

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: P551486

Luminaire Tested: **FCC-X-2-LD4-2LO-30-UNV-82-87-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: P551486  
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-82-87-ED1D  
Description: FCC CORNER MOUNT LUMINAIRE WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 3000K, AND 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

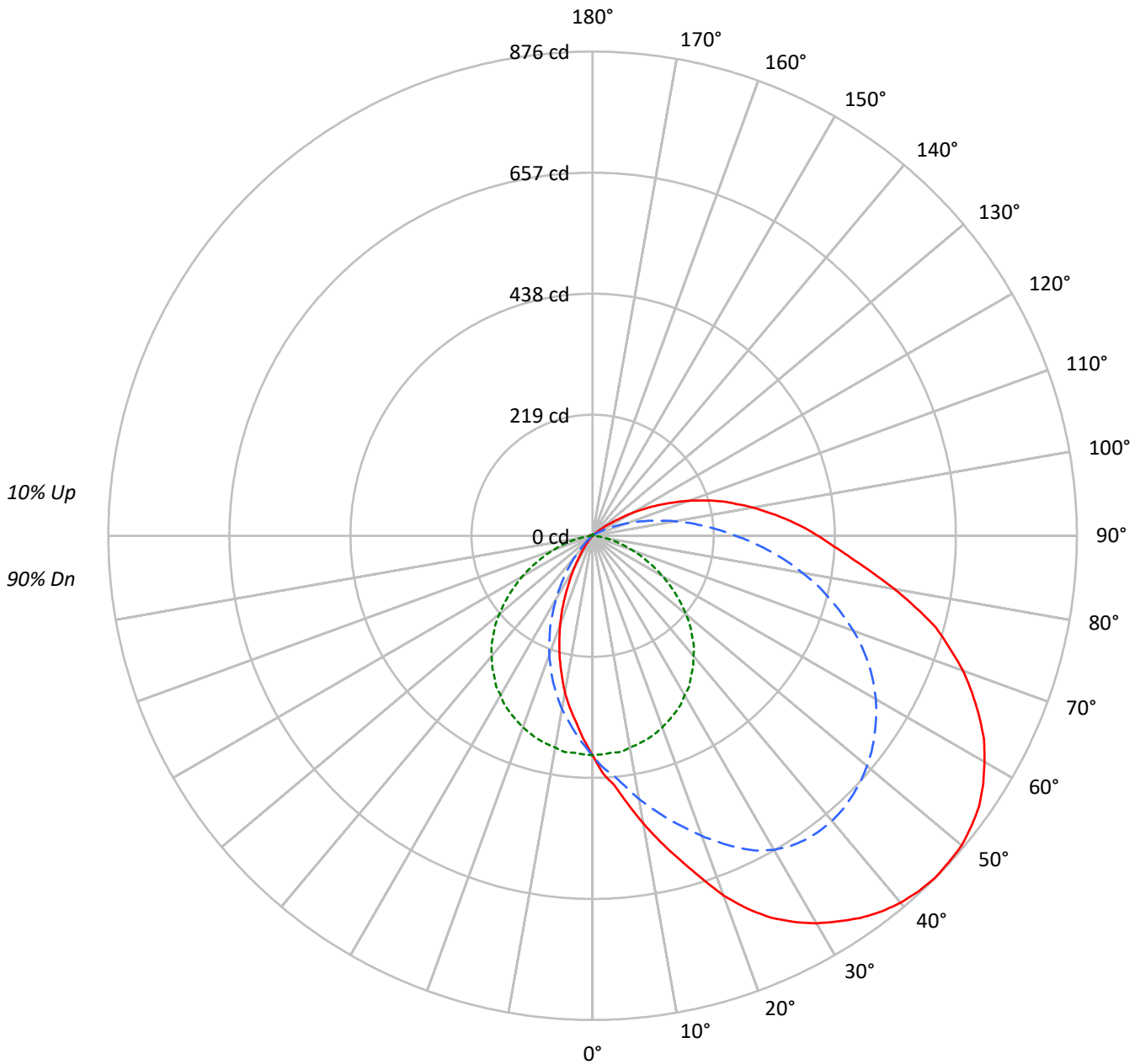
Lumens per Lamp: N/A  
Luminaire Lumens: 1962.9 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')  
CIE Type: Semi-Direct

