

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: P392569

Luminaire Tested: **MWL-3-27-33-UNV-L935-EDD**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392569  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-565-1 &  
Test Lab: INNOVATION CENTER  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: MWL-3-27-33-UNV-L935-EDD  
Description: MWL 3FT MEDICAL LED FIXTURE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

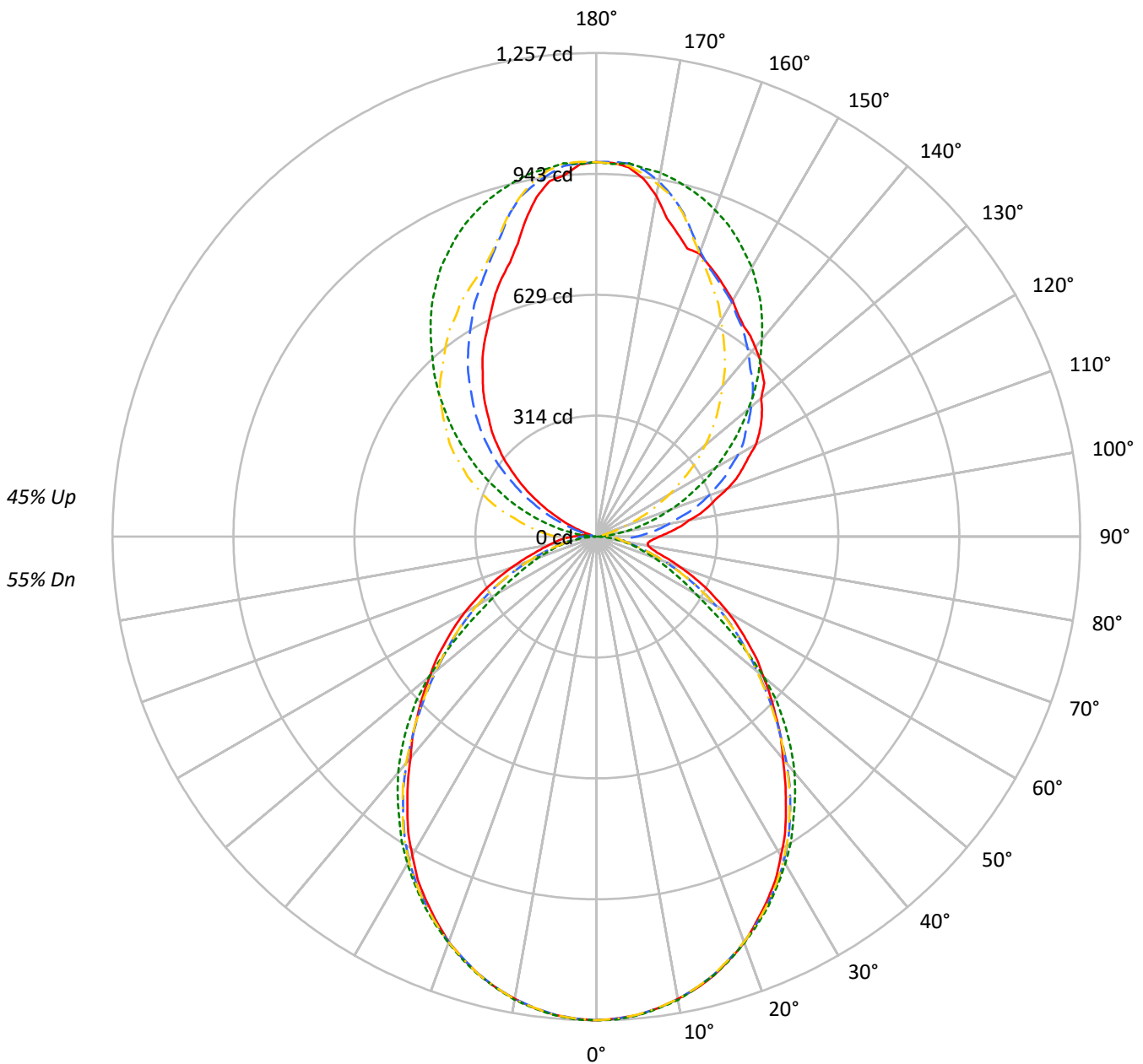
Lumens per Lamp: N/A  
Luminaire Lumens: 5212.8 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.17 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 3' x H: 0.42')  
CIE Type: General Diffuse

