

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: P551653

Luminaire Tested: **FCC-X-2-LD4-2LO-50-UNV-80-97-ED1D-90**

Issue Date: 7/9/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P551653  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-248-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FCC-X-2-LD4-2LO-50-UNV-80-97-ED1D-90  
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 5000K, AND 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

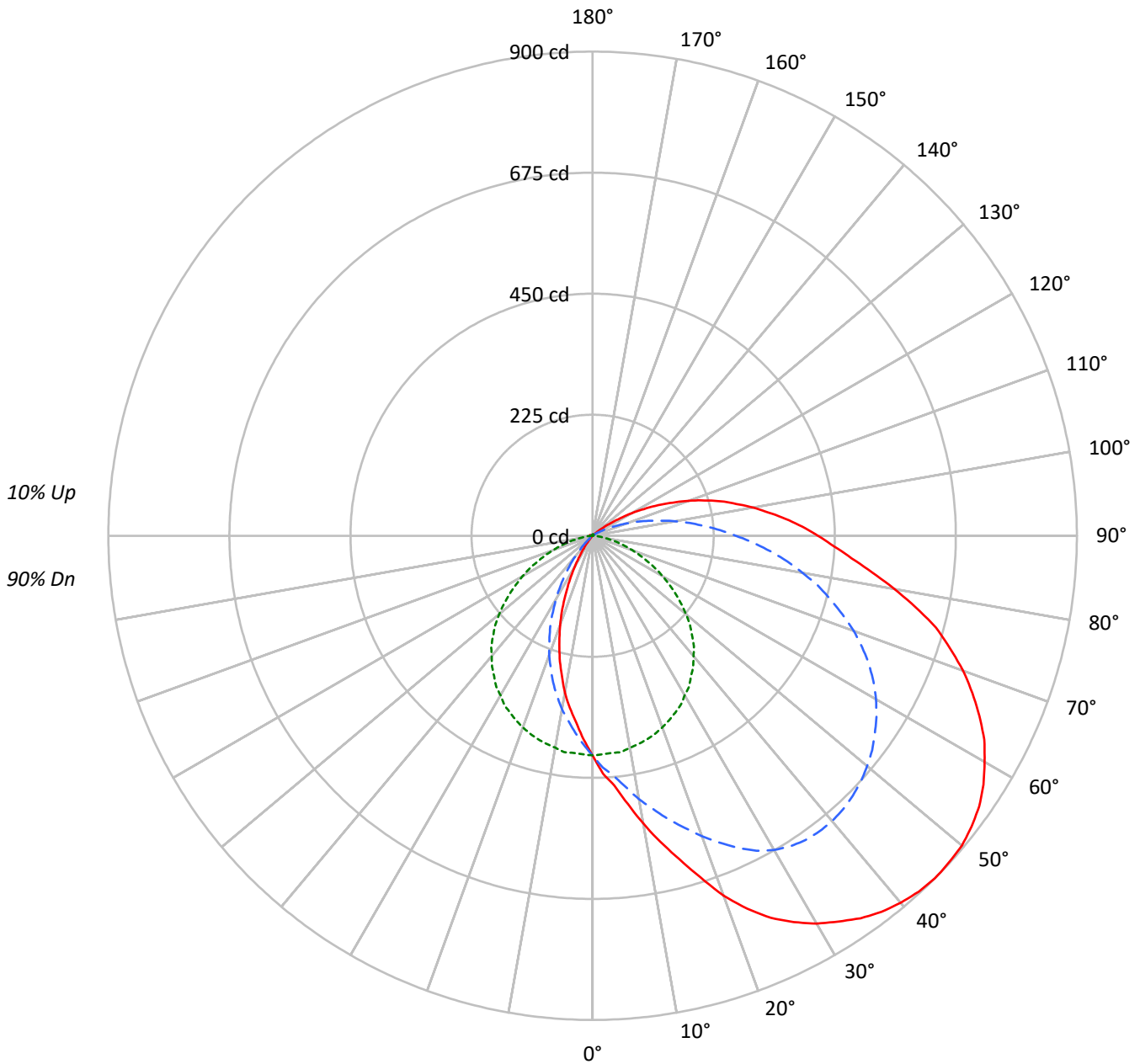
Lumens per Lamp: N/A  
Luminaire Lumens: 2018.1 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')  
CIE Type: Semi-Direct

Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P551653

CATALOG NUMBER: FCC-X-2-LD4-2LO-50-UNV-80-97-ED1D-90

### Luminous Intensity Polar Plot





TEST NUMBER: P551653

CATALOG NUMBER: FCC-X-2-LD4-2LO-50-UNV-80-97-ED1D-90

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 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 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |
| 0   | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 105 | 105 | 105 | 99 | 99 | 99 | 93 | 93 | 93 | 93 | 93 | 93 | 90 |
| 1   | 103 | 96  | 91  | 86  | 99  | 93  | 88  | 83  | 87  | 83  | 79  | 81 | 78 | 74 | 76 | 73 | 70 | 76 | 73 | 70 | 67 |
| 2   | 92  | 82  | 74  | 67  | 88  | 79  | 72  | 65  | 74  | 67  | 62  | 69 | 64 | 59 | 64 | 60 | 56 | 64 | 60 | 56 | 53 |
| 3   | 83  | 71  | 61  | 54  | 79  | 68  | 60  | 53  | 64  | 56  | 50  | 59 | 53 | 48 | 55 | 50 | 46 | 55 | 50 | 46 | 43 |
| 4   | 75  | 62  | 52  | 44  | 72  | 60  | 51  | 44  | 56  | 48  | 42  | 52 | 45 | 40 | 49 | 43 | 38 | 49 | 43 | 38 | 36 |
| 5   | 69  | 55  | 45  | 38  | 66  | 53  | 44  | 37  | 50  | 42  | 35  | 46 | 39 | 34 | 43 | 38 | 33 | 43 | 38 | 33 | 30 |
| 6   | 63  | 49  | 39  | 32  | 61  | 47  | 38  | 32  | 44  | 36  | 31  | 42 | 35 | 29 | 39 | 33 | 28 | 39 | 33 | 28 | 26 |
| 7   | 58  | 44  | 35  | 28  | 56  | 43  | 34  | 28  | 40  | 32  | 27  | 38 | 31 | 26 | 36 | 29 | 25 | 36 | 29 | 25 | 23 |
| 8   | 54  | 40  | 31  | 25  | 52  | 39  | 30  | 24  | 37  | 29  | 24  | 34 | 28 | 23 | 32 | 26 | 22 | 32 | 26 | 22 | 20 |
| 9   | 51  | 36  | 28  | 22  | 49  | 35  | 27  | 22  | 33  | 26  | 21  | 32 | 25 | 20 | 30 | 24 | 20 | 30 | 24 | 20 | 18 |
| 10  | 47  | 33  | 25  | 20  | 45  | 33  | 25  | 19  | 31  | 24  | 19  | 29 | 23 | 18 | 28 | 22 | 18 | 28 | 22 | 18 | 16 |

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

|     | 0°   | 90°  | 180° |
|-----|------|------|------|
| 0°  | 4394 | 4394 | 4394 |
| 5°  | 4823 | 4330 | 3612 |
| 10° | 5458 | 4277 | 2977 |
| 15° | 6116 | 4222 | 2320 |
| 20° | 6899 | 4154 | 1709 |
| 25° | 7547 | 4074 | 1122 |
| 30° | 8029 | 3967 | 632  |
| 35° | 8447 | 3852 | 278  |
| 40° | 8817 | 3710 | 67   |
| 45° | 9134 | 3532 | 0    |
| 50° | 9401 | 3297 | 0    |
| 55° | 9604 | 2997 | 0    |
| 60° | 9706 | 2651 | 0    |
| 65° | 9747 | 2256 | 0    |
| 70° | 9714 | 1839 | 0    |
| 75° | 9590 | 1356 | 7    |
| 80° | 9202 | 831  | 42   |
| 85° | 8894 | 397  | 57   |



