

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: P550773

Luminaire Tested: **FCC-X-2-LD4-1LO-35-UNV-81-97-ED1D-90**

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: P550773  
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-35-UNV-81-97-ED1D-90  
Description: FCC CORNER MOUNT LUMINAIRE WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 3500K, AND 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

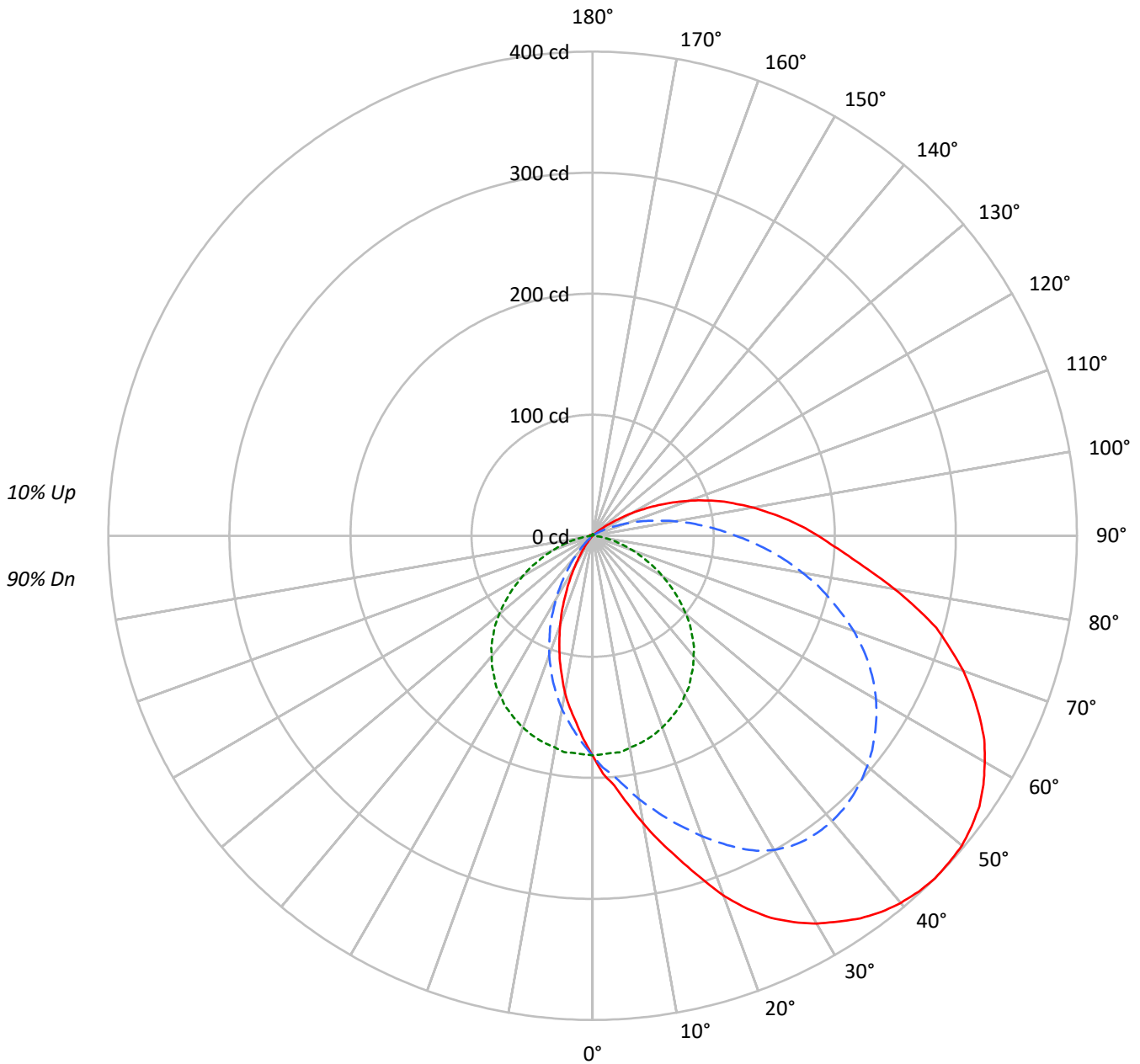
Lumens per Lamp: N/A  
Luminaire Lumens: 897.0 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')  
CIE Type: Semi-Direct

Input Watts (W): 11.7  
Input Voltage (V): NR  
Input Current (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: P550773

