

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: P551528

Luminaire Tested: **FCC-X-2-LD4-2LO-35-UNV-81-84-ED1D**

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: P551528  
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-35-UNV-81-84-ED1D  
Description: FCC CORNER MOUNT LUMINAIRE WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 3500K, AND 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

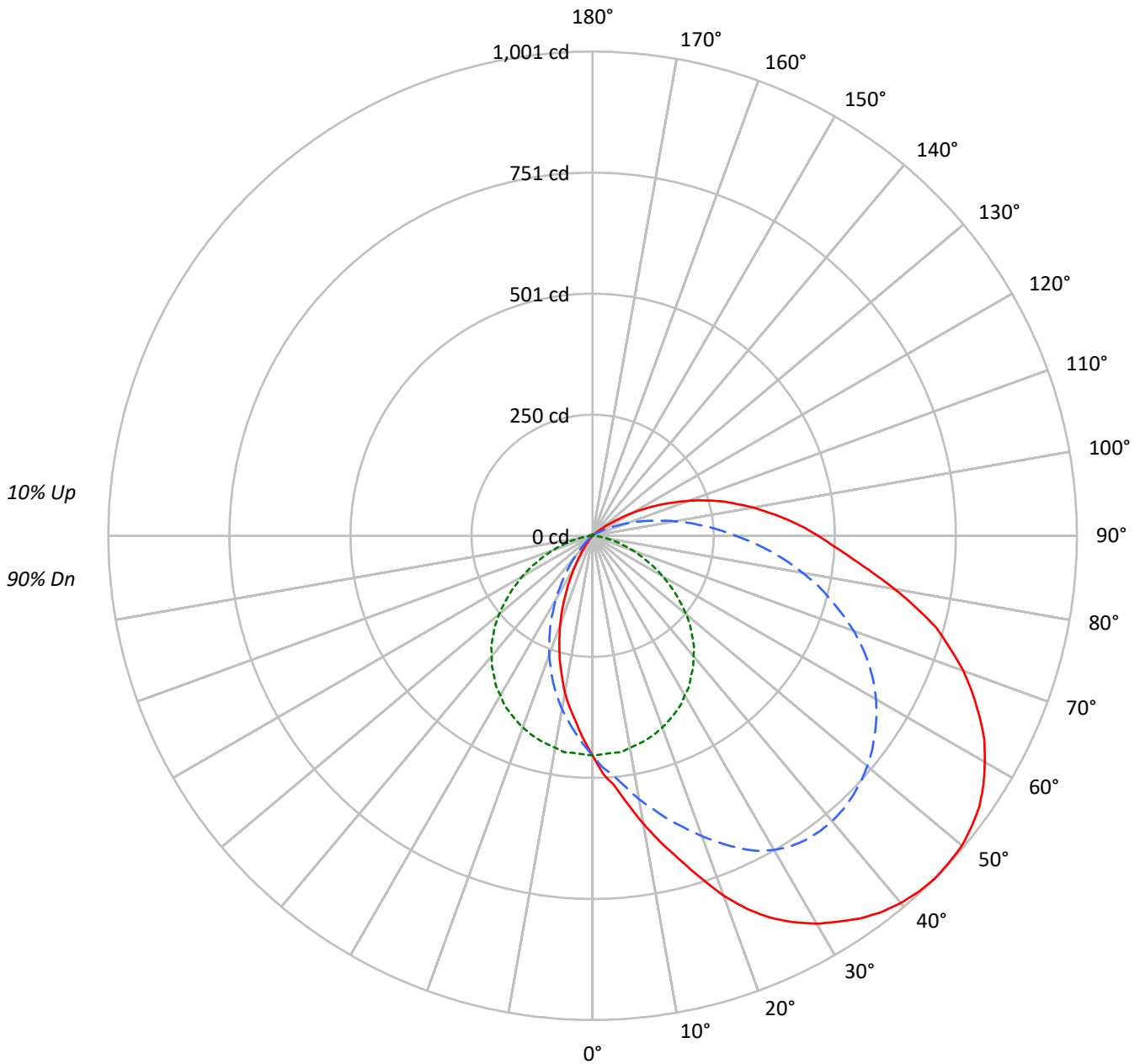
Lumens per Lamp: N/A  
Luminaire Lumens: 2244.9 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')  
CIE Type: Semi-Direct

Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (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: P551528

CATALOG NUMBER: FCC-X-2-LD4-2LO-35-UNV-81-84-ED1D

### Luminous Intensity Polar Plot





TEST NUMBER: P551528

CATALOG NUMBER: FCC-X-2-LD4-2LO-35-UNV-81-84-ED1D

**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°  | 4888  | 4888 | 4888 |
| 5°  | 5366  | 4816 | 4019 |
| 10° | 6072  | 4758 | 3312 |
| 15° | 6804  | 4697 | 2581 |
| 20° | 7674  | 4620 | 1900 |
| 25° | 8396  | 4532 | 1248 |
| 30° | 8933  | 4412 | 703  |
| 35° | 9397  | 4285 | 310  |
| 40° | 9808  | 4127 | 74   |
| 45° | 10163 | 3929 | 0    |
| 50° | 10458 | 3667 | 0    |
| 55° | 10685 | 3334 | 0    |
| 60° | 10798 | 2948 | 0    |
| 65° | 10843 | 2511 | 0    |
| 70° | 10807 | 2047 | 0    |
| 75° | 10670 | 1509 | 9    |
| 80° | 10236 | 925  | 47   |
| 85° | 9895  | 442  | 64   |



TEST NUMBER: P551528

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.5   | 1.9       |
| 10°-20°   | 130.2  | 5.8       |
| 20°-30°   | 210.9  | 9.4       |
| 30°-40°   | 270.9  | 12.1      |
| 40°-50°   | 306.7  | 13.7      |
| 50°-60°   | 317.7  | 14.2      |
| 60°-70°   | 299.7  | 13.3      |
| 70°-80°   | 251.1  | 11.2      |
| 80°-90°   | 182.0  | 8.1       |
| 90°-100°  | 119.6  | 5.3       |
| 100°-110° | 69.1   | 3.1       |
| 110°-120° | 30.5   | 1.4       |
| 120°-130° | 8.2    | 0.4       |
| 130°-140° | 1.9    | 0.1       |
| 140°-150° | 1.2    | 0.1       |
| 150°-160° | 0.9    | 0.0       |
| 160°-170° | 0.5    | 0.0       |
| 170°-180° | 0.2    | 0.0       |
| 0°-30°    | 384.7  | 17.1      |
| 0°-40°    | 655.6  | 29.2      |
| 0°-60°    | 1280.0 | 57.0      |
| 0°-90°    | 2012.8 | 89.7      |
| 90°-120°  | 219.2  | 9.8       |
| 90°-150°  | 230.6  | 10.3      |
| 90°-180°  | 232.0  | 10.3      |
| 0°-180°   | 2244.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45° | 90° | 135° | 180° | Flux |
|------|------|-----|-----|------|------|------|
| 0°   | 454  | 454 | 454 | 454  | 454  |      |
| 5°   | 518  | 498 | 451 | 409  | 388  | 52   |
| 15°  | 692  | 607 | 436 | 315  | 263  | 200  |
| 25°  | 872  | 712 | 404 | 207  | 130  | 403  |
| 35°  | 966  | 768 | 355 | 101  | 32   | 606  |
| 45°  | 1001 | 760 | 290 | 23   | 0    | 773  |
| 55°  | 976  | 712 | 209 | 0    | 0    | 871  |
| 65°  | 882  | 631 | 125 | 0    | 0    | 873  |
| 75°  | 735  | 509 | 53  | 1    | 1    | 771  |
| 85°  | 538  | 369 | 9   | 2    | 4    | 459  |
| 90°  | 466  | 296 | 2   | 4    | 4    | 256  |
| 95°  | 400  | 231 | 1   | 4    | 5    | 314  |
| 105° | 275  | 119 | 1   | 3    | 5    | 291  |
| 115° | 150  | 40  | 2   | 2    | 3    | 150  |
| 125° | 44   | 6   | 2   | 2    | 2    | 44   |
| 135° | 2    | 2   | 3   | 2    | 2    | 4    |
| 145° | 1    | 2   | 2   | 2    | 2    | 0    |
| 155° | 1    | 2   | 2   | 2    | 1    | 0    |
| 165° | 1    | 2   | 2   | 2    | 0    | 0    |
| 175° | 1    | 2   | 3   | 2    | 1    | 0    |
| 180° | 2    | 2   | 2   | 2    | 2    |      |



