

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: P551472

Luminaire Tested: **FCC-X-2-LD4-2LO-30-UNV-81-88-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: P551472  
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-30-UNV-81-88-ED1D  
Description: FCC CORNER MOUNT LUMINAIRE WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 3000K, AND 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

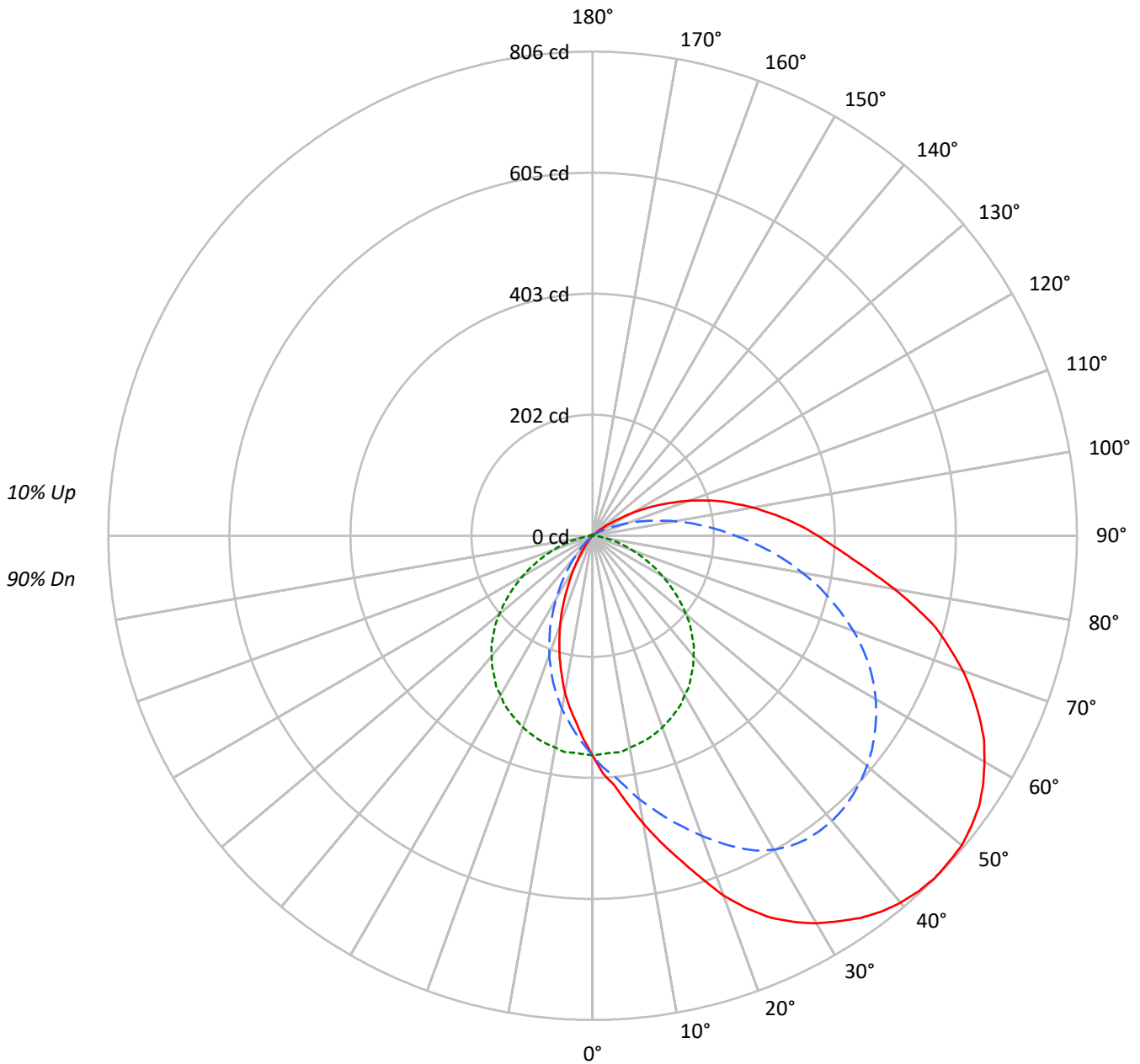
Lumens per Lamp: N/A  
Luminaire Lumens: 1806.1 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')  
CIE Type: Semi-Direct

