72.0 | 72.9 |



TEST NUMBER: P303186

CATALOG NUMBER: CTW-F-7525-20L940-UNV-STD-4

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 106.2 | 94.5 | 85.5 | 81.0 | 78.3 | 74.7 | 73.8 | 73.8 | 75.6 | 79.2 | 81.9 |
| 115° | 127.8 | 115.2 | 103.5 | 99.0 | 94.5 | 88.2 | 85.5 | 83.7 | 83.7 | 85.5 | 88.2 |
| 117.5° | 150.3 | 136.8 | 124.2 | 117.0 | 113.4 | 104.4 | 98.1 | 94.5 | 93.6 | 93.6 | 95.4 |
| 120° | 172.8 | 160.2 | 145.8 | 137.7 | 133.2 | 123.3 | 114.3 | 107.1 | 104.4 | 103.5 | 102.6 |
| 122.5° | 195.3 | 181.8 | 168.3 | 160.2 | 154.8 | 143.1 | 134.1 | 123.3 | 118.8 | 114.3 | 113.4 |
| 125° | 217.8 | 204.3 | 189.9 | 183.6 | 176.4 | 163.8 | 153.9 | 143.1 | 135.0 | 128.7 | 124.2 |
| 127.5° | 241.2 | 225.9 | 211.5 | 207.0 | 198.9 | 186.3 | 175.5 | 164.7 | 155.7 | 146.7 | 140.4 |
| 130° | 261.9 | 249.3 | 235.8 | 228.6 | 221.4 | 208.8 | 196.2 | 185.4 | 177.3 | 168.3 | 160.2 |
| 132.5° | 282.6 | 270.0 | 257.4 | 252.9 | 245.7 | 231.3 | 219.6 | 207.0 | 198.0 | 189.0 | 181.8 |
| 135° | 301.5 | 288.9 | 277.2 | 272.7 | 266.4 | 253.8 | 243.0 | 230.4 | 218.7 | 210.6 | 203.4 |
| 137.5° | 319.5 | 307.8 | 296.1 | 291.6 | 286.2 | 274.5 | 264.6 | 253.8 | 243.0 | 234.9 | 224.1 |
| 140° | 337.5 | 325.8 | 315.0 | 310.5 | 305.1 | 294.3 | 283.5 | 275.4 | 264.6 | 256.5 | 248.4 |
| 142.5° | 354.6 | 342.9 | 332.1 | 327.6 | 324.0 | 313.2 | 303.3 | 296.1 | 287.1 | 278.1 | 270.9 |
| 145° | 370.8 | 358.2 | 349.2 | 344.7 | 341.1 | 331.2 | 322.2 | 315.9 | 308.7 | 299.7 | 292.5 |
| 147.5° | 385.2 | 373.5 | 364.5 | 361.8 | 358.2 | 350.1 | 341.1 | 333.9 | 328.5 | 320.4 | 313.2 |
| 150° | 398.7 | 387.9 | 379.8 | 377.1 | 374.4 | 365.4 | 357.3 | 351.0 | 346.5 | 339.3 | 332.1 |
| 152.5° | 413.1 | 402.3 | 395.1 | 392.4 | 388.8 | 381.6 | 374.4 | 367.2 | 363.6 | 358.2 | 351.0 |
| 155° | 424.8 | 415.8 | 408.6 | 405.9 | 402.3 | 396.9 | 388.8 | 383.4 | 380.7 | 374.4 | 368.1 |
| 157.5° | 436.5 | 427.5 | 421.2 | 418.5 | 415.8 | 410.4 | 403.2 | 397.8 | 396.0 | 390.6 | 385.2 |
| 160° | 446.4 | 438.3 | 432.0 | 429.3 | 427.5 | 423.0 | 416.7 | 411.3 | 410.4 | 406.8 | 401.4 |
| 162.5° | 455.4 | 447.3 | 442.8 | 440.1 | 438.3 | 435.6 | 429.3 | 423.9 | 423.0 | 420.3 | 415.8 |
| 165° | 462.6 | 455.4 | 451.8 | 450.0 | 449.1 | 446.4 | 441.0 | 435.6 | 435.6 | 433.8 | 428.4 |
| 167.5° | 470.7 | 463.5 | 459.9 | 459.0 | 458.1 | 455.4 | 451.8 | 447.3 | 447.3 | 445.5 | 441.0 |
| 170° | 477.0 | 470.7 | 468.0 | 467.1 | 466.2 | 464.4 | 461.7 | 457.2 | 458.1 | 456.3 | 452.7 |
| 172.5° | 481.5 | 477.0 | 475.2 | 473.4 | 473.4 | 472.5 | 470.7 | 467.1 | 468.0 | 467.1 | 463.5 |
| 175° | 485.1 | 480.6 | 480.6 | 478.8 | 479.7 | 479.7 | 477.0 | 474.3 | 476.1 | 477.0 | 473.4 |
| 177.5° | 487.8 | 484.2 | 484.2 | 484.2 | 485.1 | 485.1 | 484.2 | 481.5 | 483.3 | 485.1 | 481.5 |
| 180° | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 |