CATALOG NUMBER: FCC-X-2-LD4-1LO-35-UNV-81-97-ED1D-90

### Luminous Intensity Polar Plot





TEST NUMBER: P550773

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**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°  | 1953 | 1953 | 1953 |
| 5°  | 2144 | 1925 | 1606 |
| 10° | 2426 | 1900 | 1323 |
| 15° | 2719 | 1876 | 1031 |
| 20° | 3066 | 1846 | 760  |
| 25° | 3355 | 1810 | 499  |
| 30° | 3569 | 1763 | 281  |
| 35° | 3755 | 1712 | 124  |
| 40° | 3919 | 1649 | 30   |
| 45° | 4060 | 1570 | 0    |
| 50° | 4178 | 1465 | 0    |
| 55° | 4269 | 1333 | 0    |
| 60° | 4315 | 1179 | 0    |
| 65° | 4332 | 1002 | 0    |
| 70° | 4318 | 818  | 0    |
| 75° | 4263 | 604  | 3    |
| 80° | 4090 | 370  | 19   |
| 85° | 3954 | 178  | 26   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 17.4   | 1.9       |
| 10°-20°   | 52.0   | 5.8       |
| 20°-30°   | 84.3   | 9.4       |
| 30°-40°   | 108.3  | 12.1      |
| 40°-50°   | 122.5  | 13.7      |
| 50°-60°   | 127.0  | 14.2      |
| 60°-70°   | 119.7  | 13.3      |
| 70°-80°   | 100.3  | 11.2      |
| 80°-90°   | 72.7   | 8.1       |
| 90°-100°  | 47.8   | 5.3       |
| 100°-110° | 27.6   | 3.1       |
| 110°-120° | 12.2   | 1.4       |
| 120°-130° | 3.3    | 0.4       |
| 130°-140° | 0.8    | 0.1       |
| 140°-150° | 0.5    | 0.1       |
| 150°-160° | 0.4    | 0.0       |
| 160°-170° | 0.2    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-30°    | 153.7  | 17.1      |
| 0°-40°    | 261.9  | 29.2      |
| 0°-60°    | 511.4  | 57.0      |
| 0°-90°    | 804.2  | 89.7      |
| 90°-120°  | 87.6   | 9.8       |
| 90°-150°  | 92.1   | 10.3      |
| 90°-180°  | 93.0   | 10.4      |
| 0°-180°   | 897.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0°   | 181 | 181 | 181 | 181  | 181  |      |
| 5°   | 207 | 199 | 180 | 163  | 155  | 21   |
| 15°  | 277 | 243 | 174 | 126  | 105  | 80   |
| 25°  | 348 | 285 | 161 | 83   | 52   | 161  |
| 35°  | 386 | 307 | 142 | 40   | 13   | 242  |
| 45°  | 400 | 304 | 116 | 9    | 0    | 309  |
| 55°  | 390 | 285 | 84  | 0    | 0    | 348  |
| 65°  | 352 | 252 | 50  | 0    | 0    | 349  |
| 75°  | 294 | 203 | 21  | 0    | 0    | 308  |
| 85°  | 215 | 147 | 4   | 1    | 1    | 184  |
| 90°  | 186 | 118 | 1   | 1    | 2    | 102  |
| 95°  | 160 | 92  | 0   | 2    | 2    | 125  |
| 105° | 110 | 48  | 0   | 1    | 2    | 116  |
| 115° | 60  | 16  | 1   | 1    | 1    | 60   |
| 125° | 18  | 2   | 1   | 1    | 1    | 18   |
| 135° | 1   | 1   | 1   | 1    | 1    | 2    |
| 145° | 0   | 1   | 1   | 1    | 1    | 0    |
| 155° | 0   | 1   | 1   | 1    | 0    | 0    |
| 165° | 0   | 1   | 1   | 1    | 0    | 0    |
| 175° | 0   | 1   | 1   | 1    | 0    | 0    |
| 180° | 1   | 1   | 1   | 1    | 1    |      |



