

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: P550652

Luminaire Tested: **FCC-X-2-LD4-1HI-50-UNV-82-86-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: P550652  
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-LD4-1HI-50-UNV-82-86-ED1D  
Description: FCC CORNER MOUNT LUMINAIRE WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 5000K, AND 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

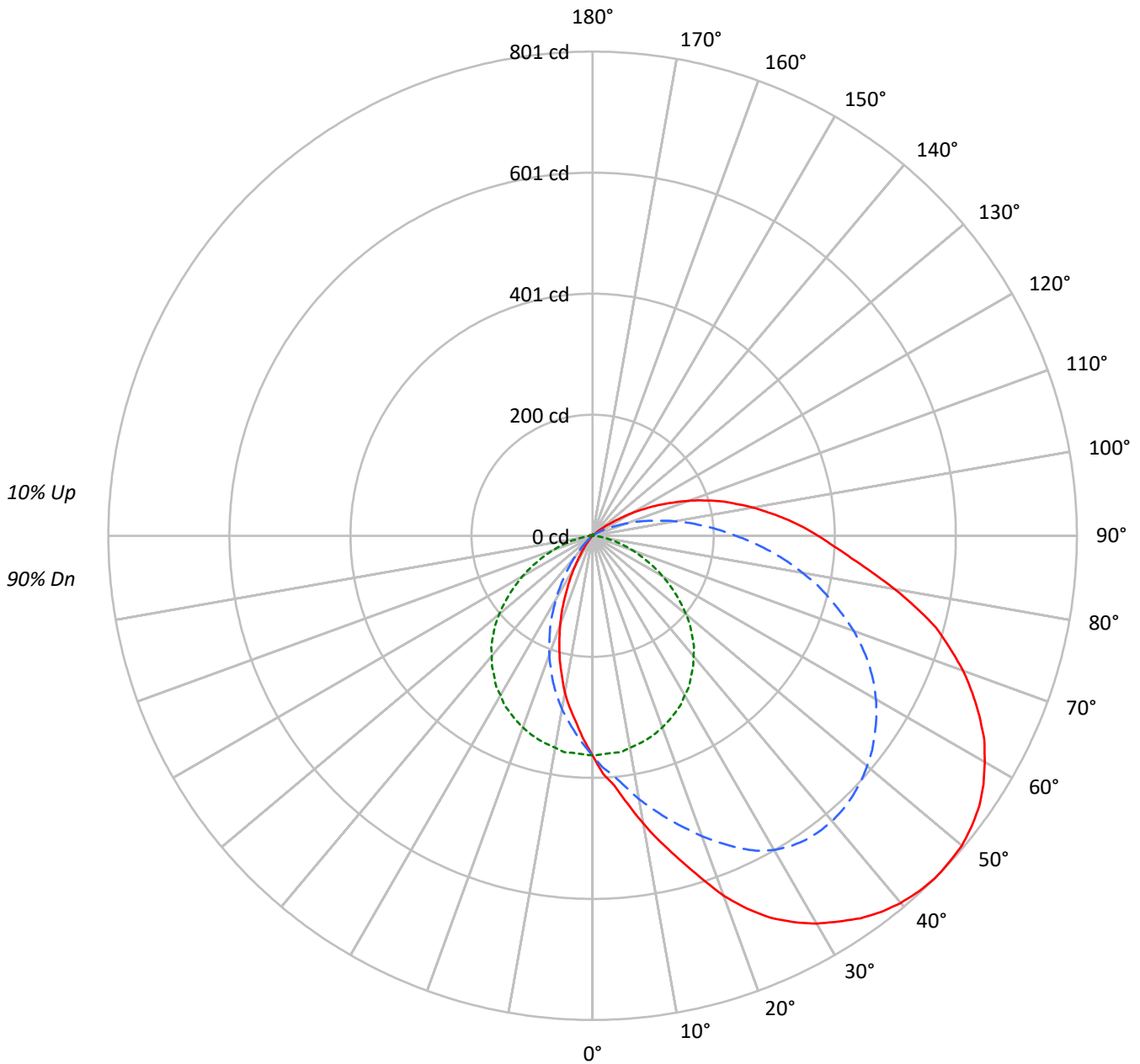
Lumens per Lamp: N/A  
Luminaire Lumens: 1796.1 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')  
CIE Type: Semi-Direct

