

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: P550920

Luminaire Tested: **FCC-X-2-LD4-1LO-50-UNV-93-84-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: P550920  
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-LD4-1LO-50-UNV-93-84-ED1D  
Description: FCC CORNER MOUNT LUMINAIRE WITH .156 CLEAR TEMPERED GLASS FIXTURE  
SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 5000K, AND 80 CRI  
LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

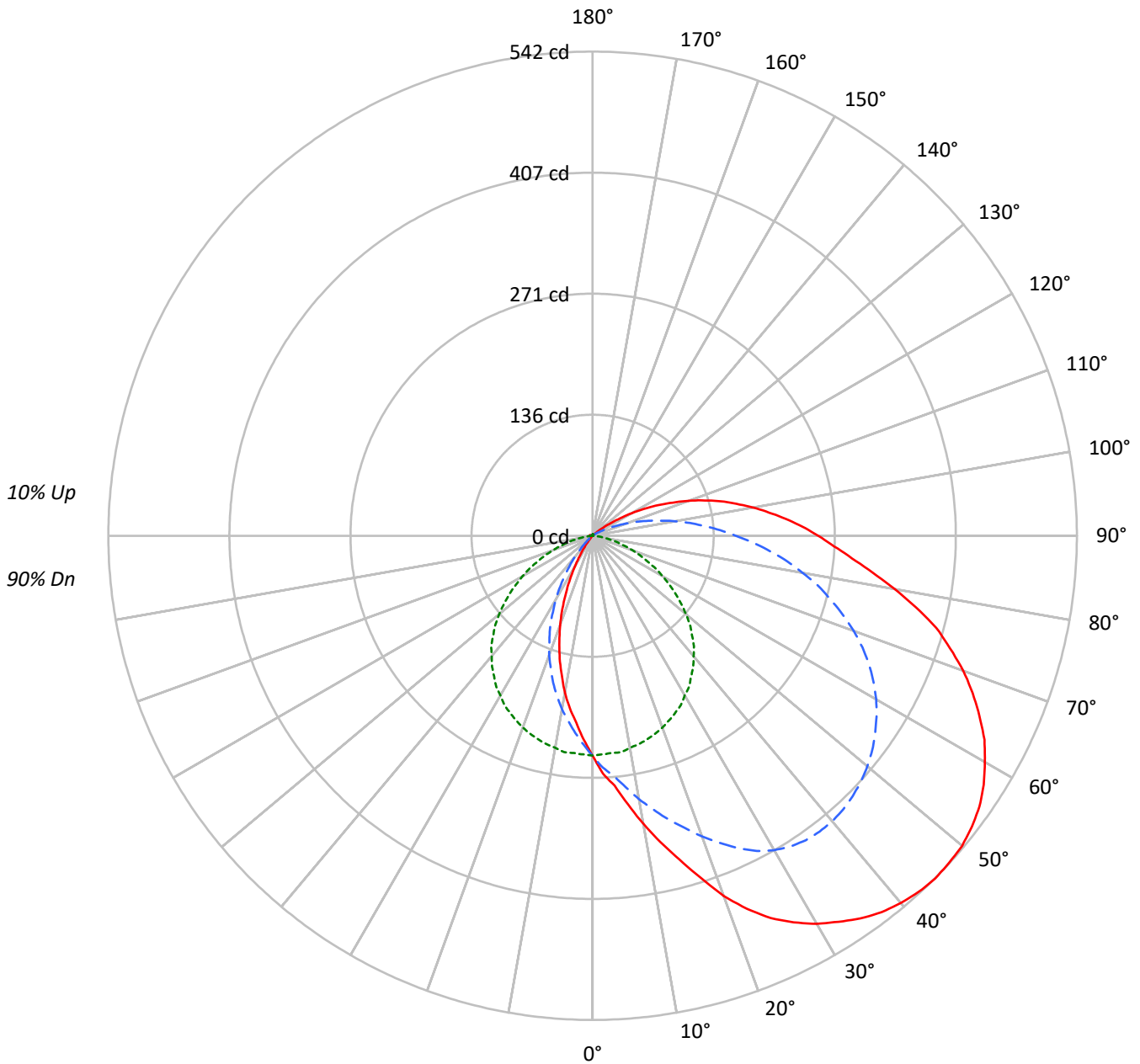
Lumens per Lamp: N/A  
Luminaire Lumens: 1216.0 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')  
CIE Type: Semi-Direct