TEST NUMBER: P550773

CATALOG NUMBER: FCC-X-2-LD4-1LO-35-UNV-81-97-ED1D-90

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 30°   | 40°   | 50°   | 60°   | 70°   | 80°   | 90°   | 112.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 181.4 | 181.4 | 181.4 | 181.4 | 181.4 | 181.4 | 181.4 | 181.4 | 181.4 | 181.4 | 181.4  |
| 2.5°   | 196.7 | 196.5 | 195.8 | 194.6 | 193.0 | 190.2 | 187.9 | 185.8 | 183.1 | 180.7 | 176.4  |
| 5°     | 207.1 | 205.9 | 205.0 | 203.9 | 200.2 | 197.6 | 193.5 | 188.8 | 184.4 | 180.1 | 171.3  |
| 7.5°   | 223.7 | 221.9 | 220.5 | 217.3 | 212.2 | 206.4 | 199.9 | 195.5 | 192.5 | 180.3 | 165.3  |
| 10°    | 241.5 | 239.9 | 237.1 | 231.4 | 225.1 | 216.8 | 207.6 | 197.2 | 187.9 | 177.7 | 159.9  |
| 12.5°  | 259.1 | 256.8 | 252.9 | 245.5 | 236.7 | 226.3 | 213.6 | 201.3 | 188.1 | 176.1 | 153.7  |
| 15°    | 276.7 | 274.1 | 270.0 | 261.0 | 249.4 | 235.8 | 220.3 | 204.8 | 189.3 | 174.0 | 147.2  |
| 17.5°  | 295.9 | 292.4 | 286.1 | 276.0 | 261.4 | 244.5 | 226.3 | 207.6 | 188.8 | 171.5 | 140.3  |
| 20°    | 316.4 | 311.6 | 304.9 | 291.2 | 274.1 | 254.2 | 232.3 | 210.3 | 188.6 | 168.5 | 132.4  |
| 22.5°  | 333.5 | 328.7 | 321.3 | 307.2 | 286.6 | 262.3 | 237.4 | 212.2 | 187.7 | 165.0 | 125.0  |
| 25°    | 348.3 | 344.4 | 336.3 | 320.1 | 298.4 | 270.9 | 242.2 | 213.6 | 186.3 | 161.3 | 117.2  |
| 27.5°  | 359.9 | 356.2 | 347.2 | 330.5 | 308.3 | 278.5 | 245.9 | 214.3 | 184.4 | 157.6 | 109.1  |
| 30°    | 370.0 | 366.4 | 355.5 | 338.4 | 315.0 | 284.5 | 249.6 | 214.5 | 182.1 | 152.1 | 100.3  |
| 32.5°  | 377.9 | 374.4 | 363.3 | 345.1 | 319.7 | 288.7 | 251.7 | 214.3 | 179.1 | 148.2 | 90.8   |
| 35°    | 385.8 | 382.3 | 369.4 | 349.9 | 323.1 | 290.5 | 253.3 | 213.1 | 175.4 | 141.7 | 81.8   |
| 37.5°  | 391.8 | 387.8 | 374.7 | 353.2 | 324.7 | 291.0 | 253.1 | 211.5 | 171.5 | 136.4 | 72.8   |
| 40°    | 395.9 | 391.8 | 377.7 | 355.0 | 325.2 | 290.3 | 251.2 | 208.7 | 166.9 | 129.7 | 63.3   |
| 42.5°  | 398.7 | 394.1 | 379.1 | 357.8 | 324.3 | 288.5 | 248.5 | 205.2 | 161.8 | 123.9 | 54.3   |
| 45°    | 400.1 | 395.2 | 379.3 | 355.5 | 322.7 | 285.0 | 244.3 | 200.9 | 156.2 | 116.0 | 45.3   |
| 47.5°  | 399.4 | 394.1 | 378.1 | 352.9 | 319.7 | 281.3 | 239.7 | 195.5 | 149.5 | 109.1 | 36.8   |
| 50°    | 398.2 | 392.7 | 375.6 | 349.7 | 315.5 | 276.7 | 234.6 | 189.1 | 142.6 | 100.5 | 29.1   |
| 52.5°  | 394.5 | 389.0 | 372.8 | 345.1 | 310.6 | 271.4 | 227.7 | 182.4 | 135.2 | 92.2  | 22.2   |
