

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: P550608

Luminaire Tested: **FCC-X-2-LD4-1HI-40-UNV-93-88-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: P550608  
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-40-UNV-93-88-ED1D  
Description: FCC CORNER MOUNT LUMINAIRE WITH .156 CLEAR TEMPERED GLASS FIXTURE  
SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 4000K, AND 80 CRI  
LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

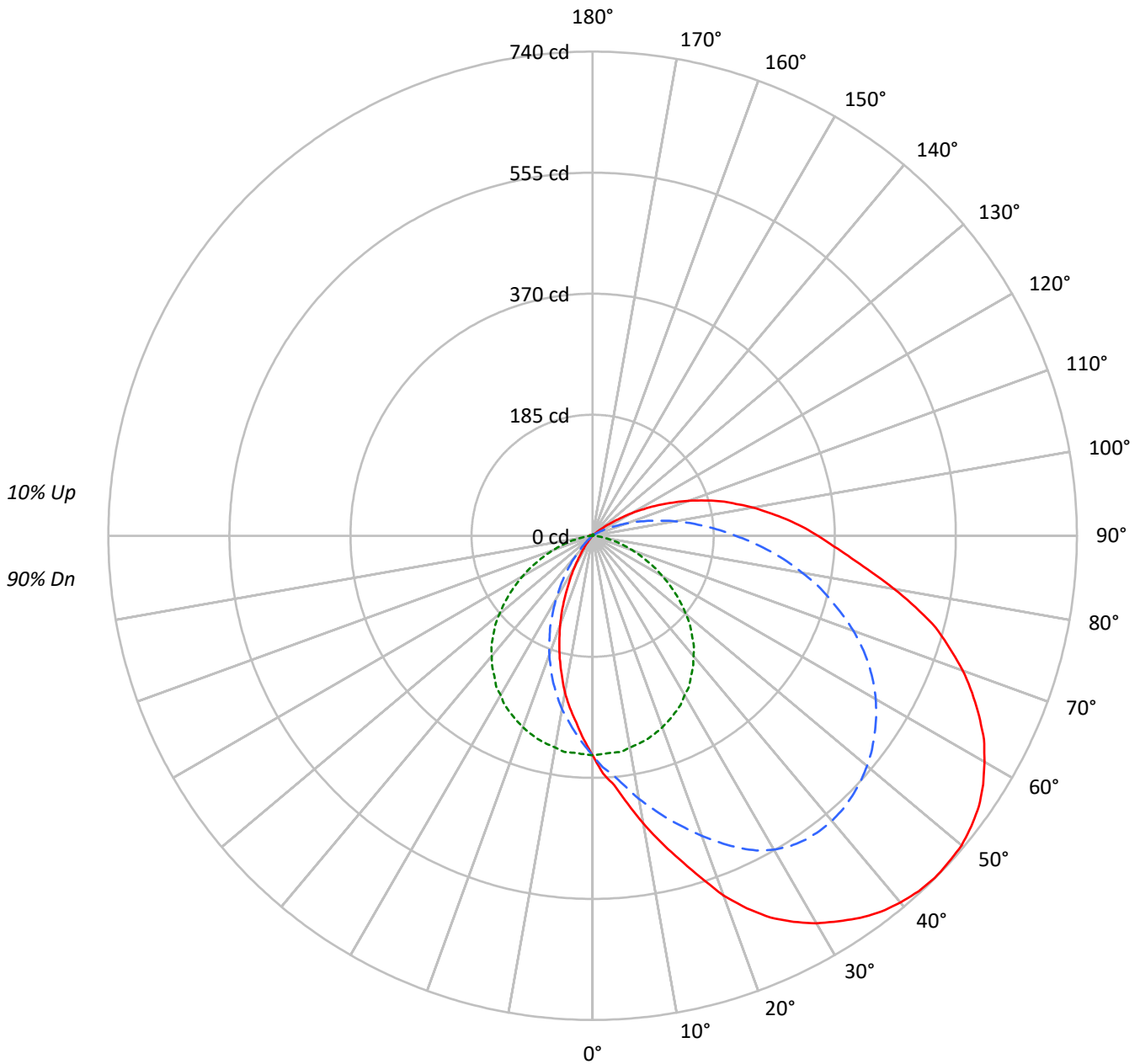
Lumens per Lamp: N/A  
Luminaire Lumens: 1658.0 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')  
CIE Type: Semi-Direct

