

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: P551288

Luminaire Tested: **FCC-X-2-LD4-2HI-35-UNV-82-84-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: P551288  
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-LD4-2HI-35-UNV-82-84-ED1D  
Description: FCC CORNER MOUNT LUMINAIRE WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 3500K, AND 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

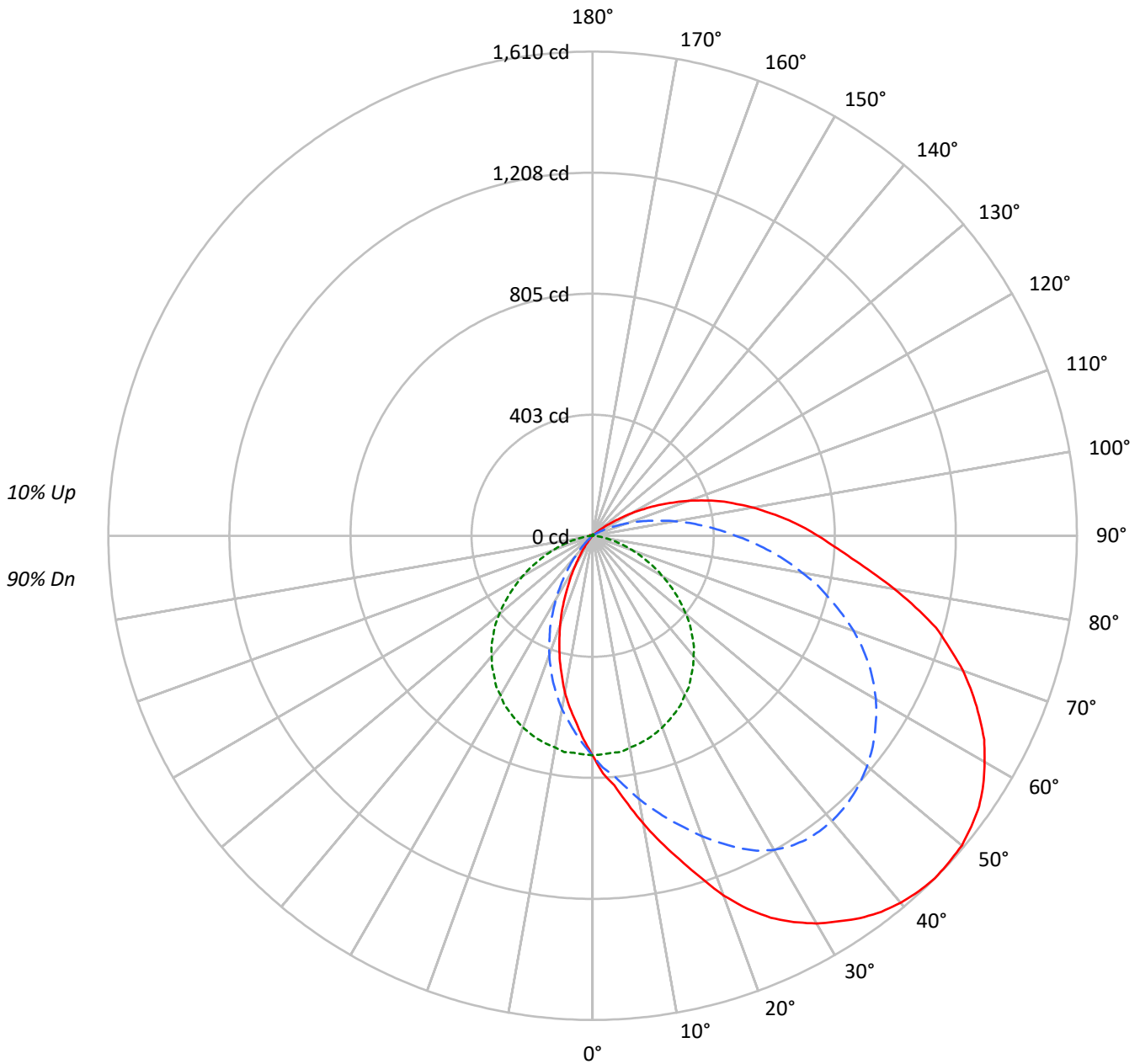
Lumens per Lamp: N/A  
Luminaire Lumens: 3609.0 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')  
CIE Type: Semi-Direct

