

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: FAIL-SAFE

Report Number: P188175

Luminaire Tested: **FMB-N-2-LD4-1STD/1STD-40-UNV-80/86**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27161)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FMB-N-2-LD4-1STD/1STD-40-UNV-80/86
Description:
Light Source: (84) NICHIA ELM 4000K LED
2UT217042A8404A
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2414.0 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.14 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.67')
CIE Type: General Diffuse

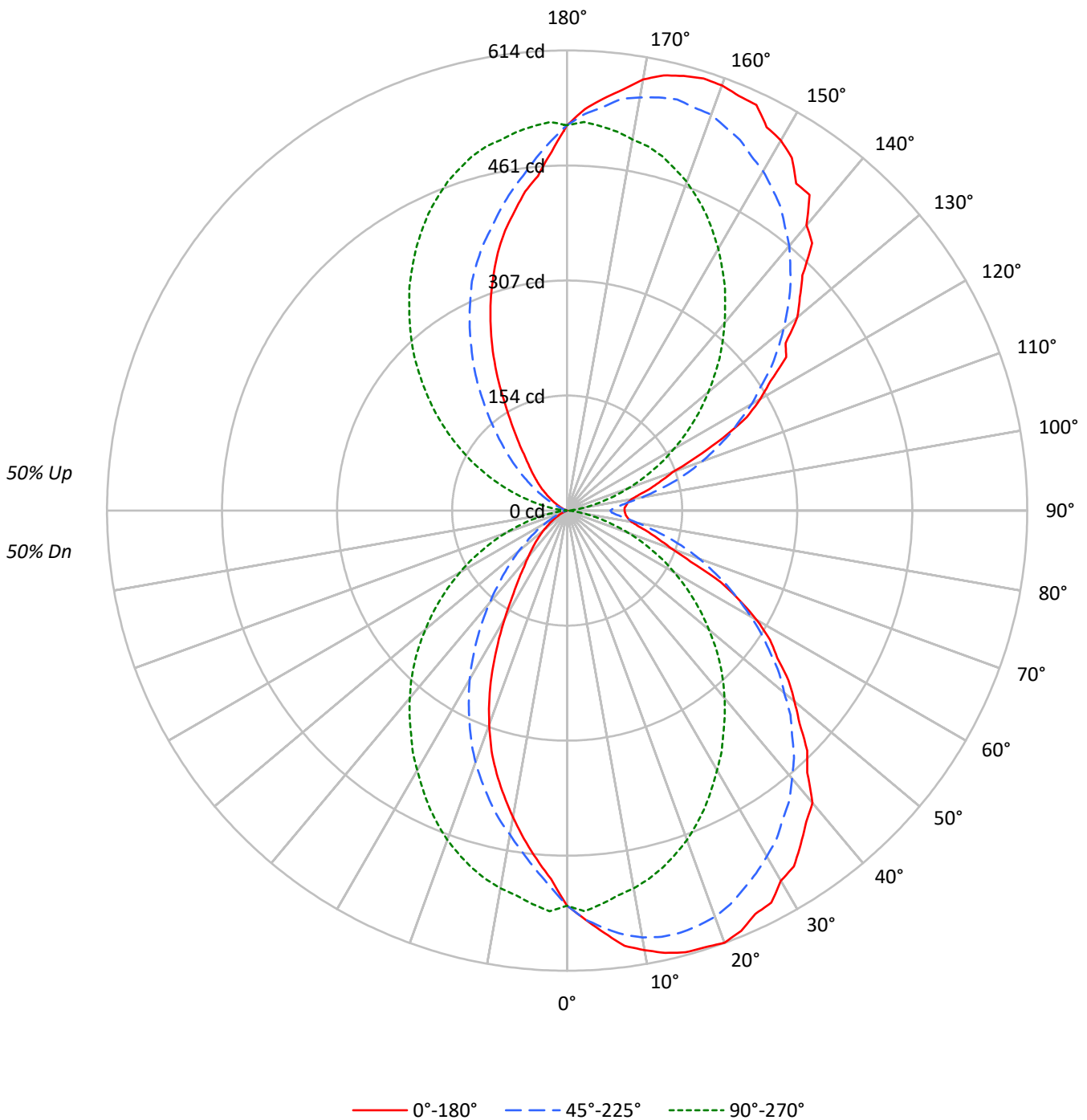
Input Watts (W): 34.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P188175

CATALOG NUMBER: FMB-N-2-LD4-1STD/1STD-40-UNV-80/86

Luminous Intensity Polar Plot





TEST NUMBER: P188175

CATALOG NUMBER: FMB-N-2-LD4-1STD/1STD-40-UNV-80/86

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 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1 | 98 | 94 | 90 | 86 | 90 | 86 | 83 | 80 | 73 | 71 | 69 | 61 | 59 | 58 | 50 | 49 | 48 | 42 |
| 2 | 89 | 82 | 76 | 71 | 82 | 76 | 71 | 66 | 64 | 61 | 57 | 54 | 51 | 49 | 44 | 42 | 40 | 36 |
| 3 | 82 | 72 | 65 | 59 | 75 | 67 | 61 | 56 | 57 | 52 | 48 | 48 | 44 | 41 | 39 | 37 | 35 | 31 |
| 4 | 75 | 64 | 56 | 50 | 69 | 60 | 53 | 47 | 51 | 46 | 41 | 43 | 39 | 36 | 35 | 32 | 30 | 26 |
| 5 | 69 | 57 | 49 | 43 | 63 | 53 | 46 | 41 | 46 | 40 | 36 | 39 | 34 | 31 | 32 | 29 | 26 | 23 |
| 6 | 63 | 51 | 43 | 38 | 58 | 48 | 41 | 36 | 41 | 36 | 31 | 35 | 31 | 27 | 29 | 26 | 23 | 20 |
| 7 | 59 | 47 | 39 | 33 | 54 | 43 | 36 | 31 | 37 | 32 | 28 | 32 | 28 | 24 | 27 | 23 | 21 | 18 |
| 8 | 55 | 42 | 35 | 29 | 50 | 40 | 33 | 28 | 34 | 29 | 25 | 29 | 25 | 22 | 24 | 21 | 19 | 16 |
| 9 | 51 | 39 | 31 | 26 | 47 | 36 | 29 | 25 | 31 | 26 | 22 | 27 | 23 | 20 | 23 | 19 | 17 | 15 |
| 10 | 47 | 36 | 28 | 24 | 44 | 33 | 27 | 22 | 29 | 24 | 20 | 25 | 21 | 18 | 21 | 18 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|------|------|------|
| 0° | 2837 | 2837 | 2837 |
| 5° | 2968 | 2691 | 2450 |
| 10° | 3074 | 2502 | 2145 |
| 15° | 3121 | 2330 | 1858 |
| 20° | 3134 | 2155 | 1552 |
| 25° | 3052 | 1975 | 1214 |
| 30° | 2972 | 1795 | 866 |
| 35° | 2895 | 1627 | 603 |
| 40° | 2796 | 1472 | 443 |
| 45° | 2586 | 1317 | 335 |
| 50° | 2372 | 1152 | 244 |
| 55° | 2175 | 991 | 166 |
| 60° | 1996 | 826 | 94 |
| 65° | 1682 | 653 | 48 |
| 70° | 1218 | 480 | 0 |
| 75° | 1049 | 306 | 0 |
| 80° | 935 | 148 | 9 |
| 85° | 1014 | 41 | 0 |