Input Watts (W): 11.7  
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: P550920

CATALOG NUMBER: FCC-X-2-LD4-1LO-50-UNV-93-84-ED1D

### Luminous Intensity Polar Plot





TEST NUMBER: P550920

CATALOG NUMBER: FCC-X-2-LD4-1LO-50-UNV-93-84-ED1D

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

|     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|---|
| RF  | 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 | 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°  | 2648 | 2648 | 2648 |
| 5°  | 2906 | 2609 | 2176 |
| 10° | 3289 | 2577 | 1794 |
| 15° | 3686 | 2544 | 1398 |
| 20° | 4157 | 2502 | 1029 |
| 25° | 4548 | 2454 | 676  |
| 30° | 4838 | 2390 | 381  |
| 35° | 5090 | 2321 | 167  |
| 40° | 5312 | 2236 | 41   |
| 45° | 5504 | 2128 | 0    |
| 50° | 5665 | 1987 | 0    |
| 55° | 5787 | 1806 | 0    |
| 60° | 5849 | 1596 | 0    |
| 65° | 5873 | 1360 | 0    |
| 70° | 5854 | 1108 | 0    |
| 75° | 5778 | 817  | 4    |
| 80° | 5545 | 501  | 26   |
| 85° | 5359 | 239  | 35   |



TEST NUMBER: P550920

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 23.6   | 1.9       |
| 10°-20°   | 70.5   | 5.8       |
| 20°-30°   | 114.2  | 9.4       |
| 30°-40°   | 146.7  | 12.1      |
| 40°-50°   | 166.1  | 13.7      |
| 50°-60°   | 172.1  | 14.2      |
| 60°-70°   | 162.3  | 13.3      |
| 70°-80°   | 136.0  | 11.2      |
| 80°-90°   | 98.6   | 8.1       |
| 90°-100°  | 64.8   | 5.3       |
| 100°-110° | 37.4   | 3.1       |
| 110°-120° | 16.5   | 1.4       |
| 120°-130° | 4.5    | 0.4       |
| 130°-140° | 1.0    | 0.1       |
| 140°-150° | 0.7    | 0.1       |
| 150°-160° | 0.5    | 0.0       |
| 160°-170° | 0.3    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-30°    | 208.3  | 17.1      |
| 0°-40°    | 355.1  | 29.2      |
| 0°-60°    | 693.3  | 57.0      |
| 0°-90°    | 1090.2 | 89.7      |
| 90°-120°  | 118.7  | 9.8       |
| 90°-150°  | 124.9  | 10.3      |
| 90°-180°  | 126.0  | 10.4      |
| 0°-180°   | 1216.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0°   | 246 | 246 | 246 | 246  | 246  |      |
| 5°   | 281 | 270 | 244 | 222  | 210  | 28   |
| 15°  | 375 | 329 | 236 | 170  | 142  | 108  |
| 25°  | 472 | 386 | 219 | 112  | 70   | 218  |
| 35°  | 523 | 416 | 192 | 54   | 17   | 328  |
| 45°  | 542 | 412 | 157 | 12   | 0    | 419  |
| 55°  | 529 | 386 | 113 | 0    | 0    | 472  |
| 65°  | 478 | 342 | 68  | 0    | 0    | 473  |
| 75°  | 398 | 276 | 29  | 0    | 0    | 418  |
| 85°  | 291 | 200 | 5   | 1    | 2    | 249  |
| 90°  | 252 | 160 | 1   | 2    | 2    | 138  |
| 95°  | 217 | 125 | 1   | 2    | 3    | 170  |
| 105° | 149 | 65  | 1   | 2    | 2    | 157  |
| 115° | 81  | 21  | 1   | 1    | 2    | 81   |
| 125° | 24  | 3   | 1   | 1    | 1    | 24   |
| 135° | 1   | 1   | 2   | 1    | 1    | 2    |
| 145° | 0   | 1   | 1   | 1    | 1    | 0    |
| 155° | 1   | 1   | 1   | 1    | 0    | 0    |
| 165° | 1   | 1   | 1   | 1    | 0    | 0    |
| 175° | 1   | 1   | 2   | 1    | 0    | 0    |
| 180° | 1   | 1   | 1   | 1    | 1    |      |