| 55°    | 389.9 | 384.8 | 368.0 | 340.9 | 304.4 | 264.9 | 221.2 | 175.2 | 128.0 | 83.7  | 15.9   |
| 57.5°  | 382.8 | 378.1 | 362.0 | 334.2 | 298.2 | 257.7 | 214.0 | 167.3 | 119.0 | 75.1  | 11.1   |
| 60°    | 374.0 | 369.4 | 353.6 | 326.6 | 291.0 | 249.6 | 206.2 | 159.3 | 110.9 | 66.6  | 6.9    |
| 62.5°  | 364.7 | 360.3 | 343.9 | 317.1 | 282.0 | 241.1 | 197.6 | 151.2 | 102.4 | 58.7  | 4.2    |
| 65°    | 352.5 | 348.3 | 333.5 | 305.8 | 272.0 | 231.8 | 188.1 | 141.5 | 93.6  | 49.9  | 2.3    |
| 67.5°  | 339.5 | 335.8 | 320.8 | 295.4 | 260.5 | 221.7 | 178.4 | 132.0 | 84.4  | 42.3  | 1.2    |
| 70°    | 325.7 | 321.0 | 307.2 | 281.3 | 248.7 | 210.1 | 167.8 | 122.3 | 75.6  | 34.9  | 0.0    |
| 72.5°  | 309.5 | 306.0 | 292.6 | 268.1 | 235.1 | 197.9 | 156.9 | 111.6 | 65.9  | 27.7  | 0.2    |
| 75°    | 293.8 | 289.4 | 277.1 | 254.0 | 221.7 | 184.9 | 144.9 | 101.7 | 56.4  | 21.3  | 0.2    |
| 77.5°  | 273.4 | 272.0 | 260.5 | 238.1 | 208.9 | 172.4 | 131.7 | 89.7  | 47.4  | 15.3  | 0.2    |
| 80°    | 253.1 | 251.7 | 242.7 | 222.1 | 194.2 | 157.6 | 119.5 | 78.4  | 38.6  | 10.2  | 0.2    |
| 82.5°  | 233.0 | 231.1 | 222.6 | 205.5 | 179.1 | 145.2 | 106.8 | 67.0  | 30.5  | 6.2   | 0.2    |
| 85°    | 215.0 | 212.6 | 203.4 | 187.7 | 163.6 | 131.1 | 93.6  | 55.9  | 22.7  | 3.5   | 0.5    |
| 87.5°  | 199.5 | 197.9 | 187.7 | 171.5 | 147.9 | 117.9 | 82.1  | 45.3  | 15.9  | 1.6   | 0.7    |
| 90°    | 186.3 | 182.8 | 173.8 | 156.7 | 133.1 | 103.3 | 69.8  | 36.3  | 10.6  | 0.9   | 0.9    |
| 92.5°  | 173.4 | 170.3 | 160.4 | 142.8 | 120.0 | 90.8  | 58.0  | 27.7  | 6.7   | 0.5   | 1.2    |
| 95°    | 159.9 | 156.7 | 147.0 | 130.8 | 106.6 | 78.1  | 47.6  | 20.3  | 3.7   | 0.5   | 1.2    |
| 97.5°  | 146.8 | 143.8 | 133.6 | 117.4 | 94.5  | 67.0  | 37.7  | 14.3  | 1.8   | 0.5   | 0.9    |
| 100°   | 134.5 | 131.1 | 121.8 | 105.6 | 82.5  | 55.9  | 29.1  | 9.2   | 1.2   | 0.5   | 0.9    |
| 102.5° | 121.6 | 118.8 | 109.3 | 93.6  | 70.0  | 45.5  | 21.7  | 5.8   | 0.5   | 0.5   | 0.7    |
| 105°   | 110.0 | 106.6 | 97.3  | 81.1  | 59.6  | 35.8  | 15.3  | 3.5   | 0.5   | 0.5   | 0.7    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 10°  | 20°  | 30°  | 40°  | 50°  | 60° | 70° | 80° | 90° | 112.5° |
|--------|------|------|------|------|------|------|-----|-----|-----|-----|--------|
| 112.5° | 71.7 | 68.9 | 60.8 | 47.2 | 30.3 | 14.1 | 4.2 | 0.7 | 0.7 | 0.7 | 0.7    |
| 115°   | 59.9 | 55.7 | 48.5 | 36.5 | 22.4 | 9.2  | 2.1 | 0.7 | 0.7 | 0.7 | 0.7    |