TEST NUMBER: P551653

CATALOG NUMBER: FCC-X-2-LD4-2LO-50-UNV-80-97-ED1D-90

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.1   | 1.9       |
| 10°-20°   | 117.1  | 5.8       |
| 20°-30°   | 189.6  | 9.4       |
| 30°-40°   | 243.5  | 12.1      |
| 40°-50°   | 275.7  | 13.7      |
| 50°-60°   | 285.6  | 14.2      |
| 60°-70°   | 269.4  | 13.3      |
| 70°-80°   | 225.7  | 11.2      |
| 80°-90°   | 163.6  | 8.1       |
| 90°-100°  | 107.5  | 5.3       |
| 100°-110° | 62.1   | 3.1       |
| 110°-120° | 27.4   | 1.4       |
| 120°-130° | 7.4    | 0.4       |
| 130°-140° | 1.7    | 0.1       |
| 140°-150° | 1.1    | 0.1       |
| 150°-160° | 0.8    | 0.0       |
| 160°-170° | 0.4    | 0.0       |
| 170°-180° | 0.2    | 0.0       |
| 0°-30°    | 345.8  | 17.1      |
| 0°-40°    | 589.3  | 29.2      |
| 0°-60°    | 1150.6 | 57.0      |
| 0°-90°    | 1809.3 | 89.7      |
| 90°-120°  | 197.1  | 9.8       |
| 90°-150°  | 207.4  | 10.3      |
| 90°-180°  | 209.0  | 10.4      |
| 0°-180°   | 2018.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0°   | 408 | 408 | 408 | 408  | 408  |      |
| 5°   | 466 | 447 | 405 | 368  | 349  | 47   |
| 15°  | 622 | 546 | 392 | 283  | 236  | 179  |
| 25°  | 784 | 640 | 363 | 186  | 116  | 362  |
| 35°  | 868 | 690 | 319 | 90   | 29   | 544  |
| 45°  | 900 | 684 | 261 | 21   | 0    | 695  |
| 55°  | 877 | 640 | 188 | 0    | 0    | 783  |
| 65°  | 793 | 567 | 112 | 0    | 0    | 785  |
| 75°  | 661 | 457 | 48  | 0    | 0    | 693  |
| 85°  | 484 | 332 | 8   | 2    | 3    | 413  |
| 90°  | 419 | 266 | 2   | 3    | 4    | 230  |
| 95°  | 360 | 208 | 1   | 4    | 5    | 282  |
| 105° | 248 | 107 | 1   | 3    | 4    | 261  |
| 115° | 135 | 36  | 2   | 2    | 3    | 135  |
| 125° | 40  | 5   | 2   | 2    | 2    | 40   |
| 135° | 2   | 2   | 3   | 2    | 2    | 4    |
| 145° | 0   | 2   | 2   | 2    | 2    | 0    |
| 155° | 1   | 2   | 2   | 2    | 0    | 0    |
| 165° | 1   | 2   | 2   | 2    | 0    | 0    |
| 175° | 1   | 2   | 3   | 2    | 0    | 0    |
| 180° | 2   | 2   | 2   | 2    | 2    |      |