Input Watts (W): 43.3  
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: P551288

CATALOG NUMBER: FCC-X-2-LD4-2HI-35-UNV-82-84-ED1D

### Luminous Intensity Polar Plot





TEST NUMBER: P551288

CATALOG NUMBER: FCC-X-2-LD4-2HI-35-UNV-82-84-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°  | 7858  | 7858 | 7858 |
| 5°  | 8625  | 7742 | 6460 |
| 10° | 9761  | 7647 | 5325 |
| 15° | 10939 | 7551 | 4149 |
| 20° | 12338 | 7427 | 3056 |
| 25° | 13497 | 7285 | 2006 |
| 30° | 14360 | 7093 | 1130 |
| 35° | 15106 | 6888 | 497  |
| 40° | 15768 | 6635 | 120  |
| 45° | 16337 | 6316 | 0    |
| 50° | 16813 | 5895 | 0    |
| 55° | 17176 | 5360 | 0    |
| 60° | 17359 | 4739 | 0    |
| 65° | 17431 | 4035 | 0    |
| 70° | 17372 | 3289 | 0    |
| 75° | 17152 | 2428 | 13   |
| 80° | 16457 | 1484 | 74   |
| 85° | 15907 | 707  | 103  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 69.9   | 1.9       |
| 10°-20°   | 209.4  | 5.8       |
| 20°-30°   | 339.1  | 9.4       |
| 30°-40°   | 435.5  | 12.1      |
| 40°-50°   | 493.0  | 13.7      |
| 50°-60°   | 510.8  | 14.2      |
| 60°-70°   | 481.7  | 13.3      |
| 70°-80°   | 403.7  | 11.2      |
| 80°-90°   | 292.6  | 8.1       |
| 90°-100°  | 192.3  | 5.3       |
| 100°-110° | 111.1  | 3.1       |
| 110°-120° | 49.0   | 1.4       |
| 120°-130° | 13.3   | 0.4       |
| 130°-140° | 3.0    | 0.1       |
| 140°-150° | 2.0    | 0.1       |
| 150°-160° | 1.4    | 0.0       |
| 160°-170° | 0.8    | 0.0       |
| 170°-180° | 0.3    | 0.0       |
| 0°-30°    | 618.4  | 17.1      |
| 0°-40°    | 1053.9 | 29.2      |
| 0°-60°    | 2057.7 | 57.0      |
| 0°-90°    | 3235.8 | 89.7      |
| 90°-120°  | 352.4  | 9.8       |
| 90°-150°  | 370.7  | 10.3      |
| 90°-180°  | 373.0  | 10.3      |
| 0°-180°   | 3609.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90° | 135° | 180° | Flux |
|------|------|------|-----|------|------|------|
| 0°   | 730  | 730  | 730 | 730  | 730  |      |
| 5°   | 833  | 800  | 724 | 658  | 624  | 84   |
| 15°  | 1113 | 976  | 700 | 506  | 422  | 321  |
| 25°  | 1401 | 1145 | 649 | 333  | 208  | 648  |
| 35°  | 1552 | 1235 | 570 | 162  | 51   | 973  |
| 45°  | 1610 | 1222 | 467 | 37   | 0    | 1243 |
| 55°  | 1569 | 1145 | 337 | 0    | 0    | 1401 |
| 65°  | 1418 | 1014 | 201 | 0    | 0    | 1403 |
| 75°  | 1182 | 818  | 86  | 1    | 1    | 1240 |
| 85°  | 865  | 593  | 14  | 4    | 6    | 739  |
| 90°  | 750  | 476  | 4   | 6    | 6    | 411  |
| 95°  | 644  | 372  | 2   | 6    | 8    | 505  |
| 105° | 443  | 192  | 2   | 5    | 7    | 467  |
| 115° | 241  | 64   | 3   | 3    | 5    | 241  |
| 125° | 72   | 9    | 4   | 3    | 4    | 72   |
| 135° | 4    | 3    | 5   | 4    | 3    | 7    |
| 145° | 1    | 3    | 4   | 3    | 3    | 1    |
| 155° | 2    | 4    | 4   | 3    | 1    | 1    |
| 165° | 2    | 3    | 4   | 3    | 0    | 1    |
| 175° | 2    | 3    | 5   | 3    | 1    | 0    |
| 180° | 3    | 3    | 3   | 3    | 3    |      |