TEST NUMBER: P188175

CATALOG NUMBER: FMB-N-2-LD4-1STD/1STD-40-UNV-80/86

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 49.4 | 2.0 |
| 10°-20° | 138.1 | 5.7 |
| 20°-30° | 197.7 | 8.2 |
| 30°-40° | 219.8 | 9.1 |
| 40°-50° | 210.5 | 8.7 |
| 50°-60° | 175.2 | 7.3 |
| 60°-70° | 121.7 | 5.0 |
| 70°-80° | 64.7 | 2.7 |
| 80°-90° | 32.3 | 1.3 |
| 90°-100° | 32.7 | 1.4 |
| 100°-110° | 65.9 | 2.7 |
| 110°-120° | 123.3 | 5.1 |
| 120°-130° | 175.3 | 7.3 |
| 130°-140° | 209.5 | 8.7 |
| 140°-150° | 218.5 | 9.1 |
| 150°-160° | 195.7 | 8.1 |
| 160°-170° | 135.6 | 5.6 |
| 170°-180° | 48.2 | 2.0 |
| 0°-30° | 385.2 | 16.0 |
| 0°-40° | 605.0 | 25.1 |
| 0°-60° | 990.6 | 41.0 |
| 0°-90° | 1209.3 | 50.1 |
| 90°-120° | 221.9 | 9.2 |
| 90°-150° | 825.2 | 34.2 |
| 90°-180° | 1205.0 | 49.9 |
| 0°-180° | 2414.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0° | 527 | 527 | 527 | 527 | 527 | |
| 5° | 565 | 559 | 527 | 481 | 467 | 55 |
| 15° | 610 | 583 | 493 | 400 | 363 | 172 |
| 25° | 594 | 557 | 436 | 309 | 236 | 275 |
| 35° | 543 | 502 | 363 | 209 | 113 | 340 |
| 45° | 453 | 424 | 288 | 119 | 59 | 347 |
| 55° | 342 | 331 | 206 | 55 | 26 | 309 |
| 65° | 226 | 235 | 125 | 16 | 6 | 219 |
| 75° | 113 | 139 | 51 | 1 | 0 | 121 |
| 85° | 79 | 67 | 6 | 1 | 0 | 66 |
| 90° | 77 | 58 | 1 | 1 | 0 | 42 |
| 95° | 79 | 69 | 6 | 1 | 0 | 66 |
| 105° | 116 | 146 | 51 | 1 | 0 | 122 |
| 115° | 229 | 238 | 125 | 17 | 7 | 225 |
| 125° | 357 | 332 | 205 | 57 | 26 | 312 |
| 135° | 444 | 421 | 288 | 120 | 59 | 347 |
| 145° | 533 | 496 | 367 | 209 | 115 | 338 |
| 155° | 597 | 546 | 438 | 306 | 235 | 273 |
| 165° | 600 | 568 | 490 | 390 | 357 | 170 |
| 175° | 552 | 540 | 515 | 472 | 448 | 54 |
| 180° | 514 | 514 | 514 | 514 | 514 | |