TEST NUMBER: P551653

CATALOG NUMBER: FCC-X-2-LD4-2LO-50-UNV-80-97-ED1D-90

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 30°   | 40°   | 50°   | 60°   | 70°   | 80°   | 90°   | 112.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 408.2 | 408.2 | 408.2 | 408.2 | 408.2 | 408.2 | 408.2 | 408.2 | 408.2 | 408.2 | 408.2  |
| 2.5°   | 442.5 | 442.0 | 440.4 | 437.8 | 434.2 | 428.0 | 422.8 | 418.1 | 411.8 | 406.6 | 396.8  |
| 5°     | 465.9 | 463.3 | 461.2 | 458.6 | 450.3 | 444.6 | 435.2 | 424.8 | 415.0 | 405.1 | 385.3  |
| 7.5°   | 503.4 | 499.2 | 496.1 | 488.8 | 477.4 | 464.4 | 449.8 | 439.9 | 433.2 | 405.6 | 371.8  |
| 10°    | 543.4 | 539.8 | 533.5 | 520.5 | 506.5 | 487.8 | 467.0 | 443.6 | 422.8 | 399.9 | 359.8  |
| 12.5°  | 582.9 | 577.7 | 568.9 | 552.2 | 532.5 | 509.1 | 480.5 | 452.9 | 423.3 | 396.2 | 345.8  |
| 15°    | 622.4 | 616.7 | 607.3 | 587.1 | 561.1 | 530.4 | 495.6 | 460.7 | 425.9 | 391.6 | 331.2  |
| 17.5°  | 665.6 | 657.8 | 643.7 | 620.9 | 588.1 | 550.2 | 509.1 | 467.0 | 424.8 | 385.8 | 315.6  |
| 20°    | 711.9 | 700.9 | 685.9 | 655.2 | 616.7 | 572.0 | 522.6 | 473.2 | 424.3 | 379.1 | 298.0  |
| 22.5°  | 750.3 | 739.4 | 722.8 | 691.1 | 644.8 | 590.2 | 534.0 | 477.4 | 422.2 | 371.3 | 281.3  |
| 25°    | 783.6 | 774.8 | 756.6 | 720.2 | 671.3 | 609.4 | 545.0 | 480.5 | 419.1 | 363.0 | 263.6  |
| 27.5°  | 809.6 | 801.3 | 781.0 | 743.6 | 693.7 | 626.6 | 553.3 | 482.0 | 415.0 | 354.6 | 245.4  |
| 30°    | 832.5 | 824.2 | 799.7 | 761.3 | 708.7 | 640.1 | 561.6 | 482.6 | 409.8 | 342.2 | 225.7  |
| 32.5°  | 850.2 | 842.4 | 817.4 | 776.3 | 719.1 | 649.5 | 566.3 | 482.0 | 403.0 | 333.3 | 204.4  |
| 35°    | 867.9 | 860.1 | 830.9 | 787.3 | 726.9 | 653.6 | 569.9 | 479.4 | 394.7 | 318.8 | 184.1  |
| 37.5°  | 881.4 | 872.5 | 842.9 | 794.5 | 730.6 | 654.7 | 569.4 | 475.8 | 385.8 | 306.8 | 163.8  |
| 40°    | 890.7 | 881.4 | 849.7 | 798.7 | 731.6 | 653.1 | 565.2 | 469.6 | 375.4 | 291.7 | 142.5  |
| 42.5°  | 897.0 | 886.6 | 852.8 | 804.9 | 729.5 | 648.9 | 559.0 | 461.8 | 364.0 | 278.7 | 122.2  |
| 45°    | 900.1 | 889.2 | 853.3 | 799.7 | 725.9 | 641.1 | 549.6 | 451.9 | 351.5 | 261.0 | 101.9  |
| 47.5°  | 898.5 | 886.6 | 850.7 | 794.0 | 719.1 | 632.8 | 539.2 | 439.9 | 336.4 | 245.4 | 82.7   |
| 50°    | 895.9 | 883.5 | 845.0 | 786.7 | 709.8 | 622.4 | 527.8 | 425.4 | 320.8 | 226.2 | 65.5   |
| 52.5°  | 887.6 | 875.1 | 838.7 | 776.3 | 698.9 | 610.5 | 512.2 | 410.3 | 304.2 | 207.5 | 49.9   |
