

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: P550470

Luminaire Tested: **FCC-X-2-LD4-1HI-30-UNV-82-97-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: P550470  
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-30-UNV-82-97-ED1D  
Description: FCC CORNER MOUNT LUMINAIRE WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 3000K, AND 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

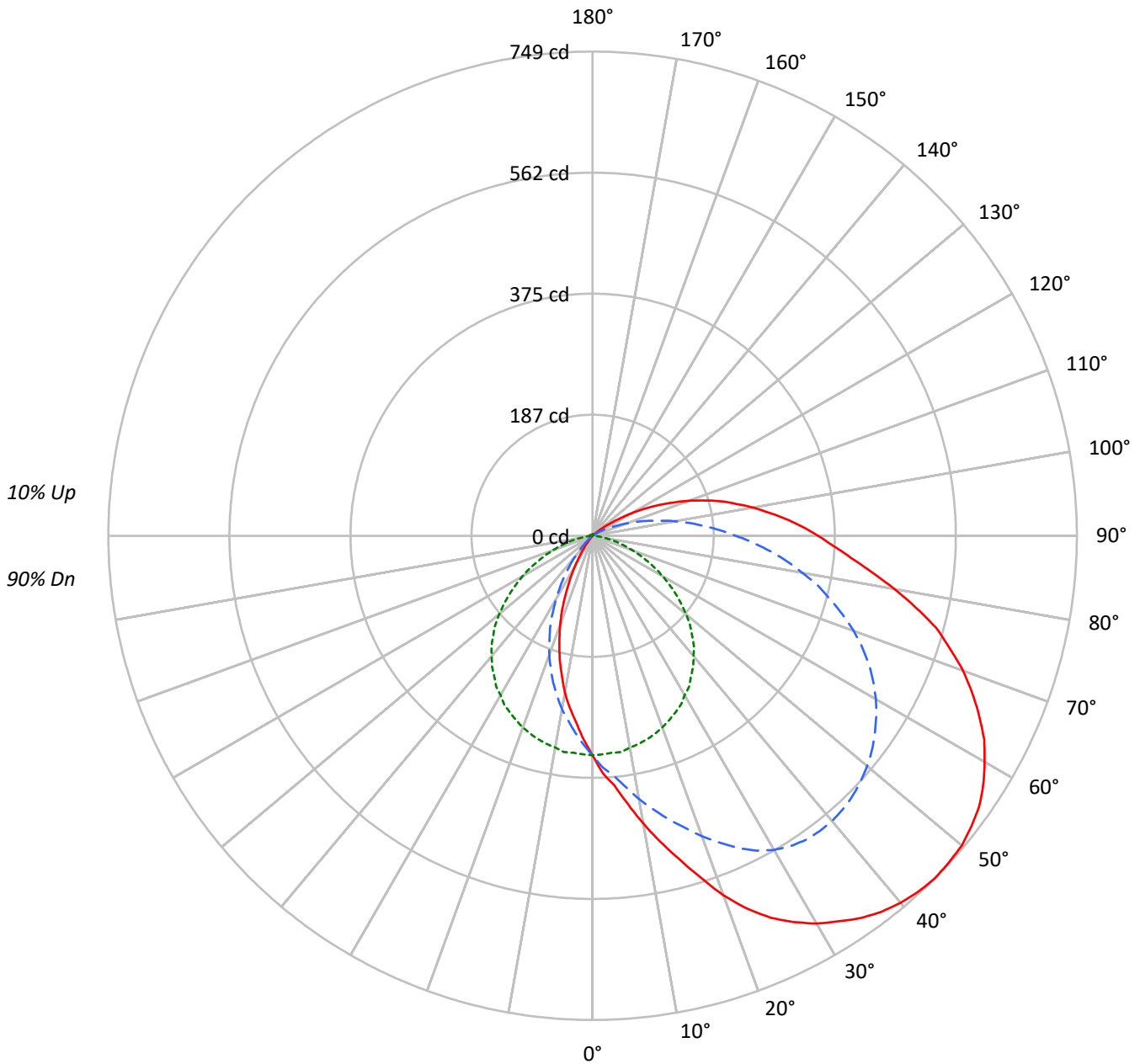
Lumens per Lamp: N/A  
Luminaire Lumens: 1679.0 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')  
CIE Type: Semi-Direct

