

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P257641

Luminaire Tested: **4ST1L2040R**

Issue Date: 3/3/2020



**Test Information**

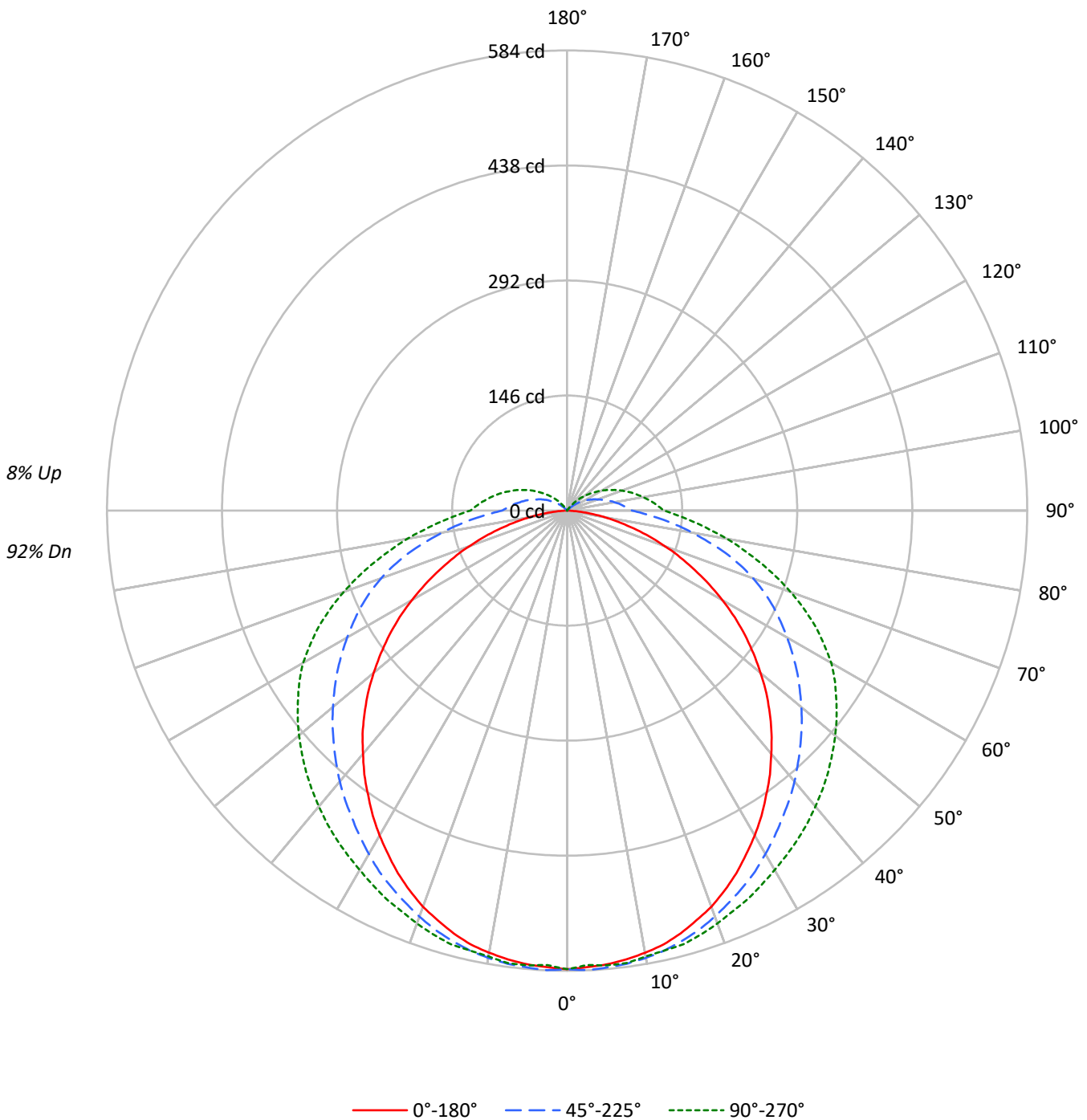
Test Method: LM-41-14  
Report Number: P257641  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-713-2)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ST1L2040R  
Description: 4' LED STRIP  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2153.4 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.35 / 1.43  
Luminous Opening: Rectangular w/ Sides (W: 0.08' x L: 4' x H: 0.08')  
CIE Type: Direct  
  