TEST NUMBER: P550920

CATALOG NUMBER: FCC-X-2-LD4-1LO-50-UNV-93-84-ED1D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 30°   | 40°   | 50°   | 60°   | 70°   | 80°   | 90°   | 112.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 246.0 | 246.0 | 246.0 | 246.0 | 246.0 | 246.0 | 246.0 | 246.0 | 246.0 | 246.0 | 246.0  |
| 2.5°   | 266.6 | 266.3 | 265.4 | 263.8 | 261.6 | 257.9 | 254.7 | 251.9 | 248.2 | 245.0 | 239.1  |
| 5°     | 280.7 | 279.2 | 277.9 | 276.4 | 271.3 | 267.9 | 262.3 | 256.0 | 250.0 | 244.1 | 232.2  |
| 7.5°   | 303.3 | 300.8 | 298.9 | 294.5 | 287.6 | 279.8 | 271.0 | 265.1 | 261.0 | 244.4 | 224.0  |
| 10°    | 327.4 | 325.2 | 321.5 | 313.6 | 305.2 | 293.9 | 281.4 | 267.3 | 254.7 | 241.0 | 216.8  |
| 12.5°  | 351.2 | 348.1 | 342.8 | 332.8 | 320.9 | 306.8 | 289.5 | 272.9 | 255.1 | 238.8 | 208.4  |
| 15°    | 375.1 | 371.6 | 366.0 | 353.8 | 338.1 | 319.6 | 298.6 | 277.6 | 256.6 | 235.9 | 199.6  |
| 17.5°  | 401.1 | 396.4 | 387.9 | 374.1 | 354.4 | 331.5 | 306.8 | 281.4 | 256.0 | 232.5 | 190.2  |
| 20°    | 429.0 | 422.4 | 413.3 | 394.8 | 371.6 | 344.7 | 314.9 | 285.1 | 255.7 | 228.4 | 179.5  |
| 22.5°  | 452.1 | 445.6 | 435.5 | 416.4 | 388.5 | 355.6 | 321.8 | 287.6 | 254.4 | 223.7 | 169.5  |
| 25°    | 472.2 | 466.9 | 455.9 | 434.0 | 404.5 | 367.2 | 328.4 | 289.5 | 252.5 | 218.7 | 158.9  |
| 27.5°  | 487.9 | 482.8 | 470.6 | 448.1 | 418.0 | 377.6 | 333.4 | 290.5 | 250.0 | 213.7 | 147.9  |
| 30°    | 501.6 | 496.6 | 481.9 | 458.7 | 427.1 | 385.7 | 338.4 | 290.8 | 246.9 | 206.2 | 136.0  |
| 32.5°  | 512.3 | 507.6 | 492.6 | 467.8 | 433.3 | 391.4 | 341.2 | 290.5 | 242.8 | 200.8 | 123.1  |
| 35°    | 523.0 | 518.3 | 500.7 | 474.4 | 438.0 | 393.9 | 343.4 | 288.9 | 237.8 | 192.1 | 110.9  |
| 37.5°  | 531.1 | 525.8 | 507.9 | 478.8 | 440.2 | 394.5 | 343.1 | 286.7 | 232.5 | 184.9 | 98.7   |
| 40°    | 536.7 | 531.1 | 512.0 | 481.3 | 440.9 | 393.5 | 340.6 | 282.9 | 226.2 | 175.8 | 85.9   |
| 42.5°  | 540.5 | 534.2 | 513.9 | 485.0 | 439.6 | 391.0 | 336.8 | 278.2 | 219.3 | 167.9 | 73.6   |
| 45°    | 542.4 | 535.8 | 514.2 | 481.9 | 437.4 | 386.3 | 331.2 | 272.3 | 211.8 | 157.3 | 61.4   |
| 47.5°  | 541.4 | 534.2 | 512.6 | 478.5 | 433.3 | 381.3 | 324.9 | 265.1 | 202.7 | 147.9 | 49.8   |
| 50°    | 539.9 | 532.4 | 509.2 | 474.1 | 427.7 | 375.1 | 318.0 | 256.3 | 193.3 | 136.3 | 39.5   |
| 52.5°  | 534.9 | 527.3 | 505.4 | 467.8 | 421.1 | 367.9 | 308.6 | 247.2 | 183.3 | 125.0 | 30.1   |