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: P550470

CATALOG NUMBER: FCC-X-2-LD4-1HI-30-UNV-82-97-ED1D

### Luminous Intensity Polar Plot





TEST NUMBER: P550470

CATALOG NUMBER: FCC-X-2-LD4-1HI-30-UNV-82-97-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°  | 3655 | 3655 | 3655 |
| 5°  | 4013 | 3602 | 3005 |
| 10° | 4541 | 3558 | 2477 |
| 15° | 5089 | 3513 | 1930 |
| 20° | 5740 | 3456 | 1422 |
| 25° | 6279 | 3389 | 933  |
| 30° | 6681 | 3300 | 526  |
| 35° | 7028 | 3204 | 232  |
| 40° | 7336 | 3087 | 55   |
| 45° | 7600 | 2939 | 0    |
| 50° | 7822 | 2743 | 0    |
| 55° | 7991 | 2494 | 0    |
| 60° | 8076 | 2205 | 0    |
| 65° | 8109 | 1876 | 0    |
| 70° | 8082 | 1530 | 0    |
| 75° | 7980 | 1129 | 6    |
| 80° | 7655 | 689  | 36   |
| 85° | 7401 | 331  | 48   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 32.5   | 1.9       |
| 10°-20°   | 97.4   | 5.8       |
| 20°-30°   | 157.7  | 9.4       |
| 30°-40°   | 202.6  | 12.1      |
| 40°-50°   | 229.4  | 13.7      |
| 50°-60°   | 237.6  | 14.2      |
| 60°-70°   | 224.1  | 13.3      |
| 70°-80°   | 187.8  | 11.2      |
| 80°-90°   | 136.1  | 8.1       |
| 90°-100°  | 89.5   | 5.3       |
| 100°-110° | 51.7   | 3.1       |
| 110°-120° | 22.8   | 1.4       |
| 120°-130° | 6.2    | 0.4       |
| 130°-140° | 1.4    | 0.1       |
| 140°-150° | 0.9    | 0.1       |
| 150°-160° | 0.7    | 0.0       |
| 160°-170° | 0.4    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-30°    | 287.7  | 17.1      |
| 0°-40°    | 490.3  | 29.2      |
| 0°-60°    | 957.3  | 57.0      |
| 0°-90°    | 1505.4 | 89.7      |
| 90°-120°  | 164.0  | 9.8       |
| 90°-150°  | 172.5  | 10.3      |
| 90°-180°  | 174.0  | 10.4      |
| 0°-180°   | 1679.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0°   | 340 | 340 | 340 | 340  | 340  |      |
| 5°   | 388 | 372 | 337 | 306  | 290  | 39   |
| 15°  | 518 | 454 | 326 | 235  | 196  | 149  |
| 25°  | 652 | 533 | 302 | 155  | 97   | 301  |
| 35°  | 722 | 574 | 265 | 75   | 24   | 453  |
| 45°  | 749 | 569 | 217 | 17   | 0    | 578  |
| 55°  | 730 | 533 | 157 | 0    | 0    | 652  |
| 65°  | 660 | 472 | 93  | 0    | 0    | 653  |
| 75°  | 550 | 380 | 40  | 0    | 0    | 577  |
| 85°  | 402 | 276 | 6   | 2    | 3    | 344  |
| 90°  | 349 | 221 | 2   | 3    | 3    | 191  |
| 95°  | 299 | 173 | 1   | 3    | 4    | 235  |
| 105° | 206 | 89  | 1   | 2    | 4    | 217  |
| 115° | 112 | 30  | 1   | 1    | 2    | 112  |
| 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: P550470