TEST NUMBER: P551288

CATALOG NUMBER: FCC-X-2-LD4-2HI-35-UNV-82-84-ED1D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 10°    | 20°    | 30°    | 40°    | 50°    | 60°    | 70°   | 80°   | 90°   | 112.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|
| 0°     | 730.0  | 730.0  | 730.0  | 730.0  | 730.0  | 730.0  | 730.0  | 730.0 | 730.0 | 730.0 | 730.0  |
| 2.5°   | 791.4  | 790.5  | 787.7  | 783.0  | 776.5  | 765.4  | 756.1  | 747.7 | 736.5 | 727.2 | 709.6  |
| 5°     | 833.2  | 828.6  | 824.9  | 820.2  | 805.3  | 795.1  | 778.4  | 759.8 | 742.1 | 724.4 | 689.1  |
| 7.5°   | 900.2  | 892.8  | 887.2  | 874.2  | 853.7  | 830.4  | 804.4  | 786.7 | 774.7 | 725.4 | 664.9  |
| 10°    | 971.8  | 965.3  | 954.1  | 930.9  | 905.8  | 872.3  | 835.1  | 793.3 | 756.1 | 715.1 | 643.5  |
| 12.5°  | 1042.5 | 1033.2 | 1017.4 | 987.6  | 952.3  | 910.4  | 859.3  | 810.0 | 757.0 | 708.6 | 618.4  |
| 15°    | 1113.2 | 1102.9 | 1086.2 | 1049.9 | 1003.4 | 948.6  | 886.2  | 823.9 | 761.6 | 700.3 | 592.4  |
| 17.5°  | 1190.3 | 1176.4 | 1151.3 | 1110.4 | 1051.8 | 983.9  | 910.4  | 835.1 | 759.8 | 690.0 | 564.5  |
| 20°    | 1273.1 | 1253.6 | 1226.6 | 1171.7 | 1102.9 | 1022.9 | 934.6  | 846.3 | 758.8 | 677.9 | 532.9  |
| 22.5°  | 1341.9 | 1322.4 | 1292.6 | 1235.9 | 1153.1 | 1055.5 | 955.1  | 853.7 | 755.1 | 664.0 | 503.1  |
| 25°    | 1401.4 | 1385.6 | 1353.1 | 1288.0 | 1200.6 | 1089.9 | 974.6  | 859.3 | 749.5 | 649.1 | 471.5  |
| 27.5°  | 1447.9 | 1433.1 | 1396.8 | 1329.8 | 1240.6 | 1120.6 | 989.5  | 862.1 | 742.1 | 634.2 | 438.9  |
| 30°    | 1488.9 | 1474.0 | 1430.3 | 1361.5 | 1267.5 | 1144.8 | 1004.4 | 863.0 | 732.8 | 611.9 | 403.6  |
| 32.5°  | 1520.5 | 1506.5 | 1461.9 | 1388.4 | 1286.1 | 1161.5 | 1012.7 | 862.1 | 720.7 | 596.1 | 365.5  |
| 35°    | 1552.1 | 1538.1 | 1486.1 | 1408.0 | 1300.1 | 1169.0 | 1019.2 | 857.4 | 705.8 | 570.1 | 329.2  |
| 37.5°  | 1576.3 | 1560.5 | 1507.5 | 1421.0 | 1306.6 | 1170.8 | 1018.3 | 850.9 | 690.0 | 548.7 | 292.9  |
| 40°    | 1593.0 | 1576.3 | 1519.5 | 1428.4 | 1308.4 | 1168.0 | 1010.9 | 839.7 | 671.4 | 521.7 | 254.8  |
| 42.5°  | 1604.2 | 1585.6 | 1525.1 | 1439.6 | 1304.7 | 1160.6 | 999.7  | 825.8 | 651.0 | 498.5 | 218.5  |
| 45°    | 1609.8 | 1590.2 | 1526.1 | 1430.3 | 1298.2 | 1146.6 | 983.0  | 808.1 | 628.6 | 466.8 | 182.3  |
| 47.5°  | 1607.0 | 1585.6 | 1521.4 | 1420.0 | 1286.1 | 1131.8 | 964.4  | 786.7 | 601.7 | 438.9 | 147.9  |
| 50°    | 1602.3 | 1580.0 | 1511.2 | 1407.0 | 1269.4 | 1113.2 | 943.9  | 760.7 | 573.8 | 404.5 | 117.2  |