Input Watts (W): 61.004  
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: P392569  
CATALOG NUMBER: MWL-3-27-33-UNV-L935-EDD

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    ··· 90°-270°    - · 135°-315°



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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   | 108 | 108 | 108 | 108 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 | 55 |
| 1   | 99  | 95  | 91  | 87  | 92  | 88  | 85  | 82  | 76 | 73 | 71 | 65 | 63 | 61 | 54 | 53 | 52 | 47 |
| 2   | 91  | 83  | 77  | 72  | 84  | 78  | 72  | 68  | 67 | 63 | 60 | 57 | 54 | 52 | 48 | 46 | 44 | 40 |
| 3   | 83  | 74  | 66  | 61  | 77  | 69  | 62  | 57  | 59 | 55 | 51 | 51 | 47 | 44 | 43 | 40 | 38 | 34 |
| 4   | 76  | 65  | 58  | 52  | 70  | 61  | 54  | 49  | 53 | 48 | 43 | 46 | 42 | 38 | 39 | 36 | 33 | 30 |
| 5   | 70  | 58  | 50  | 44  | 65  | 55  | 48  | 42  | 48 | 42 | 38 | 41 | 37 | 33 | 35 | 32 | 29 | 26 |
| 6   | 65  | 53  | 45  | 39  | 60  | 49  | 42  | 37  | 43 | 37 | 33 | 37 | 33 | 29 | 32 | 28 | 26 | 23 |
| 7   | 60  | 48  | 40  | 34  | 56  | 45  | 38  | 33  | 39 | 34 | 29 | 34 | 30 | 26 | 29 | 26 | 23 | 21 |
| 8   | 56  | 43  | 36  | 30  | 52  | 41  | 34  | 29  | 36 | 30 | 26 | 31 | 27 | 23 | 27 | 23 | 21 | 19 |
| 9   | 52  | 40  | 32  | 27  | 48  | 37  | 31  | 26  | 33 | 27 | 24 | 29 | 24 | 21 | 25 | 21 | 19 | 17 |
| 10  | 48  | 36  | 29  | 25  | 45  | 34  | 28  | 23  | 30 | 25 | 21 | 27 | 22 | 19 | 23 | 20 | 17 | 15 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 10827 | 10827 | 10827 | 10827 |
| 5°  | 10655 | 9925  | 10655 | 9925  |
| 10° | 10414 | 9088  | 10414 | 9088  |
| 15° | 10148 | 8294  | 10130 | 8294  |
| 20° | 9797  | 7550  | 9778  | 7550  |
| 25° | 9342  | 6859  | 9323  | 6859  |
| 30° | 8825  | 6186  | 8799  | 6186  |
| 35° | 8219  | 5522  | 8199  | 5522  |
| 40° | 7588  | 4893  | 7559  | 4893  |
| 45° | 7044  | 4219  | 7022  | 4219  |
| 50° | 6510  | 3474  | 6486  | 3474  |
| 55° | 6013  | 2597  | 5997  | 2597  |
| 60° | 5500  | 1884  | 5492  | 1884  |
| 65° | 4905  | 1416  | 4905  | 1416  |
| 70° | 4228  | 1069  | 4241  | 1069  |
| 75° | 3616  | 774   | 3662  | 774   |