CATALOG NUMBER: FCC-X-2-LD4-1HI-30-UNV-82-97-ED1D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 30°   | 40°   | 50°   | 60°   | 70°   | 80°   | 90°   | 112.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 339.6 | 339.6 | 339.6 | 339.6 | 339.6 | 339.6 | 339.6 | 339.6 | 339.6 | 339.6 | 339.6  |
| 2.5°   | 368.2 | 367.7 | 366.4 | 364.3 | 361.3 | 356.1 | 351.7 | 347.8 | 342.6 | 338.3 | 330.1  |
| 5°     | 387.6 | 385.5 | 383.8 | 381.6 | 374.7 | 369.9 | 362.1 | 353.5 | 345.2 | 337.0 | 320.6  |
| 7.5°   | 418.8 | 415.3 | 412.7 | 406.7 | 397.2 | 386.3 | 374.2 | 366.0 | 360.4 | 337.5 | 309.3  |
| 10°    | 452.1 | 449.1 | 443.9 | 433.1 | 421.4 | 405.8 | 388.5 | 369.0 | 351.7 | 332.7 | 299.4  |
| 12.5°  | 485.0 | 480.7 | 473.3 | 459.5 | 443.0 | 423.6 | 399.8 | 376.8 | 352.2 | 329.7 | 287.7  |
| 15°    | 517.9 | 513.1 | 505.3 | 488.4 | 466.8 | 441.3 | 412.3 | 383.3 | 354.3 | 325.8 | 275.6  |
| 17.5°  | 553.8 | 547.3 | 535.6 | 516.6 | 489.3 | 457.7 | 423.6 | 388.5 | 353.5 | 321.0 | 262.6  |
| 20°    | 592.3 | 583.2 | 570.7 | 545.1 | 513.1 | 475.9 | 434.8 | 393.7 | 353.0 | 315.4 | 247.9  |
| 22.5°  | 624.3 | 615.2 | 601.4 | 575.0 | 536.5 | 491.0 | 444.3 | 397.2 | 351.3 | 308.9 | 234.1  |
| 25°    | 652.0 | 644.6 | 629.5 | 599.2 | 558.5 | 507.1 | 453.4 | 399.8 | 348.7 | 302.0 | 219.3  |
| 27.5°  | 673.6 | 666.7 | 649.8 | 618.7 | 577.1 | 521.3 | 460.3 | 401.1 | 345.2 | 295.1 | 204.2  |
| 30°    | 692.7 | 685.7 | 665.4 | 633.4 | 589.7 | 532.6 | 467.2 | 401.5 | 340.9 | 284.7 | 187.8  |
| 32.5°  | 707.4 | 700.9 | 680.1 | 645.9 | 598.3 | 540.4 | 471.1 | 401.1 | 335.3 | 277.3 | 170.0  |
| 35°    | 722.1 | 715.6 | 691.4 | 655.0 | 604.8 | 543.8 | 474.2 | 398.9 | 328.4 | 265.2 | 153.2  |
| 37.5°  | 733.3 | 726.0 | 701.3 | 661.1 | 607.9 | 544.7 | 473.7 | 395.9 | 321.0 | 255.3 | 136.3  |
| 40°    | 741.1 | 733.3 | 706.9 | 664.5 | 608.7 | 543.4 | 470.3 | 390.7 | 312.4 | 242.7 | 118.5  |
| 42.5°  | 746.3 | 737.6 | 709.5 | 669.7 | 607.0 | 539.9 | 465.1 | 384.2 | 302.8 | 231.9 | 101.7  |
| 45°    | 748.9 | 739.8 | 710.0 | 665.4 | 604.0 | 533.4 | 457.3 | 376.0 | 292.5 | 217.2 | 84.8   |
| 47.5°  | 747.6 | 737.6 | 707.8 | 660.6 | 598.3 | 526.5 | 448.6 | 366.0 | 279.9 | 204.2 | 68.8   |