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: P550608

CATALOG NUMBER: FCC-X-2-LD4-1HI-40-UNV-93-88-ED1D

### Luminous Intensity Polar Plot





TEST NUMBER: P550608

CATALOG NUMBER: FCC-X-2-LD4-1HI-40-UNV-93-88-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°  | 3610 | 3610 | 3610 |
| 5°  | 3963 | 3557 | 2968 |
| 10° | 4485 | 3513 | 2446 |
| 15° | 5026 | 3469 | 1906 |
| 20° | 5668 | 3412 | 1403 |
| 25° | 6201 | 3347 | 922  |
| 30° | 6597 | 3259 | 519  |
| 35° | 6939 | 3164 | 229  |
| 40° | 7244 | 3048 | 55   |
| 45° | 7505 | 2902 | 0    |
| 50° | 7724 | 2708 | 0    |
| 55° | 7890 | 2463 | 0    |
| 60° | 7975 | 2177 | 0    |
| 65° | 8007 | 1854 | 0    |
| 70° | 7981 | 1511 | 0    |
| 75° | 7879 | 1115 | 6    |
| 80° | 7560 | 682  | 34   |
| 85° | 7307 | 325  | 48   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 32.1   | 1.9       |
| 10°-20°   | 96.2   | 5.8       |
| 20°-30°   | 155.8  | 9.4       |
| 30°-40°   | 200.1  | 12.1      |
| 40°-50°   | 226.5  | 13.7      |
| 50°-60°   | 234.7  | 14.2      |
| 60°-70°   | 221.3  | 13.3      |
| 70°-80°   | 185.5  | 11.2      |
| 80°-90°   | 134.4  | 8.1       |
| 90°-100°  | 88.4   | 5.3       |
| 100°-110° | 51.0   | 3.1       |
| 110°-120° | 22.5   | 1.4       |
| 120°-130° | 6.1    | 0.4       |
| 130°-140° | 1.4    | 0.1       |
| 140°-150° | 0.9    | 0.1       |
| 150°-160° | 0.6    | 0.0       |
| 160°-170° | 0.4    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-30°    | 284.1  | 17.1      |
| 0°-40°    | 484.2  | 29.2      |
| 0°-60°    | 945.3  | 57.0      |
| 0°-90°    | 1486.5 | 89.7      |
| 90°-120°  | 161.9  | 9.8       |
| 90°-150°  | 170.3  | 10.3      |
| 90°-180°  | 171.0  | 10.3      |
| 0°-180°   | 1658.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0°   | 335 | 335 | 335 | 335  | 335  |      |
| 5°   | 383 | 368 | 333 | 302  | 287  | 39   |
| 15°  | 511 | 448 | 322 | 232  | 194  | 147  |
| 25°  | 644 | 526 | 298 | 153  | 96   | 298  |
| 35°  | 713 | 567 | 262 | 74   | 24   | 447  |
| 45°  | 740 | 562 | 214 | 17   | 0    | 571  |
| 55°  | 721 | 526 | 155 | 0    | 0    | 644  |
| 65°  | 652 | 466 | 92  | 0    | 0    | 645  |
| 75°  | 543 | 376 | 39  | 0    | 0    | 570  |
| 85°  | 397 | 272 | 6   | 2    | 3    | 339  |
| 90°  | 344 | 219 | 2   | 3    | 3    | 189  |
| 95°  | 296 | 171 | 1   | 3    | 4    | 232  |
| 105° | 203 | 88  | 1   | 2    | 3    | 215  |
| 115° | 111 | 29  | 1   | 1    | 2    | 111  |
| 125° | 33  | 4   | 2   | 1    | 2    | 33   |
| 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: P550608