| 55°    | 528.6 | 521.7 | 498.8 | 462.2 | 412.7 | 359.1 | 299.9 | 237.5 | 173.6 | 113.4 | 21.6   |
| 57.5°  | 518.9 | 512.6 | 490.7 | 453.1 | 404.2 | 349.4 | 290.1 | 226.9 | 161.4 | 101.8 | 15.0   |
| 60°    | 507.0 | 500.7 | 479.4 | 442.7 | 394.5 | 338.4 | 279.5 | 215.9 | 150.4 | 90.2  | 9.4    |
| 62.5°  | 494.4 | 488.5 | 466.2 | 429.9 | 382.3 | 326.8 | 267.9 | 204.9 | 138.8 | 79.6  | 5.6    |
| 65°    | 477.8 | 472.2 | 452.1 | 414.5 | 368.8 | 314.3 | 255.1 | 191.8 | 126.9 | 67.7  | 3.1    |
| 67.5°  | 460.3 | 455.3 | 434.9 | 400.4 | 353.1 | 300.5 | 241.9 | 178.9 | 114.4 | 57.3  | 1.6    |
| 70°    | 441.5 | 435.2 | 416.4 | 381.3 | 337.1 | 284.8 | 227.5 | 165.8 | 102.5 | 47.3  | 0.0    |
| 72.5°  | 419.6 | 414.9 | 396.7 | 363.5 | 318.7 | 268.2 | 212.8 | 151.3 | 89.3  | 37.6  | 0.3    |
| 75°    | 398.2 | 392.3 | 375.7 | 344.4 | 300.5 | 250.7 | 196.5 | 137.9 | 76.5  | 28.8  | 0.3    |
| 77.5°  | 370.7 | 368.8 | 353.1 | 322.7 | 283.3 | 233.7 | 178.6 | 121.6 | 64.2  | 20.7  | 0.3    |
| 80°    | 343.1 | 341.2 | 329.0 | 301.1 | 263.2 | 213.7 | 162.0 | 106.2 | 52.3  | 13.8  | 0.3    |
| 82.5°  | 315.8 | 313.3 | 301.7 | 278.6 | 242.8 | 196.8 | 144.8 | 90.9  | 41.4  | 8.5   | 0.3    |
| 85°    | 291.4 | 288.3 | 275.7 | 254.4 | 221.8 | 177.7 | 126.9 | 75.8  | 30.7  | 4.7   | 0.6    |
| 87.5°  | 270.4 | 268.2 | 254.4 | 232.5 | 200.5 | 159.8 | 111.2 | 61.4  | 21.6  | 2.2   | 0.9    |
| 90°    | 252.5 | 247.8 | 235.6 | 212.4 | 180.5 | 140.1 | 94.6  | 49.2  | 14.4  | 1.3   | 1.3    |
| 92.5°  | 235.0 | 230.9 | 217.5 | 193.6 | 162.6 | 123.1 | 78.6  | 37.6  | 9.1   | 0.6   | 1.6    |
| 95°    | 216.8 | 212.4 | 199.3 | 177.3 | 144.4 | 105.9 | 64.5  | 27.6  | 5.0   | 0.6   | 1.6    |
| 97.5°  | 199.0 | 194.9 | 181.1 | 159.2 | 128.2 | 90.9  | 51.1  | 19.4  | 2.5   | 0.6   | 1.3    |
| 100°   | 182.4 | 177.7 | 165.1 | 143.2 | 111.9 | 75.8  | 39.5  | 12.5  | 1.6   | 0.6   | 1.3    |
| 102.5° | 164.8 | 161.1 | 148.2 | 126.9 | 94.9  | 61.7  | 29.5  | 7.8   | 0.6   | 0.6   | 0.9    |
| 105°   | 149.1 | 144.4 | 131.9 | 110.0 | 80.8  | 48.6  | 20.7  | 4.7   | 0.6   | 0.6   | 0.9    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 10°  | 20°  | 30°  | 40°  | 50°  | 60° | 70° | 80° | 90° | 112.5° |
|--------|------|------|------|------|------|------|-----|-----|-----|-----|--------|