| 52.5°  | 1587.4 | 1565.1 | 1500.0 | 1388.4 | 1249.9 | 1091.8 | 916.0  | 733.7 | 544.0 | 371.1 | 89.3   |
| 55°    | 1568.8 | 1548.4 | 1480.5 | 1371.7 | 1224.7 | 1065.7 | 890.0  | 704.9 | 515.2 | 336.6 | 64.2   |
| 57.5°  | 1540.0 | 1521.4 | 1456.3 | 1344.7 | 1199.6 | 1036.9 | 861.1  | 673.3 | 478.9 | 302.2 | 44.6   |
| 60°    | 1504.7 | 1486.1 | 1422.8 | 1314.0 | 1170.8 | 1004.4 | 829.5  | 640.7 | 446.4 | 267.8 | 27.9   |
| 62.5°  | 1467.5 | 1449.8 | 1383.8 | 1275.9 | 1134.5 | 969.9  | 795.1  | 608.2 | 412.0 | 236.2 | 16.7   |
| 65°    | 1418.2 | 1401.4 | 1341.9 | 1230.3 | 1094.6 | 932.7  | 757.0  | 569.1 | 376.6 | 200.9 | 9.3    |
| 67.5°  | 1366.1 | 1351.2 | 1290.8 | 1188.5 | 1048.1 | 891.8  | 717.9  | 531.0 | 339.4 | 170.2 | 4.6    |
| 70°    | 1310.3 | 1291.7 | 1235.9 | 1131.8 | 1000.6 | 845.3  | 675.1  | 491.9 | 304.1 | 140.4 | 0.0    |
| 72.5°  | 1245.2 | 1231.3 | 1177.3 | 1078.7 | 945.8  | 796.0  | 631.4  | 449.2 | 265.0 | 111.6 | 0.9    |
| 75°    | 1182.0 | 1164.3 | 1115.0 | 1022.0 | 891.8  | 744.0  | 583.1  | 409.2 | 226.9 | 85.6  | 0.9    |
| 77.5°  | 1100.1 | 1094.6 | 1048.1 | 957.9  | 840.7  | 693.7  | 530.1  | 360.8 | 190.6 | 61.4  | 0.9    |
| 80°    | 1018.3 | 1012.7 | 976.5  | 893.7  | 781.2  | 634.2  | 480.8  | 315.3 | 155.3 | 40.9  | 0.9    |
| 82.5°  | 937.4  | 930.0  | 895.5  | 826.7  | 720.7  | 584.0  | 429.6  | 269.7 | 122.8 | 25.1  | 0.9    |
| 85°    | 864.9  | 855.6  | 818.4  | 755.1  | 658.4  | 527.3  | 376.6  | 225.0 | 91.1  | 13.9  | 1.9    |
| 87.5°  | 802.6  | 796.0  | 755.1  | 690.0  | 595.2  | 474.3  | 330.1  | 182.3 | 64.2  | 6.5   | 2.8    |
| 90°    | 749.5  | 735.6  | 699.3  | 630.5  | 535.7  | 415.7  | 280.8  | 146.0 | 42.8  | 3.7   | 3.7    |
| 92.5°  | 697.5  | 685.4  | 645.4  | 574.7  | 482.6  | 365.5  | 233.4  | 111.6 | 27.0  | 1.9   | 4.6    |
| 95°    | 643.5  | 630.5  | 591.5  | 526.4  | 428.7  | 314.3  | 191.6  | 81.8  | 14.9  | 1.9   | 4.6    |
| 97.5°  | 590.5  | 578.4  | 537.5  | 472.4  | 380.4  | 269.7  | 151.6  | 57.7  | 7.4   | 1.9   | 3.7    |
| 100°   | 541.2  | 527.3  | 490.1  | 425.0  | 332.0  | 225.0  | 117.2  | 37.2  | 4.6   | 1.9   | 3.7    |
| 102.5° | 489.2  | 478.0  | 439.9  | 376.6  | 281.8  | 183.2  | 87.4   | 23.2  | 1.9   | 1.9   | 2.8    |
| 105°   | 442.7  | 428.7  | 391.5  | 326.4  | 239.9  | 144.1  | 61.4   | 13.9  | 1.9   | 1.9   | 2.8    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 30°   | 40°   | 50°  | 60°  | 70° | 80° | 90° | 112.5° |
|--------|-------|-------|-------|-------|-------|------|------|-----|-----|-----|--------|