| 80° | 3784  | 497   | 3423  | 497   |
| 85° | 5323  | 215   | 3620  | 215   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 118.3  | 2.3       |
| 10°-20°   | 332.0  | 6.4       |
| 20°-30°   | 484.4  | 9.3       |
| 30°-40°   | 547.4  | 10.5      |
| 40°-50°   | 511.9  | 9.8       |
| 50°-60°   | 404.1  | 7.8       |
| 60°-70°   | 264.2  | 5.1       |
| 70°-80°   | 137.6  | 2.6       |
| 80°-90°   | 76.1   | 1.5       |
| 90°-100°  | 88.4   | 1.7       |
| 100°-110° | 152.6  | 2.9       |
| 110°-120° | 259.0  | 5.0       |
| 120°-130° | 351.7  | 6.7       |
| 130°-140° | 401.0  | 7.7       |
| 140°-150° | 399.9  | 7.7       |
| 150°-160° | 348.2  | 6.7       |
| 160°-170° | 244.9  | 4.7       |
| 170°-180° | 91.2   | 1.7       |
| 0°-30°    | 934.7  | 17.9      |
| 0°-40°    | 1482.1 | 28.4      |
| 0°-60°    | 2398.1 | 46.0      |
| 0°-90°    | 2875.9 | 55.2      |
| 90°-120°  | 500.0  | 9.6       |
| 90°-150°  | 1652.5 | 31.7      |
| 90°-180°  | 2337.0 | 44.8      |
| 0°-180°   | 5212.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1257 | 1257 | 1257 | 1257 | 1257 |      |
| 5°   | 1248 | 1249 | 1248 | 1249 | 1248 | 118  |
| 15°  | 1181 | 1180 | 1179 | 1180 | 1181 | 332  |
| 25°  | 1047 | 1058 | 1045 | 1058 | 1047 | 481  |
| 35°  | 858  | 893  | 856  | 893  | 858  | 537  |
| 45°  | 659  | 693  | 657  | 693  | 659  | 509  |
| 55°  | 480  | 420  | 479  | 420  | 480  | 431  |
| 65°  | 312  | 218  | 312  | 218  | 312  | 309  |
| 75°  | 165  | 110  | 167  | 110  | 165  | 183  |
| 85°  | 139  | 27   | 95   | 27   | 139  | 113  |
| 90°  | 163  | 2    | 60   | 2    | 163  | 90   |
| 95°  | 202  | 28   | 39   | 28   | 202  | 175  |
| 105° | 302  | 136  | 12   | 136  | 302  | 319  |
| 115° | 419  | 278  | 97   | 278  | 419  | 415  |
| 125° | 523  | 436  | 238  | 436  | 523  | 467  |
| 135° | 608  | 595  | 382  | 595  | 608  | 469  |
| 145° | 668  | 744  | 514  | 744  | 668  | 421  |
| 155° | 746  | 860  | 647  | 860  | 746  | 344  |
| 165° | 815  | 936  | 788  | 936  | 815  | 231  |
| 175° | 964  | 974  | 943  | 974  | 964  | 90   |
| 180° | 973  | 973  | 973  | 973  | 973  |      |



