

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: PORTFOLIO

Report Number: P843923

Luminaire Tested: **LD6C08DE010B2750 EU6C08B50 6LBSQLI**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843923  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209348)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C08DE010B2750 EU6C08B50 6LBSQLI  
Description:  
Light Source: -  
Ballast/Driver:

**Summary**

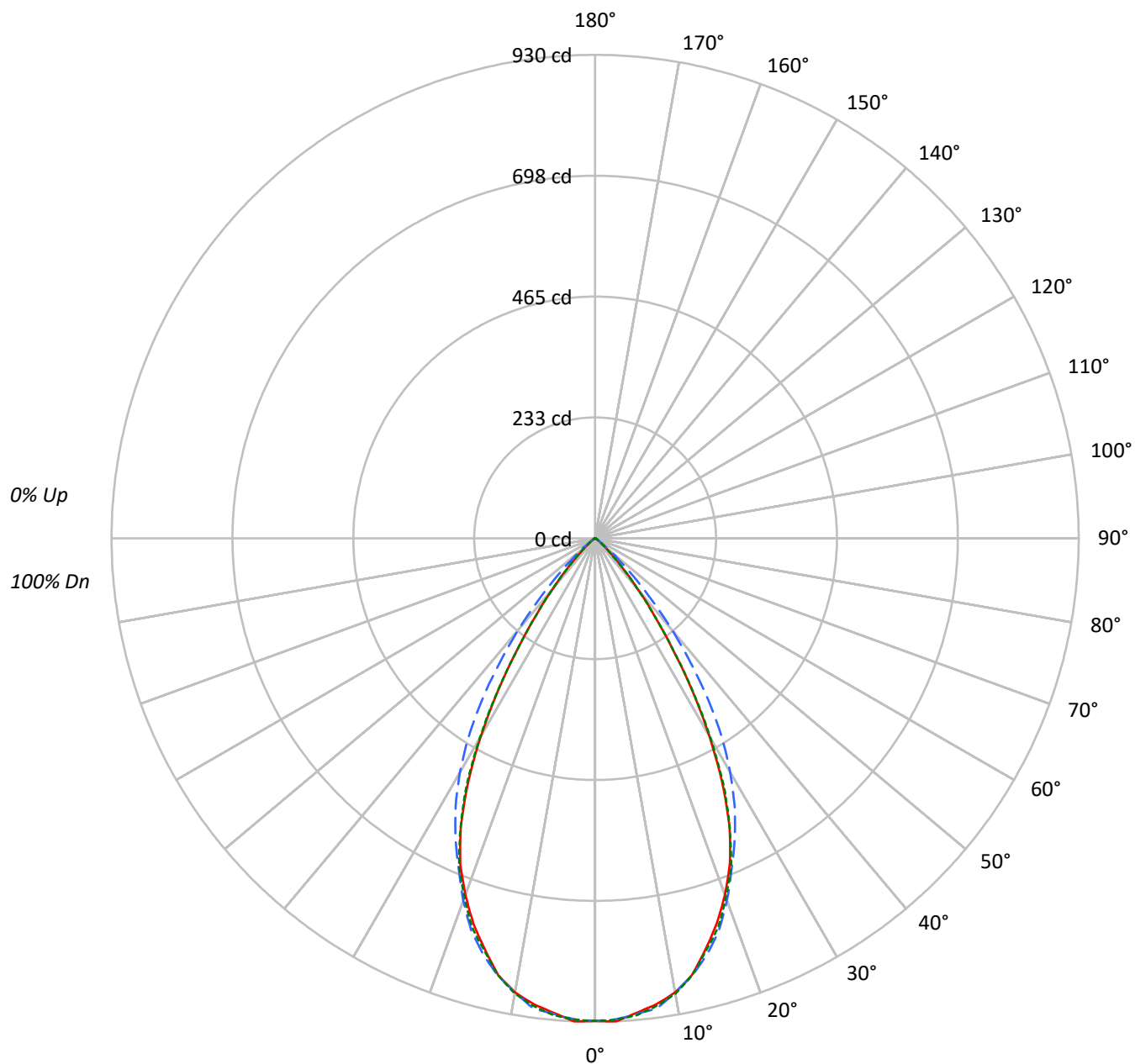
Lumens per Lamp: N/A  
Luminaire Lumens: 872.6 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.6  
Input Voltage (V):  
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