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: P551486

CATALOG NUMBER: FCC-X-2-LD4-2LO-30-UNV-82-87-ED1D

### Luminous Intensity Polar Plot





TEST NUMBER: P551486

CATALOG NUMBER: FCC-X-2-LD4-2LO-30-UNV-82-87-ED1D

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

|     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |    |    |    |    |    |    |    | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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 | 90 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 103 | 96  | 91  | 86  | 99  | 93  | 88  | 83  | 87  | 83  | 79  | 81 | 78 | 74 | 76 | 73 | 70 | 67 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 92  | 82  | 74  | 67  | 88  | 79  | 72  | 65  | 74  | 67  | 62  | 69 | 64 | 59 | 64 | 60 | 56 | 53 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 83  | 71  | 61  | 54  | 79  | 68  | 60  | 53  | 64  | 56  | 50  | 59 | 53 | 48 | 55 | 50 | 46 | 43 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 75  | 62  | 52  | 44  | 72  | 60  | 51  | 44  | 56  | 48  | 42  | 52 | 45 | 40 | 49 | 43 | 38 | 36 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 69  | 55  | 45  | 38  | 66  | 53  | 44  | 37  | 50  | 42  | 35  | 46 | 39 | 34 | 43 | 38 | 33 | 30 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 63  | 49  | 39  | 32  | 61  | 47  | 38  | 32  | 44  | 36  | 31  | 42 | 35 | 29 | 39 | 33 | 28 | 26 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 58  | 44  | 35  | 28  | 56  | 43  | 34  | 28  | 40  | 32  | 27  | 38 | 31 | 26 | 36 | 29 | 25 | 23 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 54  | 40  | 31  | 25  | 52  | 39  | 30  | 24  | 37  | 29  | 24  | 34 | 28 | 23 | 32 | 26 | 22 | 20 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 51  | 36  | 28  | 22  | 49  | 35  | 27  | 22  | 33  | 26  | 21  | 32 | 25 | 20 | 30 | 24 | 20 | 18 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 47  | 33  | 25  | 20  | 45  | 33  | 25  | 19  | 31  | 24  | 19  | 29 | 23 | 18 | 28 | 22 | 18 | 16 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 90°  | 180° |
|-----|------|------|------|
| 0°  | 4274 | 4274 | 4274 |
| 5°  | 4692 | 4211 | 3514 |
| 10° | 5309 | 4160 | 2896 |
| 15° | 5950 | 4107 | 2256 |
| 20° | 6711 | 4040 | 1662 |
| 25° | 7342 | 3963 | 1091 |
| 30° | 7810 | 3858 | 614  |
| 35° | 8216 | 3747 | 271  |
| 40° | 8577 | 3609 | 65   |
| 45° | 8886 | 3436 | 0    |
| 50° | 9145 | 3206 | 0    |
| 55° | 9342 | 2916 | 0    |
| 60° | 9442 | 2578 | 0    |
| 65° | 9481 | 2195 | 0    |
| 70° | 9449 | 1790 | 0    |
| 75° | 9329 | 1319 | 7    |
| 80° | 8951 | 809  | 40   |
| 85° | 8652 | 386  | 55   |