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: P551472

CATALOG NUMBER: FCC-X-2-LD4-2LO-30-UNV-81-88-ED1D

### Luminous Intensity Polar Plot





TEST NUMBER: P551472

CATALOG NUMBER: FCC-X-2-LD4-2LO-30-UNV-81-88-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°  | 3932 | 3932 | 3932 |
| 5°  | 4317 | 3874 | 3233 |
| 10° | 4885 | 3827 | 2665 |
| 15° | 5474 | 3778 | 2076 |
| 20° | 6174 | 3717 | 1529 |
| 25° | 6754 | 3645 | 1004 |
| 30° | 7185 | 3550 | 565  |
| 35° | 7559 | 3447 | 249  |
| 40° | 7891 | 3321 | 59   |
| 45° | 8174 | 3161 | 0    |
| 50° | 8413 | 2950 | 0    |
| 55° | 8596 | 2683 | 0    |
| 60° | 8687 | 2371 | 0    |
| 65° | 8723 | 2019 | 0    |
| 70° | 8693 | 1647 | 0    |
| 75° | 8583 | 1214 | 7    |
| 80° | 8236 | 744  | 37   |
| 85° | 7960 | 356  | 51   |



TEST NUMBER: P551472

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 35.0   | 1.9       |
| 10°-20°   | 104.8  | 5.8       |
| 20°-30°   | 169.7  | 9.4       |
| 30°-40°   | 218.0  | 12.1      |
| 40°-50°   | 246.7  | 13.7      |
| 50°-60°   | 255.6  | 14.2      |
| 60°-70°   | 241.1  | 13.3      |
| 70°-80°   | 202.0  | 11.2      |
| 80°-90°   | 146.4  | 8.1       |
| 90°-100°  | 96.2   | 5.3       |
| 100°-110° | 55.6   | 3.1       |
| 110°-120° | 24.5   | 1.4       |
| 120°-130° | 6.6    | 0.4       |
| 130°-140° | 1.5    | 0.1       |
| 140°-150° | 1.0    | 0.1       |
| 150°-160° | 0.7    | 0.0       |
| 160°-170° | 0.4    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-30°    | 309.4  | 17.1      |
| 0°-40°    | 527.4  | 29.2      |
| 0°-60°    | 1029.7 | 57.0      |
| 0°-90°    | 1619.3 | 89.7      |
| 90°-120°  | 176.4  | 9.8       |
| 90°-150°  | 185.5  | 10.3      |
| 90°-180°  | 187.0  | 10.4      |
| 0°-180°   | 1806.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0°   | 365 | 365 | 365 | 365  | 365  |      |
| 5°   | 417 | 400 | 362 | 329  | 312  | 42   |
| 15°  | 557 | 488 | 350 | 253  | 211  | 161  |
| 25°  | 701 | 573 | 325 | 167  | 104  | 324  |
| 35°  | 777 | 618 | 285 | 81   | 26   | 487  |
| 45°  | 806 | 612 | 234 | 19   | 0    | 622  |
| 55°  | 785 | 573 | 168 | 0    | 0    | 701  |
| 65°  | 710 | 507 | 100 | 0    | 0    | 702  |
| 75°  | 592 | 409 | 43  | 0    | 0    | 620  |
| 85°  | 433 | 297 | 7   | 2    | 3    | 370  |
| 90°  | 375 | 238 | 2   | 3    | 3    | 206  |
| 95°  | 322 | 186 | 1   | 3    | 4    | 253  |
| 105° | 222 | 96  | 1   | 2    | 4    | 234  |
| 115° | 120 | 32  | 1   | 1    | 2    | 121  |
| 125° | 36  | 4   | 2   | 1    | 2    | 36   |
| 135° | 2   | 1   | 2   | 2    | 1    | 3    |
| 145° | 0   | 2   | 2   | 1    | 1    | 0    |
| 155° | 1   | 2   | 2   | 1    | 0    | 0    |
| 165° | 1   | 1   | 2   | 1    | 0    | 0    |
| 175° | 1   | 2   | 2   | 1    | 0    | 0    |
| 180° | 1   | 1   | 1   | 1    | 1    |      |