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 30°   | 40°   | 50°   | 60°   | 70°   | 80°   | 90°   | 112.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 335.4 | 335.4 | 335.4 | 335.4 | 335.4 | 335.4 | 335.4 | 335.4 | 335.4 | 335.4 | 335.4  |
| 2.5°   | 363.6 | 363.1 | 361.9 | 359.7 | 356.7 | 351.6 | 347.3 | 343.5 | 338.4 | 334.1 | 326.0  |
| 5°     | 382.8 | 380.7 | 379.0 | 376.8 | 370.0 | 365.3 | 357.6 | 349.0 | 340.9 | 332.8 | 316.6  |
| 7.5°   | 413.6 | 410.1 | 407.6 | 401.6 | 392.2 | 381.5 | 369.6 | 361.4 | 355.9 | 333.2 | 305.5  |
| 10°    | 446.5 | 443.5 | 438.3 | 427.7 | 416.1 | 400.7 | 383.7 | 364.4 | 347.3 | 328.5 | 295.6  |
| 12.5°  | 478.9 | 474.6 | 467.4 | 453.7 | 437.5 | 418.3 | 394.8 | 372.1 | 347.8 | 325.5 | 284.1  |
| 15°    | 511.4 | 506.7 | 499.0 | 482.3 | 461.0 | 435.8 | 407.1 | 378.5 | 349.9 | 321.7 | 272.1  |
| 17.5°  | 546.9 | 540.4 | 528.9 | 510.1 | 483.2 | 452.0 | 418.3 | 383.7 | 349.0 | 317.0 | 259.3  |
| 20°    | 584.9 | 575.9 | 563.5 | 538.3 | 506.7 | 470.0 | 429.4 | 388.8 | 348.6 | 311.4 | 244.8  |
| 22.5°  | 616.5 | 607.5 | 593.8 | 567.8 | 529.8 | 484.9 | 438.8 | 392.2 | 346.9 | 305.0 | 231.1  |
| 25°    | 643.8 | 636.6 | 621.6 | 591.7 | 551.6 | 500.7 | 447.7 | 394.8 | 344.3 | 298.2 | 216.6  |
| 27.5°  | 665.2 | 658.4 | 641.7 | 610.9 | 569.9 | 514.8 | 454.6 | 396.0 | 340.9 | 291.4 | 201.7  |
| 30°    | 684.0 | 677.2 | 657.1 | 625.5 | 582.3 | 525.9 | 461.4 | 396.5 | 336.7 | 281.1 | 185.4  |
| 32.5°  | 698.5 | 692.1 | 671.6 | 637.9 | 590.9 | 533.6 | 465.3 | 396.0 | 331.1 | 273.9 | 167.9  |
| 35°    | 713.0 | 706.6 | 682.7 | 646.8 | 597.3 | 537.0 | 468.2 | 393.9 | 324.3 | 261.9 | 151.2  |
| 37.5°  | 724.2 | 716.9 | 692.5 | 652.8 | 600.3 | 537.9 | 467.8 | 390.9 | 317.0 | 252.1 | 134.6  |
| 40°    | 731.8 | 724.2 | 698.1 | 656.2 | 601.1 | 536.6 | 464.4 | 385.8 | 308.5 | 239.7 | 117.1  |
| 42.5°  | 737.0 | 728.4 | 700.7 | 661.3 | 599.4 | 533.2 | 459.3 | 379.4 | 299.1 | 229.0 | 100.4  |
| 45°    | 739.5 | 730.6 | 701.1 | 657.1 | 596.4 | 526.8 | 451.6 | 371.3 | 288.8 | 214.5 | 83.7   |
| 47.5°  | 738.2 | 728.4 | 698.9 | 652.4 | 590.9 | 519.9 | 443.0 | 361.4 | 276.4 | 201.7 | 67.9   |
| 50°    | 736.1 | 725.9 | 694.2 | 646.4 | 583.2 | 511.4 | 433.6 | 349.5 | 263.6 | 185.8 | 53.8   |
| 52.5°  | 729.3 | 719.0 | 689.1 | 637.9 | 574.2 | 501.6 | 420.8 | 337.1 | 249.9 | 170.5 | 41.0   |
| 55°    | 720.7 | 711.3 | 680.1 | 630.2 | 562.7 | 489.6 | 408.9 | 323.8 | 236.7 | 154.7 | 29.5   |
| 57.5°  | 707.5 | 698.9 | 669.0 | 617.8 | 551.1 | 476.4 | 395.6 | 309.3 | 220.0 | 138.8 | 20.5   |
| 60°    | 691.3 | 682.7 | 653.7 | 603.7 | 537.9 | 461.4 | 381.1 | 294.4 | 205.1 | 123.0 | 12.8   |
| 62.5°  | 674.2 | 666.0 | 635.7 | 586.2 | 521.2 | 445.6 | 365.3 | 279.4 | 189.3 | 108.5 | 7.7    |
| 65°    | 651.5 | 643.8 | 616.5 | 565.2 | 502.8 | 428.5 | 347.8 | 261.5 | 173.0 | 92.3  | 4.3    |
| 67.5°  | 627.6 | 620.8 | 593.0 | 546.0 | 481.5 | 409.7 | 329.8 | 243.9 | 155.9 | 78.2  | 2.1    |
| 70°    | 602.0 | 593.4 | 567.8 | 519.9 | 459.7 | 388.3 | 310.2 | 226.0 | 139.7 | 64.5  | 0.0    |
| 72.5°  | 572.1 | 565.6 | 540.9 | 495.6 | 434.5 | 365.7 | 290.1 | 206.4 | 121.8 | 51.3  | 0.4    |
| 75°    | 543.0 | 534.9 | 512.2 | 469.5 | 409.7 | 341.8 | 267.9 | 188.0 | 104.2 | 39.3  | 0.4    |
| 77.5°  | 505.4 | 502.8 | 481.5 | 440.0 | 386.2 | 318.7 | 243.5 | 165.8 | 87.6  | 28.2  | 0.4    |
| 80°    | 467.8 | 465.3 | 448.6 | 410.6 | 358.9 | 291.4 | 220.9 | 144.8 | 71.3  | 18.8  | 0.4    |
| 82.5°  | 430.6 | 427.2 | 411.4 | 379.8 | 331.1 | 268.3 | 197.4 | 123.9 | 56.4  | 11.5  | 0.4    |