TEST NUMBER: P551528

CATALOG NUMBER: FCC-X-2-LD4-2LO-35-UNV-81-84-ED1D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 10°   | 20°   | 30°   | 40°   | 50°   | 60°   | 70°   | 80°   | 90°   | 112.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 454.1  | 454.1 | 454.1 | 454.1 | 454.1 | 454.1 | 454.1 | 454.1 | 454.1 | 454.1 | 454.1  |
| 2.5°   | 492.3  | 491.7 | 490.0 | 487.1 | 483.0 | 476.1 | 470.3 | 465.1 | 458.2 | 452.4 | 441.4  |
| 5°     | 518.3  | 515.4 | 513.1 | 510.2 | 501.0 | 494.6 | 484.2 | 472.6 | 461.6 | 450.6 | 428.7  |
| 7.5°   | 560.0  | 555.3 | 551.9 | 543.8 | 531.0 | 516.6 | 500.4 | 489.4 | 481.9 | 451.2 | 413.6  |
| 10°    | 604.5  | 600.5 | 593.5 | 579.1 | 563.4 | 542.6 | 519.5 | 493.4 | 470.3 | 444.9 | 400.3  |
| 12.5°  | 648.5  | 642.7 | 632.9 | 614.3 | 592.4 | 566.3 | 534.5 | 503.9 | 470.9 | 440.8 | 384.7  |
| 15°    | 692.4  | 686.1 | 675.7 | 653.1 | 624.2 | 590.1 | 551.3 | 512.5 | 473.8 | 435.6 | 368.5  |
| 17.5°  | 740.5  | 731.8 | 716.2 | 690.7 | 654.3 | 612.0 | 566.3 | 519.5 | 472.6 | 429.2 | 351.1  |
| 20°    | 791.9  | 779.8 | 763.0 | 728.9 | 686.1 | 636.3 | 581.4 | 526.4 | 472.0 | 421.7 | 331.5  |
| 22.5°  | 834.8  | 822.6 | 804.1 | 768.8 | 717.3 | 656.6 | 594.1 | 531.0 | 469.7 | 413.0 | 313.0  |
| 25°    | 871.8  | 861.9 | 841.7 | 801.2 | 746.8 | 678.0 | 606.3 | 534.5 | 466.3 | 403.8 | 293.3  |
| 27.5°  | 900.7  | 891.4 | 868.9 | 827.2 | 771.7 | 697.1 | 615.5 | 536.3 | 461.6 | 394.5 | 273.0  |
| 30°    | 926.2  | 916.9 | 889.7 | 846.9 | 788.5 | 712.1 | 624.8 | 536.8 | 455.8 | 380.6 | 251.1  |
| 32.5°  | 945.8  | 937.1 | 909.4 | 863.7 | 800.0 | 722.5 | 630.0 | 536.3 | 448.3 | 370.8 | 227.3  |
| 35°    | 965.5  | 956.8 | 924.4 | 875.8 | 808.7 | 727.2 | 634.0 | 533.4 | 439.1 | 354.6 | 204.8  |
| 37.5°  | 980.5  | 970.7 | 937.7 | 883.9 | 812.8 | 728.3 | 633.4 | 529.3 | 429.2 | 341.3 | 182.2  |
| 40°    | 990.9  | 980.5 | 945.2 | 888.6 | 813.9 | 726.6 | 628.8 | 522.4 | 417.7 | 324.5 | 158.5  |
| 42.5°  | 997.9  | 986.3 | 948.7 | 895.5 | 811.6 | 721.9 | 621.9 | 513.7 | 404.9 | 310.1 | 135.9  |
| 45°    | 1001.4 | 989.2 | 949.3 | 889.7 | 807.6 | 713.3 | 611.5 | 502.7 | 391.1 | 290.4 | 113.4  |
| 47.5°  | 999.6  | 986.3 | 946.4 | 883.3 | 800.0 | 704.0 | 599.9 | 489.4 | 374.3 | 273.0 | 92.0   |
| 50°    | 996.7  | 982.8 | 940.0 | 875.2 | 789.6 | 692.4 | 587.2 | 473.2 | 356.9 | 251.6 | 72.9   |
| 52.5°  | 987.5  | 973.6 | 933.1 | 863.7 | 777.5 | 679.1 | 569.8 | 456.4 | 338.4 | 230.8 | 55.5   |