TEST NUMBER: P188175

CATALOG NUMBER: FMB-N-2-LD4-1STD/1STD-40-UNV-80/86

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 |
| 2.5° | 545.8 | 545.8 | 545.8 | 547.5 | 548.3 | 548.3 | 548.3 | 549.1 | 547.5 | 547.5 | 545.8 |
| 5° | 565.4 | 566.2 | 565.4 | 566.2 | 566.2 | 564.6 | 564.6 | 564.6 | 562.1 | 560.5 | 558.9 |
| 7.5° | 585.8 | 584.9 | 584.1 | 584.1 | 583.3 | 583.3 | 581.7 | 580.9 | 577.6 | 574.4 | 570.3 |
| 10° | 595.5 | 596.3 | 595.5 | 594.7 | 593.9 | 593.1 | 592.3 | 589.8 | 586.6 | 583.3 | 578.4 |
| 12.5° | 604.5 | 603.7 | 603.7 | 602.9 | 600.4 | 600.4 | 599.6 | 596.3 | 592.3 | 588.2 | 582.5 |
| 15° | 610.2 | 611.0 | 610.2 | 607.8 | 605.3 | 604.5 | 603.7 | 601.2 | 594.7 | 589.8 | 583.3 |
| 17.5° | 611.0 | 610.2 | 611.0 | 610.2 | 608.6 | 606.9 | 606.1 | 602.1 | 595.5 | 588.2 | 580.9 |
| 20° | 613.5 | 613.5 | 612.6 | 611.0 | 606.9 | 604.5 | 601.2 | 597.2 | 592.3 | 584.9 | 576.8 |
| 22.5° | 606.9 | 606.9 | 603.7 | 601.2 | 600.4 | 598.8 | 598.0 | 592.3 | 584.9 | 575.2 | 568.7 |
| 25° | 593.9 | 595.5 | 595.5 | 596.3 | 593.9 | 590.6 | 588.2 | 581.7 | 576.0 | 567.0 | 557.2 |
| 27.5° | 589.8 | 589.0 | 588.2 | 583.3 | 578.4 | 577.6 | 577.6 | 574.4 | 566.2 | 554.0 | 545.8 |
| 30° | 570.3 | 570.3 | 569.5 | 570.3 | 571.9 | 570.3 | 568.7 | 558.1 | 552.4 | 543.4 | 532.8 |
| 32.5° | 562.9 | 560.5 | 561.3 | 560.5 | 554.8 | 551.5 | 549.9 | 546.7 | 540.1 | 527.9 | 519.8 |
| 35° | 543.4 | 543.4 | 541.0 | 537.7 | 539.3 | 541.0 | 538.5 | 531.2 | 522.2 | 512.4 | 501.8 |
| 37.5° | 523.8 | 526.3 | 524.7 | 527.9 | 524.7 | 522.2 | 516.5 | 513.3 | 507.5 | 496.1 | 487.2 |
| 40° | 509.2 | 507.5 | 505.9 | 501.8 | 501.0 | 501.0 | 500.2 | 496.1 | 487.2 | 476.6 | 466.8 |
| 42.5° | 474.1 | 475.8 | 477.4 | 479.0 | 482.3 | 479.8 | 476.6 | 471.7 | 467.6 | 457.9 | 448.1 |
| 45° | 453.0 | 455.4 | 453.0 | 452.2 | 448.1 | 448.1 | 449.7 | 450.5 | 444.0 | 434.2 | 424.5 |
| 47.5° | 420.4 | 419.6 | 418.7 | 422.8 | 424.5 | 425.3 | 422.8 | 420.4 | 417.9 | 412.2 | 404.1 |
| 50° | 395.9 | 395.1 | 397.6 | 398.4 | 395.1 | 393.5 | 392.7 | 395.9 | 392.7 | 386.2 | 378.0 |
| 52.5° | 372.3 | 371.5 | 367.4 | 369.1 | 368.2 | 369.9 | 370.7 | 367.4 | 365.8 | 362.5 | 356.8 |
| 55° | 342.2 | 343.8 | 344.6 | 347.9 | 346.2 | 343.0 | 342.2 | 343.0 | 342.2 | 336.5 | 330.8 |
| 57.5° | 321.0 | 321.8 | 321.8 | 319.4 | 318.5 | 317.7 | 319.4 | 317.7 | 316.1 | 312.8 | 308.0 |
| 60° | 292.5 | 291.7 | 290.8 | 294.1 | 294.9 | 295.7 | 294.9 | 293.3 | 290.0 | 287.6 | 283.5 |
| 62.5° | 259.1 | 258.3 | 262.3 | 264.8 | 266.4 | 266.4 | 268.0 | 268.8 | 265.6 | 262.3 | 258.3 |
| 65° | 226.5 | 224.9 | 228.1 | 232.2 | 236.3 | 237.9 | 242.0 | 242.8 | 241.1 | 238.7 | 234.6 |
| 67.5° | 178.4 | 177.6 | 184.1 | 192.3 | 202.9 | 203.7 | 210.2 | 215.9 | 216.7 | 215.1 | 210.2 |
| 70° | 148.3 | 146.6 | 149.1 | 154.0 | 161.3 | 165.4 | 174.3 | 183.3 | 189.0 | 190.6 | 187.4 |
| 72.5° | 128.7 | 127.9 | 129.5 | 131.2 | 133.6 | 135.2 | 140.1 | 150.7 | 159.7 | 164.6 | 163.8 |
| 75° | 113.2 | 113.2 | 114.9 | 116.5 | 118.9 | 118.9 | 121.4 | 124.6 | 130.3 | 136.9 | 139.3 |
| 77.5° | 97.8 | 96.9 | 99.4 | 101.0 | 103.5 | 103.5 | 105.9 | 108.4 | 110.0 | 114.1 | 116.5 |
| 80° | 87.2 | 87.2 | 88.0 | 88.0 | 89.6 | 91.2 | 92.1 | 92.9 | 93.7 | 93.7 | 96.1 |
| 82.5° | 82.3 | 81.5 | 81.5 | 80.7 | 79.8 | 80.7 | 80.7 | 81.5 | 80.7 | 79.8 | 79.0 |
| 85° | 79.0 | 78.2 | 77.4 | 76.6 | 75.0 | 74.1 | 73.3 | 71.7 | 71.7 | 69.2 | 66.8 |
| 87.5° | 77.4 | 76.6 | 75.8 | 74.1 | 71.7 | 70.9 | 69.2 | 66.8 | 64.4 | 62.7 | 59.5 |
| 90° | 76.6 | 75.8 | 75.0 | 73.3 | 71.7 | 70.1 | 68.4 | 66.0 | 62.7 | 59.5 | 57.8 |
| 92.5° | 76.6 | 76.6 | 75.8 | 74.1 | 72.5 | 70.9 | 70.1 | 67.6 | 65.2 | 63.5 | 61.1 |
| 95° | 79.0 | 78.2 | 77.4 | 76.6 | 75.0 | 74.1 | 74.1 | 72.5 | 72.5 | 71.7 | 69.2 |
| 97.5° | 81.5 | 81.5 | 80.7 | 80.7 | 80.7 | 80.7 | 81.5 | 82.3 | 83.1 | 82.3 | 81.5 |
| 100° | 87.2 | 86.4 | 87.2 | 88.8 | 91.2 | 91.2 | 92.9 | 94.5 | 95.3 | 96.9 | 101.0 |
| 102.5° | 98.6 | 98.6 | 99.4 | 101.8 | 103.5 | 104.3 | 106.7 | 109.2 | 112.4 | 118.1 | 122.2 |
| 105° | 115.7 | 115.7 | 115.7 | 118.1 | 120.6 | 120.6 | 123.0 | 126.3 | 133.6 | 142.6 | 145.8 |
| 107.5° | 131.2 | 130.3 | 131.2 | 132.8 | 135.2 | 137.7 | 141.8 | 155.6 | 165.4 | 169.5 | 169.5 |
| 110° | 149.9 | 149.9 | 150.7 | 157.2 | 167.8 | 172.7 | 179.2 | 189.8 | 194.7 | 194.7 | 191.5 |