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### Luminous Intensity Polar Plot





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

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 |  | 101 | 99  | 98  |  | 97  |
| 2   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 94  | 98  | 95  | 92  |  | 95  | 92  | 90  |  | 92  |
| 3   | 102 | 96  | 91  | 87  | 100 | 94  | 90  | 86  | 92  | 88  | 85  |  | 89  | 86  | 83  |  | 87  |
| 4   | 97  | 89  | 84  | 79  | 95  | 88  | 83  | 79  | 86  | 81  | 78  |  | 84  | 80  | 77  |  | 82  |
| 5   | 92  | 83  | 78  | 73  | 90  | 82  | 77  | 73  | 81  | 76  | 72  |  | 79  | 75  | 72  |  | 77  |
| 6   | 87  | 78  | 72  | 68  | 86  | 77  | 72  | 67  | 76  | 71  | 67  |  | 74  | 70  | 67  |  | 73  |
| 7   | 83  | 73  | 67  | 63  | 81  | 73  | 67  | 63  | 71  | 66  | 62  |  | 70  | 66  | 62  |  | 69  |
| 8   | 79  | 69  | 63  | 59  | 77  | 68  | 63  | 59  | 67  | 62  | 58  |  | 66  | 62  | 58  |  | 65  |
| 9   | 75  | 65  | 59  | 55  | 74  | 64  | 59  | 55  | 64  | 58  | 55  |  | 63  | 58  | 54  |  | 62  |
| 10  | 71  | 61  | 55  | 52  | 70  | 61  | 55  | 51  | 60  | 55  | 51  |  | 59  | 55  | 51  |  | 59  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 39977 | 39977 | 39977 |
| 5°  | 39598 | 39702 | 39801 |
| 10° | 38775 | 38775 | 38884 |
| 15° | 36511 | 36979 | 36640 |
| 20° | 33429 | 33966 | 33668 |
| 25° | 29046 | 30186 | 29069 |
| 30° | 21840 | 25828 | 22049 |
| 35° | 13566 | 19894 | 13624 |
| 40° | 7138  | 12961 | 7104  |
| 45° | 2953  | 6485  | 3026  |
| 50° | 1132  | 2431  | 1132  |
| 55° | 608   | 743   | 570   |
| 60° | 405   | 353   | 405   |
| 65° | 234   | 234   | 234   |
| 70° | 151   | 227   | 151   |
| 75° | 100   | 100   | 100   |
| 80° | 149   | 149   | 149   |
| 85° | 0     | 0     | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.9   | 10.0      |
| 10°-20°   | 231.2  | 26.5      |
| 20°-30°   | 283.8  | 32.5      |
| 30°-40°   | 195.9  | 22.5      |
| 40°-50°   | 61.3   | 7.0       |
| 50°-60°   | 9.6    | 1.1       |
| 60°-70°   | 2.8    | 0.3       |
| 70°-80°   | 0.9    | 0.1       |
| 80°-90°   | 0.2    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| <hr/>     |        |           |
| 0°-30°    | 602.0  | 69.0      |
| 0°-40°    | 797.9  | 91.4      |
| 0°-60°    | 868.7  | 99.6      |
| 0°-90°    | 872.6  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 872.6  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 928 | 928   | 928 | 928   | 928 |      |
| 5°  | 916 | 920   | 919 | 919   | 921 | 87   |