| 112.5° | 97.1 | 93.4 | 82.4 | 63.9 | 41.0 | 19.1 | 5.6 | 0.9 | 0.9 | 0.9 | 0.9    |
| 115°   | 81.2 | 75.5 | 65.8 | 49.5 | 30.4 | 12.5 | 2.8 | 0.9 | 0.9 | 0.9 | 0.9    |
| 117.5° | 64.9 | 60.2 | 53.3 | 37.6 | 20.1 | 8.1  | 1.6 | 0.9 | 0.9 | 0.9 | 0.9    |
| 120°   | 50.8 | 46.4 | 38.5 | 26.0 | 13.5 | 4.7  | 0.6 | 0.9 | 0.9 | 0.9 | 0.9    |
| 122.5° | 36.3 | 32.9 | 26.0 | 16.9 | 8.1  | 2.2  | 0.9 | 0.9 | 1.3 | 1.3 | 0.9    |
| 125°   | 24.1 | 22.2 | 17.2 | 10.3 | 5.0  | 0.9  | 0.9 | 0.9 | 1.3 | 1.3 | 0.9    |
| 127.5° | 15.7 | 14.1 | 10.0 | 6.0  | 2.2  | 0.9  | 0.9 | 1.3 | 1.3 | 1.3 | 0.9    |
| 130°   | 8.8  | 7.8  | 6.0  | 3.4  | 0.9  | 0.9  | 0.9 | 1.3 | 1.3 | 1.3 | 0.9    |
| 132.5° | 5.0  | 4.7  | 3.1  | 0.6  | 0.9  | 0.9  | 0.9 | 1.3 | 1.3 | 1.3 | 1.3    |
| 135°   | 1.3  | 0.6  | 0.6  | 0.6  | 0.9  | 0.9  | 1.3 | 1.3 | 1.6 | 1.6 | 1.3    |
| 137.5° | 0.3  | 0.3  | 0.6  | 0.6  | 0.9  | 0.9  | 1.3 | 1.6 | 1.6 | 1.6 | 1.3    |
| 140°   | 0.3  | 0.3  | 0.6  | 0.9  | 0.9  | 0.9  | 1.3 | 1.6 | 1.6 | 1.6 | 1.3    |
| 142.5° | 0.3  | 0.6  | 0.6  | 0.9  | 0.9  | 1.3  | 1.3 | 1.6 | 1.6 | 1.3 | 1.3    |
| 145°   | 0.3  | 0.6  | 0.6  | 0.9  | 0.9  | 1.3  | 1.3 | 1.6 | 1.3 | 1.3 | 1.3    |
| 147.5° | 0.6  | 0.6  | 0.6  | 0.9  | 0.9  | 1.3  | 1.3 | 1.6 | 1.6 | 1.3 | 1.3    |
| 150°   | 0.3  | 0.6  | 0.6  | 0.9  | 1.3  | 1.3  | 1.3 | 1.6 | 1.3 | 1.3 | 1.3    |
| 152.5° | 0.3  | 0.6  | 0.6  | 0.9  | 1.3  | 1.3  | 1.3 | 1.6 | 1.3 | 1.3 | 1.3    |
| 155°   | 0.6  | 0.6  | 0.6  | 0.9  | 1.3  | 1.3  | 1.3 | 1.6 | 1.3 | 1.3 | 1.6    |
| 157.5° | 0.6  | 0.6  | 0.6  | 0.9  | 1.3  | 1.3  | 1.3 | 1.6 | 1.3 | 1.3 | 1.6    |
| 160°   | 0.6  | 0.6  | 0.6  | 0.9  | 0.9  | 1.3  | 1.3 | 1.3 | 1.3 | 1.3 | 1.3    |
| 162.5° | 0.6  | 0.6  | 0.6  | 0.9  | 0.9  | 1.3  | 1.3 | 1.3 | 1.3 | 1.3 | 1.3    |
| 165°   | 0.6  | 0.6  | 0.6  | 0.6  | 0.9  | 0.9  | 1.3 | 1.3 | 1.3 | 1.3 | 1.3    |
| 167.5° | 0.6  | 0.6  | 0.6  | 0.9  | 0.9  | 0.9  | 1.3 | 1.3 | 1.3 | 1.3 | 1.3    |
| 170°   | 0.6  | 0.6  | 0.6  | 0.9  | 0.9  | 0.9  | 1.3 | 1.6 | 1.6 | 1.6 | 1.6    |
| 172.5° | 0.6  | 0.6  | 0.6  | 0.9  | 0.9  | 1.3  | 1.3 | 1.6 | 1.6 | 1.6 | 1.6    |
| 175°   | 0.6  | 0.6  | 0.6  | 0.9  | 0.9  | 1.3  | 1.3 | 1.6 | 1.6 | 1.6 | 1.6    |
| 177.5° | 0.3  | 0.6  | 0.6  | 0.9  | 0.9  | 1.3  | 1.3 | 1.6 | 1.6 | 1.6 | 1.3    |
| 180°   | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9 | 0.9 | 0.9 | 0.9 | 0.9    |