TEST NUMBER: P188175

CATALOG NUMBER: FMB-N-2-LD4-1STD/1STD-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 186.6 | 186.6 | 192.3 | 201.2 | 206.9 | 211.0 | 215.1 | 220.0 | 220.8 | 217.5 | 213.4 |
| 115° | 228.9 | 228.1 | 230.6 | 238.7 | 244.4 | 245.2 | 246.0 | 248.5 | 244.4 | 242.0 | 237.9 |
| 117.5° | 270.5 | 269.7 | 268.8 | 268.0 | 270.5 | 274.5 | 276.2 | 271.3 | 269.7 | 265.6 | 259.1 |
| 120° | 297.4 | 295.7 | 299.0 | 302.2 | 297.4 | 296.5 | 299.0 | 297.4 | 290.8 | 286.8 | 284.3 |
| 122.5° | 321.8 | 320.2 | 319.4 | 323.4 | 326.7 | 323.4 | 319.4 | 319.4 | 315.3 | 312.8 | 305.5 |
| 125° | 356.8 | 356.0 | 352.8 | 344.6 | 341.4 | 345.4 | 349.5 | 340.5 | 342.2 | 333.2 | 331.6 |
| 127.5° | 367.4 | 367.4 | 369.9 | 377.2 | 372.3 | 367.4 | 364.2 | 372.3 | 360.9 | 362.5 | 354.4 |
| 130° | 400.8 | 398.4 | 393.5 | 388.6 | 395.9 | 399.2 | 400.0 | 387.8 | 393.5 | 382.1 | 377.2 |
| 132.5° | 421.2 | 424.5 | 429.3 | 428.5 | 418.7 | 413.9 | 417.9 | 426.1 | 411.4 | 411.4 | 399.2 |
| 135° | 444.0 | 443.2 | 441.6 | 444.8 | 455.4 | 456.2 | 452.2 | 443.2 | 444.8 | 429.3 | 421.2 |
| 137.5° | 483.9 | 487.2 | 486.4 | 480.7 | 470.9 | 468.4 | 475.0 | 473.3 | 457.9 | 454.6 | 440.7 |
| 140° | 497.0 | 495.3 | 497.0 | 504.3 | 505.9 | 502.7 | 494.5 | 487.2 | 483.9 | 470.1 | 461.1 |
| 142.5° | 531.2 | 530.4 | 526.3 | 517.3 | 510.8 | 513.3 | 517.3 | 510.8 | 495.3 | 491.3 | 477.4 |
| 145° | 532.8 | 536.1 | 538.5 | 545.0 | 540.1 | 533.6 | 527.9 | 521.4 | 518.1 | 503.5 | 496.1 |
| 147.5° | 558.1 | 557.2 | 552.4 | 547.5 | 545.8 | 548.3 | 551.5 | 538.5 | 527.1 | 522.2 | 509.2 |
| 150° | 570.3 | 571.9 | 573.5 | 572.7 | 563.8 | 558.1 | 553.2 | 549.9 | 543.4 | 531.2 | 523.0 |
| 152.5° | 576.8 | 576.8 | 574.4 | 574.4 | 573.5 | 572.7 | 571.1 | 559.7 | 551.5 | 545.0 | 532.8 |
| 155° | 597.2 | 597.2 | 594.7 | 589.8 | 581.7 | 577.6 | 576.8 | 573.5 | 563.8 | 553.2 | 545.8 |
| 157.5° | 598.8 | 598.0 | 597.2 | 598.8 | 595.5 | 590.6 | 585.8 | 576.8 | 571.1 | 562.9 | 553.2 |
| 160° | 603.7 | 602.9 | 601.2 | 596.3 | 593.1 | 590.6 | 589.8 | 583.3 | 575.2 | 567.8 | 562.1 |
| 162.5° | 604.5 | 604.5 | 602.9 | 599.6 | 594.7 | 590.6 | 587.4 | 583.3 | 579.2 | 572.7 | 563.8 |
| 165° | 600.4 | 599.6 | 599.6 | 598.0 | 595.5 | 593.9 | 591.5 | 584.1 | 576.8 | 571.9 | 567.8 |
| 167.5° | 594.7 | 593.9 | 592.3 | 589.0 | 586.6 | 584.9 | 584.1 | 580.9 | 576.0 | 569.5 | 564.6 |
| 170° | 584.1 | 583.3 | 583.3 | 580.1 | 576.8 | 575.2 | 574.4 | 569.5 | 567.0 | 562.9 | 559.7 |
| 172.5° | 566.2 | 565.4 | 565.4 | 564.6 | 563.8 | 562.9 | 562.9 | 560.5 | 558.9 | 556.4 | 554.0 |
| 175° | 551.5 | 550.7 | 550.7 | 549.1 | 548.3 | 546.7 | 546.7 | 544.2 | 542.6 | 541.8 | 540.1 |
| 177.5° | 536.1 | 534.4 | 535.2 | 534.4 | 532.8 | 532.8 | 532.8 | 531.2 | 531.2 | 530.4 | 529.5 |
| 180° | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 |



TEST NUMBER: P188175

CATALOG NUMBER: FMB-N-2-LD4-1STD/1STD-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 |
| 2.5° | 544.2 | 542.6 | 542.6 | 542.6 | 541.8 | 541.0 | 541.0 | 541.8 | 540.1 | 535.2 | 529.5 |
| 5° | 555.6 | 554.8 | 552.4 | 550.7 | 549.1 | 548.3 | 546.7 | 544.2 | 536.9 | 527.1 | 519.8 |
| 7.5° | 566.2 | 563.8 | 559.7 | 554.8 | 552.4 | 549.1 | 544.2 | 538.5 | 530.4 | 518.1 | 512.4 |
| 10° | 573.5 | 567.8 | 562.1 | 554.0 | 549.9 | 546.7 | 539.3 | 532.8 | 522.2 | 511.6 | 503.5 |
| 12.5° | 577.6 | 571.1 | 562.9 | 554.0 | 549.1 | 545.0 | 536.1 | 527.9 | 515.7 | 503.5 | 492.9 |
| 15° | 576.0 | 569.5 | 560.5 | 550.7 | 545.0 | 540.1 | 528.7 | 519.8 | 507.5 | 492.9 | 481.5 |
| 17.5° | 573.5 | 564.6 | 554.8 | 545.8 | 539.3 | 533.6 | 522.2 | 510.8 | 497.0 | 480.7 | 467.6 |
| 20° | 567.0 | 558.1 | 548.3 | 536.1 | 529.5 | 523.8 | 511.6 | 501.0 | 485.6 | 467.6 | 453.0 |
| 22.5° | 558.9 | 548.3 | 538.5 | 524.7 | 518.1 | 513.3 | 500.2 | 487.2 | 470.1 | 452.2 | 437.5 |
| 25° | 546.7 | 536.1 | 524.7 | 511.6 | 505.1 | 498.6 | 485.6 | 470.1 | 454.6 | 435.9 | 420.4 |
| 27.5° | 533.6 | 523.0 | 510.8 | 497.0 | 490.4 | 483.1 | 469.3 | 453.8 | 436.7 | 417.9 | 401.6 |
| 30° | 521.4 | 509.2 | 496.1 | 481.5 | 475.0 | 466.8 | 452.2 | 436.7 | 418.7 | 400.0 | 384.5 |
| 32.5° | 505.9 | 492.9 | 479.8 | 465.2 | 457.0 | 448.9 | 434.2 | 417.9 | 400.8 | 382.9 | 365.8 |
| 35° | 491.3 | 478.2 | 463.6 | 447.3 | 439.1 | 431.0 | 416.3 | 399.2 | 382.1 | 363.3 | 347.9 |
| 37.5° | 472.5 | 458.7 | 444.8 | 427.7 | 418.7 | 412.2 | 397.6 | 380.5 | 364.2 | 345.4 | 329.9 |
| 40° | 454.6 | 440.7 | 425.3 | 409.0 | 401.6 | 393.5 | 378.0 | 360.9 | 345.4 | 326.7 | 309.6 |
| 42.5° | 435.0 | 420.4 | 406.5 | 391.0 | 382.9 | 375.6 | 360.1 | 343.0 | 325.9 | 308.0 | 290.8 |
| 45° | 413.0 | 400.8 | 386.2 | 372.3 | 364.2 | 355.2 | 340.5 | 322.6 | 307.1 | 288.4 | 269.7 |
| 47.5° | 391.9 | 379.6 | 366.6 | 352.8 | 343.8 | 335.7 | 321.0 | 303.1 | 286.8 | 268.0 | 249.3 |
| 50° | 369.1 | 359.3 | 346.2 | 329.9 | 324.2 | 315.3 | 300.6 | 283.5 | 266.4 | 246.8 | 228.9 |
| 52.5° | 346.2 | 335.7 | 323.4 | 309.6 | 303.1 | 294.9 | 280.3 | 263.1 | 246.0 | 226.5 | 207.7 |
| 55° | 324.2 | 314.5 | 302.2 | 288.4 | 281.9 | 273.7 | 259.1 | 242.8 | 225.7 | 206.1 | 186.6 |
| 57.5° | 299.8 | 290.0 | 278.6 | 267.2 | 259.1 | 251.7 | 237.9 | 221.6 | 204.5 | 185.7 | 168.6 |
| 60° | 276.2 | 267.2 | 255.8 | 244.4 | 237.9 | 229.7 | 216.7 | 200.4 | 184.1 | 165.4 | 146.6 |
| 62.5° | 252.6 | 243.6 | 233.8 | 221.6 | 214.3 | 208.6 | 194.7 | 179.2 | 162.9 | 145.8 | 127.9 |
| 65° | 228.9 | 219.2 | 210.2 | 198.8 | 192.3 | 185.7 | 172.7 | 158.0 | 141.8 | 124.6 | 107.5 |
| 67.5° | 204.5 | 195.5 | 185.7 | 175.2 | 169.5 | 163.8 | 150.7 | 136.9 | 121.4 | 105.9 | 88.8 |
| 70° | 180.9 | 171.9 | 162.1 | 152.3 | 146.6 | 140.9 | 129.5 | 115.7 | 101.0 | 86.4 | 70.9 |
| 72.5° | 158.0 | 149.1 | 139.3 | 130.3 | 124.6 | 118.9 | 108.4 | 95.3 | 82.3 | 67.6 | 53.8 |
| 75° | 136.9 | 127.9 | 117.3 | 108.4 | 102.7 | 97.8 | 88.0 | 75.8 | 63.5 | 51.3 | 38.3 |
| 77.5° | 114.1 | 107.5 | 97.8 | 88.0 | 82.3 | 77.4 | 67.6 | 57.8 | 46.4 | 35.8 | 25.3 |
| 80° | 95.3 | 88.8 | 79.0 | 69.2 | 63.5 | 59.5 | 50.5 | 41.5 | 31.8 | 22.8 | 14.7 |
| 82.5° | 77.4 | 71.7 | 63.5 | 53.0 | 48.1 | 44.0 | 35.8 | 27.7 | 19.6 | 13.0 | 7.3 |
| 85° | 62.7 | 57.8 | 49.7 | 40.7 | 35.8 | 31.0 | 22.8 | 16.3 | 10.6 | 5.7 | 3.3 |
| 87.5° | 54.6 | 48.9 | 40.7 | 31.8 | 26.9 | 22.8 | 14.7 | 9.0 | 4.1 | 2.4 | 0.8 |
| 90° | 53.0 | 46.4 | 38.3 | 28.5 | 24.4 | 19.6 | 12.2 | 6.5 | 2.4 | 0.8 | 0.8 |
| 92.5° | 56.2 | 49.7 | 41.5 | 32.6 | 27.7 | 23.6 | 15.5 | 9.0 | 4.9 | 2.4 | 0.8 |
| 95° | 65.2 | 59.5 | 51.3 | 41.5 | 36.7 | 32.6 | 23.6 | 17.1 | 10.6 | 5.7 | 3.3 |
| 97.5° | 79.8 | 75.0 | 64.4 | 53.0 | 48.1 | 44.0 | 35.8 | 28.5 | 20.4 | 13.0 | 8.1 |
| 100° | 99.4 | 91.2 | 79.8 | 69.2 | 64.4 | 59.5 | 52.1 | 42.4 | 32.6 | 23.6 | 15.5 |
| 102.5° | 118.1 | 109.2 | 98.6 | 88.0 | 83.1 | 78.2 | 69.2 | 58.7 | 47.3 | 36.7 | 26.1 |
| 105° | 140.1 | 129.5 | 118.9 | 107.5 | 103.5 | 98.6 | 88.8 | 77.4 | 65.2 | 51.3 | 39.1 |
| 107.5° | 162.1 | 150.7 | 139.3 | 128.7 | 124.6 | 118.9 | 109.2 | 96.9 | 83.1 | 68.4 | 53.8 |
| 110° | 183.3 | 172.7 | 161.3 | 151.5 | 146.6 | 140.9 | 131.2 | 118.1 | 102.7 | 86.4 | 70.1 |