TEST NUMBER: P551472

CATALOG NUMBER: FCC-X-2-LD4-2LO-30-UNV-81-88-ED1D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 30°   | 40°   | 50°   | 60°   | 70°   | 80°   | 90°   | 112.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 365.3 | 365.3 | 365.3 | 365.3 | 365.3 | 365.3 | 365.3 | 365.3 | 365.3 | 365.3 | 365.3  |
| 2.5°   | 396.0 | 395.6 | 394.2 | 391.8 | 388.6 | 383.0 | 378.3 | 374.2 | 368.6 | 363.9 | 355.1  |
| 5°     | 417.0 | 414.6 | 412.8 | 410.5 | 403.0 | 397.9 | 389.5 | 380.2 | 371.4 | 362.5 | 344.8  |
| 7.5°   | 450.5 | 446.7 | 444.0 | 437.4 | 427.2 | 415.6 | 402.5 | 393.7 | 387.6 | 363.0 | 332.7  |
| 10°    | 486.3 | 483.0 | 477.5 | 465.8 | 453.3 | 436.5 | 417.9 | 397.0 | 378.3 | 357.9 | 322.0  |
| 12.5°  | 521.7 | 517.0 | 509.1 | 494.2 | 476.5 | 455.6 | 430.0 | 405.3 | 378.8 | 354.6 | 309.5  |
| 15°    | 557.0 | 551.9 | 543.5 | 525.4 | 502.1 | 474.7 | 443.5 | 412.3 | 381.1 | 350.4 | 296.4  |
| 17.5°  | 595.7 | 588.7 | 576.1 | 555.6 | 526.3 | 492.4 | 455.6 | 417.9 | 380.2 | 345.3 | 282.5  |
| 20°    | 637.1 | 627.3 | 613.8 | 586.4 | 551.9 | 511.9 | 467.7 | 423.5 | 379.7 | 339.3 | 266.7  |
| 22.5°  | 671.5 | 661.7 | 646.9 | 618.5 | 577.1 | 528.2 | 477.9 | 427.2 | 377.9 | 332.3 | 251.8  |
| 25°    | 701.3 | 693.4 | 677.1 | 644.5 | 600.8 | 545.4 | 487.7 | 430.0 | 375.1 | 324.8 | 235.9  |
| 27.5°  | 724.6 | 717.1 | 699.0 | 665.5 | 620.8 | 560.8 | 495.1 | 431.4 | 371.4 | 317.4 | 219.7  |
| 30°    | 745.0 | 737.6 | 715.7 | 681.3 | 634.3 | 572.9 | 502.6 | 431.9 | 366.7 | 306.2 | 202.0  |
| 32.5°  | 760.9 | 753.9 | 731.6 | 694.8 | 643.6 | 581.2 | 506.8 | 431.4 | 360.7 | 298.3 | 182.9  |
| 35°    | 776.7 | 769.7 | 743.7 | 704.6 | 650.6 | 585.0 | 510.0 | 429.1 | 353.2 | 285.3 | 164.7  |
| 37.5°  | 788.8 | 780.9 | 754.4 | 711.1 | 653.8 | 585.9 | 509.6 | 425.8 | 345.3 | 274.6 | 146.6  |
| 40°    | 797.2 | 788.8 | 760.4 | 714.8 | 654.8 | 584.5 | 505.9 | 420.2 | 336.0 | 261.1 | 127.5  |
| 42.5°  | 802.8 | 793.4 | 763.2 | 720.4 | 652.9 | 580.8 | 500.3 | 413.2 | 325.8 | 249.4 | 109.4  |
| 45°    | 805.5 | 795.8 | 763.7 | 715.7 | 649.6 | 573.8 | 491.9 | 404.4 | 314.6 | 233.6 | 91.2   |
| 47.5°  | 804.1 | 793.4 | 761.3 | 710.6 | 643.6 | 566.3 | 482.6 | 393.7 | 301.1 | 219.7 | 74.0   |
| 50°    | 801.8 | 790.7 | 756.2 | 704.1 | 635.2 | 557.0 | 472.3 | 380.7 | 287.1 | 202.4 | 58.6   |
| 52.5°  | 794.4 | 783.2 | 750.6 | 694.8 | 625.4 | 546.3 | 458.4 | 367.2 | 272.2 | 185.7 | 44.7   |
