

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: METALUX

Report Number: P566095

Luminaire Tested: **4SNX-20SL-LC-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566095  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-20SL-LC-UNV-L835-CD  
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

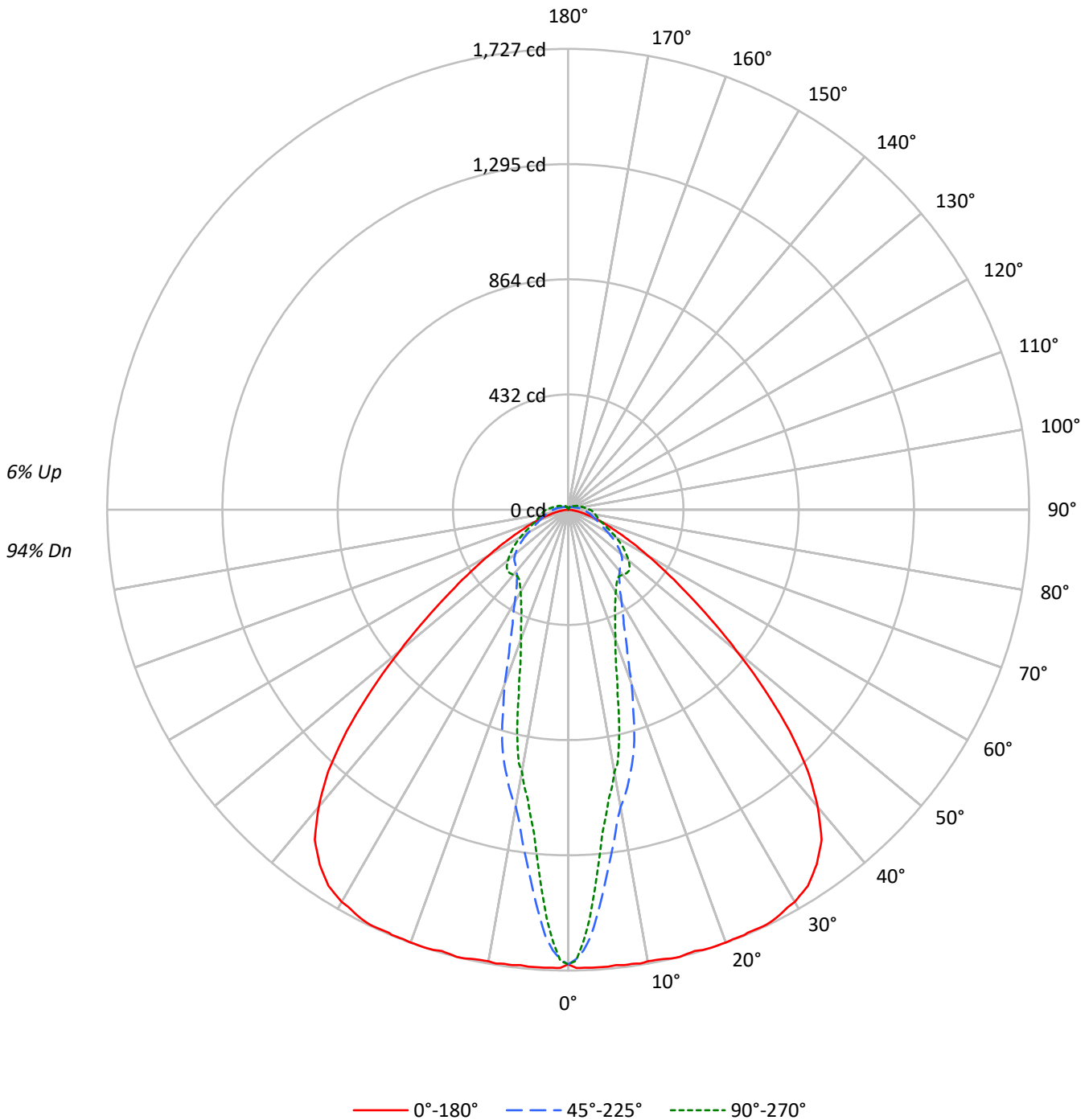
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2100.0 lumens  
Efficiency: N/A  
Efficacy: 173.6 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 12.1  
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