| 55°    | 975.9  | 963.2 | 920.9 | 853.3 | 761.9 | 662.9 | 553.6 | 438.5 | 320.5 | 209.4 | 39.9   |
| 57.5°  | 958.0  | 946.4 | 905.9 | 836.5 | 746.2 | 645.0 | 535.7 | 418.8 | 297.9 | 188.0 | 27.8   |
| 60°    | 936.0  | 924.4 | 885.1 | 817.4 | 728.3 | 624.8 | 516.0 | 398.6 | 277.7 | 166.6 | 17.4   |
| 62.5°  | 912.8  | 901.9 | 860.8 | 793.7 | 705.7 | 603.4 | 494.6 | 378.3 | 256.3 | 146.9 | 10.4   |
| 65°    | 882.2  | 871.8 | 834.8 | 765.3 | 680.9 | 580.2 | 470.9 | 354.0 | 234.3 | 125.0 | 5.8    |
| 67.5°  | 849.8  | 840.5 | 802.9 | 739.3 | 652.0 | 554.8 | 446.6 | 330.3 | 211.1 | 105.9 | 2.9    |
| 70°    | 815.1  | 803.5 | 768.8 | 704.0 | 622.4 | 525.8 | 420.0 | 306.0 | 189.2 | 87.4  | 0.0    |
| 72.5°  | 774.6  | 765.9 | 732.4 | 671.0 | 588.3 | 495.2 | 392.8 | 279.4 | 164.9 | 69.4  | 0.6    |
| 75°    | 735.3  | 724.3 | 693.6 | 635.8 | 554.8 | 462.8 | 362.7 | 254.5 | 141.1 | 53.2  | 0.6    |
| 77.5°  | 684.3  | 680.9 | 652.0 | 595.8 | 522.9 | 431.5 | 329.7 | 224.5 | 118.6 | 38.2  | 0.6    |
| 80°    | 633.4  | 630.0 | 607.4 | 555.9 | 485.9 | 394.5 | 299.1 | 196.1 | 96.6  | 25.5  | 0.6    |
| 82.5°  | 583.1  | 578.5 | 557.1 | 514.3 | 448.3 | 363.3 | 267.3 | 167.8 | 76.4  | 15.6  | 0.6    |
| 85°    | 538.0  | 532.2 | 509.1 | 469.7 | 409.6 | 328.0 | 234.3 | 140.0 | 56.7  | 8.7   | 1.2    |
| 87.5°  | 499.2  | 495.2 | 469.7 | 429.2 | 370.2 | 295.0 | 205.4 | 113.4 | 39.9  | 4.0   | 1.7    |
| 90°    | 466.3  | 457.6 | 435.0 | 392.2 | 333.2 | 258.6 | 174.7 | 90.8  | 26.6  | 2.3   | 2.3    |
| 92.5°  | 433.9  | 426.3 | 401.5 | 357.5 | 300.2 | 227.3 | 145.2 | 69.4  | 16.8  | 1.2   | 2.9    |
| 95°    | 400.3  | 392.2 | 367.9 | 327.4 | 266.7 | 195.5 | 119.2 | 50.9  | 9.3   | 1.2   | 2.9    |
| 97.5°  | 367.3  | 359.8 | 334.4 | 293.9 | 236.6 | 167.8 | 94.3  | 35.9  | 4.6   | 1.2   | 2.3    |
| 100°   | 336.7  | 328.0 | 304.9 | 264.4 | 206.5 | 140.0 | 72.9  | 23.1  | 2.9   | 1.2   | 2.3    |
| 102.5° | 304.3  | 297.3 | 273.6 | 234.3 | 175.3 | 114.0 | 54.4  | 14.5  | 1.2   | 1.2   | 1.7    |
| 105°   | 275.4  | 266.7 | 243.5 | 203.0 | 149.2 | 89.7  | 38.2  | 8.7   | 1.2   | 1.2   | 1.7    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 30°   | 40°  | 50°  | 60°  | 70° | 80° | 90° | 112.5° |
|--------|-------|-------|-------|-------|------|------|------|-----|-----|-----|--------|
| 112.5° | 179.3 | 172.4 | 152.1 | 118.0 | 75.8 | 35.3 | 10.4 | 1.7 | 1.7 | 1.7 | 1.7    |