| 50°    | 745.4 | 735.1 | 703.0 | 654.6 | 590.6 | 517.9 | 439.1 | 353.9 | 266.9 | 188.2 | 54.5   |
| 52.5°  | 738.5 | 728.1 | 697.8 | 645.9 | 581.5 | 507.9 | 426.1 | 341.4 | 253.1 | 172.6 | 41.5   |
| 55°    | 729.9 | 720.3 | 688.8 | 638.1 | 569.8 | 495.8 | 414.0 | 327.9 | 239.7 | 156.6 | 29.9   |
| 57.5°  | 716.4 | 707.8 | 677.5 | 625.6 | 558.1 | 482.4 | 400.6 | 313.2 | 222.8 | 140.6 | 20.8   |
| 60°    | 700.0 | 691.4 | 661.9 | 611.3 | 544.7 | 467.2 | 385.9 | 298.1 | 207.7 | 124.6 | 13.0   |
| 62.5°  | 682.7 | 674.5 | 643.8 | 593.6 | 527.8 | 451.2 | 369.9 | 282.9 | 191.7 | 109.9 | 7.8    |
| 65°    | 659.8 | 652.0 | 624.3 | 572.4 | 509.2 | 433.9 | 352.2 | 264.8 | 175.2 | 93.4  | 4.3    |
| 67.5°  | 635.5 | 628.6 | 600.5 | 552.9 | 487.6 | 414.9 | 334.0 | 247.0 | 157.9 | 79.2  | 2.2    |
| 70°    | 609.6 | 600.9 | 575.0 | 526.5 | 465.5 | 393.3 | 314.1 | 228.9 | 141.5 | 65.3  | 0.0    |
| 72.5°  | 579.3 | 572.8 | 547.7 | 501.9 | 440.0 | 370.3 | 293.8 | 209.0 | 123.3 | 51.9  | 0.4    |
| 75°    | 549.9 | 541.7 | 518.7 | 475.5 | 414.9 | 346.1 | 271.3 | 190.4 | 105.6 | 39.8  | 0.4    |
| 77.5°  | 511.8 | 509.2 | 487.6 | 445.6 | 391.1 | 322.7 | 246.6 | 167.9 | 88.7  | 28.6  | 0.4    |
| 80°    | 473.7 | 471.1 | 454.3 | 415.8 | 363.4 | 295.1 | 223.7 | 146.7 | 72.3  | 19.0  | 0.4    |
| 82.5°  | 436.1 | 432.6 | 416.6 | 384.6 | 335.3 | 271.7 | 199.9 | 125.5 | 57.1  | 11.7  | 0.4    |
| 85°    | 402.4 | 398.0 | 380.7 | 351.3 | 306.3 | 245.3 | 175.2 | 104.7 | 42.4  | 6.5   | 0.9    |
| 87.5°  | 373.4 | 370.3 | 351.3 | 321.0 | 276.9 | 220.6 | 153.6 | 84.8  | 29.9  | 3.0   | 1.3    |
| 90°    | 348.7 | 342.2 | 325.3 | 293.3 | 249.2 | 193.4 | 130.7 | 67.9  | 19.9  | 1.7   | 1.7    |
| 92.5°  | 324.5 | 318.9 | 300.3 | 267.4 | 224.5 | 170.0 | 108.6 | 51.9  | 12.5  | 0.9   | 2.2    |
| 95°    | 299.4 | 293.3 | 275.2 | 244.9 | 199.4 | 146.2 | 89.1  | 38.1  | 6.9   | 0.9   | 2.2    |
| 97.5°  | 274.7 | 269.1 | 250.1 | 219.8 | 176.9 | 125.5 | 70.5  | 26.8  | 3.5   | 0.9   | 1.7    |
| 100°   | 251.8 | 245.3 | 228.0 | 197.7 | 154.5 | 104.7 | 54.5  | 17.3  | 2.2   | 0.9   | 1.7    |
| 102.5° | 227.6 | 222.4 | 204.6 | 175.2 | 131.1 | 85.2  | 40.7  | 10.8  | 0.9   | 0.9   | 1.3    |