TEST NUMBER: P188175

CATALOG NUMBER: FMB-N-2-LD4-1STD/1STD-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 205.3 | 194.7 | 184.1 | 173.5 | 168.6 | 162.1 | 152.3 | 138.5 | 123.0 | 105.1 | 88.0 |
| 115° | 228.9 | 218.3 | 207.7 | 195.5 | 190.6 | 185.7 | 173.5 | 159.7 | 142.6 | 124.6 | 106.7 |
| 117.5° | 250.9 | 241.1 | 230.6 | 218.3 | 213.4 | 207.7 | 195.5 | 180.0 | 162.9 | 145.0 | 126.3 |
| 120° | 277.0 | 265.6 | 253.4 | 240.3 | 235.4 | 229.7 | 216.7 | 201.2 | 183.3 | 164.6 | 146.6 |
| 122.5° | 299.0 | 287.6 | 274.5 | 263.1 | 256.6 | 250.9 | 237.1 | 221.6 | 204.5 | 184.9 | 167.0 |
| 125° | 323.4 | 310.4 | 296.5 | 284.3 | 278.6 | 272.9 | 258.3 | 242.0 | 224.0 | 205.3 | 186.6 |
| 127.5° | 343.8 | 330.8 | 318.5 | 305.5 | 299.0 | 292.5 | 277.8 | 261.5 | 245.2 | 225.7 | 206.9 |
| 130° | 366.6 | 354.4 | 339.7 | 325.9 | 319.4 | 313.7 | 298.2 | 281.9 | 264.8 | 246.0 | 228.9 |
| 132.5° | 386.2 | 373.9 | 360.9 | 346.2 | 340.5 | 333.2 | 316.9 | 302.2 | 285.1 | 266.4 | 249.3 |
| 135° | 409.0 | 394.3 | 379.6 | 366.6 | 359.3 | 353.6 | 338.1 | 321.0 | 305.5 | 287.6 | 271.3 |
| 137.5° | 426.9 | 413.9 | 399.2 | 384.5 | 378.0 | 371.5 | 356.8 | 341.4 | 324.2 | 307.1 | 289.2 |
| 140° | 447.3 | 432.6 | 417.9 | 403.3 | 397.6 | 391.0 | 376.4 | 360.9 | 344.6 | 326.7 | 309.6 |
| 142.5° | 465.2 | 451.3 | 437.5 | 422.8 | 416.3 | 409.0 | 395.1 | 380.5 | 364.2 | 346.2 | 329.1 |
| 145° | 482.3 | 468.4 | 455.4 | 442.4 | 435.9 | 430.2 | 414.7 | 400.0 | 382.9 | 366.6 | 347.9 |
| 147.5° | 497.8 | 484.7 | 474.1 | 459.5 | 453.0 | 448.1 | 433.4 | 417.9 | 403.3 | 384.5 | 366.6 |
| 150° | 510.0 | 501.0 | 488.8 | 478.2 | 471.7 | 466.0 | 453.8 | 436.7 | 421.2 | 403.3 | 384.5 |
| 152.5° | 523.8 | 513.3 | 502.7 | 492.1 | 487.2 | 482.3 | 470.1 | 455.4 | 437.5 | 420.4 | 402.5 |
| 155° | 534.4 | 525.5 | 515.7 | 506.7 | 502.7 | 497.0 | 484.7 | 472.5 | 454.6 | 437.5 | 418.7 |
| 157.5° | 545.8 | 536.1 | 527.1 | 518.1 | 514.1 | 508.4 | 498.6 | 485.6 | 469.3 | 452.2 | 433.4 |
| 160° | 553.2 | 545.0 | 536.9 | 527.9 | 523.0 | 519.0 | 511.6 | 498.6 | 483.1 | 466.8 | 448.9 |
| 162.5° | 558.1 | 551.5 | 543.4 | 535.2 | 532.0 | 528.7 | 520.6 | 508.4 | 495.3 | 478.2 | 461.1 |
| 165° | 561.3 | 554.0 | 546.7 | 541.0 | 538.5 | 535.2 | 525.5 | 515.7 | 505.1 | 489.6 | 473.3 |
| 167.5° | 558.9 | 554.8 | 550.7 | 545.0 | 541.0 | 536.9 | 530.4 | 522.2 | 510.8 | 497.8 | 484.7 |
| 170° | 558.1 | 555.6 | 551.5 | 546.7 | 543.4 | 541.0 | 534.4 | 525.5 | 514.9 | 502.7 | 492.1 |
| 172.5° | 551.5 | 547.5 | 545.8 | 543.4 | 542.6 | 541.0 | 536.9 | 531.2 | 523.8 | 510.0 | 499.4 |
| 175° | 538.5 | 539.3 | 540.1 | 541.0 | 540.1 | 540.1 | 539.3 | 537.7 | 527.1 | 514.9 | 506.7 |
| 177.5° | 529.5 | 528.7 | 528.7 | 529.5 | 532.8 | 534.4 | 533.6 | 532.8 | 528.7 | 519.0 | 513.3 |
| 180° | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 |