| 15° | 819 | 831   | 830 | 828   | 822 | 229  |
| 25° | 611 | 627   | 635 | 631   | 612 | 274  |
| 35° | 258 | 305   | 378 | 308   | 259 | 165  |
| 45° | 48  | 66    | 106 | 66    | 50  | 43   |
| 55° | 8   | 9     | 10  | 9     | 8   | 8    |
| 65° | 2   | 3     | 2   | 3     | 2   | 3    |
| 75° | 1   | 1     | 1   | 1     | 1   | 1    |
| 85° | 0   | 0     | 0   | 0     | 0   | 0    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 |
| 2.5°  | 930.3 | 917.4 | 925.6 | 923.8 | 928.5 | 931.5 | 928.5 | 933.8 | 930.3 | 926.2 | 927.3 |
| 5°    | 916.2 | 918.0 | 917.4 | 918.6 | 919.7 | 919.7 | 925.6 | 926.2 | 927.3 | 918.6 | 920.9 |
| 7.5°  | 904.0 | 904.0 | 906.9 | 905.7 | 909.8 | 908.6 | 909.2 | 913.9 | 914.4 | 912.1 | 910.4 |
| 10°   | 886.9 | 884.6 | 881.7 | 881.7 | 886.9 | 887.6 | 892.2 | 892.9 | 896.3 | 886.9 | 888.2 |
| 12.5° | 860.7 | 859.4 | 854.8 | 857.1 | 861.2 | 858.9 | 866.5 | 867.0 | 865.9 | 861.9 | 864.2 |
| 15°   | 819.1 | 823.8 | 822.6 | 822.0 | 831.4 | 830.2 | 829.6 | 831.4 | 831.9 | 829.6 | 827.9 |
| 17.5° | 777.6 | 781.7 | 782.2 | 783.4 | 785.2 | 787.0 | 789.3 | 795.8 | 793.3 | 791.6 | 797.5 |
| 20°   | 729.6 | 727.9 | 732.5 | 737.2 | 739.0 | 739.0 | 742.5 | 747.1 | 743.6 | 741.3 | 741.9 |
| 22.5° | 677.5 | 680.5 | 678.2 | 682.8 | 685.1 | 688.1 | 691.6 | 695.7 | 692.8 | 686.3 | 693.9 |
| 25°   | 611.4 | 613.1 | 620.7 | 620.2 | 623.7 | 630.7 | 636.0 | 636.0 | 636.0 | 635.4 | 635.4 |
| 27.5° | 528.3 | 527.1 | 536.5 | 542.9 | 551.7 | 562.9 | 569.9 | 581.0 | 582.8 | 581.0 | 576.8 |
| 30°   | 439.3 | 438.2 | 449.9 | 458.1 | 473.9 | 479.2 | 498.5 | 509.0 | 520.1 | 519.5 | 516.7 |
| 32.5° | 346.9 | 349.3 | 358.6 | 370.4 | 383.2 | 399.6 | 417.8 | 441.1 | 451.1 | 453.4 | 448.1 |
| 35°   | 258.1 | 261.6 | 270.3 | 280.3 | 296.0 | 314.2 | 339.3 | 361.6 | 378.5 | 378.5 | 374.4 |
| 37.5° | 186.0 | 187.2 | 195.5 | 201.9 | 218.2 | 234.6 | 256.3 | 286.7 | 297.2 | 301.3 | 297.2 |
| 40°   | 127.0 | 127.0 | 131.7 | 138.7 | 152.1 | 166.2 | 186.0 | 208.9 | 224.1 | 230.6 | 223.5 |
| 42.5° | 80.8  | 82.0  | 85.5  | 90.1  | 100.1 | 112.3 | 127.6 | 144.6 | 155.7 | 160.3 | 153.9 |
| 45°   | 48.5  | 49.7  | 52.7  | 56.2  | 62.6  | 70.2  | 80.8  | 93.1  | 102.4 | 106.5 | 103.5 |
| 47.5° | 29.3  | 30.5  | 31.6  | 34.0  | 38.6  | 43.9  | 49.2  | 56.2  | 62.0  | 62.6  | 61.4  |
| 50°   | 16.9  | 16.9  | 18.2  | 19.9  | 22.2  | 25.2  | 28.1  | 32.2  | 34.0  | 36.3  | 34.0  |
| 52.5° | 11.1  | 11.1  | 11.1  | 11.7  | 12.9  | 14.1  | 15.2  | 17.6  | 18.7  | 18.7  | 18.2  |
| 55°   | 8.1   | 8.1   | 8.1   | 8.1   | 8.8   | 8.8   | 8.8   | 9.4   | 9.9   | 9.9   | 9.9   |