TEST NUMBER: P392569

CATALOG NUMBER: MWL-3-27-33-UNV-L935-EDD

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1257.3 | 1257.3 | 1257.3 | 1257.3 | 1257.3 | 1257.3 | 1257.3 | 1257.3 | 1257.3 | 1257.3 | 1257.3 |
| 2.5°   | 1253.5 | 1255.9 | 1253.8 | 1254.5 | 1256.1 | 1253.8 | 1253.8 | 1255.9 | 1254.3 | 1255.9 | 1253.8 |
| 5°     | 1247.6 | 1249.0 | 1247.8 | 1247.8 | 1248.7 | 1247.8 | 1247.1 | 1249.0 | 1247.6 | 1249.0 | 1247.1 |
| 7.5°   | 1235.7 | 1237.8 | 1235.3 | 1236.8 | 1236.8 | 1236.2 | 1234.6 | 1237.1 | 1235.7 | 1237.1 | 1234.6 |
| 10°    | 1220.2 | 1222.6 | 1220.9 | 1220.9 | 1222.6 | 1220.2 | 1220.2 | 1221.3 | 1220.2 | 1221.3 | 1220.2 |
| 12.5°  | 1202.9 | 1203.1 | 1200.7 | 1202.4 | 1201.8 | 1202.4 | 1200.7 | 1201.8 | 1201.6 | 1201.8 | 1200.7 |
| 15°    | 1180.7 | 1179.3 | 1178.6 | 1179.5 | 1179.7 | 1178.8 | 1177.9 | 1177.9 | 1178.6 | 1177.9 | 1177.9 |
| 17.5°  | 1152.7 | 1153.9 | 1150.7 | 1153.4 | 1153.4 | 1153.4 | 1150.0 | 1153.2 | 1150.7 | 1153.2 | 1150.0 |
| 20°    | 1123.1 | 1122.4 | 1121.9 | 1123.7 | 1123.8 | 1123.0 | 1121.2 | 1121.0 | 1121.0 | 1121.0 | 1121.2 |
| 22.5°  | 1085.0 | 1087.6 | 1088.8 | 1092.3 | 1091.6 | 1091.6 | 1088.1 | 1086.2 | 1083.7 | 1086.2 | 1088.1 |
| 25°    | 1046.9 | 1051.1 | 1053.9 | 1059.3 | 1058.5 | 1058.5 | 1052.5 | 1049.1 | 1044.8 | 1049.1 | 1052.5 |
| 27.5°  | 1007.0 | 1007.9 | 1015.6 | 1023.5 | 1020.3 | 1022.8 | 1014.3 | 1005.8 | 1005.0 | 1005.8 | 1014.3 |
| 30°    | 958.7  | 962.9  | 974.0  | 982.6  | 981.3  | 981.2  | 971.9  | 960.9  | 955.9  | 960.9  | 971.9  |
| 32.5°  | 912.9  | 914.6  | 929.0  | 939.4  | 940.6  | 938.0  | 926.9  | 911.8  | 910.1  | 911.8  | 926.9  |
| 35°    | 857.9  | 862.2  | 877.5  | 895.3  | 893.1  | 893.1  | 875.3  | 860.1  | 855.8  | 860.1  | 875.3  |
| 37.5°  | 806.2  | 808.8  | 825.7  | 847.8  | 848.1  | 845.6  | 823.6  | 806.6  | 804.1  | 806.6  | 823.6  |
| 40°    | 753.7  | 752.8  | 768.9  | 793.7  | 800.6  | 792.2  | 766.1  | 749.9  | 750.8  | 749.9  | 766.1  |
| 42.5°  | 709.6  | 699.4  | 710.5  | 737.7  | 748.9  | 736.2  | 708.4  | 696.5  | 706.7  | 696.5  | 708.4  |
| 45°    | 658.8  | 648.6  | 654.6  | 680.1  | 692.9  | 678.6  | 651.7  | 646.5  | 656.7  | 646.5  | 651.7  |
| 47.5°  | 613.0  | 600.3  | 599.5  | 618.3  | 636.1  | 617.5  | 596.7  | 598.2  | 610.9  | 598.2  | 596.7  |
| 50°    | 566.4  | 554.5  | 546.0  | 558.9  | 568.3  | 557.5  | 543.3  | 551.7  | 564.3  | 551.7  | 543.3  |
| 52.5°  | 526.5  | 510.4  | 496.2  | 499.5  | 492.9  | 498.2  | 494.1  | 507.6  | 524.4  | 507.6  | 494.1  |