| 115°   | 149.8 | 139.4 | 121.5 | 91.4  | 56.1 | 23.1 | 5.2  | 1.7 | 1.7 | 1.7 | 1.7    |
| 117.5° | 119.7 | 111.1 | 98.3  | 69.4  | 37.0 | 15.0 | 2.9  | 1.7 | 1.7 | 1.7 | 1.7    |
| 120°   | 93.7  | 85.6  | 71.2  | 48.0  | 24.9 | 8.7  | 1.2  | 1.7 | 1.7 | 1.7 | 1.7    |
| 122.5° | 67.1  | 60.7  | 48.0  | 31.2  | 15.0 | 4.0  | 1.7  | 1.7 | 2.3 | 2.3 | 1.7    |
| 125°   | 44.5  | 41.1  | 31.8  | 19.1  | 9.3  | 1.7  | 1.7  | 1.7 | 2.3 | 2.3 | 1.7    |
| 127.5° | 28.9  | 26.0  | 18.5  | 11.0  | 4.0  | 1.7  | 1.7  | 2.3 | 2.3 | 2.3 | 1.7    |
| 130°   | 16.2  | 14.5  | 11.0  | 6.4   | 1.7  | 1.7  | 1.7  | 2.3 | 2.3 | 2.3 | 1.7    |
| 132.5° | 9.3   | 8.7   | 5.8   | 1.2   | 1.7  | 1.7  | 1.7  | 2.3 | 2.3 | 2.3 | 2.3    |
| 135°   | 2.3   | 1.2   | 1.2   | 1.2   | 1.7  | 1.7  | 2.3  | 2.3 | 2.9 | 2.9 | 2.3    |
| 137.5° | 0.6   | 0.6   | 1.2   | 1.2   | 1.7  | 1.7  | 2.3  | 2.9 | 2.9 | 2.9 | 2.3    |
| 140°   | 0.6   | 0.6   | 1.2   | 1.7   | 1.7  | 1.7  | 2.3  | 2.9 | 2.9 | 2.9 | 2.3    |
| 142.5° | 0.6   | 1.2   | 1.2   | 1.7   | 1.7  | 2.3  | 2.3  | 2.9 | 2.9 | 2.3 | 2.3    |
| 145°   | 0.6   | 1.2   | 1.2   | 1.7   | 1.7  | 2.3  | 2.3  | 2.9 | 2.3 | 2.3 | 2.3    |
| 147.5° | 1.2   | 1.2   | 1.2   | 1.7   | 1.7  | 2.3  | 2.3  | 2.9 | 2.9 | 2.3 | 2.3    |
| 150°   | 0.6   | 1.2   | 1.2   | 1.7   | 2.3  | 2.3  | 2.3  | 2.9 | 2.3 | 2.3 | 2.3    |
| 152.5° | 0.6   | 1.2   | 1.2   | 1.7   | 2.3  | 2.3  | 2.3  | 2.9 | 2.3 | 2.3 | 2.3    |
| 155°   | 1.2   | 1.2   | 1.2   | 1.7   | 2.3  | 2.3  | 2.3  | 2.9 | 2.3 | 2.3 | 2.9    |
| 157.5° | 1.2   | 1.2   | 1.2   | 1.7   | 2.3  | 2.3  | 2.3  | 2.9 | 2.3 | 2.3 | 2.9    |
| 160°   | 1.2   | 1.2   | 1.2   | 1.7   | 1.7  | 2.3  | 2.3  | 2.3 | 2.3 | 2.3 | 2.3    |
| 162.5° | 1.2   | 1.2   | 1.2   | 1.7   | 1.7  | 2.3  | 2.3  | 2.3 | 2.3 | 2.3 | 2.3    |
| 165°   | 1.2   | 1.2   | 1.2   | 1.2   | 1.7  | 1.7  | 2.3  | 2.3 | 2.3 | 2.3 | 2.3    |
| 167.5° | 1.2   | 1.2   | 1.2   | 1.7   | 1.7  | 1.7  | 2.3  | 2.3 | 2.3 | 2.3 | 2.3    |
| 170°   | 1.2   | 1.2   | 1.2   | 1.7   | 1.7  | 1.7  | 2.3  | 2.9 | 2.9 | 2.9 | 2.9    |
| 172.5° | 1.2   | 1.2   | 1.2   | 1.7   | 1.7  | 2.3  | 2.3  | 2.9 | 2.9 | 2.9 | 2.9    |
| 175°   | 1.2   | 1.2   | 1.2   | 1.7   | 1.7  | 2.3  | 2.3  | 2.9 | 2.9 | 2.9 | 2.9    |
| 177.5° | 0.6   | 1.2   | 1.2   | 1.7   | 1.7  | 2.3  | 2.3  | 2.9 | 2.9 | 2.9 | 2.3    |
| 180°   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7  | 1.7  | 1.7  | 1.7 | 1.7 | 1.7 | 1.7    |