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CATALOG NUMBER: FCC-X-2-LD4-1LO-50-UNV-93-84-ED1D

**CANDELA DISTRIBUTION (continued):**

|        | 135°  | 157.5° | 180°  |
|--------|-------|--------|-------|
| 0°     | 246.0 | 246.0  | 246.0 |
| 2.5°   | 234.1 | 229.7  | 228.4 |
| 5°     | 221.5 | 214.3  | 210.2 |
| 7.5°   | 209.0 | 199.3  | 194.6 |
| 10°    | 197.4 | 183.6  | 178.6 |
| 12.5°  | 183.6 | 167.6  | 159.8 |
| 15°    | 170.5 | 149.8  | 142.3 |
| 17.5°  | 155.7 | 132.5  | 123.8 |
| 20°    | 141.9 | 115.3  | 106.2 |
| 22.5°  | 126.3 | 98.4   | 88.4  |
| 25°    | 112.2 | 81.5   | 70.2  |
| 27.5°  | 96.5  | 64.2   | 54.5  |
| 30°    | 81.8  | 49.2   | 39.5  |
| 32.5°  | 67.7  | 36.0   | 27.3  |
| 35°    | 54.5  | 24.4   | 17.2  |
| 37.5°  | 42.0  | 15.0   | 8.8   |
| 40°    | 30.4  | 7.8    | 4.1   |
| 42.5°  | 20.4  | 3.8    | 2.2   |
| 45°    | 12.5  | 1.9    | 0.0   |
| 47.5°  | 7.2   | 0.0    | 0.0   |
| 50°    | 3.8   | 0.0    | 0.0   |
| 52.5°  | 1.6   | 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°    | 0.3   | 0.3    | 0.3   |
| 77.5°  | 0.3   | 0.6    | 0.9   |
| 80°    | 0.6   | 1.3    | 1.6   |
| 82.5°  | 1.3   | 1.6    | 1.6   |
| 85°    | 1.3   | 1.6    | 1.9   |
| 87.5°  | 1.6   | 1.9    | 2.2   |
| 90°    | 1.9   | 2.2    | 2.2   |
| 92.5°  | 1.9   | 2.5    | 2.5   |
| 95°    | 2.2   | 2.5    | 2.8   |
| 97.5°  | 2.5   | 2.8    | 2.8   |
| 100°   | 2.2   | 2.8    | 3.1   |
| 102.5° | 1.9   | 2.8    | 2.8   |
| 105°   | 1.6   | 2.2    | 2.5   |