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### Luminous Intensity Polar Plot





TEST NUMBER: P566095

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**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 | 50 | 30 | 10 | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |   |  |   |
| 0   | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 | 94 |    |    |    |    | 94 |   |  |   |
| 1   | 108 | 103 | 99  | 96  | 105 | 101 | 97  | 94  | 95  | 92  | 90  | 90  | 88  | 86  | 86 | 84 | 82 | 80 |    |    |    |    | 80 |   |  |   |
| 2   | 99  | 92  | 86  | 80  | 96  | 89  | 84  | 79  | 85  | 80  | 76  | 81  | 77  | 74  | 77 | 74 | 71 | 69 |    |    |    |    | 69 |   |  |   |
| 3   | 92  | 82  | 75  | 69  | 89  | 80  | 73  | 68  | 76  | 71  | 66  | 73  | 68  | 64  | 70 | 66 | 62 | 60 |    |    |    |    | 60 |   |  |   |
| 4   | 85  | 74  | 66  | 60  | 82  | 72  | 65  | 59  | 69  | 63  | 58  | 66  | 61  | 56  | 63 | 59 | 55 | 53 |    |    |    |    | 53 |   |  |   |
| 5   | 79  | 67  | 59  | 53  | 76  | 66  | 58  | 52  | 63  | 56  | 51  | 60  | 55  | 50  | 58 | 53 | 49 | 47 |    |    |    |    | 47 |   |  |   |
| 6   | 73  | 61  | 53  | 47  | 71  | 60  | 52  | 47  | 58  | 51  | 46  | 56  | 50  | 45  | 53 | 48 | 44 | 42 |    |    |    |    | 42 |   |  |   |
| 7   | 69  | 56  | 48  | 43  | 67  | 55  | 48  | 42  | 53  | 46  | 42  | 51  | 45  | 41  | 50 | 44 | 40 | 38 |    |    |    |    | 38 |   |  |   |
| 8   | 64  | 52  | 44  | 39  | 63  | 51  | 44  | 39  | 49  | 43  | 38  | 48  | 42  | 37  | 46 | 41 | 37 | 35 |    |    |    |    | 35 |   |  |   |
| 9   | 61  | 48  | 41  | 36  | 59  | 47  | 40  | 35  | 46  | 39  | 35  | 44  | 39  | 34  | 43 | 38 | 34 | 32 |    |    |    |    | 32 |   |  |   |
| 10  | 57  | 45  | 38  | 33  | 56  | 44  | 37  | 33  | 43  | 37  | 32  | 42  | 36  | 32  | 40 | 35 | 31 | 30 |    |    |    |    | 30 |   |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 18337 | 18337 | 18337 |
| 5°  | 18503 | 15061 | 13482 |
| 10° | 18648 | 11371 | 9757  |
| 15° | 18988 | 9294  | 6756  |
| 20° | 19478 | 6725  | 4772  |
| 25° | 20086 | 4818  | 3754  |
| 30° | 20599 | 3850  | 3197  |
| 35° | 20721 | 3256  | 2863  |
| 40° | 19754 | 2960  | 2871  |
| 45° | 17143 | 2860  | 2949  |
| 50° | 13152 | 2720  | 2752  |
| 55° | 9531  | 2378  | 2442  |
| 60° | 6915  | 1985  | 2064  |
| 65° | 5031  | 1679  | 1692  |
| 70° | 3708  | 1482  | 1459  |