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**CANDELA DISTRIBUTION (continued):**

|        | 135°  | 157.5° | 180°  |
|--------|-------|--------|-------|
| 0°     | 454.1 | 454.1  | 454.1 |
| 2.5°   | 432.1 | 424.0  | 421.7 |
| 5°     | 409.0 | 395.7  | 388.2 |
| 7.5°   | 385.8 | 367.9  | 359.2 |
| 10°    | 364.4 | 339.0  | 329.7 |
| 12.5°  | 339.0 | 309.5  | 295.0 |
| 15°    | 314.7 | 276.5  | 262.6 |
| 17.5°  | 287.5 | 244.7  | 228.5 |
| 20°    | 262.1 | 212.9  | 196.1 |
| 22.5°  | 233.1 | 181.6  | 163.1 |
| 25°    | 207.1 | 150.4  | 129.6 |
| 27.5°  | 178.2 | 118.6  | 100.7 |
| 30°    | 151.0 | 90.8   | 72.9  |
| 32.5°  | 125.0 | 66.5   | 50.3  |
| 35°    | 100.7 | 45.1   | 31.8  |
| 37.5°  | 77.5  | 27.8   | 16.2  |
| 40°    | 56.1  | 14.5   | 7.5   |
| 42.5°  | 37.6  | 6.9    | 4.0   |
| 45°    | 23.1  | 3.5    | 0.0   |
| 47.5°  | 13.3  | 0.0    | 0.0   |
| 50°    | 6.9   | 0.0    | 0.0   |
| 52.5°  | 2.9   | 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°    | 0.6   | 0.6    | 0.6   |
| 77.5°  | 0.6   | 1.2    | 1.7   |
| 80°    | 1.2   | 2.3    | 2.9   |
| 82.5°  | 2.3   | 2.9    | 2.9   |
| 85°    | 2.3   | 2.9    | 3.5   |
| 87.5°  | 2.9   | 3.5    | 4.0   |
| 90°    | 3.5   | 4.0    | 4.0   |
| 92.5°  | 3.5   | 4.6    | 4.6   |
| 95°    | 4.0   | 4.6    | 5.2   |
| 97.5°  | 4.6   | 5.2    | 5.2   |
| 100°   | 4.0   | 5.2    | 5.8   |
| 102.5° | 3.5   | 5.2    | 5.2   |
| 105°   | 2.9   | 4.0    | 4.6   |