| 55°    | 785.1 | 774.8 | 740.9 | 686.4 | 612.9 | 533.3 | 445.4 | 352.7 | 257.8 | 168.5 | 32.1   |
| 57.5°  | 770.6 | 761.3 | 728.8 | 672.9 | 600.3 | 518.9 | 430.9 | 336.9 | 239.7 | 151.2 | 22.3   |
| 60°    | 753.0 | 743.7 | 712.0 | 657.6 | 585.9 | 502.6 | 415.1 | 320.6 | 223.4 | 134.0 | 14.0   |
| 62.5°  | 734.3 | 725.5 | 692.5 | 638.5 | 567.7 | 485.4 | 397.9 | 304.3 | 206.2 | 118.2 | 8.4    |
| 65°    | 709.7 | 701.3 | 671.5 | 615.7 | 547.7 | 466.8 | 378.8 | 284.8 | 188.5 | 100.5 | 4.7    |
| 67.5°  | 683.6 | 676.2 | 645.9 | 594.7 | 524.5 | 446.3 | 359.3 | 265.7 | 169.9 | 85.2  | 2.3    |
| 70°    | 655.7 | 646.4 | 618.5 | 566.3 | 500.7 | 423.0 | 337.9 | 246.2 | 152.2 | 70.3  | 0.0    |
| 72.5°  | 623.1 | 616.1 | 589.2 | 539.8 | 473.3 | 398.4 | 316.0 | 224.8 | 132.6 | 55.8  | 0.5    |
| 75°    | 591.5 | 582.6 | 558.0 | 511.4 | 446.3 | 372.3 | 291.8 | 204.8 | 113.5 | 42.8  | 0.5    |
| 77.5°  | 550.5 | 547.7 | 524.5 | 479.3 | 420.7 | 347.2 | 265.3 | 180.6 | 95.4  | 30.7  | 0.5    |
| 80°    | 509.6 | 506.8 | 488.6 | 447.2 | 390.9 | 317.4 | 240.6 | 157.8 | 77.7  | 20.5  | 0.5    |
| 82.5°  | 469.1 | 465.4 | 448.1 | 413.7 | 360.7 | 292.2 | 215.0 | 135.0 | 61.4  | 12.6  | 0.5    |
| 85°    | 432.8 | 428.1 | 409.5 | 377.9 | 329.5 | 263.9 | 188.5 | 112.6 | 45.6  | 7.0   | 0.9    |
| 87.5°  | 401.6 | 398.4 | 377.9 | 345.3 | 297.8 | 237.3 | 165.2 | 91.2  | 32.1  | 3.3   | 1.4    |
| 90°    | 375.1 | 368.1 | 350.0 | 315.5 | 268.0 | 208.0 | 140.5 | 73.1  | 21.4  | 1.9   | 1.9    |
| 92.5°  | 349.0 | 343.0 | 323.0 | 287.6 | 241.5 | 182.9 | 116.8 | 55.8  | 13.5  | 0.9   | 2.3    |
| 95°    | 322.0 | 315.5 | 296.0 | 263.4 | 214.5 | 157.3 | 95.9  | 41.0  | 7.4   | 0.9   | 2.3    |
| 97.5°  | 295.5 | 289.5 | 269.0 | 236.4 | 190.3 | 135.0 | 75.9  | 28.9  | 3.7   | 0.9   | 1.9    |
| 100°   | 270.8 | 263.9 | 245.2 | 212.7 | 166.1 | 112.6 | 58.6  | 18.6  | 2.3   | 0.9   | 1.9    |
| 102.5° | 244.8 | 239.2 | 220.1 | 188.5 | 141.0 | 91.7  | 43.7  | 11.6  | 0.9   | 0.9   | 1.4    |
| 105°   | 221.5 | 214.5 | 195.9 | 163.3 | 120.1 | 72.1  | 30.7  | 7.0   | 0.9   | 0.9   | 1.4    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 30°  | 40°  | 50°  | 60° | 70° | 80° | 90° | 112.5° |
|--------|-------|-------|-------|------|------|------|-----|-----|-----|-----|--------|
| 112.5° | 144.3 | 138.7 | 122.4 | 94.9 | 61.0 | 28.4 | 8.4 | 1.4 | 1.4 | 1.4 | 1.4    |