| 112.5° | 288.3 | 277.1 | 244.6 | 189.7 | 121.8 | 56.7 | 16.7 | 2.8 | 2.8 | 2.8 | 2.8    |
| 115°   | 240.9 | 224.1 | 195.3 | 146.9 | 90.2  | 37.2 | 8.4  | 2.8 | 2.8 | 2.8 | 2.8    |
| 117.5° | 192.5 | 178.6 | 158.1 | 111.6 | 59.5  | 24.2 | 4.6  | 2.8 | 2.8 | 2.8 | 2.8    |
| 120°   | 150.7 | 137.6 | 114.4 | 77.2  | 40.0  | 13.9 | 1.9  | 2.8 | 2.8 | 2.8 | 2.8    |
| 122.5° | 107.9 | 97.6  | 77.2  | 50.2  | 24.2  | 6.5  | 2.8  | 2.8 | 3.7 | 3.7 | 2.8    |
| 125°   | 71.6  | 66.0  | 51.1  | 30.7  | 14.9  | 2.8  | 2.8  | 2.8 | 3.7 | 3.7 | 2.8    |
| 127.5° | 46.5  | 41.8  | 29.8  | 17.7  | 6.5   | 2.8  | 2.8  | 3.7 | 3.7 | 3.7 | 2.8    |
| 130°   | 26.0  | 23.2  | 17.7  | 10.2  | 2.8   | 2.8  | 2.8  | 3.7 | 3.7 | 3.7 | 2.8    |
| 132.5° | 14.9  | 13.9  | 9.3   | 1.9   | 2.8   | 2.8  | 2.8  | 3.7 | 3.7 | 3.7 | 3.7    |
| 135°   | 3.7   | 1.9   | 1.9   | 1.9   | 2.8   | 2.8  | 3.7  | 3.7 | 4.6 | 4.6 | 3.7    |
| 137.5° | 0.9   | 0.9   | 1.9   | 1.9   | 2.8   | 2.8  | 3.7  | 4.6 | 4.6 | 4.6 | 3.7    |
| 140°   | 0.9   | 0.9   | 1.9   | 2.8   | 2.8   | 2.8  | 3.7  | 4.6 | 4.6 | 4.6 | 3.7    |
| 142.5° | 0.9   | 1.9   | 1.9   | 2.8   | 2.8   | 3.7  | 3.7  | 4.6 | 4.6 | 3.7 | 3.7    |
| 145°   | 0.9   | 1.9   | 1.9   | 2.8   | 2.8   | 3.7  | 3.7  | 4.6 | 3.7 | 3.7 | 3.7    |
| 147.5° | 1.9   | 1.9   | 1.9   | 2.8   | 2.8   | 3.7  | 3.7  | 4.6 | 4.6 | 3.7 | 3.7    |
| 150°   | 0.9   | 1.9   | 1.9   | 2.8   | 3.7   | 3.7  | 3.7  | 4.6 | 3.7 | 3.7 | 3.7    |
| 152.5° | 0.9   | 1.9   | 1.9   | 2.8   | 3.7   | 3.7  | 3.7  | 4.6 | 3.7 | 3.7 | 3.7    |
| 155°   | 1.9   | 1.9   | 1.9   | 2.8   | 3.7   | 3.7  | 3.7  | 4.6 | 3.7 | 3.7 | 4.6    |
| 157.5° | 1.9   | 1.9   | 1.9   | 2.8   | 3.7   | 3.7  | 3.7  | 4.6 | 3.7 | 3.7 | 4.6    |
| 160°   | 1.9   | 1.9   | 1.9   | 2.8   | 2.8   | 3.7  | 3.7  | 3.7 | 3.7 | 3.7 | 3.7    |
| 162.5° | 1.9   | 1.9   | 1.9   | 2.8   | 2.8   | 3.7  | 3.7  | 3.7 | 3.7 | 3.7 | 3.7    |
| 165°   | 1.9   | 1.9   | 1.9   | 1.9   | 2.8   | 2.8  | 3.7  | 3.7 | 3.7 | 3.7 | 3.7    |
| 167.5° | 1.9   | 1.9   | 1.9   | 2.8   | 2.8   | 2.8  | 3.7  | 3.7 | 3.7 | 3.7 | 3.7    |
| 170°   | 1.9   | 1.9   | 1.9   | 2.8   | 2.8   | 2.8  | 3.7  | 4.6 | 4.6 | 4.6 | 4.6    |
| 172.5° | 1.9   | 1.9   | 1.9   | 2.8   | 2.8   | 3.7  | 3.7  | 4.6 | 4.6 | 4.6 | 4.6    |
| 175°   | 1.9   | 1.9   | 1.9   | 2.8   | 2.8   | 3.7  | 3.7  | 4.6 | 4.6 | 4.6 | 4.6    |
| 177.5° | 0.9   | 1.9   | 1.9   | 2.8   | 2.8   | 3.7  | 3.7  | 4.6 | 4.6 | 4.6 | 3.7    |
| 180°   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8  | 2.8  | 2.8 | 2.8 | 2.8 | 2.8    |