TEST NUMBER: P551486

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 38.0   | 1.9       |
| 10°-20°   | 113.9  | 5.8       |
| 20°-30°   | 184.4  | 9.4       |
| 30°-40°   | 236.9  | 12.1      |
| 40°-50°   | 268.2  | 13.7      |
| 50°-60°   | 277.8  | 14.2      |
| 60°-70°   | 262.0  | 13.3      |
| 70°-80°   | 219.6  | 11.2      |
| 80°-90°   | 159.2  | 8.1       |
| 90°-100°  | 104.6  | 5.3       |
| 100°-110° | 60.4   | 3.1       |
| 110°-120° | 26.6   | 1.4       |
| 120°-130° | 7.2    | 0.4       |
| 130°-140° | 1.6    | 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°    | 336.3  | 17.1      |
| 0°-40°    | 573.2  | 29.2      |
| 0°-60°    | 1119.2 | 57.0      |
| 0°-90°    | 1760.0 | 89.7      |
| 90°-120°  | 191.7  | 9.8       |
| 90°-150°  | 201.6  | 10.3      |
| 90°-180°  | 203.0  | 10.3      |
| 0°-180°   | 1962.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0°   | 397 | 397 | 397 | 397  | 397  |      |
| 5°   | 453 | 435 | 394 | 358  | 339  | 46   |
| 15°  | 606 | 531 | 381 | 275  | 230  | 175  |
| 25°  | 762 | 623 | 353 | 181  | 113  | 352  |
| 35°  | 844 | 671 | 310 | 88   | 28   | 529  |
| 45°  | 876 | 665 | 254 | 20   | 0    | 676  |
| 55°  | 853 | 623 | 183 | 0    | 0    | 762  |
| 65°  | 771 | 551 | 109 | 0    | 0    | 763  |
| 75°  | 643 | 445 | 46  | 0    | 0    | 674  |
| 85°  | 470 | 322 | 8   | 2    | 3    | 402  |
| 90°  | 408 | 259 | 2   | 3    | 4    | 224  |
| 95°  | 350 | 202 | 1   | 4    | 5    | 275  |
| 105° | 241 | 104 | 1   | 2    | 4    | 254  |
| 115° | 131 | 35  | 2   | 2    | 2    | 131  |
| 125° | 39  | 5   | 2   | 2    | 2    | 39   |
| 135° | 2   | 2   | 2   | 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   | 2   | 2    | 0    | 0    |
| 180° | 2   | 2   | 2   | 2    | 2    |      |