Input Watts (W): 21.7  
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: P550652

CATALOG NUMBER: FCC-X-2-LD4-1HI-50-UNV-82-86-ED1D

### Luminous Intensity Polar Plot





TEST NUMBER: P550652

CATALOG NUMBER: FCC-X-2-LD4-1HI-50-UNV-82-86-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°  | 3911 | 3911 | 3911 |
| 5°  | 4293 | 3853 | 3214 |
| 10° | 4857 | 3806 | 2650 |
| 15° | 5444 | 3758 | 2065 |
| 20° | 6140 | 3697 | 1521 |
| 25° | 6717 | 3625 | 999  |
| 30° | 7146 | 3530 | 562  |
| 35° | 7518 | 3428 | 248  |
| 40° | 7847 | 3301 | 59   |
| 45° | 8130 | 3143 | 0    |
| 50° | 8367 | 2934 | 0    |
| 55° | 8547 | 2667 | 0    |
| 60° | 8639 | 2359 | 0    |
| 65° | 8674 | 2009 | 0    |
| 70° | 8646 | 1637 | 0    |
| 75° | 8535 | 1208 | 7    |
| 80° | 8190 | 740  | 37   |
| 85° | 7916 | 351  | 51   |



TEST NUMBER: P550652

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 34.8   | 1.9       |
| 10°-20°   | 104.2  | 5.8       |
| 20°-30°   | 168.7  | 9.4       |
| 30°-40°   | 216.7  | 12.1      |
| 40°-50°   | 245.4  | 13.7      |
| 50°-60°   | 254.2  | 14.2      |
| 60°-70°   | 239.7  | 13.3      |
| 70°-80°   | 200.9  | 11.2      |
| 80°-90°   | 145.6  | 8.1       |
| 90°-100°  | 95.7   | 5.3       |
| 100°-110° | 55.3   | 3.1       |
| 110°-120° | 24.4   | 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°    | 307.7  | 17.1      |
| 0°-40°    | 524.5  | 29.2      |
| 0°-60°    | 1024.0 | 57.0      |
| 0°-90°    | 1610.3 | 89.7      |
| 90°-120°  | 175.4  | 9.8       |
| 90°-150°  | 184.5  | 10.3      |
| 90°-180°  | 186.0  | 10.4      |
| 0°-180°   | 1796.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0°   | 363 | 363 | 363 | 363  | 363  |      |
| 5°   | 415 | 398 | 360 | 327  | 310  | 42   |
| 15°  | 554 | 486 | 348 | 252  | 210  | 160  |
| 25°  | 697 | 570 | 323 | 166  | 104  | 322  |
| 35°  | 772 | 614 | 284 | 80   | 26   | 484  |
| 45°  | 801 | 608 | 232 | 18   | 0    | 618  |
| 55°  | 781 | 570 | 168 | 0    | 0    | 697  |
| 65°  | 706 | 504 | 100 | 0    | 0    | 698  |
| 75°  | 588 | 407 | 43  | 0    | 0    | 617  |
| 85°  | 430 | 295 | 7   | 2    | 3    | 368  |
| 90°  | 373 | 237 | 2   | 3    | 3    | 205  |
| 95°  | 320 | 185 | 1   | 3    | 4    | 251  |
| 105° | 220 | 96  | 1   | 2    | 4    | 232  |
| 115° | 120 | 32  | 1   | 1    | 2    | 120  |
| 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: P550652