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**CANDELA DISTRIBUTION (continued):**

|        | 135°  | 157.5° | 180°  |
|--------|-------|--------|-------|
| 0°     | 730.0 | 730.0  | 730.0 |
| 2.5°   | 694.7 | 681.7  | 677.9 |
| 5°     | 657.5 | 636.1  | 624.0 |
| 7.5°   | 620.3 | 591.5  | 577.5 |
| 10°    | 585.9 | 545.0  | 530.1 |
| 12.5°  | 545.0 | 497.5  | 474.3 |
| 15°    | 505.9 | 444.5  | 422.2 |
| 17.5°  | 462.2 | 393.4  | 367.3 |
| 20°    | 421.3 | 342.2  | 315.3 |
| 22.5°  | 374.8 | 292.0  | 262.2 |
| 25°    | 332.9 | 241.8  | 208.3 |
| 27.5°  | 286.4 | 190.6  | 161.8 |
| 30°    | 242.7 | 146.0  | 117.2 |
| 32.5°  | 200.9 | 106.9  | 80.9  |
| 35°    | 161.8 | 72.5   | 51.1  |
| 37.5°  | 124.6 | 44.6   | 26.0  |
| 40°    | 90.2  | 23.2   | 12.1  |
| 42.5°  | 60.4  | 11.2   | 6.5   |
| 45°    | 37.2  | 5.6    | 0.0   |
| 47.5°  | 21.4  | 0.0    | 0.0   |
| 50°    | 11.2  | 0.0    | 0.0   |
| 52.5°  | 4.6   | 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°    | 0.9   | 0.9    | 0.9   |
| 77.5°  | 0.9   | 1.9    | 2.8   |
| 80°    | 1.9   | 3.7    | 4.6   |
| 82.5°  | 3.7   | 4.6    | 4.6   |
| 85°    | 3.7   | 4.6    | 5.6   |
| 87.5°  | 4.6   | 5.6    | 6.5   |
| 90°    | 5.6   | 6.5    | 6.5   |
| 92.5°  | 5.6   | 7.4    | 7.4   |
| 95°    | 6.5   | 7.4    | 8.4   |
| 97.5°  | 7.4   | 8.4    | 8.4   |
| 100°   | 6.5   | 8.4    | 9.3   |
| 102.5° | 5.6   | 8.4    | 8.4   |
| 105°   | 4.6   | 6.5    | 7.4   |