TEST NUMBER: P551528

CATALOG NUMBER: FCC-X-2-LD4-2LO-35-UNV-81-84-ED1D

**CANDELA DISTRIBUTION (continued):**

|        | 135° | 157.5° | 180° |
|--------|------|--------|------|
| 112.5° | 2.3  | 2.9    | 2.9  |
| 115°   | 1.7  | 2.3    | 2.9  |
| 117.5° | 1.7  | 2.3    | 2.3  |
| 120°   | 1.7  | 1.7    | 2.3  |
| 122.5° | 1.7  | 1.7    | 2.3  |
| 125°   | 1.7  | 1.7    | 2.3  |
| 127.5° | 2.3  | 1.7    | 1.7  |
| 130°   | 1.7  | 1.7    | 1.7  |
| 132.5° | 2.3  | 1.7    | 1.7  |
| 135°   | 2.3  | 1.7    | 1.7  |
| 137.5° | 2.3  | 1.7    | 1.7  |
| 140°   | 2.3  | 1.7    | 1.7  |
| 142.5° | 2.3  | 1.7    | 1.7  |
| 145°   | 1.7  | 1.7    | 1.7  |
| 147.5° | 1.7  | 1.7    | 1.7  |
| 150°   | 1.7  | 1.7    | 1.2  |
| 152.5° | 1.7  | 1.2    | 1.2  |
| 155°   | 1.7  | 1.2    | 0.6  |
| 157.5° | 2.3  | 1.2    | 0.6  |
| 160°   | 1.7  | 1.2    | 0.6  |
| 162.5° | 1.7  | 1.2    | 0.6  |
| 165°   | 1.7  | 1.2    | 0.0  |
| 167.5° | 1.7  | 1.2    | 0.6  |
| 170°   | 1.7  | 1.2    | 0.6  |
| 172.5° | 1.7  | 1.2    | 0.6  |
| 175°   | 1.7  | 0.6    | 0.6  |
| 177.5° | 1.7  | 0.6    | 0.6  |
| 180°   | 1.7  | 1.7    | 1.7  |



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







|        |       |       |       |       |       |      |      |     |     |     |     |
|--------|-------|-------|-------|-------|-------|------|------|-----|-----|-----|-----|
| 107.5° | 243.0 | 236.0 | 212.9 | 174.7 | 122.1 | 68.3 | 25.5 | 4.6 | 1.2 | 1.7 | 1.7 |
| 110°   | 211.7 | 205.9 | 182.2 | 145.2 | 98.3  | 50.9 | 16.8 | 2.9 | 1.7 | 1.7 | 1.7 |







|        |     |     |     |
|--------|-----|-----|-----|
| 107.5° | 2.3 | 3.5 | 4.0 |
| 110°   | 2.3 | 2.9 | 3.5 |



(END OF REPORT)