TEST NUMBER: P303186

CATALOG NUMBER: CTW-F-7525-20L940-UNV-STD-4

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 | 180.9 |
| 2.5° | 180.9 | 180.9 | 180.9 | 180.0 | 180.9 | 179.1 | 178.2 | 178.2 |
| 5° | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 | 179.1 | 178.2 | 178.2 |
| 7.5° | 178.2 | 178.2 | 177.3 | 177.3 | 178.2 | 178.2 | 177.3 | 177.3 |
| 10° | 175.5 | 175.5 | 175.5 | 175.5 | 176.4 | 175.5 | 175.5 | 175.5 |
| 12.5° | 173.7 | 172.8 | 172.8 | 172.8 | 173.7 | 172.8 | 172.8 | 172.8 |
| 15° | 170.1 | 170.1 | 170.1 | 170.1 | 171.0 | 170.1 | 170.1 | 170.1 |
| 17.5° | 166.5 | 166.5 | 166.5 | 166.5 | 167.4 | 166.5 | 165.6 | 165.6 |
| 20° | 162.9 | 162.0 | 162.0 | 162.0 | 162.0 | 162.0 | 161.1 | 161.1 |
| 22.5° | 157.5 | 157.5 | 157.5 | 157.5 | 157.5 | 156.6 | 156.6 | 156.6 |
| 25° | 153.0 | 152.1 | 152.1 | 153.0 | 152.1 | 152.1 | 151.2 | 151.2 |
| 27.5° | 147.6 | 147.6 | 147.6 | 147.6 | 147.6 | 146.7 | 145.8 | 145.8 |
| 30° | 143.1 | 142.2 | 142.2 | 142.2 | 142.2 | 141.3 | 140.4 | 140.4 |
| 32.5° | 137.7 | 136.8 | 136.8 | 136.8 | 136.8 | 135.0 | 135.0 | 135.0 |
| 35° | 131.4 | 131.4 | 131.4 | 131.4 | 130.5 | 129.6 | 129.6 | 128.7 |
| 37.5° | 126.0 | 125.1 | 125.1 | 125.1 | 124.2 | 124.2 | 123.3 | 123.3 |
| 40° | 119.7 | 119.7 | 119.7 | 119.7 | 118.8 | 117.9 | 117.0 | 117.0 |
| 42.5° | 113.4 | 113.4 | 113.4 | 113.4 | 112.5 | 111.6 | 111.6 | 111.6 |
| 45° | 108.0 | 107.1 | 107.1 | 107.1 | 106.2 | 106.2 | 105.3 | 105.3 |
| 47.5° | 101.7 | 101.7 | 100.8 | 100.8 | 100.8 | 99.9 | 99.0 | 99.0 |
| 50° | 95.4 | 95.4 | 95.4 | 94.5 | 93.6 | 93.6 | 93.6 | 92.7 |
| 52.5° | 89.1 | 89.1 | 89.1 | 88.2 | 88.2 | 87.3 | 87.3 | 87.3 |
| 55° | 82.8 | 82.8 | 82.8 | 81.9 | 81.9 | 81.0 | 81.0 | 81.0 |
| 57.5° | 76.5 | 76.5 | 76.5 | 75.6 | 75.6 | 74.7 | 74.7 | 74.7 |
| 60° | 70.2 | 70.2 | 69.3 | 69.3 | 69.3 | 68.4 | 68.4 | 68.4 |
| 62.5° | 63.9 | 63.0 | 63.0 | 63.0 | 63.0 | 62.1 | 62.1 | 62.1 |
| 65° | 57.6 | 56.7 | 56.7 | 56.7 | 56.7 | 55.8 | 55.8 | 55.8 |
| 67.5° | 51.3 | 50.4 | 50.4 | 50.4 | 50.4 | 49.5 | 49.5 | 49.5 |
| 70° | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 43.2 | 43.2 | 43.2 |
| 72.5° | 37.8 | 37.8 | 37.8 | 37.8 | 36.9 | 36.9 | 36.9 | 36.9 |
| 75° | 31.5 | 31.5 | 31.5 | 31.5 | 30.6 | 30.6 | 30.6 | 30.6 |
| 77.5° | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 24.3 | 24.3 | 25.2 |
| 80° | 18.9 | 18.9 | 18.9 | 18.9 | 18.9 | 18.0 | 18.0 | 18.0 |
| 82.5° | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 11.7 |
| 85° | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 87.5° | 2.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 90° | 3.6 | 4.5 | 4.5 | 4.5 | 4.5 | 5.4 | 5.4 | 5.4 |
| 92.5° | 9.9 | 10.8 | 10.8 | 9.9 | 10.8 | 10.8 | 10.8 | 10.8 |
| 95° | 18.9 | 19.8 | 19.8 | 18.9 | 19.8 | 19.8 | 19.8 | 19.8 |
| 97.5° | 31.5 | 31.5 | 31.5 | 30.6 | 31.5 | 30.6 | 30.6 | 30.6 |
| 100° | 40.5 | 40.5 | 41.4 | 41.4 | 42.3 | 42.3 | 41.4 | 42.3 |
| 102.5° | 45.9 | 46.8 | 47.7 | 47.7 | 48.6 | 48.6 | 49.5 | 49.5 |
| 105° | 50.4 | 51.3 | 52.2 | 52.2 | 54.0 | 54.9 | 55.8 | 55.8 |
| 107.5° | 57.6 | 57.6 | 58.5 | 58.5 | 59.4 | 59.4 | 59.4 | 60.3 |
| 110° | 72.0 | 69.3 | 68.4 | 68.4 | 67.5 | 67.5 | 67.5 | 67.5 |