| 55°    | 480.0  | 469.8  | 449.6  | 438.6  | 420.1  | 437.2  | 447.4  | 467.8  | 478.7  | 467.8  | 447.4  |
| 57.5°  | 438.5  | 429.2  | 404.6  | 378.4  | 352.2  | 377.0  | 402.5  | 427.0  | 437.1  | 427.0  | 402.5  |
| 60°    | 396.2  | 386.8  | 357.2  | 319.2  | 298.8  | 318.5  | 355.9  | 385.5  | 395.6  | 385.5  | 355.9  |
| 62.5°  | 352.1  | 346.2  | 312.2  | 269.1  | 257.5  | 268.4  | 310.9  | 344.8  | 351.5  | 344.8  | 310.9  |
| 65°    | 312.4  | 302.3  | 267.5  | 225.9  | 218.5  | 225.2  | 266.8  | 301.6  | 312.4  | 301.6  | 266.8  |
| 67.5°  | 271.7  | 259.0  | 225.9  | 187.9  | 187.1  | 187.9  | 225.2  | 258.3  | 271.7  | 258.3  | 225.2  |
| 70°    | 232.0  | 217.6  | 187.1  | 155.7  | 159.1  | 155.7  | 187.1  | 218.3  | 232.7  | 218.3  | 187.1  |
| 72.5°  | 197.3  | 177.8  | 153.2  | 127.7  | 131.2  | 127.0  | 153.2  | 178.4  | 198.6  | 178.4  | 153.2  |
| 75°    | 165.0  | 143.0  | 121.9  | 102.4  | 110.1  | 102.4  | 122.6  | 143.7  | 167.1  | 143.7  | 122.6  |
| 77.5°  | 146.8  | 119.5  | 94.0   | 80.4   | 88.0   | 80.4   | 94.7   | 117.4  | 144.1  | 117.4  | 94.7   |
| 80°    | 136.4  | 108.7  | 75.7   | 61.7   | 66.8   | 61.7   | 74.3   | 97.7   | 123.4  | 97.7   | 74.3   |
| 82.5°  | 134.3  | 107.7  | 70.4   | 43.9   | 47.3   | 43.9   | 62.0   | 83.0   | 108.1  | 83.0   | 62.0   |
| 85°    | 139.4  | 116.4  | 75.3   | 34.9   | 27.0   | 33.6   | 55.4   | 74.6   | 94.8   | 74.6   | 55.4   |
| 87.5°  | 148.9  | 131.7  | 87.6   | 37.6   | 7.6    | 28.0   | 48.4   | 65.8   | 78.2   | 65.8   | 48.4   |
| 90°    | 163.0  | 149.4  | 104.8  | 45.3   | 1.6    | 19.2   | 36.7   | 52.5   | 60.0   | 52.5   | 36.7   |
| 92.5°  | 182.2  | 170.6  | 124.2  | 58.9   | 11.9   | 11.6   | 30.0   | 43.4   | 47.5   | 43.4   | 30.0   |
| 95°    | 202.3  | 196.4  | 147.0  | 74.0   | 28.3   | 5.3    | 23.2   | 36.9   | 39.3   | 36.9   | 23.2   |
| 97.5°  | 225.6  | 219.7  | 168.7  | 97.0   | 49.6   | 9.1    | 16.9   | 30.7   | 33.2   | 30.7   | 16.9   |
| 100°   | 244.8  | 240.7  | 192.9  | 126.6  | 75.8   | 23.5   | 10.8   | 25.0   | 28.4   | 25.0   | 10.8   |
| 102.5° | 276.4  | 264.7  | 216.8  | 154.8  | 104.0  | 43.4   | 12.1   | 17.3   | 20.8   | 17.3   | 12.1   |
| 105°   | 301.8  | 287.9  | 250.4  | 184.4  | 136.2  | 70.2   | 28.5   | 11.6   | 12.4   | 11.6   | 28.5   |
| 107.5° | 326.3  | 318.5  | 280.7  | 214.5  | 170.6  | 101.1  | 51.9   | 27.1   | 18.3   | 27.1   | 51.9   |
| 110°   | 360.6  | 351.5  | 310.2  | 244.8  | 206.3  | 134.2  | 78.7   | 49.1   | 38.9   | 49.1   | 78.7   |