| 115°   | 120.5 | 112.2 | 97.7  | 73.5 | 45.1 | 18.6 | 4.2 | 1.4 | 1.4 | 1.4 | 1.4    |
| 117.5° | 96.3  | 89.3  | 79.1  | 55.8 | 29.8 | 12.1 | 2.3 | 1.4 | 1.4 | 1.4 | 1.4    |
| 120°   | 75.4  | 68.9  | 57.2  | 38.6 | 20.0 | 7.0  | 0.9 | 1.4 | 1.4 | 1.4 | 1.4    |
| 122.5° | 54.0  | 48.9  | 38.6  | 25.1 | 12.1 | 3.3  | 1.4 | 1.4 | 1.9 | 1.9 | 1.4    |
| 125°   | 35.8  | 33.0  | 25.6  | 15.4 | 7.4  | 1.4  | 1.4 | 1.4 | 1.9 | 1.9 | 1.4    |
| 127.5° | 23.3  | 20.9  | 14.9  | 8.8  | 3.3  | 1.4  | 1.4 | 1.9 | 1.9 | 1.9 | 1.4    |
| 130°   | 13.0  | 11.6  | 8.8   | 5.1  | 1.4  | 1.4  | 1.4 | 1.9 | 1.9 | 1.9 | 1.4    |
| 132.5° | 7.4   | 7.0   | 4.7   | 0.9  | 1.4  | 1.4  | 1.4 | 1.9 | 1.9 | 1.9 | 1.9    |
| 135°   | 1.9   | 0.9   | 0.9   | 0.9  | 1.4  | 1.4  | 1.9 | 1.9 | 2.3 | 2.3 | 1.9    |
| 137.5° | 0.5   | 0.5   | 0.9   | 0.9  | 1.4  | 1.4  | 1.9 | 2.3 | 2.3 | 2.3 | 1.9    |
| 140°   | 0.5   | 0.5   | 0.9   | 1.4  | 1.4  | 1.4  | 1.9 | 2.3 | 2.3 | 2.3 | 1.9    |
| 142.5° | 0.5   | 0.9   | 0.9   | 1.4  | 1.4  | 1.9  | 1.9 | 2.3 | 2.3 | 1.9 | 1.9    |
| 145°   | 0.5   | 0.9   | 0.9   | 1.4  | 1.4  | 1.9  | 1.9 | 2.3 | 1.9 | 1.9 | 1.9    |
| 147.5° | 0.9   | 0.9   | 0.9   | 1.4  | 1.4  | 1.9  | 1.9 | 2.3 | 2.3 | 1.9 | 1.9    |
| 150°   | 0.5   | 0.9   | 0.9   | 1.4  | 1.9  | 1.9  | 1.9 | 2.3 | 1.9 | 1.9 | 1.9    |
| 152.5° | 0.5   | 0.9   | 0.9   | 1.4  | 1.9  | 1.9  | 1.9 | 2.3 | 1.9 | 1.9 | 1.9    |
| 155°   | 0.9   | 0.9   | 0.9   | 1.4  | 1.9  | 1.9  | 1.9 | 2.3 | 1.9 | 1.9 | 2.3    |
| 157.5° | 0.9   | 0.9   | 0.9   | 1.4  | 1.9  | 1.9  | 1.9 | 2.3 | 1.9 | 1.9 | 2.3    |
| 160°   | 0.9   | 0.9   | 0.9   | 1.4  | 1.4  | 1.9  | 1.9 | 1.9 | 1.9 | 1.9 | 1.9    |
| 162.5° | 0.9   | 0.9   | 0.9   | 1.4  | 1.4  | 1.9  | 1.9 | 1.9 | 1.9 | 1.9 | 1.9    |
| 165°   | 0.9   | 0.9   | 0.9   | 0.9  | 1.4  | 1.4  | 1.9 | 1.9 | 1.9 | 1.9 | 1.9    |
| 167.5° | 0.9   | 0.9   | 0.9   | 1.4  | 1.4  | 1.4  | 1.9 | 1.9 | 1.9 | 1.9 | 1.9    |
| 170°   | 0.9   | 0.9   | 0.9   | 1.4  | 1.4  | 1.4  | 1.9 | 2.3 | 2.3 | 2.3 | 2.3    |
| 172.5° | 0.9   | 0.9   | 0.9   | 1.4  | 1.4  | 1.9  | 1.9 | 2.3 | 2.3 | 2.3 | 2.3    |
| 175°   | 0.9   | 0.9   | 0.9   | 1.4  | 1.4  | 1.9  | 1.9 | 2.3 | 2.3 | 2.3 | 2.3    |
| 177.5° | 0.5   | 0.9   | 0.9   | 1.4  | 1.4  | 1.9  | 1.9 | 2.3 | 2.3 | 2.3 | 1.9    |
| 180°   | 1.4   | 1.4   | 1.4   | 1.4  | 1.4  | 1.4  | 1.4 | 1.4 | 1.4 | 1.4 | 1.4    |