| 85°    | 397.3 | 393.0 | 376.0 | 346.9 | 302.5 | 242.2 | 173.0 | 103.4 | 41.9  | 6.4   | 0.9    |
| 87.5°  | 368.7 | 365.7 | 346.9 | 317.0 | 273.4 | 217.9 | 151.7 | 83.7  | 29.5  | 3.0   | 1.3    |
| 90°    | 344.3 | 337.9 | 321.3 | 289.7 | 246.1 | 191.0 | 129.0 | 67.1  | 19.7  | 1.7   | 1.7    |
| 92.5°  | 320.4 | 314.9 | 296.5 | 264.0 | 221.7 | 167.9 | 107.2 | 51.3  | 12.4  | 0.9   | 2.1    |
| 95°    | 295.6 | 289.7 | 271.7 | 241.8 | 197.0 | 144.4 | 88.0  | 37.6  | 6.8   | 0.9   | 2.1    |
| 97.5°  | 271.3 | 265.7 | 246.9 | 217.0 | 174.7 | 123.9 | 69.6  | 26.5  | 3.4   | 0.9   | 1.7    |
| 100°   | 248.6 | 242.2 | 225.1 | 195.2 | 152.5 | 103.4 | 53.8  | 17.1  | 2.1   | 0.9   | 1.7    |
| 102.5° | 224.7 | 219.6 | 202.1 | 173.0 | 129.4 | 84.2  | 40.2  | 10.7  | 0.9   | 0.9   | 1.3    |
| 105°   | 203.4 | 197.0 | 179.9 | 150.0 | 110.2 | 66.2  | 28.2  | 6.4   | 0.9   | 0.9   | 1.3    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 30°  | 40°  | 50°  | 60° | 70° | 80° | 90° | 112.5° |
|--------|-------|-------|-------|------|------|------|-----|-----|-----|-----|--------|
| 112.5° | 132.4 | 127.3 | 112.4 | 87.2 | 56.0 | 26.1 | 7.7 | 1.3 | 1.3 | 1.3 | 1.3    |
| 115°   | 110.7 | 103.0 | 89.7  | 67.5 | 41.4 | 17.1 | 3.8 | 1.3 | 1.3 | 1.3 | 1.3    |
| 117.5° | 88.4  | 82.0  | 72.6  | 51.3 | 27.3 | 11.1 | 2.1 | 1.3 | 1.3 | 1.3 | 1.3    |
| 120°   | 69.2  | 63.2  | 52.5  | 35.5 | 18.4 | 6.4  | 0.9 | 1.3 | 1.3 | 1.3 | 1.3    |
| 122.5° | 49.6  | 44.9  | 35.5  | 23.1 | 11.1 | 3.0  | 1.3 | 1.3 | 1.7 | 1.7 | 1.3    |
| 125°   | 32.9  | 30.3  | 23.5  | 14.1 | 6.8  | 1.3  | 1.3 | 1.3 | 1.7 | 1.7 | 1.3    |
| 127.5° | 21.4  | 19.2  | 13.7  | 8.1  | 3.0  | 1.3  | 1.3 | 1.7 | 1.7 | 1.7 | 1.3    |
| 130°   | 12.0  | 10.7  | 8.1   | 4.7  | 1.3  | 1.3  | 1.3 | 1.7 | 1.7 | 1.7 | 1.3    |
| 132.5° | 6.8   | 6.4   | 4.3   | 0.9  | 1.3  | 1.3  | 1.3 | 1.7 | 1.7 | 1.7 | 1.7    |
| 135°   | 1.7   | 0.9   | 0.9   | 0.9  | 1.3  | 1.3  | 1.7 | 1.7 | 2.1 | 2.1 | 1.7    |
| 137.5° | 0.4   | 0.4   | 0.9   | 0.9  | 1.3  | 1.3  | 1.7 | 2.1 | 2.1 | 2.1 | 1.7    |
| 140°   | 0.4   | 0.4   | 0.9   | 1.3  | 1.3  | 1.3  | 1.7 | 2.1 | 2.1 | 2.1 | 1.7    |
| 142.5° | 0.4   | 0.9   | 0.9   | 1.3  | 1.3  | 1.7  | 1.7 | 2.1 | 2.1 | 1.7 | 1.7    |
| 145°   | 0.4   | 0.9   | 0.9   | 1.3  | 1.3  | 1.7  | 1.7 | 2.1 | 1.7 | 1.7 | 1.7    |
| 147.5° | 0.9   | 0.9   | 0.9   | 1.3  | 1.3  | 1.7  | 1.7 | 2.1 | 2.1 | 1.7 | 1.7    |
| 150°   | 0.4   | 0.9   | 0.9   | 1.3  | 1.7  | 1.7  | 1.7 | 2.1 | 1.7 | 1.7 | 1.7    |
| 152.5° | 0.4   | 0.9   | 0.9   | 1.3  | 1.7  | 1.7  | 1.7 | 2.1 | 1.7 | 1.7 | 1.7    |
| 155°   | 0.9   | 0.9   | 0.9   | 1.3  | 1.7  | 1.7  | 1.7 | 2.1 | 1.7 | 1.7 | 2.1    |
| 157.5° | 0.9   | 0.9   | 0.9   | 1.3  | 1.7  | 1.7  | 1.7 | 2.1 | 1.7 | 1.7 | 2.1    |
| 160°   | 0.9   | 0.9   | 0.9   | 1.3  | 1.3  | 1.7  | 1.7 | 1.7 | 1.7 | 1.7 | 1.7    |
| 162.5° | 0.9   | 0.9   | 0.9   | 1.3  | 1.3  | 1.7  | 1.7 | 1.7 | 1.7 | 1.7 | 1.7    |
| 165°   | 0.9   | 0.9   | 0.9   | 0.9  | 1.3  | 1.3  | 1.7 | 1.7 | 1.7 | 1.7 | 1.7    |
| 167.5° | 0.9   | 0.9   | 0.9   | 1.3  | 1.3  | 1.3  | 1.7 | 1.7 | 1.7 | 1.7 | 1.7    |
| 170°   | 0.9   | 0.9   | 0.9   | 1.3  | 1.3  | 1.3  | 1.7 | 2.1 | 2.1 | 2.1 | 2.1    |
| 172.5° | 0.9   | 0.9   | 0.9   | 1.3  | 1.3  | 1.7  | 1.7 | 2.1 | 2.1 | 2.1 | 2.1    |
| 175°   | 0.9   | 0.9   | 0.9   | 1.3  | 1.3  | 1.7  | 1.7 | 2.1 | 2.1 | 2.1 | 2.1    |
| 177.5° | 0.4   | 0.9   | 0.9   | 1.3  | 1.3  | 1.7  | 1.7 | 2.1 | 2.1 | 2.1 | 1.7    |
| 180°   | 1.3   | 1.3   | 1.3   | 1.3  | 1.3  | 1.3  | 1.3 | 1.3 | 1.3 | 1.3 | 1.3    |