| 55°    | 877.2 | 865.8 | 827.8 | 767.0 | 684.8 | 595.9 | 497.6 | 394.2 | 288.1 | 188.2 | 35.9   |
| 57.5°  | 861.1 | 850.7 | 814.3 | 751.9 | 670.8 | 579.8 | 481.5 | 376.5 | 267.8 | 169.0 | 25.0   |
| 60°    | 841.3 | 830.9 | 795.6 | 734.7 | 654.7 | 561.6 | 463.8 | 358.3 | 249.6 | 149.8 | 15.6   |
| 62.5°  | 820.5 | 810.7 | 773.7 | 713.4 | 634.4 | 542.4 | 444.6 | 340.1 | 230.4 | 132.1 | 9.4    |
| 65°    | 793.0 | 783.6 | 750.3 | 687.9 | 612.0 | 521.6 | 423.3 | 318.2 | 210.6 | 112.3 | 5.2    |
| 67.5°  | 763.9 | 755.5 | 721.7 | 664.5 | 586.0 | 498.7 | 401.4 | 296.9 | 189.8 | 95.2  | 2.6    |
| 70°    | 732.7 | 722.3 | 691.1 | 632.8 | 559.5 | 472.7 | 377.5 | 275.1 | 170.0 | 78.5  | 0.0    |
| 72.5°  | 696.3 | 688.5 | 658.3 | 603.2 | 528.8 | 445.1 | 353.1 | 251.2 | 148.2 | 62.4  | 0.5    |
| 75°    | 660.9 | 651.0 | 623.5 | 571.5 | 498.7 | 416.0 | 326.0 | 228.8 | 126.9 | 47.8  | 0.5    |
| 77.5°  | 615.1 | 612.0 | 586.0 | 535.6 | 470.1 | 387.9 | 296.4 | 201.8 | 106.6 | 34.3  | 0.5    |
| 80°    | 569.4 | 566.3 | 546.0 | 499.7 | 436.8 | 354.6 | 268.8 | 176.3 | 86.8  | 22.9  | 0.5    |
| 82.5°  | 524.2 | 520.0 | 500.8 | 462.3 | 403.0 | 326.6 | 240.2 | 150.8 | 68.6  | 14.0  | 0.5    |
| 85°    | 483.6 | 478.4 | 457.6 | 422.2 | 368.2 | 294.8 | 210.6 | 125.8 | 51.0  | 7.8   | 1.0    |
| 87.5°  | 448.8 | 445.1 | 422.2 | 385.8 | 332.8 | 265.2 | 184.6 | 101.9 | 35.9  | 3.6   | 1.6    |
| 90°    | 419.1 | 411.3 | 391.0 | 352.6 | 299.5 | 232.4 | 157.0 | 81.6  | 23.9  | 2.1   | 2.1    |
| 92.5°  | 390.0 | 383.2 | 360.9 | 321.4 | 269.9 | 204.4 | 130.5 | 62.4  | 15.1  | 1.0   | 2.6    |
| 95°    | 359.8 | 352.6 | 330.7 | 294.3 | 239.7 | 175.8 | 107.1 | 45.8  | 8.3   | 1.0   | 2.6    |
| 97.5°  | 330.2 | 323.4 | 300.6 | 264.2 | 212.7 | 150.8 | 84.8  | 32.2  | 4.2   | 1.0   | 2.1    |
| 100°   | 302.6 | 294.8 | 274.0 | 237.6 | 185.6 | 125.8 | 65.5  | 20.8  | 2.6   | 1.0   | 2.1    |
| 102.5° | 273.5 | 267.3 | 246.0 | 210.6 | 157.6 | 102.4 | 48.9  | 13.0  | 1.0   | 1.0   | 1.6    |
| 105°   | 247.5 | 239.7 | 218.9 | 182.5 | 134.2 | 80.6  | 34.3  | 7.8   | 1.0   | 1.0   | 1.6    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 30°   | 40°  | 50°  | 60° | 70° | 80° | 90° | 112.5° |
|--------|-------|-------|-------|-------|------|------|-----|-----|-----|-----|--------|
| 112.5° | 161.2 | 155.0 | 136.8 | 106.1 | 68.1 | 31.7 | 9.4 | 1.6 | 1.6 | 1.6 | 1.6    |