| 75° | 2635  | 1373  | 1360  |
| 80° | 1725  | 1285  | 1339  |
| 85° | 811   | 1225  | 1341  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 134.0  | 6.4       |
| 10°-20°   | 290.9  | 13.9      |
| 20°-30°   | 333.0  | 15.9      |
| 30°-40°   | 333.6  | 15.9      |
| 40°-50°   | 315.8  | 15.0      |
| 50°-60°   | 242.2  | 11.5      |
| 60°-70°   | 156.1  | 7.4       |
| 70°-80°   | 99.5   | 4.7       |
| 80°-90°   | 66.1   | 3.1       |
| 90°-100°  | 44.4   | 2.1       |
| 100°-110° | 29.3   | 1.4       |
| 110°-120° | 20.4   | 1.0       |
| 120°-130° | 14.2   | 0.7       |
| 130°-140° | 9.9    | 0.5       |
| 140°-150° | 6.0    | 0.3       |
| 150°-160° | 3.1    | 0.1       |
| 160°-170° | 1.2    | 0.1       |
| 170°-180° | 0.2    | 0.0       |
| 0°-30°    | 757.9  | 36.1      |
| 0°-40°    | 1091.5 | 52.0      |
| 0°-60°    | 1649.6 | 78.6      |
| 0°-90°    | 1971.3 | 93.9      |
| 90°-120°  | 94.1   | 4.5       |
| 90°-150°  | 124.2  | 5.9       |
| 90°-180°  | 129.0  | 6.1       |
| 0°-180°   | 2100.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1704 | 1704  | 1704 | 1704  | 1704 |      |
| 5°   | 1719 | 1624  | 1455 | 1357  | 1320 | 164  |
| 15°  | 1723 | 1241  | 946  | 777   | 715  | 489  |
| 25°  | 1724 | 878   | 500  | 435   | 414  | 795  |
| 35°  | 1623 | 489   | 335  | 324   | 320  | 1007 |
| 45°  | 1173 | 309   | 282  | 312   | 323  | 892  |
| 55°  | 538  | 221   | 217  | 244   | 254  | 495  |
| 65°  | 215  | 139   | 137  | 156   | 161  | 221  |
| 75°  | 73   | 75    | 95   | 109   | 114  | 80   |
| 85°  | 10   | 34    | 67   | 87    | 94   | 13   |
| 90°  | 0    | 24    | 56   | 78    | 81   | 0    |
| 95°  | 0    | 17    | 46   | 64    | 67   | 0    |
| 105° | 0    | 13    | 30   | 43    | 46   | 1    |
| 115° | 1    | 11    | 23   | 31    | 33   | 1    |
| 125° | 1    | 10    | 19   | 23    | 24   | 1    |
| 135° | 1    | 8     | 15   | 18    | 19   | 1    |
| 145° | 1    | 5     | 11   | 14    | 15   | 1    |
| 155° | 1    | 3     | 6    | 10    | 11   | 1    |
| 165° | 2    | 2     | 4    | 5     | 6    | 1    |
| 175° | 2    | 2     | 2    | 2     | 1    | 0    |
| 180° | 2    | 2     | 2    | 2     | 2    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1703.6 | 1703.6 | 1703.6 | 1703.6 | 1703.6 |
| 1°    | 1717.6 | 1707.9 | 1685.3 | 1691.8 | 1690.7 |
| 2°    | 1717.6 | 1697.2 | 1653.0 | 1640.1 | 1620.8 |
| 3°    | 1718.7 | 1678.9 | 1603.5 | 1561.6 | 1534.7 |