TEST NUMBER: P392569

CATALOG NUMBER: MWL-3-27-33-UNV-L935-EDD

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 112.5° | 393.6 | 386.5 | 337.7 | 276.4 | 243.3 | 169.8  | 111.7 | 76.5   | 67.1  | 76.5   | 111.7 |
| 115°   | 419.0 | 414.7 | 369.3 | 306.0 | 277.8 | 210.5  | 148.1 | 108.9  | 97.3  | 108.9  | 148.1 |
| 117.5° | 444.9 | 444.3 | 392.7 | 336.2 | 319.0 | 246.9  | 181.7 | 141.2  | 128.1 | 141.2  | 181.7 |
| 120°   | 478.7 | 473.1 | 425.1 | 366.4 | 358.2 | 285.4  | 218.8 | 178.4  | 165.2 | 178.4  | 218.8 |
| 122.5° | 501.9 | 498.6 | 452.5 | 396.1 | 396.1 | 325.4  | 254.6 | 214.0  | 200.3 | 214.0  | 254.6 |
| 125°   | 523.3 | 521.9 | 473.1 | 425.1 | 435.9 | 361.7  | 294.4 | 253.2  | 238.2 | 253.2  | 294.4 |
| 127.5° | 542.5 | 544.6 | 499.9 | 456.6 | 476.5 | 398.9  | 333.6 | 288.2  | 272.5 | 288.2  | 333.6 |
| 130°   | 559.0 | 565.9 | 525.3 | 485.5 | 515.0 | 439.5  | 368.6 | 323.2  | 313.0 | 323.2  | 368.6 |
| 132.5° | 591.3 | 587.2 | 551.5 | 515.0 | 556.2 | 476.5  | 405.7 | 358.4  | 346.6 | 358.4  | 405.7 |
| 135°   | 607.7 | 609.1 | 574.1 | 540.4 | 594.7 | 513.7  | 440.8 | 394.1  | 382.4 | 394.1  | 440.8 |
| 137.5° | 627.7 | 623.6 | 592.0 | 571.4 | 630.5 | 549.3  | 475.1 | 431.9  | 413.3 | 431.9  | 475.1 |
| 140°   | 642.1 | 641.5 | 615.3 | 598.9 | 668.9 | 584.4  | 510.2 | 466.2  | 449.1 | 466.2  | 510.2 |
| 142.5° | 657.3 | 661.3 | 638.7 | 629.1 | 707.4 | 621.5  | 548.0 | 499.9  | 483.4 | 499.9  | 548.0 |
| 145°   | 667.5 | 676.5 | 662.0 | 666.8 | 743.9 | 662.7  | 581.0 | 532.2  | 514.3 | 532.2  | 581.0 |
| 147.5° | 684.8 | 696.4 | 679.3 | 693.7 | 775.4 | 699.2  | 614.0 | 565.9  | 550.0 | 565.9  | 614.0 |
| 150°   | 708.1 | 713.6 | 703.3 | 730.8 | 807.8 | 739.8  | 647.6 | 598.2  | 582.4 | 598.2  | 647.6 |
| 152.5° | 726.6 | 733.6 | 721.8 | 771.3 | 833.2 | 776.9  | 684.8 | 629.7  | 611.3 | 629.7  | 684.8 |
| 155°   | 745.9 | 748.7 | 740.4 | 810.5 | 860.0 | 813.3  | 714.3 | 664.9  | 646.9 | 664.9  | 714.3 |
| 157.5° | 763.8 | 769.3 | 759.6 | 840.0 | 883.4 | 844.9  | 748.0 | 699.9  | 684.1 | 699.9  | 748.0 |
| 160°   | 783.1 | 783.1 | 788.5 | 874.4 | 902.6 | 872.4  | 783.8 | 738.4  | 716.4 | 738.4  | 783.8 |
| 162.5° | 785.1 | 798.2 | 827.7 | 898.5 | 921.1 | 896.5  | 822.2 | 765.8  | 746.6 | 765.8  | 822.2 |
| 165°   | 815.3 | 827.0 | 871.7 | 919.8 | 935.6 | 917.7  | 869.6 | 811.2  | 788.5 | 811.2  | 869.6 |
| 167.5° | 846.9 | 871.7 | 907.3 | 943.8 | 949.4 | 937.6  | 906.0 | 865.5  | 844.9 | 865.5  | 906.0 |
| 170°   | 898.5 | 919.8 | 937.6 | 952.7 | 960.3 | 953.4  | 928.7 | 908.7  | 895.7 | 908.7  | 928.7 |
| 172.5° | 938.1 | 952.7 | 959.6 | 969.3 | 964.5 | 961.6  | 949.4 | 939.7  | 931.9 | 939.7  | 949.4 |
| 175°   | 963.6 | 967.1 | 973.4 | 970.0 | 974.0 | 966.4  | 967.1 | 972.0  | 943.0 | 972.0  | 967.1 |
| 177.5° | 972.5 | 978.2 | 974.7 | 968.5 | 969.3 | 967.8  | 970.7 | 973.4  | 968.4 | 973.4  | 970.7 |
| 180°   | 973.4 | 973.4 | 973.4 | 973.4 | 973.4 | 973.4  | 973.4 | 973.4  | 973.4 | 973.4  | 973.4 |