CATALOG NUMBER: FCC-X-2-LD4-1HI-50-UNV-82-86-ED1D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 30°   | 40°   | 50°   | 60°   | 70°   | 80°   | 90°   | 112.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 363.3 | 363.3 | 363.3 | 363.3 | 363.3 | 363.3 | 363.3 | 363.3 | 363.3 | 363.3 | 363.3  |
| 2.5°   | 393.8 | 393.4 | 392.0 | 389.7 | 386.4 | 380.9 | 376.2 | 372.1 | 366.5 | 361.9 | 353.1  |
| 5°     | 414.7 | 412.3 | 410.5 | 408.2 | 400.8 | 395.7 | 387.4 | 378.1 | 369.3 | 360.5 | 342.9  |
| 7.5°   | 448.0 | 444.3 | 441.5 | 435.0 | 424.8 | 413.3 | 400.3 | 391.5 | 385.5 | 361.0 | 330.9  |
| 10°    | 483.6 | 480.4 | 474.8 | 463.2 | 450.8 | 434.1 | 415.6 | 394.8 | 376.2 | 355.9 | 320.2  |
| 12.5°  | 518.8 | 514.2 | 506.3 | 491.5 | 473.9 | 453.1 | 427.6 | 403.1 | 376.7 | 352.6 | 307.8  |
| 15°    | 554.0 | 548.9 | 540.5 | 522.5 | 499.3 | 472.0 | 441.0 | 410.0 | 379.0 | 348.5 | 294.8  |
| 17.5°  | 592.4 | 585.4 | 572.9 | 552.6 | 523.4 | 489.6 | 453.1 | 415.6 | 378.1 | 343.4 | 280.9  |
| 20°    | 633.6 | 623.8 | 610.4 | 583.1 | 548.9 | 509.1 | 465.1 | 421.1 | 377.6 | 337.4 | 265.2  |
| 22.5°  | 667.8 | 658.1 | 643.3 | 615.0 | 573.9 | 525.3 | 475.3 | 424.8 | 375.8 | 330.4 | 250.4  |
| 25°    | 697.4 | 689.6 | 673.4 | 641.0 | 597.5 | 542.4 | 485.0 | 427.6 | 373.0 | 323.0 | 234.6  |
| 27.5°  | 720.6 | 713.2 | 695.1 | 661.8 | 617.4 | 557.7 | 492.4 | 429.0 | 369.3 | 315.6 | 218.4  |
| 30°    | 740.9 | 733.5 | 711.8 | 677.5 | 630.8 | 569.7 | 499.8 | 429.5 | 364.7 | 304.5 | 200.8  |
| 32.5°  | 756.7 | 749.7 | 727.5 | 690.9 | 640.0 | 578.0 | 504.0 | 429.0 | 358.7 | 296.6 | 181.9  |
| 35°    | 772.4 | 765.4 | 739.5 | 700.7 | 647.0 | 581.7 | 507.2 | 426.7 | 351.3 | 283.7 | 163.8  |
| 37.5°  | 784.4 | 776.6 | 750.2 | 707.1 | 650.2 | 582.6 | 506.8 | 423.4 | 343.4 | 273.0 | 145.8  |
| 40°    | 792.8 | 784.4 | 756.2 | 710.8 | 651.1 | 581.3 | 503.0 | 417.9 | 334.1 | 259.6 | 126.8  |
| 42.5°  | 798.3 | 789.1 | 759.0 | 716.4 | 649.3 | 577.6 | 497.5 | 411.0 | 324.0 | 248.1 | 108.8  |
| 45°    | 801.1 | 791.4 | 759.4 | 711.8 | 646.1 | 570.6 | 489.2 | 402.2 | 312.8 | 232.3 | 90.7   |
| 47.5°  | 799.7 | 789.1 | 757.1 | 706.7 | 640.0 | 563.2 | 479.9 | 391.5 | 299.4 | 218.4 | 73.6   |