TEST NUMBER: P188175

CATALOG NUMBER: FMB-N-2-LD4-1STD/1STD-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 |
| 2.5° | 524.7 | 521.4 | 517.3 | 515.7 | 514.1 | 511.6 | 508.4 | 505.9 | 502.7 | 499.4 | 497.0 |
| 5° | 515.7 | 510.8 | 504.3 | 501.0 | 499.4 | 494.5 | 488.8 | 484.7 | 480.7 | 476.6 | 473.3 |
| 7.5° | 505.9 | 498.6 | 490.4 | 486.4 | 483.1 | 476.6 | 470.1 | 464.4 | 459.5 | 454.6 | 450.5 |
| 10° | 494.5 | 485.6 | 475.0 | 470.9 | 466.8 | 459.5 | 452.2 | 445.6 | 439.1 | 433.4 | 429.3 |
| 12.5° | 481.5 | 470.9 | 461.9 | 456.2 | 452.2 | 442.4 | 434.2 | 427.7 | 421.2 | 413.9 | 407.3 |
| 15° | 469.3 | 457.9 | 445.6 | 439.9 | 435.0 | 425.3 | 415.5 | 406.5 | 400.0 | 391.0 | 384.5 |
| 17.5° | 454.6 | 441.6 | 429.3 | 422.8 | 417.9 | 408.2 | 397.6 | 387.8 | 378.8 | 371.5 | 361.7 |
| 20° | 439.9 | 426.1 | 413.0 | 404.9 | 400.8 | 389.4 | 378.0 | 367.4 | 357.6 | 347.9 | 336.5 |
| 22.5° | 422.8 | 409.0 | 394.3 | 387.8 | 382.1 | 369.9 | 356.0 | 345.4 | 334.0 | 321.8 | 308.8 |
| 25° | 404.9 | 391.0 | 377.2 | 369.1 | 363.3 | 350.3 | 337.3 | 322.6 | 308.8 | 295.7 | 281.9 |
| 27.5° | 387.0 | 373.1 | 359.3 | 349.5 | 343.0 | 329.9 | 315.3 | 299.0 | 284.3 | 269.7 | 254.2 |
| 30° | 369.1 | 353.6 | 338.9 | 330.8 | 323.4 | 309.6 | 293.3 | 275.4 | 259.9 | 242.8 | 225.7 |
| 32.5° | 351.1 | 334.8 | 320.2 | 311.2 | 303.9 | 287.6 | 269.7 | 250.9 | 234.6 | 215.9 | 200.4 |
| 35° | 331.6 | 316.9 | 300.6 | 291.7 | 284.3 | 266.4 | 247.7 | 228.1 | 209.4 | 189.8 | 171.9 |
| 37.5° | 313.7 | 298.2 | 281.1 | 272.1 | 263.1 | 245.2 | 225.7 | 205.3 | 184.9 | 164.6 | 146.6 |
| 40° | 293.3 | 278.6 | 261.5 | 251.7 | 243.6 | 223.2 | 203.7 | 182.5 | 161.3 | 140.9 | 123.8 |
| 42.5° | 273.7 | 258.3 | 242.0 | 232.2 | 222.4 | 202.9 | 182.5 | 160.5 | 138.5 | 120.6 | 105.9 |
| 45° | 253.4 | 237.9 | 221.6 | 211.0 | 202.0 | 182.5 | 162.1 | 139.3 | 118.9 | 102.7 | 88.8 |
| 47.5° | 233.0 | 216.7 | 201.2 | 189.8 | 180.9 | 161.3 | 141.8 | 119.8 | 101.0 | 86.4 | 74.1 |
| 50° | 211.8 | 196.3 | 180.0 | 168.6 | 161.3 | 141.8 | 121.4 | 101.8 | 84.7 | 70.1 | 61.9 |
| 52.5° | 190.6 | 175.2 | 158.9 | 148.3 | 140.9 | 122.2 | 103.5 | 84.7 | 69.2 | 57.0 | 49.7 |
| 55° | 170.3 | 154.8 | 138.5 | 127.9 | 120.6 | 104.3 | 85.5 | 69.2 | 55.4 | 46.4 | 39.9 |
| 57.5° | 149.9 | 132.8 | 118.1 | 108.4 | 101.8 | 86.4 | 69.2 | 54.6 | 44.0 | 35.8 | 31.0 |
| 60° | 129.5 | 113.2 | 98.6 | 89.6 | 83.9 | 69.2 | 53.8 | 42.4 | 32.6 | 26.1 | 22.8 |
| 62.5° | 109.2 | 93.7 | 79.8 | 71.7 | 65.2 | 53.8 | 40.7 | 31.0 | 23.6 | 18.7 | 16.3 |
| 65° | 90.4 | 75.0 | 61.9 | 55.4 | 50.5 | 39.1 | 28.5 | 21.2 | 15.5 | 13.0 | 11.4 |
| 67.5° | 72.5 | 58.7 | 46.4 | 39.9 | 36.7 | 26.9 | 19.6 | 13.8 | 10.6 | 9.0 | 7.3 |
| 70° | 55.4 | 43.2 | 32.6 | 27.7 | 24.4 | 17.1 | 12.2 | 9.0 | 7.3 | 5.7 | 4.9 |
| 72.5° | 40.7 | 30.1 | 22.0 | 17.1 | 14.7 | 10.6 | 7.3 | 5.7 | 4.9 | 2.4 | 0.8 |
| 75° | 27.7 | 18.7 | 13.0 | 9.8 | 8.1 | 5.7 | 4.1 | 3.3 | 0.8 | 0.8 | 0.8 |
| 77.5° | 17.1 | 10.6 | 6.5 | 5.7 | 4.1 | 3.3 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 80° | 9.0 | 5.7 | 4.1 | 3.3 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 82.5° | 4.1 | 2.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 85° | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 87.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 90° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 92.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 95° | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 97.5° | 4.1 | 2.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 100° | 9.8 | 5.7 | 4.1 | 3.3 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 102.5° | 17.1 | 11.4 | 7.3 | 5.7 | 4.9 | 3.3 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 105° | 27.7 | 19.6 | 13.8 | 11.4 | 9.0 | 6.5 | 4.9 | 2.4 | 0.8 | 0.8 | 0.8 |
| 107.5° | 40.7 | 30.1 | 22.0 | 19.6 | 15.5 | 11.4 | 8.1 | 5.7 | 4.9 | 2.4 | 0.8 |
| 110° | 55.4 | 43.2 | 34.2 | 30.1 | 26.1 | 18.7 | 13.0 | 9.8 | 7.3 | 6.5 | 5.7 |