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**CANDELA DISTRIBUTION (continued):**

|        | 135°  | 157.5° | 180°  |
|--------|-------|--------|-------|
| 0°     | 335.4 | 335.4  | 335.4 |
| 2.5°   | 319.1 | 313.2  | 311.4 |
| 5°     | 302.0 | 292.2  | 286.7 |
| 7.5°   | 285.0 | 271.7  | 265.3 |
| 10°    | 269.2 | 250.4  | 243.5 |
| 12.5°  | 250.4 | 228.6  | 217.9 |
| 15°    | 232.4 | 204.2  | 194.0 |
| 17.5°  | 212.3 | 180.7  | 168.8 |
| 20°    | 193.5 | 157.2  | 144.8 |
| 22.5°  | 172.2 | 134.1  | 120.5 |
| 25°    | 152.9 | 111.1  | 95.7  |
| 27.5°  | 131.6 | 87.6   | 74.3  |
| 30°    | 111.5 | 67.1   | 53.8  |
| 32.5°  | 92.3  | 49.1   | 37.2  |
| 35°    | 74.3  | 33.3   | 23.5  |
| 37.5°  | 57.2  | 20.5   | 12.0  |
| 40°    | 41.4  | 10.7   | 5.6   |
| 42.5°  | 27.8  | 5.1    | 3.0   |
| 45°    | 17.1  | 2.6    | 0.0   |
| 47.5°  | 9.8   | 0.0    | 0.0   |
| 50°    | 5.1   | 0.0    | 0.0   |
| 52.5°  | 2.1   | 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°    | 0.4   | 0.4    | 0.4   |
| 77.5°  | 0.4   | 0.9    | 1.3   |
| 80°    | 0.9   | 1.7    | 2.1   |
| 82.5°  | 1.7   | 2.1    | 2.1   |
| 85°    | 1.7   | 2.1    | 2.6   |
| 87.5°  | 2.1   | 2.6    | 3.0   |
| 90°    | 2.6   | 3.0    | 3.0   |
| 92.5°  | 2.6   | 3.4    | 3.4   |
| 95°    | 3.0   | 3.4    | 3.8   |
| 97.5°  | 3.4   | 3.8    | 3.8   |
| 100°   | 3.0   | 3.8    | 4.3   |
| 102.5° | 2.6   | 3.8    | 3.8   |
| 105°   | 2.1   | 3.0    | 3.4   |