| 105°   | 205.9 | 199.4 | 182.1 | 151.9 | 111.6 | 67.1  | 28.6  | 6.5   | 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° | 134.1 | 128.9 | 113.8 | 88.3 | 56.7 | 26.4 | 7.8 | 1.3 | 1.3 | 1.3 | 1.3    |
| 115°   | 112.1 | 104.3 | 90.9  | 68.4 | 42.0 | 17.3 | 3.9 | 1.3 | 1.3 | 1.3 | 1.3    |
| 117.5° | 89.6  | 83.1  | 73.5  | 51.9 | 27.7 | 11.2 | 2.2 | 1.3 | 1.3 | 1.3 | 1.3    |
| 120°   | 70.1  | 64.0  | 53.2  | 35.9 | 18.6 | 6.5  | 0.9 | 1.3 | 1.3 | 1.3 | 1.3    |
| 122.5° | 50.2  | 45.4  | 35.9  | 23.4 | 11.2 | 3.0  | 1.3 | 1.3 | 1.7 | 1.7 | 1.3    |
| 125°   | 33.3  | 30.7  | 23.8  | 14.3 | 6.9  | 1.3  | 1.3 | 1.3 | 1.7 | 1.7 | 1.3    |
| 127.5° | 21.6  | 19.5  | 13.8  | 8.2  | 3.0  | 1.3  | 1.3 | 1.7 | 1.7 | 1.7 | 1.3    |
| 130°   | 12.1  | 10.8  | 8.2   | 4.8  | 1.3  | 1.3  | 1.3 | 1.7 | 1.7 | 1.7 | 1.3    |
| 132.5° | 6.9   | 6.5   | 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 | 2.2 | 2.2 | 1.7    |
| 137.5° | 0.4   | 0.4   | 0.9   | 0.9  | 1.3  | 1.3  | 1.7 | 2.2 | 2.2 | 2.2 | 1.7    |
| 140°   | 0.4   | 0.4   | 0.9   | 1.3  | 1.3  | 1.3  | 1.7 | 2.2 | 2.2 | 2.2 | 1.7    |
| 142.5° | 0.4   | 0.9   | 0.9   | 1.3  | 1.3  | 1.7  | 1.7 | 2.2 | 2.2 | 1.7 | 1.7    |
| 145°   | 0.4   | 0.9   | 0.9   | 1.3  | 1.3  | 1.7  | 1.7 | 2.2 | 1.7 | 1.7 | 1.7    |
| 147.5° | 0.9   | 0.9   | 0.9   | 1.3  | 1.3  | 1.7  | 1.7 | 2.2 | 2.2 | 1.7 | 1.7    |
| 150°   | 0.4   | 0.9   | 0.9   | 1.3  | 1.7  | 1.7  | 1.7 | 2.2 | 1.7 | 1.7 | 1.7    |
| 152.5° | 0.4   | 0.9   | 0.9   | 1.3  | 1.7  | 1.7  | 1.7 | 2.2 | 1.7 | 1.7 | 1.7    |
| 155°   | 0.9   | 0.9   | 0.9   | 1.3  | 1.7  | 1.7  | 1.7 | 2.2 | 1.7 | 1.7 | 2.2    |
| 157.5° | 0.9   | 0.9   | 0.9   | 1.3  | 1.7  | 1.7  | 1.7 | 2.2 | 1.7 | 1.7 | 2.2    |
| 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 | 2.2 | 2.2 | 2.2 | 2.2    |
| 172.5° | 0.9   | 0.9   | 0.9   | 1.3  | 1.3  | 1.7  | 1.7 | 2.2 | 2.2 | 2.2 | 2.2    |
| 175°   | 0.9   | 0.9   | 0.9   | 1.3  | 1.3  | 1.7  | 1.7 | 2.2 | 2.2 | 2.2 | 2.2    |
| 177.5° | 0.4   | 0.9   | 0.9   | 1.3  | 1.3  | 1.7  | 1.7 | 2.2 | 2.2 | 2.2 | 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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CATALOG NUMBER: FCC-X-2-LD4-1HI-30-UNV-82-97-ED1D