TEST NUMBER: P188175

CATALOG NUMBER: FMB-N-2-LD4-1STD/1STD-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 71.7 | 58.7 | 47.3 | 43.2 | 37.5 | 28.5 | 21.2 | 14.7 | 11.4 | 9.8 | 8.1 |
| 115° | 89.6 | 75.8 | 63.5 | 58.7 | 53.0 | 40.7 | 31.0 | 22.0 | 17.1 | 13.8 | 12.2 |
| 117.5° | 108.4 | 93.7 | 81.5 | 75.0 | 67.6 | 55.4 | 43.2 | 31.8 | 24.4 | 20.4 | 17.9 |
| 120° | 127.9 | 113.2 | 100.2 | 92.9 | 85.5 | 70.9 | 57.0 | 44.0 | 34.2 | 27.7 | 24.4 |
| 122.5° | 148.3 | 132.8 | 118.9 | 111.6 | 103.5 | 88.0 | 71.7 | 57.0 | 44.8 | 36.7 | 31.8 |
| 125° | 168.6 | 153.2 | 139.3 | 132.0 | 122.2 | 105.1 | 88.0 | 71.7 | 57.0 | 46.4 | 40.7 |
| 127.5° | 189.0 | 173.5 | 159.7 | 152.3 | 141.8 | 123.8 | 105.1 | 87.2 | 70.9 | 57.8 | 50.5 |
| 130° | 210.2 | 194.7 | 180.0 | 172.7 | 162.1 | 142.6 | 123.0 | 103.5 | 86.4 | 71.7 | 61.1 |
| 132.5° | 232.2 | 215.9 | 200.4 | 193.1 | 182.5 | 162.9 | 141.8 | 121.4 | 102.7 | 86.4 | 74.1 |
| 135° | 252.6 | 237.1 | 220.8 | 213.4 | 203.7 | 182.5 | 162.1 | 140.1 | 119.8 | 102.7 | 88.8 |
| 137.5° | 272.9 | 256.6 | 241.1 | 233.0 | 223.2 | 202.0 | 181.7 | 160.5 | 139.3 | 120.6 | 105.9 |
| 140° | 292.5 | 277.0 | 260.7 | 253.4 | 243.6 | 223.2 | 203.7 | 182.5 | 161.3 | 140.9 | 124.6 |
| 142.5° | 312.0 | 295.7 | 280.3 | 272.9 | 263.1 | 244.4 | 224.9 | 204.5 | 184.1 | 164.6 | 146.6 |
| 145° | 331.6 | 315.3 | 299.8 | 292.5 | 283.5 | 267.2 | 247.7 | 228.1 | 208.6 | 189.0 | 172.7 |
| 147.5° | 350.3 | 334.0 | 318.5 | 311.2 | 303.9 | 287.6 | 270.5 | 251.7 | 233.0 | 215.9 | 199.6 |
| 150° | 368.2 | 352.8 | 338.1 | 330.8 | 322.6 | 308.0 | 292.5 | 275.4 | 256.6 | 242.0 | 227.3 |
| 152.5° | 386.2 | 369.9 | 356.8 | 349.5 | 341.4 | 327.5 | 313.7 | 299.0 | 281.9 | 267.2 | 253.4 |
| 155° | 403.3 | 387.8 | 373.9 | 367.4 | 359.3 | 346.2 | 333.2 | 321.0 | 306.3 | 293.3 | 281.1 |
| 157.5° | 418.7 | 402.5 | 391.0 | 385.3 | 377.2 | 364.2 | 353.6 | 342.2 | 331.6 | 320.2 | 308.8 |
| 160° | 434.2 | 419.6 | 407.3 | 402.5 | 395.9 | 382.1 | 370.7 | 361.7 | 351.9 | 343.8 | 335.7 |
| 162.5° | 448.1 | 434.2 | 422.0 | 417.9 | 412.2 | 401.6 | 389.4 | 380.5 | 372.3 | 365.0 | 357.6 |
| 165° | 461.1 | 448.9 | 435.9 | 432.6 | 426.9 | 418.7 | 409.0 | 398.4 | 390.2 | 385.3 | 381.3 |
| 167.5° | 472.5 | 461.1 | 452.2 | 448.9 | 443.2 | 434.2 | 426.9 | 420.4 | 411.4 | 405.7 | 400.0 |
| 170° | 482.3 | 473.3 | 465.2 | 463.6 | 458.7 | 450.5 | 443.2 | 438.3 | 431.8 | 427.7 | 423.6 |
| 172.5° | 491.3 | 483.9 | 478.2 | 477.4 | 474.1 | 468.4 | 461.9 | 456.2 | 450.5 | 446.4 | 443.2 |
| 175° | 501.0 | 495.3 | 490.4 | 489.6 | 488.0 | 484.7 | 481.5 | 477.4 | 472.5 | 470.1 | 467.6 |
| 177.5° | 508.4 | 503.5 | 501.8 | 502.7 | 501.0 | 500.2 | 498.6 | 497.0 | 493.7 | 492.1 | 489.6 |
| 180° | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 |