Input Watts (W): 19.68  
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

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CATALOG NUMBER: 4ST1L2040R

### Luminous Intensity Polar Plot





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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   | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 107 | 107 | 107 | 100 | 100 | 100 | 95 | 95 | 95 | 92 |
| 1   | 105 | 99  | 94  | 90  | 101 | 96  | 91  | 87  | 90  | 86  | 83  | 85  | 82  | 79  | 80 | 78 | 75 | 73 |
| 2   | 94  | 85  | 78  | 71  | 91  | 83  | 76  | 70  | 78  | 72  | 67  | 73  | 68  | 64  | 69 | 65 | 61 | 59 |
| 3   | 86  | 74  | 65  | 58  | 82  | 72  | 64  | 57  | 68  | 61  | 55  | 64  | 58  | 53  | 60 | 55 | 51 | 48 |
| 4   | 78  | 65  | 56  | 49  | 75  | 63  | 55  | 48  | 60  | 52  | 46  | 56  | 50  | 45  | 53 | 48 | 43 | 41 |
| 5   | 71  | 58  | 48  | 41  | 69  | 56  | 47  | 41  | 53  | 45  | 40  | 50  | 44  | 38  | 48 | 42 | 37 | 35 |
| 6   | 66  | 52  | 43  | 36  | 63  | 51  | 42  | 35  | 48  | 40  | 34  | 45  | 39  | 33  | 43 | 37 | 33 | 30 |
| 7   | 61  | 47  | 38  | 31  | 59  | 46  | 37  | 31  | 43  | 36  | 30  | 41  | 34  | 29  | 39 | 33 | 29 | 27 |
| 8   | 57  | 43  | 34  | 28  | 55  | 42  | 33  | 28  | 40  | 32  | 27  | 38  | 31  | 26  | 36 | 30 | 26 | 24 |
| 9   | 53  | 39  | 31  | 25  | 51  | 38  | 30  | 25  | 36  | 29  | 24  | 35  | 28  | 24  | 33 | 27 | 23 | 21 |
| 10  | 50  | 36  | 28  | 22  | 48  | 35  | 27  | 22  | 34  | 27  | 22  | 32  | 26  | 21  | 31 | 25 | 21 | 19 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 18801 | 18801 | 18801 |
| 5°  | 18716 | 17752 | 17271 |
| 10° | 18623 | 16773 | 16020 |
| 15° | 18482 | 15836 | 15029 |
| 20° | 18257 | 14925 | 14054 |
| 25° | 17930 | 14070 | 13214 |
| 30° | 17549 | 13252 | 12456 |
| 35° | 17122 | 12472 | 11825 |
| 40° | 16703 | 11790 | 11238 |
| 45° | 16272 | 11115 | 10704 |
| 50° | 15717 | 10482 | 10186 |
| 55° | 15068 | 9876  | 9672  |
| 60° | 14199 | 9257  | 9154  |
| 65° | 13098 | 8661  | 8452  |
| 70° | 11802 | 7953  | 7607  |
| 75° | 10099 | 7032  | 6673  |
| 80° | 7953  | 5887  | 5750  |
| 85° | 4491  | 4768  | 4780  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.2   | 2.6       |
| 10°-20°   | 158.9  | 7.4       |
| 20°-30°   | 242.2  | 11.2      |
| 30°-40°   | 297.3  | 13.8      |
| 40°-50°   | 321.2  | 14.9      |
| 50°-60°   | 313.0  | 14.5      |
| 60°-70°   | 273.0  | 12.7      |
| 70°-80°   | 202.2  | 9.4       |
| 80°-90°   | 118.3  | 5.5       |
| 90°-100°  | 70.0   | 3.3       |
| 100°-110° | 49.4   | 2.3       |
| 110°-120° | 30.8   | 1.4       |
| 120°-130° | 15.9   | 0.7       |
| 130°-140° | 5.5    | 0.3       |
| 140°-150° | 0.5    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 456.3  | 21.2      |
| 0°-40°    | 753.6  | 35.0      |
| 0°-60°    | 1387.8 | 64.4      |
| 0°-90°    | 1981.3 | 92.0      |
| 90°-120°  | 150.2  | 7.0       |
| 90°-150°  | 172.1  | 8.0       |
| 90°-180°  | 172.0  | 8.0       |
| 0°-180°   | 2153.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 582 | 582   | 582 | 582   | 582 |      |
| 5°   | 578 | 585   | 582 | 580   | 579 | 55   |
| 15°  | 556 | 562   | 565 | 568   | 570 | 157  |