TEST NUMBER: P551486

CATALOG NUMBER: FCC-X-2-LD4-2LO-30-UNV-82-87-ED1D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 30°   | 40°   | 50°   | 60°   | 70°   | 80°   | 90°   | 112.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 397.1 | 397.1 | 397.1 | 397.1 | 397.1 | 397.1 | 397.1 | 397.1 | 397.1 | 397.1 | 397.1  |
| 2.5°   | 430.5 | 429.9 | 428.4 | 425.9 | 422.4 | 416.3 | 411.2 | 406.7 | 400.6 | 395.6 | 385.9  |
| 5°     | 453.2 | 450.7 | 448.7 | 446.1 | 438.0 | 432.5 | 423.4 | 413.3 | 403.6 | 394.0 | 374.8  |
| 7.5°   | 489.6 | 485.6 | 482.6 | 475.5 | 464.3 | 451.7 | 437.5 | 427.9 | 421.3 | 394.5 | 361.7  |
| 10°    | 528.6 | 525.0 | 519.0 | 506.3 | 492.7 | 474.5 | 454.2 | 431.5 | 411.2 | 389.0 | 350.0  |
| 12.5°  | 567.0 | 562.0 | 553.4 | 537.2 | 518.0 | 495.2 | 467.4 | 440.6 | 411.7 | 385.4 | 336.4  |
| 15°    | 605.5 | 599.9 | 590.8 | 571.1 | 545.8 | 515.9 | 482.0 | 448.2 | 414.3 | 380.9 | 322.2  |
| 17.5°  | 647.4 | 639.9 | 626.2 | 603.9 | 572.1 | 535.2 | 495.2 | 454.2 | 413.3 | 375.3 | 307.0  |
| 20°    | 692.5 | 681.8 | 667.2 | 637.3 | 599.9 | 556.4 | 508.3 | 460.3 | 412.7 | 368.7 | 289.8  |
| 22.5°  | 729.9 | 719.3 | 703.1 | 672.2 | 627.2 | 574.1 | 519.5 | 464.3 | 410.7 | 361.2 | 273.6  |
| 25°    | 762.3 | 753.7 | 736.0 | 700.6 | 653.0 | 592.8 | 530.1 | 467.4 | 407.7 | 353.1 | 256.5  |
| 27.5°  | 787.6 | 779.5 | 759.7 | 723.3 | 674.8 | 609.5 | 538.2 | 468.9 | 403.6 | 345.0 | 238.7  |
| 30°    | 809.8 | 801.7 | 777.9 | 740.5 | 689.4 | 622.7 | 546.3 | 469.4 | 398.6 | 332.8 | 219.5  |
| 32.5°  | 827.0 | 819.4 | 795.1 | 755.2 | 699.5 | 631.8 | 550.8 | 468.9 | 392.0 | 324.2 | 198.8  |
| 35°    | 844.2 | 836.6 | 808.3 | 765.8 | 707.1 | 635.8 | 554.4 | 466.4 | 383.9 | 310.1 | 179.1  |
| 37.5°  | 857.4 | 848.8 | 819.9 | 772.9 | 710.7 | 636.8 | 553.9 | 462.8 | 375.3 | 298.4 | 159.3  |
| 40°    | 866.5 | 857.4 | 826.5 | 776.9 | 711.7 | 635.3 | 549.8 | 456.8 | 365.2 | 283.8 | 138.6  |
| 42.5°  | 872.5 | 862.4 | 829.5 | 783.0 | 709.7 | 631.3 | 543.8 | 449.2 | 354.1 | 271.1 | 118.9  |
| 45°    | 875.6 | 865.0 | 830.0 | 777.9 | 706.1 | 623.7 | 534.7 | 439.6 | 341.9 | 253.9 | 99.1   |
| 47.5°  | 874.1 | 862.4 | 827.5 | 772.4 | 699.5 | 615.6 | 524.5 | 427.9 | 327.3 | 238.7 | 80.4   |
| 50°    | 871.5 | 859.4 | 822.0 | 765.3 | 690.4 | 605.5 | 513.4 | 413.8 | 312.1 | 220.0 | 63.7   |
| 52.5°  | 863.4 | 851.3 | 815.9 | 755.2 | 679.8 | 593.8 | 498.2 | 399.1 | 295.9 | 201.8 | 48.6   |