TEST NUMBER: P188175

CATALOG NUMBER: FMB-N-2-LD4-1STD/1STD-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 | 527.1 |
| 2.5° | 496.1 | 493.7 | 492.9 | 492.9 | 492.1 | 491.3 | 490.4 | 492.1 |
| 5° | 470.9 | 469.3 | 467.6 | 467.6 | 466.8 | 465.2 | 465.2 | 466.8 |
| 7.5° | 447.3 | 444.8 | 444.0 | 444.0 | 442.4 | 440.7 | 440.7 | 441.6 |
| 10° | 425.3 | 421.2 | 420.4 | 419.6 | 417.1 | 415.5 | 414.7 | 415.5 |
| 12.5° | 402.5 | 398.4 | 396.8 | 395.1 | 391.9 | 390.2 | 388.6 | 389.4 |
| 15° | 380.5 | 374.8 | 373.1 | 371.5 | 367.4 | 364.2 | 362.5 | 363.3 |
| 17.5° | 355.2 | 348.7 | 345.4 | 342.2 | 338.1 | 334.8 | 333.2 | 335.7 |
| 20° | 329.1 | 320.2 | 316.9 | 313.7 | 308.0 | 303.9 | 302.2 | 303.9 |
| 22.5° | 299.8 | 290.8 | 287.6 | 286.0 | 277.0 | 272.1 | 269.7 | 271.3 |
| 25° | 271.3 | 260.7 | 256.6 | 253.4 | 244.4 | 238.7 | 235.4 | 236.3 |
| 27.5° | 242.0 | 229.7 | 225.7 | 221.6 | 210.2 | 202.9 | 199.6 | 200.4 |
| 30° | 212.6 | 197.2 | 192.3 | 187.4 | 176.0 | 168.6 | 164.6 | 166.2 |
| 32.5° | 181.7 | 167.0 | 161.3 | 156.4 | 146.6 | 139.3 | 136.9 | 136.1 |
| 35° | 153.2 | 139.3 | 134.4 | 129.5 | 122.2 | 115.7 | 114.1 | 113.2 |
| 37.5° | 129.5 | 117.3 | 112.4 | 108.4 | 101.8 | 97.8 | 95.3 | 94.5 |
| 40° | 109.2 | 98.6 | 94.5 | 91.2 | 86.4 | 83.1 | 81.5 | 80.7 |
| 42.5° | 92.1 | 83.1 | 79.8 | 77.4 | 73.3 | 70.9 | 70.1 | 69.2 |
| 45° | 77.4 | 70.9 | 67.6 | 66.0 | 62.7 | 60.3 | 59.5 | 58.7 |
| 47.5° | 65.2 | 59.5 | 57.0 | 55.4 | 53.0 | 51.3 | 49.7 | 49.7 |
| 50° | 53.8 | 49.7 | 48.1 | 45.6 | 44.0 | 42.4 | 41.5 | 40.7 |
| 52.5° | 44.8 | 39.9 | 39.1 | 37.5 | 35.8 | 34.2 | 33.4 | 32.6 |
| 55° | 35.0 | 31.8 | 31.0 | 29.3 | 27.7 | 26.9 | 26.1 | 26.1 |
| 57.5° | 27.7 | 24.4 | 23.6 | 22.8 | 21.2 | 20.4 | 19.6 | 19.6 |
| 60° | 19.6 | 17.9 | 17.1 | 16.3 | 15.5 | 14.7 | 13.8 | 13.8 |
| 62.5° | 13.8 | 13.0 | 12.2 | 11.4 | 10.6 | 9.8 | 9.8 | 9.8 |
| 65° | 9.8 | 9.0 | 8.1 | 8.1 | 7.3 | 7.3 | 6.5 | 6.5 |
| 67.5° | 6.5 | 6.5 | 5.7 | 5.7 | 4.9 | 4.9 | 4.1 | 4.1 |
| 70° | 4.1 | 2.4 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.8 |
| 82.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.8 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 4.1 | 1.6 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P188175

CATALOG NUMBER: FMB-N-2-LD4-1STD/1STD-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 7.3 | 6.5 | 6.5 | 5.7 | 5.7 | 4.9 | 4.9 | 4.1 |
| 115° | 10.6 | 9.8 | 9.8 | 9.0 | 9.0 | 8.1 | 8.1 | 7.3 |
| 117.5° | 14.7 | 13.8 | 13.0 | 12.2 | 12.2 | 11.4 | 10.6 | 10.6 |
| 120° | 21.2 | 18.7 | 17.9 | 17.1 | 16.3 | 15.5 | 14.7 | 14.7 |
| 122.5° | 27.7 | 25.3 | 24.4 | 23.6 | 22.0 | 21.2 | 20.4 | 20.4 |
| 125° | 35.8 | 32.6 | 31.8 | 30.1 | 29.3 | 27.7 | 26.9 | 26.1 |
| 127.5° | 44.8 | 40.7 | 39.9 | 38.3 | 36.7 | 35.0 | 34.2 | 33.4 |
| 130° | 54.6 | 50.5 | 48.9 | 46.4 | 44.8 | 43.2 | 42.4 | 41.5 |
| 132.5° | 65.2 | 60.3 | 57.8 | 56.2 | 53.8 | 52.1 | 50.5 | 50.5 |
| 135° | 77.4 | 70.9 | 68.4 | 66.0 | 63.5 | 61.1 | 59.5 | 58.7 |
| 137.5° | 92.1 | 83.9 | 80.7 | 77.4 | 74.1 | 70.9 | 69.2 | 69.2 |
| 140° | 110.0 | 100.2 | 96.1 | 91.2 | 87.2 | 83.1 | 80.7 | 79.8 |
| 142.5° | 129.5 | 118.9 | 114.1 | 110.0 | 104.3 | 99.4 | 96.1 | 94.5 |
| 145° | 154.0 | 141.8 | 136.9 | 131.2 | 124.6 | 119.8 | 115.7 | 114.9 |
| 147.5° | 183.3 | 170.3 | 163.8 | 158.0 | 149.9 | 143.4 | 140.1 | 138.5 |
| 150° | 211.0 | 199.6 | 193.9 | 189.0 | 181.7 | 173.5 | 169.5 | 167.0 |
| 152.5° | 239.5 | 229.7 | 224.0 | 220.0 | 213.4 | 206.1 | 203.7 | 201.2 |
| 155° | 267.2 | 259.1 | 255.0 | 250.9 | 245.2 | 239.5 | 236.3 | 234.6 |
| 157.5° | 295.7 | 288.4 | 284.3 | 281.1 | 276.2 | 271.3 | 268.0 | 266.4 |
| 160° | 324.2 | 317.7 | 313.7 | 310.4 | 305.5 | 301.4 | 299.8 | 298.2 |
| 162.5° | 348.7 | 344.6 | 341.4 | 338.9 | 335.7 | 330.8 | 329.9 | 327.5 |
| 165° | 373.1 | 367.4 | 365.0 | 362.5 | 360.1 | 357.6 | 357.6 | 356.8 |
| 167.5° | 395.1 | 391.9 | 389.4 | 387.8 | 386.2 | 383.7 | 383.7 | 382.9 |
| 170° | 416.3 | 413.0 | 410.6 | 409.0 | 407.3 | 404.9 | 405.7 | 404.9 |
| 172.5° | 439.1 | 436.7 | 435.0 | 433.4 | 431.8 | 429.3 | 429.3 | 429.3 |
| 175° | 461.9 | 458.7 | 456.2 | 454.6 | 453.0 | 450.5 | 448.9 | 448.1 |
| 177.5° | 487.2 | 484.7 | 483.9 | 482.3 | 483.1 | 480.7 | 479.8 | 479.0 |
| 180° | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 | 514.1 |

(END OF REPORT)