| 25°  | 508 | 515   | 528 | 538   | 544 | 234  |
| 35°  | 440 | 451   | 476 | 499   | 510 | 276  |
| 45°  | 364 | 379   | 419 | 453   | 469 | 280  |
| 55°  | 276 | 300   | 356 | 399   | 417 | 246  |
| 65°  | 179 | 221   | 289 | 332   | 348 | 178  |
| 75°  | 87  | 146   | 208 | 241   | 253 | 93   |
| 85°  | 15  | 70    | 119 | 148   | 160 | 19   |
| 90°  | 1   | 38    | 82  | 112   | 123 | 1    |
| 95°  | 0   | 30    | 71  | 99    | 111 | 0    |
| 105° | 0   | 16    | 52  | 77    | 86  | 0    |
| 115° | 0   | 5     | 33  | 54    | 62  | 0    |
| 125° | 0   | 0     | 17  | 34    | 39  | 0    |
| 135° | 0   | 0     | 2   | 15    | 20  | 0    |
| 145° | 0   | 0     | 0   | 0     | 3   | 0    |
| 155° | 0   | 0     | 0   | 0     | 0   | 0    |
| 165° | 0   | 0     | 0   | 0     | 0   | 0    |
| 175° | 0   | 0     | 0   | 0     | 0   | 0    |
| 180° | 0   | 0     | 0   | 0     | 0   | 0    |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 |
| 2.5°   | 580.1 | 579.2 | 587.6 | 582.0 | 582.9 | 587.6 | 583.9 | 582.0 | 583.9 | 582.9 | 583.9 |
| 5°     | 578.2 | 576.4 | 584.8 | 580.1 | 581.0 | 584.8 | 581.0 | 580.1 | 581.0 | 581.0 | 582.0 |
| 7.5°   | 574.5 | 572.6 | 581.0 | 576.4 | 577.3 | 581.0 | 577.3 | 576.4 | 578.2 | 577.3 | 580.1 |
| 10°    | 569.8 | 567.9 | 575.4 | 571.7 | 572.6 | 576.4 | 572.6 | 572.6 | 573.6 | 574.5 | 576.4 |
| 12.5°  | 564.2 | 561.4 | 568.9 | 566.1 | 566.1 | 570.7 | 567.0 | 567.0 | 567.9 | 568.9 | 571.7 |
| 15°    | 555.7 | 552.9 | 559.5 | 557.6 | 557.6 | 562.3 | 558.6 | 559.5 | 560.4 | 562.3 | 565.1 |
| 17.5°  | 545.4 | 542.6 | 548.2 | 547.3 | 547.3 | 552.0 | 548.2 | 550.1 | 551.1 | 552.9 | 557.6 |
| 20°    | 535.1 | 532.3 | 537.0 | 536.1 | 537.0 | 541.7 | 537.9 | 539.8 | 541.7 | 544.5 | 548.2 |
| 22.5°  | 522.0 | 519.2 | 523.9 | 523.9 | 523.9 | 528.6 | 525.8 | 528.6 | 530.4 | 533.3 | 537.9 |
| 25°    | 507.9 | 506.1 | 508.9 | 509.8 | 510.8 | 515.4 | 512.6 | 515.4 | 518.3 | 522.0 | 527.6 |
| 27.5°  | 492.0 | 490.1 | 492.0 | 494.8 | 495.8 | 500.5 | 497.6 | 502.3 | 504.2 | 508.9 | 516.4 |
| 30°    | 476.1 | 474.2 | 476.1 | 478.9 | 480.8 | 484.5 | 482.6 | 487.3 | 490.1 | 495.8 | 503.3 |
| 32.5°  | 459.2 | 458.3 | 459.2 | 463.0 | 464.8 | 468.6 | 467.7 | 473.3 | 476.1 | 482.6 | 490.1 |
| 35°    | 440.5 | 439.5 | 440.5 | 445.2 | 448.0 | 450.8 | 449.8 | 456.4 | 461.1 | 467.7 | 476.1 |
| 37.5°  | 422.7 | 421.7 | 422.7 | 428.3 | 430.2 | 434.8 | 433.9 | 440.5 | 446.1 | 453.6 | 463.0 |
| 40°    | 403.0 | 403.0 | 403.0 | 409.5 | 412.4 | 417.0 | 416.1 | 424.5 | 430.2 | 437.7 | 448.9 |
| 42.5°  | 384.2 | 383.3 | 383.3 | 389.9 | 394.6 | 398.3 | 398.3 | 406.7 | 414.2 | 422.7 | 433.9 |
| 45°    | 363.6 | 363.6 | 362.7 | 370.2 | 374.9 | 378.6 | 379.6 | 388.9 | 397.4 | 406.7 | 418.9 |
| 47.5°  | 343.0 | 342.1 | 342.1 | 350.5 | 355.2 | 359.9 | 360.8 | 372.1 | 380.5 | 390.8 | 403.9 |
| 50°    | 320.5 | 320.5 | 320.5 | 329.9 | 335.5 | 339.3 | 342.1 | 353.3 | 362.7 | 373.9 | 388.0 |
| 52.5°  | 298.0 | 299.0 | 299.0 | 308.3 | 315.8 | 319.6 | 323.3 | 335.5 | 345.8 | 357.1 | 372.1 |
| 55°    | 275.5 | 276.5 | 277.4 | 287.7 | 295.2 | 299.9 | 304.6 | 316.8 | 328.9 | 340.2 | 356.1 |