| 55°    | 853.3 | 842.2 | 805.3 | 746.1 | 666.2 | 579.7 | 484.1 | 383.4 | 280.2 | 183.1 | 34.9   |
| 57.5°  | 837.6 | 827.5 | 792.1 | 731.4 | 652.5 | 564.0 | 468.4 | 366.2 | 260.5 | 164.4 | 24.3   |
| 60°    | 818.4 | 808.3 | 773.9 | 714.7 | 636.8 | 546.3 | 451.2 | 348.5 | 242.8 | 145.7 | 15.2   |
| 62.5°  | 798.2 | 788.6 | 752.7 | 694.0 | 617.1 | 527.6 | 432.5 | 330.8 | 224.1 | 128.5 | 9.1    |
| 65°    | 771.4 | 762.3 | 729.9 | 669.2 | 595.3 | 507.3 | 411.7 | 309.6 | 204.9 | 109.3 | 5.1    |
| 67.5°  | 743.0 | 735.0 | 702.1 | 646.4 | 570.1 | 485.1 | 390.5 | 288.8 | 184.6 | 92.6  | 2.5    |
| 70°    | 712.7 | 702.6 | 672.2 | 615.6 | 544.3 | 459.8 | 367.2 | 267.6 | 165.4 | 76.4  | 0.0    |
| 72.5°  | 677.3 | 669.7 | 640.4 | 586.7 | 514.4 | 433.0 | 343.5 | 244.3 | 144.2 | 60.7  | 0.5    |
| 75°    | 642.9 | 633.3 | 606.5 | 555.9 | 485.1 | 404.7 | 317.1 | 222.6 | 123.4 | 46.5  | 0.5    |
| 77.5°  | 598.4 | 595.3 | 570.1 | 521.0 | 457.3 | 377.3 | 288.3 | 196.3 | 103.7 | 33.4  | 0.5    |
| 80°    | 553.9 | 550.8 | 531.1 | 486.1 | 424.9 | 345.0 | 261.5 | 171.5 | 84.5  | 22.3  | 0.5    |
| 82.5°  | 509.9 | 505.8 | 487.1 | 449.7 | 392.0 | 317.7 | 233.7 | 146.7 | 66.8  | 13.7  | 0.5    |
| 85°    | 470.4 | 465.4 | 445.1 | 410.7 | 358.1 | 286.8 | 204.9 | 122.4 | 49.6  | 7.6   | 1.0    |
| 87.5°  | 436.5 | 433.0 | 410.7 | 375.3 | 323.7 | 258.0 | 179.6 | 99.1  | 34.9  | 3.5   | 1.5    |
| 90°    | 407.7 | 400.1 | 380.4 | 342.9 | 291.4 | 226.1 | 152.8 | 79.4  | 23.3  | 2.0   | 2.0    |
| 92.5°  | 379.4 | 372.8 | 351.0 | 312.6 | 262.5 | 198.8 | 127.0 | 60.7  | 14.7  | 1.0   | 2.5    |
| 95°    | 350.0 | 342.9 | 321.7 | 286.3 | 233.2 | 171.0 | 104.2 | 44.5  | 8.1   | 1.0   | 2.5    |
| 97.5°  | 321.2 | 314.6 | 292.4 | 257.0 | 206.9 | 146.7 | 82.4  | 31.4  | 4.0   | 1.0   | 2.0    |
| 100°   | 294.4 | 286.8 | 266.6 | 231.2 | 180.6 | 122.4 | 63.7  | 20.2  | 2.5   | 1.0   | 2.0    |
| 102.5° | 266.1 | 260.0 | 239.3 | 204.9 | 153.3 | 99.6  | 47.5  | 12.6  | 1.0   | 1.0   | 1.5    |
| 105°   | 240.8 | 233.2 | 212.9 | 177.5 | 130.5 | 78.4  | 33.4  | 7.6   | 1.0   | 1.0   | 1.5    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 30°   | 40°  | 50°  | 60° | 70° | 80° | 90° | 112.5° |
|--------|-------|-------|-------|-------|------|------|-----|-----|-----|-----|--------|
| 112.5° | 156.8 | 150.7 | 133.0 | 103.2 | 66.3 | 30.9 | 9.1 | 1.5 | 1.5 | 1.5 | 1.5    |