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**CANDELA DISTRIBUTION (continued):**

|        | 135°  | 157.5° | 180°  |
|--------|-------|--------|-------|
| 0°     | 365.3 | 365.3  | 365.3 |
| 2.5°   | 347.6 | 341.1  | 339.3 |
| 5°     | 329.0 | 318.3  | 312.3 |
| 7.5°   | 310.4 | 296.0  | 289.0 |
| 10°    | 293.2 | 272.7  | 265.3 |
| 12.5°  | 272.7 | 249.0  | 237.3 |
| 15°    | 253.2 | 222.4  | 211.3 |
| 17.5°  | 231.3 | 196.8  | 183.8 |
| 20°    | 210.8 | 171.3  | 157.8 |
| 22.5°  | 187.5 | 146.1  | 131.2 |
| 25°    | 166.6 | 121.0  | 104.2 |
| 27.5°  | 143.3 | 95.4   | 81.0  |
| 30°    | 121.5 | 73.1   | 58.6  |
| 32.5°  | 100.5 | 53.5   | 40.5  |
| 35°    | 81.0  | 36.3   | 25.6  |
| 37.5°  | 62.4  | 22.3   | 13.0  |
| 40°    | 45.1  | 11.6   | 6.0   |
| 42.5°  | 30.2  | 5.6    | 3.3   |
| 45°    | 18.6  | 2.8    | 0.0   |
| 47.5°  | 10.7  | 0.0    | 0.0   |
| 50°    | 5.6   | 0.0    | 0.0   |
| 52.5°  | 2.3   | 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   | 0.9    | 1.4   |
| 80°    | 0.9   | 1.9    | 2.3   |
| 82.5°  | 1.9   | 2.3    | 2.3   |
| 85°    | 1.9   | 2.3    | 2.8   |
| 87.5°  | 2.3   | 2.8    | 3.3   |
| 90°    | 2.8   | 3.3    | 3.3   |
| 92.5°  | 2.8   | 3.7    | 3.7   |
| 95°    | 3.3   | 3.7    | 4.2   |
| 97.5°  | 3.7   | 4.2    | 4.2   |
| 100°   | 3.3   | 4.2    | 4.7   |
| 102.5° | 2.8   | 4.2    | 4.2   |
| 105°   | 2.3   | 3.3    | 3.7   |