| 57.5°  | 252.1 | 254.0 | 254.9 | 266.2 | 275.5 | 280.2 | 284.9 | 299.0 | 311.1 | 323.3 | 339.3 |
| 60°    | 227.7 | 230.5 | 233.4 | 244.6 | 254.9 | 260.5 | 266.2 | 280.2 | 293.3 | 307.4 | 322.4 |
| 62.5°  | 203.4 | 207.1 | 209.9 | 223.0 | 234.3 | 240.9 | 247.4 | 261.5 | 275.5 | 289.6 | 305.5 |
| 65°    | 179.0 | 182.7 | 186.5 | 201.5 | 215.6 | 221.2 | 228.7 | 243.7 | 257.7 | 272.7 | 288.7 |
| 67.5°  | 155.6 | 160.3 | 165.9 | 180.9 | 194.9 | 201.5 | 209.9 | 225.9 | 240.9 | 254.9 | 270.8 |
| 70°    | 132.1 | 136.8 | 144.3 | 160.3 | 175.3 | 181.8 | 189.3 | 208.1 | 223.0 | 237.1 | 251.2 |
| 72.5°  | 109.6 | 115.3 | 124.6 | 141.5 | 157.4 | 164.0 | 171.5 | 188.4 | 204.3 | 217.4 | 230.5 |
| 75°    | 87.2  | 93.7  | 105.0 | 121.8 | 138.7 | 146.2 | 154.6 | 169.6 | 182.7 | 194.9 | 208.1 |
| 77.5°  | 66.5  | 73.1  | 87.2  | 105.0 | 120.9 | 128.4 | 135.9 | 150.9 | 163.1 | 173.4 | 183.7 |
| 80°    | 47.8  | 54.4  | 69.4  | 87.2  | 103.1 | 109.6 | 116.2 | 129.3 | 140.6 | 150.9 | 161.2 |
| 82.5°  | 30.0  | 38.4  | 53.4  | 70.3  | 84.3  | 90.0  | 96.5  | 108.7 | 120.0 | 129.3 | 139.6 |
| 85°    | 15.0  | 24.4  | 38.4  | 52.5  | 64.7  | 70.3  | 76.8  | 88.1  | 99.3  | 108.7 | 119.0 |
| 87.5°  | 4.7   | 13.1  | 23.4  | 36.5  | 47.8  | 52.5  | 58.1  | 69.4  | 79.7  | 89.0  | 98.4  |
| 90°    | 0.9   | 4.7   | 13.1  | 23.4  | 33.7  | 38.4  | 44.0  | 54.4  | 63.7  | 73.1  | 82.5  |
| 92.5°  | 0.0   | 2.8   | 10.3  | 19.7  | 29.1  | 33.7  | 39.4  | 48.7  | 59.0  | 67.5  | 76.8  |
| 95°    | 0.0   | 0.9   | 7.5   | 15.9  | 25.3  | 30.0  | 34.7  | 44.0  | 54.4  | 62.8  | 71.2  |
| 97.5°  | 0.0   | 0.0   | 4.7   | 13.1  | 21.6  | 26.2  | 30.9  | 40.3  | 48.7  | 58.1  | 66.5  |
| 100°   | 0.0   | 0.0   | 2.8   | 10.3  | 18.7  | 22.5  | 27.2  | 35.6  | 45.0  | 52.5  | 60.9  |
| 102.5° | 0.0   | 0.0   | 1.9   | 7.5   | 15.0  | 18.7  | 23.4  | 31.9  | 40.3  | 47.8  | 56.2  |
| 105°   | 0.0   | 0.0   | 0.9   | 5.6   | 12.2  | 15.9  | 19.7  | 28.1  | 36.5  | 44.0  | 51.5  |
| 107.5° | 0.0   | 0.0   | 0.0   | 2.8   | 9.4   | 13.1  | 16.9  | 24.4  | 31.9  | 39.4  | 45.9  |
| 110°   | 0.0   | 0.0   | 0.0   | 0.9   | 6.6   | 10.3  | 14.1  | 20.6  | 28.1  | 34.7  | 41.2  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 25°  | 30°  | 35°  | 40°  | 45°  |
|--------|-----|-----|-----|-----|-----|-------|------|------|------|------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 4.7 | 7.5   | 10.3 | 17.8 | 24.4 | 30.9 | 37.5 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 4.7   | 7.5  | 14.1 | 20.6 | 27.2 | 32.8 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 2.8   | 4.7  | 11.2 | 16.9 | 22.5 | 29.1 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9   | 2.8  | 7.5  | 14.1 | 18.7 | 24.4 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.9  | 4.7  | 10.3 | 15.9 | 20.6 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 2.8  | 7.5  | 12.2 | 16.9 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.9  | 3.7  | 8.4  | 13.1 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.9  | 4.7  | 9.4  |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 1.9  | 5.6  |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 1.9  |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |



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**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 |
| 2.5°   | 584.8 | 583.9 | 582.9 | 579.2 | 580.1 | 576.4 | 572.6 | 575.4 | 580.1 | 577.3 |
| 5°     | 582.9 | 582.0 | 582.0 | 579.2 | 580.1 | 576.4 | 572.6 | 576.4 | 582.0 | 579.2 |
| 7.5°   | 581.0 | 580.1 | 580.1 | 578.2 | 579.2 | 576.4 | 572.6 | 576.4 | 582.0 | 579.2 |
| 10°    | 577.3 | 577.3 | 577.3 | 574.5 | 575.4 | 572.6 | 568.9 | 572.6 | 577.3 | 574.5 |
| 12.5°  | 572.6 | 572.6 | 573.6 | 570.7 | 572.6 | 568.9 | 566.1 | 569.8 | 575.4 | 571.7 |
| 15°    | 567.0 | 567.0 | 568.9 | 567.0 | 567.9 | 566.1 | 562.3 | 567.0 | 572.6 | 569.8 |
| 17.5°  | 558.6 | 560.4 | 562.3 | 561.4 | 562.3 | 560.4 | 557.6 | 561.4 | 567.9 | 564.2 |
| 20°    | 550.1 | 552.9 | 554.8 | 553.9 | 554.8 | 552.9 | 551.1 | 554.8 | 561.4 | 557.6 |
| 22.5°  | 539.8 | 542.6 | 545.4 | 545.4 | 546.4 | 545.4 | 543.6 | 547.3 | 553.9 | 550.1 |
| 25°    | 529.5 | 533.3 | 537.0 | 537.0 | 537.9 | 537.0 | 536.1 | 540.8 | 547.3 | 543.6 |
| 27.5°  | 518.3 | 522.9 | 526.7 | 527.6 | 528.6 | 528.6 | 528.6 | 532.3 | 538.9 | 535.1 |
| 30°    | 506.1 | 510.8 | 516.4 | 517.3 | 519.2 | 519.2 | 519.2 | 523.9 | 530.4 | 526.7 |
| 32.5°  | 493.9 | 499.5 | 505.1 | 507.9 | 508.9 | 509.8 | 510.8 | 515.4 | 522.0 | 518.3 |
| 35°    | 479.8 | 486.4 | 493.9 | 495.8 | 498.6 | 499.5 | 501.4 | 505.1 | 512.6 | 509.8 |
| 37.5°  | 466.7 | 475.1 | 482.6 | 486.4 | 488.3 | 490.1 | 493.0 | 495.8 | 503.3 | 500.5 |
| 40°    | 453.6 | 462.0 | 470.5 | 475.1 | 477.0 | 479.8 | 481.7 | 486.4 | 493.0 | 490.1 |
| 42.5°  | 439.5 | 448.9 | 458.3 | 463.0 | 465.8 | 467.7 | 471.4 | 475.1 | 481.7 | 479.8 |
| 45°    | 425.5 | 435.8 | 445.2 | 450.8 | 452.7 | 456.4 | 460.2 | 463.9 | 470.5 | 468.6 |
| 47.5°  | 410.5 | 421.7 | 431.1 | 437.7 | 440.5 | 444.2 | 448.0 | 451.7 | 458.3 | 456.4 |
| 50°    | 394.6 | 406.7 | 417.0 | 423.6 | 426.4 | 431.1 | 435.8 | 439.5 | 445.2 | 444.2 |
| 52.5°  | 380.5 | 391.7 | 403.0 | 410.5 | 413.3 | 418.0 | 422.7 | 426.4 | 432.0 | 431.1 |