| 115°   | 131.0 | 121.9 | 106.2 | 79.9  | 49.1 | 20.2 | 4.6 | 1.5 | 1.5 | 1.5 | 1.5    |
| 117.5° | 104.7 | 97.1  | 86.0  | 60.7  | 32.4 | 13.2 | 2.5 | 1.5 | 1.5 | 1.5 | 1.5    |
| 120°   | 81.9  | 74.9  | 62.2  | 42.0  | 21.8 | 7.6  | 1.0 | 1.5 | 1.5 | 1.5 | 1.5    |
| 122.5° | 58.7  | 53.1  | 42.0  | 27.3  | 13.2 | 3.5  | 1.5 | 1.5 | 2.0 | 2.0 | 1.5    |
| 125°   | 38.9  | 35.9  | 27.8  | 16.7  | 8.1  | 1.5  | 1.5 | 1.5 | 2.0 | 2.0 | 1.5    |
| 127.5° | 25.3  | 22.8  | 16.2  | 9.6   | 3.5  | 1.5  | 1.5 | 2.0 | 2.0 | 2.0 | 1.5    |
| 130°   | 14.2  | 12.6  | 9.6   | 5.6   | 1.5  | 1.5  | 1.5 | 2.0 | 2.0 | 2.0 | 1.5    |
| 132.5° | 8.1   | 7.6   | 5.1   | 1.0   | 1.5  | 1.5  | 1.5 | 2.0 | 2.0 | 2.0 | 2.0    |
| 135°   | 2.0   | 1.0   | 1.0   | 1.0   | 1.5  | 1.5  | 2.0 | 2.0 | 2.5 | 2.5 | 2.0    |
| 137.5° | 0.5   | 0.5   | 1.0   | 1.0   | 1.5  | 1.5  | 2.0 | 2.5 | 2.5 | 2.5 | 2.0    |
| 140°   | 0.5   | 0.5   | 1.0   | 1.5   | 1.5  | 1.5  | 2.0 | 2.5 | 2.5 | 2.5 | 2.0    |
| 142.5° | 0.5   | 1.0   | 1.0   | 1.5   | 1.5  | 2.0  | 2.0 | 2.5 | 2.5 | 2.0 | 2.0    |
| 145°   | 0.5   | 1.0   | 1.0   | 1.5   | 1.5  | 2.0  | 2.0 | 2.5 | 2.0 | 2.0 | 2.0    |
| 147.5° | 1.0   | 1.0   | 1.0   | 1.5   | 1.5  | 2.0  | 2.0 | 2.5 | 2.5 | 2.0 | 2.0    |
| 150°   | 0.5   | 1.0   | 1.0   | 1.5   | 2.0  | 2.0  | 2.0 | 2.5 | 2.0 | 2.0 | 2.0    |
| 152.5° | 0.5   | 1.0   | 1.0   | 1.5   | 2.0  | 2.0  | 2.0 | 2.5 | 2.0 | 2.0 | 2.0    |
| 155°   | 1.0   | 1.0   | 1.0   | 1.5   | 2.0  | 2.0  | 2.0 | 2.5 | 2.0 | 2.0 | 2.5    |
| 157.5° | 1.0   | 1.0   | 1.0   | 1.5   | 2.0  | 2.0  | 2.0 | 2.5 | 2.0 | 2.0 | 2.5    |
| 160°   | 1.0   | 1.0   | 1.0   | 1.5   | 1.5  | 2.0  | 2.0 | 2.0 | 2.0 | 2.0 | 2.0    |
| 162.5° | 1.0   | 1.0   | 1.0   | 1.5   | 1.5  | 2.0  | 2.0 | 2.0 | 2.0 | 2.0 | 2.0    |
| 165°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.5  | 1.5  | 2.0 | 2.0 | 2.0 | 2.0 | 2.0    |
| 167.5° | 1.0   | 1.0   | 1.0   | 1.5   | 1.5  | 1.5  | 2.0 | 2.0 | 2.0 | 2.0 | 2.0    |
| 170°   | 1.0   | 1.0   | 1.0   | 1.5   | 1.5  | 1.5  | 2.0 | 2.5 | 2.5 | 2.5 | 2.5    |
| 172.5° | 1.0   | 1.0   | 1.0   | 1.5   | 1.5  | 2.0  | 2.0 | 2.5 | 2.5 | 2.5 | 2.5    |
| 175°   | 1.0   | 1.0   | 1.0   | 1.5   | 1.5  | 2.0  | 2.0 | 2.5 | 2.5 | 2.5 | 2.5    |
| 177.5° | 0.5   | 1.0   | 1.0   | 1.5   | 1.5  | 2.0  | 2.0 | 2.5 | 2.5 | 2.5 | 2.0    |
| 180°   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5  | 1.5  | 1.5 | 1.5 | 1.5 | 1.5 | 1.5    |