| 117.5° | 47.8 | 44.4 | 39.3 | 27.7 | 14.8 | 6.0  | 1.2 | 0.7 | 0.7 | 0.7 | 0.7    |
| 120°   | 37.4 | 34.2 | 28.4 | 19.2 | 9.9  | 3.5  | 0.5 | 0.7 | 0.7 | 0.7 | 0.7    |
| 122.5° | 26.8 | 24.3 | 19.2 | 12.5 | 6.0  | 1.6  | 0.7 | 0.7 | 0.9 | 0.9 | 0.7    |
| 125°   | 17.8 | 16.4 | 12.7 | 7.6  | 3.7  | 0.7  | 0.7 | 0.7 | 0.9 | 0.9 | 0.7    |
| 127.5° | 11.6 | 10.4 | 7.4  | 4.4  | 1.6  | 0.7  | 0.7 | 0.9 | 0.9 | 0.9 | 0.7    |
| 130°   | 6.5  | 5.8  | 4.4  | 2.5  | 0.7  | 0.7  | 0.7 | 0.9 | 0.9 | 0.9 | 0.7    |
| 132.5° | 3.7  | 3.5  | 2.3  | 0.5  | 0.7  | 0.7  | 0.7 | 0.9 | 0.9 | 0.9 | 0.9    |
| 135°   | 0.9  | 0.5  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9 | 0.9 | 1.2 | 1.2 | 0.9    |
| 137.5° | 0.2  | 0.2  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9 | 1.2 | 1.2 | 1.2 | 0.9    |
| 140°   | 0.2  | 0.2  | 0.5  | 0.7  | 0.7  | 0.7  | 0.9 | 1.2 | 1.2 | 1.2 | 0.9    |
| 142.5° | 0.2  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9  | 0.9 | 1.2 | 1.2 | 0.9 | 0.9    |
| 145°   | 0.2  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9  | 0.9 | 1.2 | 0.9 | 0.9 | 0.9    |
| 147.5° | 0.5  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9  | 0.9 | 1.2 | 1.2 | 0.9 | 0.9    |
| 150°   | 0.2  | 0.5  | 0.5  | 0.7  | 0.9  | 0.9  | 0.9 | 1.2 | 0.9 | 0.9 | 0.9    |
| 152.5° | 0.2  | 0.5  | 0.5  | 0.7  | 0.9  | 0.9  | 0.9 | 1.2 | 0.9 | 0.9 | 0.9    |
| 155°   | 0.5  | 0.5  | 0.5  | 0.7  | 0.9  | 0.9  | 0.9 | 1.2 | 0.9 | 0.9 | 1.2    |
| 157.5° | 0.5  | 0.5  | 0.5  | 0.7  | 0.9  | 0.9  | 0.9 | 1.2 | 0.9 | 0.9 | 1.2    |
| 160°   | 0.5  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9  | 0.9 | 0.9 | 0.9 | 0.9 | 0.9    |
| 162.5° | 0.5  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9  | 0.9 | 0.9 | 0.9 | 0.9 | 0.9    |
| 165°   | 0.5  | 0.5  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9 | 0.9 | 0.9 | 0.9 | 0.9    |
| 167.5° | 0.5  | 0.5  | 0.5  | 0.7  | 0.7  | 0.7  | 0.9 | 0.9 | 0.9 | 0.9 | 0.9    |
| 170°   | 0.5  | 0.5  | 0.5  | 0.7  | 0.7  | 0.7  | 0.9 | 1.2 | 1.2 | 1.2 | 1.2    |
| 172.5° | 0.5  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9  | 0.9 | 1.2 | 1.2 | 1.2 | 1.2    |
| 175°   | 0.5  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9  | 0.9 | 1.2 | 1.2 | 1.2 | 1.2    |
| 177.5° | 0.2  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9  | 0.9 | 1.2 | 1.2 | 1.2 | 0.9    |
| 180°   | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7 | 0.7 | 0.7 | 0.7 | 0.7    |