TEST NUMBER: P392569

CATALOG NUMBER: MWL-3-27-33-UNV-L935-EDD

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1257.3 | 1257.3 | 1257.3 | 1257.3 | 1257.3 | 1257.3 |
| 2.5°   | 1253.8 | 1256.1 | 1254.5 | 1253.8 | 1255.9 | 1253.5 |
| 5°     | 1247.8 | 1248.7 | 1247.8 | 1247.8 | 1249.0 | 1247.6 |
| 7.5°   | 1236.2 | 1236.8 | 1236.8 | 1235.3 | 1237.8 | 1235.7 |
| 10°    | 1220.2 | 1222.6 | 1220.9 | 1220.9 | 1222.6 | 1220.2 |
| 12.5°  | 1202.4 | 1201.8 | 1202.4 | 1200.7 | 1203.1 | 1202.9 |
| 15°    | 1178.8 | 1179.7 | 1179.5 | 1178.6 | 1179.3 | 1180.7 |
| 17.5°  | 1153.4 | 1153.4 | 1153.4 | 1150.7 | 1153.9 | 1152.7 |
| 20°    | 1123.0 | 1123.8 | 1123.7 | 1121.9 | 1122.4 | 1123.1 |
| 22.5°  | 1091.6 | 1091.6 | 1092.3 | 1088.8 | 1087.6 | 1085.0 |
| 25°    | 1058.5 | 1058.5 | 1059.3 | 1053.9 | 1051.1 | 1046.9 |
| 27.5°  | 1022.8 | 1020.3 | 1023.5 | 1015.6 | 1007.9 | 1007.0 |
| 30°    | 981.2  | 981.3  | 982.6  | 974.0  | 962.9  | 958.7  |
| 32.5°  | 938.0  | 940.6  | 939.4  | 929.0  | 914.6  | 912.9  |
| 35°    | 893.1  | 893.1  | 895.3  | 877.5  | 862.2  | 857.9  |
| 37.5°  | 845.6  | 848.1  | 847.8  | 825.7  | 808.8  | 806.2  |
| 40°    | 792.2  | 800.6  | 793.7  | 768.9  | 752.8  | 753.7  |
| 42.5°  | 736.2  | 748.9  | 737.7  | 710.5  | 699.4  | 709.6  |
| 45°    | 678.6  | 692.9  | 680.1  | 654.6  | 648.6  | 658.8  |
| 47.5°  | 617.5  | 636.1  | 618.3  | 599.5  | 600.3  | 613.0  |
| 50°    | 557.5  | 568.3  | 558.9  | 546.0  | 554.5  | 566.4  |
| 52.5°  | 498.2  | 492.9  | 499.5  | 496.2  | 510.4  | 526.5  |
| 55°    | 437.2  | 420.1  | 438.6  | 449.6  | 469.8  | 480.0  |
| 57.5°  | 377.0  | 352.2  | 378.4  | 404.6  | 429.2  | 438.5  |
| 60°    | 318.5  | 298.8  | 319.2  | 357.2  | 386.8  | 396.2  |
| 62.5°  | 268.4  | 257.5  | 269.1  | 312.2  | 346.2  | 352.1  |
| 65°    | 225.2  | 218.5  | 225.9  | 267.5  | 302.3  | 312.4  |
| 67.5°  | 187.9  | 187.1  | 187.9  | 225.9  | 259.0  | 271.7  |
| 70°    | 155.7  | 159.1  | 155.7  | 187.1  | 217.6  | 232.0  |
| 72.5°  | 127.0  | 131.2  | 127.7  | 153.2  | 177.8  | 197.3  |
| 75°    | 102.4  | 110.1  | 102.4  | 121.9  | 143.0  | 165.0  |
| 77.5°  | 80.4   | 88.0   | 80.4   | 94.0   | 119.5  | 146.8  |
| 80°    | 61.7   | 66.8   | 61.7   | 75.7   | 108.7  | 136.4  |
| 82.5°  | 43.9   | 47.3   | 43.9   | 70.4   | 107.7  | 134.3  |
| 85°    | 33.6   | 27.0   | 34.9   | 75.3   | 116.4  | 139.4  |
| 87.5°  | 28.0   | 7.6    | 37.6   | 87.6   | 131.7  | 148.9  |
| 90°    | 19.2   | 1.6    | 45.3   | 104.8  | 149.4  | 163.0  |
| 92.5°  | 11.6   | 11.9   | 58.9   | 124.2  | 170.6  | 182.2  |
| 95°    | 5.3    | 28.3   | 74.0   | 147.0  | 196.4  | 202.3  |
| 97.5°  | 9.1    | 49.6   | 97.0   | 168.7  | 219.7  | 225.6  |
| 100°   | 23.5   | 75.8   | 126.6  | 192.9  | 240.7  | 244.8  |
| 102.5° | 43.4   | 104.0  | 154.8  | 216.8  | 264.7  | 276.4  |
| 105°   | 70.2   | 136.2  | 184.4  | 250.4  | 287.9  | 301.8  |
| 107.5° | 101.1  | 170.6  | 214.5  | 280.7  | 318.5  | 326.3  |
| 110°   | 134.2  | 206.3  | 244.8  | 310.2  | 351.5  | 360.6  |