TEST NUMBER: P551486

CATALOG NUMBER: FCC-X-2-LD4-2LO-30-UNV-82-87-ED1D

**CANDELA DISTRIBUTION (continued):**

|        | 135°  | 157.5° | 180°  |
|--------|-------|--------|-------|
| 0°     | 397.1 | 397.1  | 397.1 |
| 2.5°   | 377.8 | 370.8  | 368.7 |
| 5°     | 357.6 | 346.0  | 339.4 |
| 7.5°   | 337.4 | 321.7  | 314.1 |
| 10°    | 318.7 | 296.4  | 288.3 |
| 12.5°  | 296.4 | 270.6  | 258.0 |
| 15°    | 275.2 | 241.8  | 229.6 |
| 17.5°  | 251.4 | 214.0  | 199.8 |
| 20°    | 229.1 | 186.1  | 171.5 |
| 22.5°  | 203.8 | 158.8  | 142.6 |
| 25°    | 181.1 | 131.5  | 113.3 |
| 27.5°  | 155.8 | 103.7  | 88.0  |
| 30°    | 132.0 | 79.4   | 63.7  |
| 32.5°  | 109.3 | 58.2   | 44.0  |
| 35°    | 88.0  | 39.5   | 27.8  |
| 37.5°  | 67.8  | 24.3   | 14.2  |
| 40°    | 49.1  | 12.6   | 6.6   |
| 42.5°  | 32.9  | 6.1    | 3.5   |
| 45°    | 20.2  | 3.0    | 0.0   |
| 47.5°  | 11.6  | 0.0    | 0.0   |
| 50°    | 6.1   | 0.0    | 0.0   |
| 52.5°  | 2.5   | 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    | 1.5   |
| 80°    | 1.0   | 2.0    | 2.5   |
| 82.5°  | 2.0   | 2.5    | 2.5   |
| 85°    | 2.0   | 2.5    | 3.0   |
| 87.5°  | 2.5   | 3.0    | 3.5   |
| 90°    | 3.0   | 3.5    | 3.5   |
| 92.5°  | 3.0   | 4.0    | 4.0   |
| 95°    | 3.5   | 4.0    | 4.6   |
| 97.5°  | 4.0   | 4.6    | 4.6   |
| 100°   | 3.5   | 4.6    | 5.1   |
| 102.5° | 3.0   | 4.6    | 4.6   |
| 105°   | 2.5   | 3.5    | 4.0   |





TEST NUMBER: P551486

CATALOG NUMBER: FCC-X-2-LD4-2LO-30-UNV-82-87-ED1D

**CANDELA DISTRIBUTION (continued):**

|        | 135° | 157.5° | 180° |
|--------|------|--------|------|
| 112.5° | 2.0  | 2.5    | 2.5  |
| 115°   | 1.5  | 2.0    | 2.5  |
| 117.5° | 1.5  | 2.0    | 2.0  |
| 120°   | 1.5  | 1.5    | 2.0  |
| 122.5° | 1.5  | 1.5    | 2.0  |
| 125°   | 1.5  | 1.5    | 2.0  |
| 127.5° | 2.0  | 1.5    | 1.5  |
| 130°   | 1.5  | 1.5    | 1.5  |
| 132.5° | 2.0  | 1.5    | 1.5  |
| 135°   | 2.0  | 1.5    | 1.5  |
| 137.5° | 2.0  | 1.5    | 1.5  |
| 140°   | 2.0  | 1.5    | 1.5  |
| 142.5° | 2.0  | 1.5    | 1.5  |
| 145°   | 1.5  | 1.5    | 1.5  |
| 147.5° | 1.5  | 1.5    | 1.5  |
| 150°   | 1.5  | 1.5    | 1.0  |
| 152.5° | 1.5  | 1.0    | 1.0  |
| 155°   | 1.5  | 1.0    | 0.5  |
| 157.5° | 2.0  | 1.0    | 0.5  |
| 160°   | 1.5  | 1.0    | 0.5  |
| 162.5° | 1.5  | 1.0    | 0.5  |
| 165°   | 1.5  | 1.0    | 0.0  |
| 167.5° | 1.5  | 1.0    | 0.5  |
| 170°   | 1.5  | 1.0    | 0.5  |
| 172.5° | 1.5  | 1.0    | 0.5  |
| 175°   | 1.5  | 0.5    | 0.5  |
| 177.5° | 1.5  | 0.5    | 0.5  |
| 180°   | 1.5  | 1.5    | 1.5  |



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







|        |       |       |       |       |       |      |      |     |     |     |     |
|--------|-------|-------|-------|-------|-------|------|------|-----|-----|-----|-----|
| 107.5° | 212.4 | 206.4 | 186.1 | 152.8 | 106.7 | 59.7 | 22.3 | 4.0 | 1.0 | 1.5 | 1.5 |
| 110°   | 185.1 | 180.1 | 159.3 | 127.0 | 86.0  | 44.5 | 14.7 | 2.5 | 1.5 | 1.5 | 1.5 |







|        |     |     |     |
|--------|-----|-----|-----|
| 107.5° | 2.0 | 3.0 | 3.5 |
| 110°   | 2.0 | 2.5 | 3.0 |



(END OF REPORT)