| 55°    | 363.6 | 376.7 | 388.0 | 395.5 | 399.2 | 403.9 | 409.5 | 413.3 | 418.9 | 417.0 |
| 57.5°  | 348.6 | 360.8 | 373.0 | 380.5 | 384.2 | 388.9 | 395.5 | 399.2 | 403.0 | 403.0 |
| 60°    | 331.8 | 344.9 | 357.1 | 365.5 | 368.3 | 373.9 | 379.6 | 382.4 | 387.1 | 387.1 |
| 62.5°  | 314.9 | 328.0 | 340.2 | 347.7 | 350.5 | 356.1 | 361.7 | 363.6 | 368.3 | 367.4 |
| 65°    | 298.0 | 310.2 | 321.5 | 328.9 | 331.8 | 336.4 | 342.1 | 343.9 | 347.7 | 347.7 |
| 67.5°  | 279.3 | 291.5 | 301.8 | 308.3 | 310.2 | 315.8 | 320.5 | 321.5 | 325.2 | 325.2 |
| 70°    | 259.6 | 269.9 | 279.3 | 285.8 | 287.7 | 292.4 | 297.1 | 298.0 | 301.8 | 301.8 |
| 72.5°  | 238.0 | 247.4 | 255.8 | 262.4 | 265.2 | 269.0 | 272.7 | 273.7 | 276.5 | 277.4 |
| 75°    | 215.6 | 224.0 | 232.4 | 239.0 | 240.9 | 244.6 | 248.4 | 249.3 | 252.1 | 253.0 |
| 77.5°  | 191.2 | 200.6 | 209.0 | 215.6 | 217.4 | 221.2 | 224.9 | 225.9 | 227.7 | 228.7 |
| 80°    | 168.7 | 176.2 | 184.6 | 190.2 | 192.1 | 195.9 | 200.6 | 202.4 | 204.3 | 206.2 |
| 82.5°  | 147.1 | 154.6 | 162.1 | 167.8 | 169.6 | 173.4 | 177.1 | 179.0 | 180.9 | 181.8 |
| 85°    | 126.5 | 134.0 | 140.6 | 146.2 | 148.1 | 151.8 | 155.6 | 157.4 | 159.3 | 160.3 |
| 87.5°  | 105.9 | 113.4 | 120.0 | 126.5 | 128.4 | 132.1 | 135.9 | 138.7 | 138.7 | 140.6 |
| 90°    | 90.0  | 96.5  | 104.0 | 109.6 | 111.5 | 114.3 | 118.1 | 120.9 | 121.8 | 122.8 |
| 92.5°  | 83.4  | 90.9  | 97.5  | 103.1 | 105.9 | 108.7 | 112.5 | 114.3 | 115.3 | 116.2 |
| 95°    | 78.7  | 85.3  | 91.8  | 97.5  | 99.3  | 103.1 | 105.9 | 108.7 | 109.6 | 110.6 |
| 97.5°  | 73.1  | 79.7  | 86.2  | 91.8  | 93.7  | 96.5  | 100.3 | 102.2 | 103.1 | 104.0 |
| 100°   | 68.4  | 75.0  | 80.6  | 86.2  | 88.1  | 90.9  | 94.7  | 96.5  | 97.5  | 98.4  |
| 102.5° | 62.8  | 69.4  | 75.0  | 80.6  | 82.5  | 85.3  | 88.1  | 90.9  | 91.8  | 91.8  |
| 105°   | 58.1  | 63.7  | 69.4  | 75.0  | 76.8  | 78.7  | 82.5  | 84.3  | 85.3  | 86.2  |
| 107.5° | 52.5  | 59.0  | 63.7  | 69.4  | 71.2  | 73.1  | 75.9  | 78.7  | 79.7  | 79.7  |
| 110°   | 47.8  | 53.4  | 58.1  | 62.8  | 65.6  | 67.5  | 70.3  | 72.2  | 73.1  | 74.0  |