TEST NUMBER: P303186

CATALOG NUMBER: CTW-F-7525-20L940-UNV-STD-4

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 83.7 | 83.7 | 84.6 | 84.6 | 84.6 | 83.7 | 81.9 | 82.8 |
| 115° | 90.9 | 92.7 | 92.7 | 93.6 | 93.6 | 94.5 | 94.5 | 95.4 |
| 117.5° | 96.3 | 98.1 | 99.0 | 99.9 | 101.7 | 102.6 | 102.6 | 102.6 |
| 120° | 103.5 | 104.4 | 105.3 | 105.3 | 106.2 | 107.1 | 108.0 | 108.0 |
| 122.5° | 112.5 | 111.6 | 112.5 | 112.5 | 112.5 | 113.4 | 113.4 | 113.4 |
| 125° | 122.4 | 121.5 | 120.6 | 120.6 | 119.7 | 119.7 | 119.7 | 119.7 |
| 127.5° | 135.9 | 133.2 | 132.3 | 131.4 | 129.6 | 129.6 | 128.7 | 129.6 |
| 130° | 153.9 | 149.4 | 147.6 | 145.8 | 142.2 | 142.2 | 140.4 | 140.4 |
| 132.5° | 174.6 | 169.2 | 166.5 | 164.7 | 160.2 | 158.4 | 156.6 | 156.6 |
| 135° | 197.1 | 191.7 | 188.1 | 186.3 | 180.9 | 179.1 | 177.3 | 175.5 |
| 137.5° | 218.7 | 213.3 | 210.6 | 209.7 | 204.3 | 202.5 | 198.9 | 198.0 |
| 140° | 242.1 | 236.7 | 234.0 | 232.2 | 225.9 | 223.2 | 221.4 | 220.5 |
| 142.5° | 264.6 | 258.3 | 255.6 | 254.7 | 250.2 | 247.5 | 244.8 | 243.9 |
| 145° | 286.2 | 279.9 | 277.2 | 277.2 | 271.8 | 270.0 | 267.3 | 265.5 |
| 147.5° | 307.8 | 301.5 | 298.8 | 298.8 | 294.3 | 290.7 | 288.9 | 287.1 |
| 150° | 327.6 | 322.2 | 319.5 | 319.5 | 315.0 | 311.4 | 308.7 | 307.8 |
| 152.5° | 345.6 | 341.1 | 339.3 | 339.3 | 335.7 | 332.1 | 330.3 | 329.4 |
| 155° | 363.6 | 360.0 | 357.3 | 357.3 | 354.6 | 351.0 | 350.1 | 349.2 |
| 157.5° | 381.6 | 378.0 | 375.3 | 376.2 | 372.6 | 369.9 | 368.1 | 368.1 |
| 160° | 397.8 | 395.1 | 392.4 | 392.4 | 390.6 | 387.9 | 384.3 | 385.2 |
| 162.5° | 414.0 | 410.4 | 408.6 | 408.6 | 407.7 | 404.1 | 400.5 | 401.4 |
| 165° | 425.7 | 423.9 | 423.0 | 423.0 | 422.1 | 419.4 | 416.7 | 416.7 |
| 167.5° | 438.3 | 436.5 | 435.6 | 435.6 | 434.7 | 432.9 | 430.2 | 431.1 |
| 170° | 450.9 | 449.1 | 448.2 | 447.3 | 447.3 | 445.5 | 443.7 | 443.7 |
| 172.5° | 462.6 | 460.8 | 459.9 | 459.9 | 460.8 | 459.0 | 456.3 | 456.3 |
| 175° | 472.5 | 471.6 | 469.8 | 469.8 | 469.8 | 468.0 | 466.2 | 466.2 |
| 177.5° | 481.5 | 480.6 | 480.6 | 479.7 | 480.6 | 477.9 | 475.2 | 475.2 |
| 180° | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 | 489.6 |

(END OF REPORT)