| 4°    | 1718.7 | 1652.0 | 1530.4 | 1460.4 | 1426.0 |
| 5°    | 1718.7 | 1624.0 | 1455.0 | 1357.1 | 1320.5 |
| 6°    | 1716.5 | 1590.6 | 1378.6 | 1275.3 | 1220.4 |
| 7°    | 1719.8 | 1554.0 | 1309.7 | 1198.9 | 1155.8 |
| 8°    | 1718.7 | 1511.0 | 1246.2 | 1140.8 | 1093.4 |
| 9°    | 1721.9 | 1469.0 | 1177.4 | 1085.9 | 1050.4 |
| 10°   | 1718.7 | 1430.3 | 1132.2 | 1034.2 | 997.6  |
| 11°   | 1718.7 | 1392.6 | 1099.9 | 1000.9 | 969.7  |
| 12°   | 1720.8 | 1349.6 | 1064.4 | 953.5  | 910.5  |
| 13°   | 1726.2 | 1305.4 | 1023.5 | 901.9  | 851.3  |
| 14°   | 1727.3 | 1272.1 | 985.8  | 836.2  | 783.5  |
| 15°   | 1723.0 | 1240.9 | 946.0  | 777.0  | 714.6  |
| 16°   | 1720.8 | 1208.6 | 898.6  | 721.1  | 665.1  |
| 17°   | 1725.1 | 1170.9 | 844.8  | 664.0  | 612.4  |
| 18°   | 1726.2 | 1136.5 | 787.8  | 621.0  | 575.8  |
| 19°   | 1726.2 | 1109.6 | 741.5  | 581.1  | 542.4  |
| 20°   | 1726.2 | 1083.7 | 694.1  | 551.0  | 517.7  |
| 21°   | 1724.1 | 1051.4 | 640.3  | 519.8  | 491.8  |
| 22.5° | 1725.1 | 991.2  | 579.0  | 483.2  | 460.6  |
| 23°   | 1721.9 | 976.1  | 563.9  | 473.5  | 449.9  |
| 24°   | 1723.0 | 933.1  | 531.6  | 454.2  | 431.6  |
| 25°   | 1724.1 | 878.2  | 500.4  | 434.8  | 414.3  |
| 26°   | 1721.9 | 834.1  | 474.6  | 416.5  | 402.5  |
| 27°   | 1716.5 | 798.5  | 456.3  | 401.4  | 388.5  |
| 28°   | 1709.0 | 751.2  | 436.9  | 388.5  | 376.7  |
| 29°   | 1701.5 | 697.4  | 417.6  | 374.5  | 365.9  |
| 30°   | 1697.2 | 654.3  | 399.3  | 363.8  | 356.2  |
| 32.5° | 1671.3 | 569.3  | 361.6  | 342.2  | 335.8  |
| 35°   | 1622.9 | 488.6  | 334.7  | 323.9  | 319.6  |
| 37.5° | 1559.4 | 426.2  | 314.2  | 312.1  | 313.2  |
| 40°   | 1455.0 | 376.7  | 299.2  | 308.9  | 318.6  |
| 42.5° | 1330.2 | 337.9  | 288.4  | 312.1  | 322.9  |
| 45°   | 1173.1 | 308.9  | 282.0  | 312.1  | 322.9  |
| 47.5° | 998.7  | 285.2  | 274.4  | 301.3  | 312.1  |
| 50°   | 824.4  | 263.7  | 259.4  | 285.2  | 294.9  |
| 52.5° | 670.5  | 243.2  | 240.0  | 264.7  | 274.4  |
| 55°   | 538.1  | 220.6  | 217.4  | 244.3  | 254.0  |
| 57.5° | 431.6  | 199.1  | 195.9  | 220.6  | 230.3  |
| 60°   | 344.4  | 177.6  | 172.2  | 196.9  | 206.6  |
| 62.5° | 274.4  | 157.1  | 153.9  | 175.4  | 184.0  |
| 65°   | 215.2  | 138.8  | 136.7  | 156.0  | 161.4  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 67.5°  | 170.0 | 121.6 | 122.7 | 138.8 | 145.3 |
| 70°    | 131.3 | 105.5 | 111.9 | 127.0 | 131.3 |