TEST NUMBER: P392569

CATALOG NUMBER: MWL-3-27-33-UNV-L935-EDD

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|--------|--------|-------|--------|-------|--------|-------|
| 112.5° | 169.8  | 243.3 | 276.4  | 337.7 | 386.5  | 393.6 |
| 115°   | 210.5  | 277.8 | 306.0  | 369.3 | 414.7  | 419.0 |
| 117.5° | 246.9  | 319.0 | 336.2  | 392.7 | 444.3  | 444.9 |
| 120°   | 285.4  | 358.2 | 366.4  | 425.1 | 473.1  | 478.7 |
| 122.5° | 325.4  | 396.1 | 396.1  | 452.5 | 498.6  | 501.9 |
| 125°   | 361.7  | 435.9 | 425.1  | 473.1 | 521.9  | 523.3 |
| 127.5° | 398.9  | 476.5 | 456.6  | 499.9 | 544.6  | 542.5 |
| 130°   | 439.5  | 515.0 | 485.5  | 525.3 | 565.9  | 559.0 |
| 132.5° | 476.5  | 556.2 | 515.0  | 551.5 | 587.2  | 591.3 |
| 135°   | 513.7  | 594.7 | 540.4  | 574.1 | 609.1  | 607.7 |
| 137.5° | 549.3  | 630.5 | 571.4  | 592.0 | 623.6  | 627.7 |
| 140°   | 584.4  | 668.9 | 598.9  | 615.3 | 641.5  | 642.1 |
| 142.5° | 621.5  | 707.4 | 629.1  | 638.7 | 661.3  | 657.3 |
| 145°   | 662.7  | 743.9 | 666.8  | 662.0 | 676.5  | 667.5 |
| 147.5° | 699.2  | 775.4 | 693.7  | 679.3 | 696.4  | 684.8 |
| 150°   | 739.8  | 807.8 | 730.8  | 703.3 | 713.6  | 708.1 |
| 152.5° | 776.9  | 833.2 | 771.3  | 721.8 | 733.6  | 726.6 |
| 155°   | 813.3  | 860.0 | 810.5  | 740.4 | 748.7  | 745.9 |
| 157.5° | 844.9  | 883.4 | 840.0  | 759.6 | 769.3  | 763.8 |
| 160°   | 872.4  | 902.6 | 874.4  | 788.5 | 783.1  | 783.1 |
| 162.5° | 896.5  | 921.1 | 898.5  | 827.7 | 798.2  | 785.1 |
| 165°   | 917.7  | 935.6 | 919.8  | 871.7 | 827.0  | 815.3 |
| 167.5° | 937.6  | 949.4 | 943.8  | 907.3 | 871.7  | 846.9 |
| 170°   | 953.4  | 960.3 | 952.7  | 937.6 | 919.8  | 898.5 |
| 172.5° | 961.6  | 964.5 | 969.3  | 959.6 | 952.7  | 938.1 |
| 175°   | 966.4  | 974.0 | 970.0  | 973.4 | 967.1  | 963.6 |
| 177.5° | 967.8  | 969.3 | 968.5  | 974.7 | 978.2  | 972.5 |
| 180°   | 973.4  | 973.4 | 973.4  | 973.4 | 973.4  | 973.4 |

(END OF REPORT)