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CATALOG NUMBER: FCC-X-2-LD4-1LO-35-UNV-81-97-ED1D-90

**CANDELA DISTRIBUTION (continued):**

|        | 135°  | 157.5° | 180°  |
|--------|-------|--------|-------|
| 0°     | 181.4 | 181.4  | 181.4 |
| 2.5°   | 172.7 | 169.4  | 168.5 |
| 5°     | 163.4 | 158.1  | 155.1 |
| 7.5°   | 154.2 | 147.0  | 143.5 |
| 10°    | 145.6 | 135.4  | 131.7 |
| 12.5°  | 135.4 | 123.7  | 117.9 |
| 15°    | 125.7 | 110.5  | 104.9 |
| 17.5°  | 114.9 | 97.8   | 91.3  |
| 20°    | 104.7 | 85.1   | 78.4  |
| 22.5°  | 93.1  | 72.6   | 65.2  |
| 25°    | 82.7  | 60.1   | 51.8  |
| 27.5°  | 71.2  | 47.4   | 40.2  |
| 30°    | 60.3  | 36.3   | 29.1  |
| 32.5°  | 49.9  | 26.6   | 20.1  |
| 35°    | 40.2  | 18.0   | 12.7  |
| 37.5°  | 31.0  | 11.1   | 6.5   |
| 40°    | 22.4  | 5.8    | 3.0   |
| 42.5°  | 15.0  | 2.8    | 1.6   |
| 45°    | 9.2   | 1.4    | 0.0   |
| 47.5°  | 5.3   | 0.0    | 0.0   |
| 50°    | 2.8   | 0.0    | 0.0   |
| 52.5°  | 1.2   | 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°    | 0.2   | 0.2    | 0.2   |
| 77.5°  | 0.2   | 0.5    | 0.7   |
| 80°    | 0.5   | 0.9    | 1.2   |
| 82.5°  | 0.9   | 1.2    | 1.2   |
| 85°    | 0.9   | 1.2    | 1.4   |
| 87.5°  | 1.2   | 1.4    | 1.6   |
| 90°    | 1.4   | 1.6    | 1.6   |
| 92.5°  | 1.4   | 1.8    | 1.8   |
| 95°    | 1.6   | 1.8    | 2.1   |
| 97.5°  | 1.8   | 2.1    | 2.1   |
| 100°   | 1.6   | 2.1    | 2.3   |
| 102.5° | 1.4   | 2.1    | 2.1   |
| 105°   | 1.2   | 1.6    | 1.8   |





TEST NUMBER: P550773

CATALOG NUMBER: FCC-X-2-LD4-1LO-35-UNV-81-97-ED1D-90

**CANDELA DISTRIBUTION (continued):**

|        | 135° | 157.5° | 180° |
|--------|------|--------|------|
| 112.5° | 0.9  | 1.2    | 1.2  |
| 115°   | 0.7  | 0.9    | 1.2  |
| 117.5° | 0.7  | 0.9    | 0.9  |
| 120°   | 0.7  | 0.7    | 0.9  |
| 122.5° | 0.7  | 0.7    | 0.9  |
| 125°   | 0.7  | 0.7    | 0.9  |
| 127.5° | 0.9  | 0.7    | 0.7  |
| 130°   | 0.7  | 0.7    | 0.7  |
| 132.5° | 0.9  | 0.7    | 0.7  |
| 135°   | 0.9  | 0.7    | 0.7  |
| 137.5° | 0.9  | 0.7    | 0.7  |
| 140°   | 0.9  | 0.7    | 0.7  |
| 142.5° | 0.9  | 0.7    | 0.7  |
| 145°   | 0.7  | 0.7    | 0.7  |
| 147.5° | 0.7  | 0.7    | 0.7  |
| 150°   | 0.7  | 0.7    | 0.5  |
| 152.5° | 0.7  | 0.5    | 0.5  |
| 155°   | 0.7  | 0.5    | 0.2  |
| 157.5° | 0.9  | 0.5    | 0.2  |
| 160°   | 0.7  | 0.5    | 0.2  |
| 162.5° | 0.7  | 0.5    | 0.2  |
| 165°   | 0.7  | 0.5    | 0.0  |
| 167.5° | 0.7  | 0.5    | 0.2  |
| 170°   | 0.7  | 0.5    | 0.2  |
| 172.5° | 0.7  | 0.5    | 0.2  |
| 175°   | 0.7  | 0.2    | 0.2  |
| 177.5° | 0.7  | 0.2    | 0.2  |
| 180°   | 0.7  | 0.7    | 0.7  |



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







|        |      |      |      |      |      |      |      |     |     |     |     |
|--------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| 107.5° | 97.1 | 94.3 | 85.1 | 69.8 | 48.8 | 27.3 | 10.2 | 1.8 | 0.5 | 0.7 | 0.7 |
| 110°   | 84.6 | 82.3 | 72.8 | 58.0 | 39.3 | 20.3 | 6.7  | 1.2 | 0.7 | 0.7 | 0.7 |







|        |     |     |     |
|--------|-----|-----|-----|
| 107.5° | 0.9 | 1.4 | 1.6 |
| 110°   | 0.9 | 1.2 | 1.4 |



(END OF REPORT)