| 115°   | 134.7 | 125.3 | 109.2 | 82.2  | 50.4 | 20.8 | 4.7 | 1.6 | 1.6 | 1.6 | 1.6    |
| 117.5° | 107.6 | 99.8  | 88.4  | 62.4  | 33.3 | 13.5 | 2.6 | 1.6 | 1.6 | 1.6 | 1.6    |
| 120°   | 84.2  | 77.0  | 64.0  | 43.2  | 22.4 | 7.8  | 1.0 | 1.6 | 1.6 | 1.6 | 1.6    |
| 122.5° | 60.3  | 54.6  | 43.2  | 28.1  | 13.5 | 3.6  | 1.6 | 1.6 | 2.1 | 2.1 | 1.6    |
| 125°   | 40.0  | 36.9  | 28.6  | 17.2  | 8.3  | 1.6  | 1.6 | 1.6 | 2.1 | 2.1 | 1.6    |
| 127.5° | 26.0  | 23.4  | 16.6  | 9.9   | 3.6  | 1.6  | 1.6 | 2.1 | 2.1 | 2.1 | 1.6    |
| 130°   | 14.6  | 13.0  | 9.9   | 5.7   | 1.6  | 1.6  | 1.6 | 2.1 | 2.1 | 2.1 | 1.6    |
| 132.5° | 8.3   | 7.8   | 5.2   | 1.0   | 1.6  | 1.6  | 1.6 | 2.1 | 2.1 | 2.1 | 2.1    |
| 135°   | 2.1   | 1.0   | 1.0   | 1.0   | 1.6  | 1.6  | 2.1 | 2.1 | 2.6 | 2.6 | 2.1    |
| 137.5° | 0.5   | 0.5   | 1.0   | 1.0   | 1.6  | 1.6  | 2.1 | 2.6 | 2.6 | 2.6 | 2.1    |
| 140°   | 0.5   | 0.5   | 1.0   | 1.6   | 1.6  | 1.6  | 2.1 | 2.6 | 2.6 | 2.6 | 2.1    |
| 142.5° | 0.5   | 1.0   | 1.0   | 1.6   | 1.6  | 2.1  | 2.1 | 2.6 | 2.6 | 2.1 | 2.1    |
| 145°   | 0.5   | 1.0   | 1.0   | 1.6   | 1.6  | 2.1  | 2.1 | 2.6 | 2.1 | 2.1 | 2.1    |
| 147.5° | 1.0   | 1.0   | 1.0   | 1.6   | 1.6  | 2.1  | 2.1 | 2.6 | 2.6 | 2.1 | 2.1    |
| 150°   | 0.5   | 1.0   | 1.0   | 1.6   | 2.1  | 2.1  | 2.1 | 2.6 | 2.1 | 2.1 | 2.1    |
| 152.5° | 0.5   | 1.0   | 1.0   | 1.6   | 2.1  | 2.1  | 2.1 | 2.6 | 2.1 | 2.1 | 2.1    |
| 155°   | 1.0   | 1.0   | 1.0   | 1.6   | 2.1  | 2.1  | 2.1 | 2.6 | 2.1 | 2.1 | 2.6    |
| 157.5° | 1.0   | 1.0   | 1.0   | 1.6   | 2.1  | 2.1  | 2.1 | 2.6 | 2.1 | 2.1 | 2.6    |
| 160°   | 1.0   | 1.0   | 1.0   | 1.6   | 1.6  | 2.1  | 2.1 | 2.1 | 2.1 | 2.1 | 2.1    |
| 162.5° | 1.0   | 1.0   | 1.0   | 1.6   | 1.6  | 2.1  | 2.1 | 2.1 | 2.1 | 2.1 | 2.1    |
| 165°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.6  | 1.6  | 2.1 | 2.1 | 2.1 | 2.1 | 2.1    |
| 167.5° | 1.0   | 1.0   | 1.0   | 1.6   | 1.6  | 1.6  | 2.1 | 2.1 | 2.1 | 2.1 | 2.1    |
| 170°   | 1.0   | 1.0   | 1.0   | 1.6   | 1.6  | 1.6  | 2.1 | 2.6 | 2.6 | 2.6 | 2.6    |
| 172.5° | 1.0   | 1.0   | 1.0   | 1.6   | 1.6  | 2.1  | 2.1 | 2.6 | 2.6 | 2.6 | 2.6    |
| 175°   | 1.0   | 1.0   | 1.0   | 1.6   | 1.6  | 2.1  | 2.1 | 2.6 | 2.6 | 2.6 | 2.6    |
| 177.5° | 0.5   | 1.0   | 1.0   | 1.6   | 1.6  | 2.1  | 2.1 | 2.6 | 2.6 | 2.6 | 2.1    |
| 180°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6  | 1.6  | 1.6 | 1.6 | 1.6 | 1.6 | 1.6    |