| 50°    | 797.4 | 786.3 | 752.0 | 700.2 | 631.7 | 554.0 | 469.7 | 378.6 | 285.5 | 201.3 | 58.3   |
| 52.5°  | 790.0 | 778.9 | 746.5 | 690.9 | 622.0 | 543.3 | 455.8 | 365.1 | 270.7 | 184.7 | 44.4   |
| 55°    | 780.7 | 770.5 | 736.8 | 682.6 | 609.5 | 530.4 | 442.9 | 350.8 | 256.4 | 167.5 | 31.9   |
| 57.5°  | 766.4 | 757.1 | 724.7 | 669.2 | 597.0 | 516.0 | 428.5 | 335.1 | 238.3 | 150.4 | 22.2   |
| 60°    | 748.8 | 739.5 | 708.1 | 653.9 | 582.6 | 499.8 | 412.8 | 318.9 | 222.1 | 133.3 | 13.9   |
| 62.5°  | 730.3 | 721.5 | 688.6 | 634.9 | 564.6 | 482.7 | 395.7 | 302.7 | 205.0 | 117.5 | 8.3    |
| 65°    | 705.7 | 697.4 | 667.8 | 612.3 | 544.7 | 464.2 | 376.7 | 283.2 | 187.4 | 100.0 | 4.6    |
| 67.5°  | 679.8 | 672.4 | 642.3 | 591.4 | 521.6 | 443.8 | 357.3 | 264.3 | 168.9 | 84.7  | 2.3    |
| 70°    | 652.1 | 642.8 | 615.0 | 563.2 | 498.0 | 420.7 | 336.0 | 244.8 | 151.3 | 69.9  | 0.0    |
| 72.5°  | 619.7 | 612.7 | 585.9 | 536.8 | 470.7 | 396.1 | 314.2 | 223.5 | 131.9 | 55.5  | 0.5    |
| 75°    | 588.2 | 579.4 | 554.9 | 508.6 | 443.8 | 370.2 | 290.2 | 203.6 | 112.9 | 42.6  | 0.5    |
| 77.5°  | 547.5 | 544.7 | 521.6 | 476.7 | 418.4 | 345.2 | 263.8 | 179.6 | 94.9  | 30.5  | 0.5    |
| 80°    | 506.8 | 504.0 | 485.9 | 444.7 | 388.7 | 315.6 | 239.3 | 156.9 | 77.3  | 20.4  | 0.5    |
| 82.5°  | 466.5 | 462.8 | 445.7 | 411.4 | 358.7 | 290.6 | 213.8 | 134.2 | 61.1  | 12.5  | 0.5    |
| 85°    | 430.4 | 425.8 | 407.3 | 375.8 | 327.7 | 262.4 | 187.4 | 112.0 | 45.4  | 6.9   | 0.9    |
| 87.5°  | 399.4 | 396.1 | 375.8 | 343.4 | 296.2 | 236.0 | 164.3 | 90.7  | 31.9  | 3.2   | 1.4    |
| 90°    | 373.0 | 366.1 | 348.0 | 313.8 | 266.6 | 206.9 | 139.8 | 72.7  | 21.3  | 1.9   | 1.9    |
| 92.5°  | 347.1 | 341.1 | 321.2 | 286.0 | 240.2 | 181.9 | 116.2 | 55.5  | 13.4  | 0.9   | 2.3    |
| 95°    | 320.2 | 313.8 | 294.3 | 261.9 | 213.3 | 156.4 | 95.3  | 40.7  | 7.4   | 0.9   | 2.3    |
| 97.5°  | 293.9 | 287.9 | 267.5 | 235.1 | 189.3 | 134.2 | 75.4  | 28.7  | 3.7   | 0.9   | 1.9    |
| 100°   | 269.3 | 262.4 | 243.9 | 211.5 | 165.2 | 112.0 | 58.3  | 18.5  | 2.3   | 0.9   | 1.9    |
| 102.5° | 243.4 | 237.9 | 218.9 | 187.4 | 140.2 | 91.2  | 43.5  | 11.6  | 0.9   | 0.9   | 1.4    |