| 72.5°  | 99.0  | 89.3  | 103.3 | 116.2 | 121.6 |
| 75°    | 73.2  | 75.3  | 94.7  | 108.7 | 114.1 |
| 77.5°  | 50.6  | 62.4  | 87.2  | 102.2 | 107.6 |
| 80°    | 34.4  | 50.6  | 79.6  | 96.9  | 103.3 |
| 82.5°  | 20.4  | 42.0  | 73.2  | 91.5  | 99.0  |
| 85°    | 9.7   | 34.4  | 66.7  | 87.2  | 93.6  |
| 87.5°  | 3.2   | 28.0  | 60.3  | 82.9  | 88.2  |
| 90°    | 0.0   | 23.7  | 56.0  | 77.5  | 80.7  |
| 92.5°  | 0.0   | 20.4  | 50.6  | 71.0  | 73.2  |
| 95°    | 0.0   | 17.2  | 46.3  | 63.5  | 66.7  |
| 97.5°  | 0.0   | 16.1  | 43.0  | 57.0  | 61.3  |
| 100°   | 0.0   | 15.1  | 38.7  | 51.7  | 56.0  |
| 102.5° | 0.0   | 12.9  | 34.4  | 46.3  | 50.6  |
| 105°   | 0.0   | 12.9  | 30.1  | 43.0  | 46.3  |
| 107.5° | 1.1   | 11.8  | 28.0  | 38.7  | 43.0  |
| 110°   | 1.1   | 11.8  | 24.8  | 36.6  | 39.8  |
| 112.5° | 1.1   | 11.8  | 23.7  | 33.4  | 37.7  |
| 115°   | 1.1   | 10.8  | 22.6  | 31.2  | 33.4  |
| 117.5° | 1.1   | 10.8  | 21.5  | 28.0  | 30.1  |
| 120°   | 1.1   | 9.7   | 20.4  | 25.8  | 26.9  |
| 122.5° | 1.1   | 9.7   | 19.4  | 23.7  | 24.8  |
| 125°   | 1.1   | 9.7   | 19.4  | 22.6  | 23.7  |
| 127.5° | 1.1   | 8.6   | 18.3  | 21.5  | 21.5  |
| 130°   | 1.1   | 8.6   | 17.2  | 20.4  | 20.4  |
| 132.5° | 1.1   | 7.5   | 16.1  | 19.4  | 20.4  |
| 135°   | 1.1   | 7.5   | 15.1  | 18.3  | 19.4  |
| 137.5° | 1.1   | 6.5   | 14.0  | 17.2  | 18.3  |
| 140°   | 1.1   | 6.5   | 12.9  | 16.1  | 17.2  |
| 142.5° | 1.1   | 5.4   | 11.8  | 15.1  | 16.1  |
| 145°   | 1.1   | 5.4   | 10.8  | 14.0  | 15.1  |
| 147.5° | 1.1   | 5.4   | 9.7   | 12.9  | 14.0  |
| 150°   | 1.1   | 4.3   | 8.6   | 11.8  | 12.9  |
| 152.5° | 1.1   | 4.3   | 7.5   | 10.8  | 11.8  |
| 155°   | 1.1   | 3.2   | 6.5   | 9.7   | 10.8  |
| 157.5° | 1.1   | 3.2   | 6.5   | 8.6   | 9.7   |
| 160°   | 2.2   | 3.2   | 5.4   | 7.5   | 8.6   |
| 162.5° | 1.1   | 2.2   | 5.4   | 6.5   | 7.5   |
| 165°   | 2.2   | 2.2   | 4.3   | 5.4   | 6.5   |
| 167.5° | 2.2   | 2.2   | 3.2   | 4.3   | 5.4   |
| 170°   | 2.2   | 2.2   | 3.2   | 3.2   | 4.3   |
| 172.5° | 2.2   | 2.2   | 2.2   | 3.2   | 2.2   |
| 175°   | 2.2   | 2.2   | 2.2   | 2.2   | 1.1   |
| 177.5° | 2.2   | 2.2   | 2.2   | 2.2   | 1.1   |



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**CANDELA DISTRIBUTION (continued):**

|      | 0°  | 22.5° | 45° | 67.5° | 90° |
|------|-----|-------|-----|-------|-----|
| 180° | 2.2 | 2.2   | 2.2 | 2.2   | 2.2 |

(END OF REPORT)