**CANDELA DISTRIBUTION (continued):**

|        | 135°  | 157.5° | 180°  |
|--------|-------|--------|-------|
| 0°     | 339.6 | 339.6  | 339.6 |
| 2.5°   | 323.2 | 317.1  | 315.4 |
| 5°     | 305.9 | 295.9  | 290.3 |
| 7.5°   | 288.6 | 275.2  | 268.7 |
| 10°    | 272.6 | 253.5  | 246.6 |
| 12.5°  | 253.5 | 231.5  | 220.6 |
| 15°    | 235.4 | 206.8  | 196.4 |
| 17.5°  | 215.0 | 183.0  | 170.9 |
| 20°    | 196.0 | 159.2  | 146.7 |
| 22.5°  | 174.4 | 135.8  | 122.0 |
| 25°    | 154.9 | 112.5  | 96.9  |
| 27.5°  | 133.3 | 88.7   | 75.3  |
| 30°    | 112.9 | 67.9   | 54.5  |
| 32.5°  | 93.4  | 49.8   | 37.6  |
| 35°    | 75.3  | 33.7   | 23.8  |
| 37.5°  | 58.0  | 20.8   | 12.1  |
| 40°    | 42.0  | 10.8   | 5.6   |
| 42.5°  | 28.1  | 5.2    | 3.0   |
| 45°    | 17.3  | 2.6    | 0.0   |
| 47.5°  | 10.0  | 0.0    | 0.0   |
| 50°    | 5.2   | 0.0    | 0.0   |
| 52.5°  | 2.2   | 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    | 2.2   |
| 82.5°  | 1.7   | 2.2    | 2.2   |
| 85°    | 1.7   | 2.2    | 2.6   |
| 87.5°  | 2.2   | 2.6    | 3.0   |
| 90°    | 2.6   | 3.0    | 3.0   |
| 92.5°  | 2.6   | 3.5    | 3.5   |
| 95°    | 3.0   | 3.5    | 3.9   |
| 97.5°  | 3.5   | 3.9    | 3.9   |
| 100°   | 3.0   | 3.9    | 4.3   |
| 102.5° | 2.6   | 3.9    | 3.9   |
| 105°   | 2.2   | 3.0    | 3.5   |





TEST NUMBER: P550470

CATALOG NUMBER: FCC-X-2-LD4-1HI-30-UNV-82-97-ED1D

**CANDELA DISTRIBUTION (continued):**

|        | 135° | 157.5° | 180° |
|--------|------|--------|------|
| 112.5° | 1.7  | 2.2    | 2.2  |
| 115°   | 1.3  | 1.7    | 2.2  |
| 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° | 181.7 | 176.5 | 159.2 | 130.7 | 91.3 | 51.1 | 19.0 | 3.5 | 0.9 | 1.3 | 1.3 |
| 110°   | 158.3 | 154.0 | 136.3 | 108.6 | 73.5 | 38.1 | 12.5 | 2.2 | 1.3 | 1.3 | 1.3 |







|        |     |     |     |
|--------|-----|-----|-----|
| 107.5° | 1.7 | 2.6 | 3.0 |
| 110°   | 1.7 | 2.2 | 2.6 |



(END OF REPORT)