TEST NUMBER: P551653

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**CANDELA DISTRIBUTION (continued):**

|        | 135°  | 157.5° | 180°  |
|--------|-------|--------|-------|
| 0°     | 408.2 | 408.2  | 408.2 |
| 2.5°   | 388.4 | 381.2  | 379.1 |
| 5°     | 367.6 | 355.7  | 348.9 |
| 7.5°   | 346.8 | 330.7  | 322.9 |
| 10°    | 327.6 | 304.7  | 296.4 |
| 12.5°  | 304.7 | 278.2  | 265.2 |
| 15°    | 282.9 | 248.6  | 236.1 |
| 17.5°  | 258.4 | 220.0  | 205.4 |
| 20°    | 235.6 | 191.4  | 176.3 |
| 22.5°  | 209.6 | 163.3  | 146.6 |
| 25°    | 186.2 | 135.2  | 116.5 |
| 27.5°  | 160.2 | 106.6  | 90.5  |
| 30°    | 135.7 | 81.6   | 65.5  |
| 32.5°  | 112.3 | 59.8   | 45.2  |
| 35°    | 90.5  | 40.6   | 28.6  |
| 37.5°  | 69.7  | 25.0   | 14.6  |
| 40°    | 50.4  | 13.0   | 6.8   |
| 42.5°  | 33.8  | 6.2    | 3.6   |
| 45°    | 20.8  | 3.1    | 0.0   |
| 47.5°  | 12.0  | 0.0    | 0.0   |
| 50°    | 6.2   | 0.0    | 0.0   |
| 52.5°  | 2.6   | 0.0    | 0.0   |
| 55°    | 0.0   | 0.0    | 0.0   |
| 57.5°  | 0.0   | 0.0    | 0.0   |
| 60°    | 0.0   | 0.0    | 0.0   |
| 62.5°  | 0.0   | 0.0    | 0.0   |
| 65°    | 0.0   | 0.0    | 0.0   |
| 67.5°  | 0.0   | 0.0    | 0.0   |
| 70°    | 0.0   | 0.0    | 0.0   |
| 72.5°  | 0.0   | 0.0    | 0.0   |
| 75°    | 0.5   | 0.5    | 0.5   |
| 77.5°  | 0.5   | 1.0    | 1.6   |
| 80°    | 1.0   | 2.1    | 2.6   |
| 82.5°  | 2.1   | 2.6    | 2.6   |
| 85°    | 2.1   | 2.6    | 3.1   |
| 87.5°  | 2.6   | 3.1    | 3.6   |
| 90°    | 3.1   | 3.6    | 3.6   |
| 92.5°  | 3.1   | 4.2    | 4.2   |
| 95°    | 3.6   | 4.2    | 4.7   |
| 97.5°  | 4.2   | 4.7    | 4.7   |
| 100°   | 3.6   | 4.7    | 5.2   |
| 102.5° | 3.1   | 4.7    | 4.7   |
| 105°   | 2.6   | 3.6    | 4.2   |





TEST NUMBER: P551653

CATALOG NUMBER: FCC-X-2-LD4-2LO-50-UNV-80-97-ED1D-90

**CANDELA DISTRIBUTION (continued):**

|        | 135° | 157.5° | 180° |
|--------|------|--------|------|
| 112.5° | 2.1  | 2.6    | 2.6  |
| 115°   | 1.6  | 2.1    | 2.6  |
| 117.5° | 1.6  | 2.1    | 2.1  |
| 120°   | 1.6  | 1.6    | 2.1  |
| 122.5° | 1.6  | 1.6    | 2.1  |
| 125°   | 1.6  | 1.6    | 2.1  |
| 127.5° | 2.1  | 1.6    | 1.6  |
| 130°   | 1.6  | 1.6    | 1.6  |
| 132.5° | 2.1  | 1.6    | 1.6  |
| 135°   | 2.1  | 1.6    | 1.6  |
| 137.5° | 2.1  | 1.6    | 1.6  |
| 140°   | 2.1  | 1.6    | 1.6  |
| 142.5° | 2.1  | 1.6    | 1.6  |
| 145°   | 1.6  | 1.6    | 1.6  |
| 147.5° | 1.6  | 1.6    | 1.6  |
| 150°   | 1.6  | 1.6    | 1.0  |
| 152.5° | 1.6  | 1.0    | 1.0  |
| 155°   | 1.6  | 1.0    | 0.5  |
| 157.5° | 2.1  | 1.0    | 0.5  |
| 160°   | 1.6  | 1.0    | 0.5  |
| 162.5° | 1.6  | 1.0    | 0.5  |
| 165°   | 1.6  | 1.0    | 0.0  |
| 167.5° | 1.6  | 1.0    | 0.5  |
| 170°   | 1.6  | 1.0    | 0.5  |
| 172.5° | 1.6  | 1.0    | 0.5  |
| 175°   | 1.6  | 0.5    | 0.5  |
| 177.5° | 1.6  | 0.5    | 0.5  |
| 180°   | 1.6  | 1.6    | 1.6  |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







|        |       |       |       |       |       |      |      |     |     |     |     |
|--------|-------|-------|-------|-------|-------|------|------|-----|-----|-----|-----|
| 107.5° | 218.4 | 212.2 | 191.4 | 157.0 | 109.7 | 61.4 | 22.9 | 4.2 | 1.0 | 1.6 | 1.6 |
| 110°   | 190.3 | 185.1 | 163.8 | 130.5 | 88.4  | 45.8 | 15.1 | 2.6 | 1.6 | 1.6 | 1.6 |







|        |     |     |     |
|--------|-----|-----|-----|
| 107.5° | 2.1 | 3.1 | 3.6 |
| 110°   | 2.1 | 2.6 | 3.1 |



(END OF REPORT)