TEST NUMBER: P551472

CATALOG NUMBER: FCC-X-2-LD4-2LO-30-UNV-81-88-ED1D

**CANDELA DISTRIBUTION (continued):**

|        | 135° | 157.5° | 180° |
|--------|------|--------|------|
| 112.5° | 1.9  | 2.3    | 2.3  |
| 115°   | 1.4  | 1.9    | 2.3  |
| 117.5° | 1.4  | 1.9    | 1.9  |
| 120°   | 1.4  | 1.4    | 1.9  |
| 122.5° | 1.4  | 1.4    | 1.9  |
| 125°   | 1.4  | 1.4    | 1.9  |
| 127.5° | 1.9  | 1.4    | 1.4  |
| 130°   | 1.4  | 1.4    | 1.4  |
| 132.5° | 1.9  | 1.4    | 1.4  |
| 135°   | 1.9  | 1.4    | 1.4  |
| 137.5° | 1.9  | 1.4    | 1.4  |
| 140°   | 1.9  | 1.4    | 1.4  |
| 142.5° | 1.9  | 1.4    | 1.4  |
| 145°   | 1.4  | 1.4    | 1.4  |
| 147.5° | 1.4  | 1.4    | 1.4  |
| 150°   | 1.4  | 1.4    | 0.9  |
| 152.5° | 1.4  | 0.9    | 0.9  |
| 155°   | 1.4  | 0.9    | 0.5  |
| 157.5° | 1.9  | 0.9    | 0.5  |
| 160°   | 1.4  | 0.9    | 0.5  |
| 162.5° | 1.4  | 0.9    | 0.5  |
| 165°   | 1.4  | 0.9    | 0.0  |
| 167.5° | 1.4  | 0.9    | 0.5  |
| 170°   | 1.4  | 0.9    | 0.5  |
| 172.5° | 1.4  | 0.9    | 0.5  |
| 175°   | 1.4  | 0.5    | 0.5  |
| 177.5° | 1.4  | 0.5    | 0.5  |
| 180°   | 1.4  | 1.4    | 1.4  |



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







|        |       |       |       |       |      |      |      |     |     |     |     |
|--------|-------|-------|-------|-------|------|------|------|-----|-----|-----|-----|
| 107.5° | 195.5 | 189.9 | 171.3 | 140.5 | 98.2 | 54.9 | 20.5 | 3.7 | 0.9 | 1.4 | 1.4 |
| 110°   | 170.3 | 165.7 | 146.6 | 116.8 | 79.1 | 41.0 | 13.5 | 2.3 | 1.4 | 1.4 | 1.4 |







|        |     |     |     |
|--------|-----|-----|-----|
| 107.5° | 1.9 | 2.8 | 3.3 |
| 110°   | 1.9 | 2.3 | 2.8 |



(END OF REPORT)