TEST NUMBER: P551288

CATALOG NUMBER: FCC-X-2-LD4-2HI-35-UNV-82-84-ED1D

**CANDELA DISTRIBUTION (continued):**

|        | 135° | 157.5° | 180° |
|--------|------|--------|------|
| 112.5° | 3.7  | 4.6    | 4.6  |
| 115°   | 2.8  | 3.7    | 4.6  |
| 117.5° | 2.8  | 3.7    | 3.7  |
| 120°   | 2.8  | 2.8    | 3.7  |
| 122.5° | 2.8  | 2.8    | 3.7  |
| 125°   | 2.8  | 2.8    | 3.7  |
| 127.5° | 3.7  | 2.8    | 2.8  |
| 130°   | 2.8  | 2.8    | 2.8  |
| 132.5° | 3.7  | 2.8    | 2.8  |
| 135°   | 3.7  | 2.8    | 2.8  |
| 137.5° | 3.7  | 2.8    | 2.8  |
| 140°   | 3.7  | 2.8    | 2.8  |
| 142.5° | 3.7  | 2.8    | 2.8  |
| 145°   | 2.8  | 2.8    | 2.8  |
| 147.5° | 2.8  | 2.8    | 2.8  |
| 150°   | 2.8  | 2.8    | 1.9  |
| 152.5° | 2.8  | 1.9    | 1.9  |
| 155°   | 2.8  | 1.9    | 0.9  |
| 157.5° | 3.7  | 1.9    | 0.9  |
| 160°   | 2.8  | 1.9    | 0.9  |
| 162.5° | 2.8  | 1.9    | 0.9  |
| 165°   | 2.8  | 1.9    | 0.0  |
| 167.5° | 2.8  | 1.9    | 0.9  |
| 170°   | 2.8  | 1.9    | 0.9  |
| 172.5° | 2.8  | 1.9    | 0.9  |
| 175°   | 2.8  | 0.9    | 0.9  |
| 177.5° | 2.8  | 0.9    | 0.9  |
| 180°   | 2.8  | 2.8    | 2.8  |



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







|        |       |       |       |       |       |       |      |     |     |     |     |
|--------|-------|-------|-------|-------|-------|-------|------|-----|-----|-----|-----|
| 107.5° | 390.6 | 379.4 | 342.2 | 280.8 | 196.2 | 109.7 | 40.9 | 7.4 | 1.9 | 2.8 | 2.8 |
| 110°   | 340.4 | 331.1 | 292.9 | 233.4 | 158.1 | 81.8  | 27.0 | 4.6 | 2.8 | 2.8 | 2.8 |







|        |     |     |     |
|--------|-----|-----|-----|
| 107.5° | 3.7 | 5.6 | 6.5 |
| 110°   | 3.7 | 4.6 | 5.6 |



(END OF REPORT)