| 105°   | 220.3 | 213.3 | 194.8 | 162.4 | 119.4 | 71.7  | 30.5  | 6.9   | 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° | 143.5 | 137.9 | 121.7 | 94.4 | 60.6 | 28.2 | 8.3 | 1.4 | 1.4 | 1.4 | 1.4    |
| 115°   | 119.9 | 111.5 | 97.2  | 73.1 | 44.9 | 18.5 | 4.2 | 1.4 | 1.4 | 1.4 | 1.4    |
| 117.5° | 95.8  | 88.9  | 78.7  | 55.5 | 29.6 | 12.0 | 2.3 | 1.4 | 1.4 | 1.4 | 1.4    |
| 120°   | 75.0  | 68.5  | 56.9  | 38.4 | 19.9 | 6.9  | 0.9 | 1.4 | 1.4 | 1.4 | 1.4    |
| 122.5° | 53.7  | 48.6  | 38.4  | 25.0 | 12.0 | 3.2  | 1.4 | 1.4 | 1.9 | 1.9 | 1.4    |
| 125°   | 35.6  | 32.9  | 25.5  | 15.3 | 7.4  | 1.4  | 1.4 | 1.4 | 1.9 | 1.9 | 1.4    |
| 127.5° | 23.1  | 20.8  | 14.8  | 8.8  | 3.2  | 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   | 6.9   | 4.6   | 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°     | 363.3 | 363.3  | 363.3 |
| 2.5°   | 345.7 | 339.2  | 337.4 |
| 5°     | 327.2 | 316.5  | 310.5 |
| 7.5°   | 308.7 | 294.3  | 287.4 |
| 10°    | 291.6 | 271.2  | 263.8 |
| 12.5°  | 271.2 | 247.6  | 236.0 |
| 15°    | 251.8 | 221.2  | 210.1 |
| 17.5°  | 230.0 | 195.8  | 182.8 |
| 20°    | 209.6 | 170.3  | 156.9 |
| 22.5°  | 186.5 | 145.3  | 130.5 |
| 25°    | 165.7 | 120.3  | 103.7 |
| 27.5°  | 142.5 | 94.9   | 80.5  |
| 30°    | 120.8 | 72.7   | 58.3  |
| 32.5°  | 100.0 | 53.2   | 40.3  |
| 35°    | 80.5  | 36.1   | 25.5  |
| 37.5°  | 62.0  | 22.2   | 13.0  |
| 40°    | 44.9  | 11.6   | 6.0   |
| 42.5°  | 30.1  | 5.6    | 3.2   |
| 45°    | 18.5  | 2.8    | 0.0   |
| 47.5°  | 10.6  | 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    | 3.2   |
| 90°    | 2.8   | 3.2    | 3.2   |
| 92.5°  | 2.8   | 3.7    | 3.7   |
| 95°    | 3.2   | 3.7    | 4.2   |
| 97.5°  | 3.7   | 4.2    | 4.2   |
| 100°   | 3.2   | 4.2    | 4.6   |
| 102.5° | 2.8   | 4.2    | 4.2   |
| 105°   | 2.3   | 3.2    | 3.7   |





TEST NUMBER: P550652

CATALOG NUMBER: FCC-X-2-LD4-1HI-50-UNV-82-86-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° | 194.4 | 188.8 | 170.3 | 139.8 | 97.6 | 54.6 | 20.4 | 3.7 | 0.9 | 1.4 | 1.4 |
| 110°   | 169.4 | 164.8 | 145.8 | 116.2 | 78.7 | 40.7 | 13.4 | 2.3 | 1.4 | 1.4 | 1.4 |







|        |     |     |     |
|--------|-----|-----|-----|
| 107.5° | 1.9 | 2.8 | 3.2 |
| 110°   | 1.9 | 2.3 | 2.8 |



(END OF REPORT)