TEST NUMBER: P257641

CATALOG NUMBER: 4ST1L2040R

**CANDELA DISTRIBUTION (continued):**

|        | 50°  | 55°  | 60°  | 65°  | 67.5° | 70°  | 75°  | 80°  | 85°  | 90°  |
|--------|------|------|------|------|-------|------|------|------|------|------|
| 112.5° | 43.1 | 48.7 | 53.4 | 58.1 | 60.0  | 61.9 | 64.7 | 66.5 | 67.5 | 68.4 |
| 115°   | 38.4 | 44.0 | 47.8 | 52.5 | 54.4  | 56.2 | 59.0 | 60.9 | 61.9 | 61.9 |
| 117.5° | 33.7 | 38.4 | 43.1 | 46.9 | 48.7  | 50.6 | 53.4 | 55.3 | 56.2 | 56.2 |
| 120°   | 30.0 | 33.7 | 38.4 | 42.2 | 43.1  | 45.0 | 47.8 | 49.7 | 50.6 | 50.6 |
| 122.5° | 25.3 | 30.0 | 32.8 | 36.5 | 38.4  | 40.3 | 42.2 | 44.0 | 45.0 | 45.0 |
| 125°   | 20.6 | 25.3 | 28.1 | 31.9 | 33.7  | 34.7 | 36.5 | 38.4 | 39.4 | 39.4 |
| 127.5° | 16.9 | 20.6 | 24.4 | 27.2 | 28.1  | 30.0 | 31.9 | 33.7 | 33.7 | 33.7 |
| 130°   | 13.1 | 16.9 | 19.7 | 22.5 | 23.4  | 25.3 | 27.2 | 28.1 | 29.1 | 29.1 |
| 132.5° | 9.4  | 12.2 | 15.0 | 17.8 | 19.7  | 20.6 | 22.5 | 23.4 | 24.4 | 24.4 |
| 135°   | 5.6  | 8.4  | 11.2 | 14.1 | 15.0  | 15.9 | 17.8 | 18.7 | 18.7 | 19.7 |
| 137.5° | 1.9  | 4.7  | 7.5  | 9.4  | 10.3  | 11.2 | 13.1 | 14.1 | 15.0 | 15.0 |
| 140°   | 0.0  | 1.9  | 3.7  | 5.6  | 6.6   | 7.5  | 8.4  | 9.4  | 10.3 | 10.3 |
| 142.5° | 0.0  | 0.0  | 0.9  | 1.9  | 2.8   | 3.7  | 4.7  | 5.6  | 5.6  | 6.6  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.9  | 0.9  | 1.9  | 1.9  | 2.8  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

(END OF REPORT)