TEST NUMBER: P550920

CATALOG NUMBER: FCC-X-2-LD4-1LO-50-UNV-93-84-ED1D

**CANDELA DISTRIBUTION (continued):**

|        | 135° | 157.5° | 180° |
|--------|------|--------|------|
| 112.5° | 1.3  | 1.6    | 1.6  |
| 115°   | 0.9  | 1.3    | 1.6  |
| 117.5° | 0.9  | 1.3    | 1.3  |
| 120°   | 0.9  | 0.9    | 1.3  |
| 122.5° | 0.9  | 0.9    | 1.3  |
| 125°   | 0.9  | 0.9    | 1.3  |
| 127.5° | 1.3  | 0.9    | 0.9  |
| 130°   | 0.9  | 0.9    | 0.9  |
| 132.5° | 1.3  | 0.9    | 0.9  |
| 135°   | 1.3  | 0.9    | 0.9  |
| 137.5° | 1.3  | 0.9    | 0.9  |
| 140°   | 1.3  | 0.9    | 0.9  |
| 142.5° | 1.3  | 0.9    | 0.9  |
| 145°   | 0.9  | 0.9    | 0.9  |
| 147.5° | 0.9  | 0.9    | 0.9  |
| 150°   | 0.9  | 0.9    | 0.6  |
| 152.5° | 0.9  | 0.6    | 0.6  |
| 155°   | 0.9  | 0.6    | 0.3  |
| 157.5° | 1.3  | 0.6    | 0.3  |
| 160°   | 0.9  | 0.6    | 0.3  |
| 162.5° | 0.9  | 0.6    | 0.3  |
| 165°   | 0.9  | 0.6    | 0.0  |
| 167.5° | 0.9  | 0.6    | 0.3  |
| 170°   | 0.9  | 0.6    | 0.3  |
| 172.5° | 0.9  | 0.6    | 0.3  |
| 175°   | 0.9  | 0.3    | 0.3  |
| 177.5° | 0.9  | 0.3    | 0.3  |
| 180°   | 0.9  | 0.9    | 0.9  |



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







|        |       |       |       |      |      |      |      |     |     |     |     |
|--------|-------|-------|-------|------|------|------|------|-----|-----|-----|-----|
| 107.5° | 131.6 | 127.8 | 115.3 | 94.6 | 66.1 | 37.0 | 13.8 | 2.5 | 0.6 | 0.9 | 0.9 |
| 110°   | 114.7 | 111.5 | 98.7  | 78.6 | 53.3 | 27.6 | 9.1  | 1.6 | 0.9 | 0.9 | 0.9 |







|        |     |     |     |
|--------|-----|-----|-----|
| 107.5° | 1.3 | 1.9 | 2.2 |
| 110°   | 1.3 | 1.6 | 1.9 |



(END OF REPORT)