TEST NUMBER: P550608

CATALOG NUMBER: FCC-X-2-LD4-1HI-40-UNV-93-88-ED1D

**CANDELA DISTRIBUTION (continued):**

|        | 135° | 157.5° | 180° |
|--------|------|--------|------|
| 112.5° | 1.7  | 2.1    | 2.1  |
| 115°   | 1.3  | 1.7    | 2.1  |
| 117.5° | 1.3  | 1.7    | 1.7  |
| 120°   | 1.3  | 1.3    | 1.7  |
| 122.5° | 1.3  | 1.3    | 1.7  |
| 125°   | 1.3  | 1.3    | 1.7  |
| 127.5° | 1.7  | 1.3    | 1.3  |
| 130°   | 1.3  | 1.3    | 1.3  |
| 132.5° | 1.7  | 1.3    | 1.3  |
| 135°   | 1.7  | 1.3    | 1.3  |
| 137.5° | 1.7  | 1.3    | 1.3  |
| 140°   | 1.7  | 1.3    | 1.3  |
| 142.5° | 1.7  | 1.3    | 1.3  |
| 145°   | 1.3  | 1.3    | 1.3  |
| 147.5° | 1.3  | 1.3    | 1.3  |
| 150°   | 1.3  | 1.3    | 0.9  |
| 152.5° | 1.3  | 0.9    | 0.9  |
| 155°   | 1.3  | 0.9    | 0.4  |
| 157.5° | 1.7  | 0.9    | 0.4  |
| 160°   | 1.3  | 0.9    | 0.4  |
| 162.5° | 1.3  | 0.9    | 0.4  |
| 165°   | 1.3  | 0.9    | 0.0  |
| 167.5° | 1.3  | 0.9    | 0.4  |
| 170°   | 1.3  | 0.9    | 0.4  |
| 172.5° | 1.3  | 0.9    | 0.4  |
| 175°   | 1.3  | 0.4    | 0.4  |
| 177.5° | 1.3  | 0.4    | 0.4  |
| 180°   | 1.3  | 1.3    | 1.3  |



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







|        |       |       |       |       |      |      |      |     |     |     |     |
|--------|-------|-------|-------|-------|------|------|------|-----|-----|-----|-----|
| 107.5° | 179.4 | 174.3 | 157.2 | 129.0 | 90.1 | 50.4 | 18.8 | 3.4 | 0.9 | 1.3 | 1.3 |
| 110°   | 156.4 | 152.1 | 134.6 | 107.2 | 72.6 | 37.6 | 12.4 | 2.1 | 1.3 | 1.3 | 1.3 |







|        |     |     |     |
|--------|-----|-----|-----|
| 107.5° | 1.7 | 2.6 | 3.0 |
| 110°   | 1.7 | 2.1 | 2.6 |



(END OF REPORT)