| 57.5° | 5.8   | 5.8   | 5.8   | 6.5   | 6.5   | 6.5   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   |
| 60°   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.1   | 4.1   | 4.1   |
| 62.5° | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| 65°   | 2.3   | 2.3   | 2.3   | 3.0   | 3.0   | 3.0   | 3.0   | 2.3   | 2.3   | 2.3   | 2.3   |
| 67.5° | 1.8   | 1.8   | 1.8   | 2.3   | 2.3   | 2.3   | 2.3   | 2.3   | 1.8   | 1.8   | 1.8   |
| 70°   | 1.2   | 1.2   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   |
| 72.5° | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   |
| 75°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 77.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 80°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 82.5° | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 | 928.5 |
| 2.5°  | 930.8 | 928.0 | 928.0 | 928.0 | 926.8 | 928.0 | 929.7 | 926.8 |
| 5°    | 920.9 | 922.0 | 916.9 | 920.9 | 922.7 | 919.7 | 926.8 | 920.9 |
| 7.5°  | 912.1 | 910.4 | 902.2 | 908.1 | 911.6 | 912.7 | 912.1 | 907.4 |
| 10°   | 894.5 | 890.5 | 886.9 | 886.9 | 885.8 | 885.2 | 891.7 | 889.4 |
| 12.5° | 863.0 | 865.9 | 860.7 | 863.6 | 861.2 | 861.9 | 862.4 | 861.2 |
| 15°   | 836.1 | 833.2 | 826.1 | 830.8 | 827.9 | 825.0 | 830.8 | 822.0 |
| 17.5° | 794.0 | 793.3 | 789.3 | 786.4 | 787.5 | 787.0 | 789.8 | 785.8 |
| 20°   | 744.3 | 745.4 | 743.1 | 741.9 | 740.1 | 736.0 | 739.6 | 734.8 |
| 22.5° | 690.4 | 691.6 | 693.9 | 689.3 | 689.8 | 684.0 | 689.3 | 684.0 |
| 25°   | 636.0 | 635.4 | 632.5 | 630.1 | 623.7 | 617.2 | 616.1 | 611.9 |
| 27.5° | 576.3 | 572.2 | 565.2 | 557.6 | 547.6 | 538.9 | 538.2 | 535.4 |
| 30°   | 510.7 | 502.0 | 489.2 | 476.8 | 461.7 | 448.1 | 448.1 | 443.5 |
| 32.5° | 441.8 | 421.8 | 404.2 | 389.1 | 369.2 | 361.6 | 354.0 | 349.9 |
| 35°   | 359.3 | 341.7 | 320.6 | 295.5 | 286.1 | 267.4 | 268.5 | 259.2 |
| 37.5° | 281.4 | 259.8 | 239.9 | 219.5 | 203.1 | 194.3 | 189.5 | 184.9 |
| 40°   | 208.9 | 187.8 | 166.2 | 152.7 | 138.1 | 130.5 | 127.6 | 126.4 |
| 42.5° | 142.8 | 125.2 | 111.2 | 100.1 | 92.4  | 84.3  | 82.0  | 80.8  |
| 45°   | 93.1  | 83.1  | 70.2  | 61.4  | 56.2  | 51.5  | 51.5  | 49.7  |
| 47.5° | 55.6  | 49.2  | 42.7  | 36.9  | 33.3  | 30.5  | 29.3  | 28.7  |
| 50°   | 31.0  | 27.5  | 24.0  | 21.7  | 19.4  | 17.6  | 16.9  | 16.9  |
| 52.5° | 16.9  | 15.2  | 14.1  | 12.3  | 11.1  | 11.1  | 11.1  | 10.6  |
| 55°   | 8.8   | 8.8   | 8.8   | 8.8   | 8.1   | 8.1   | 8.1   | 7.6   |
| 57.5° | 5.8   | 5.8   | 6.5   | 6.5   | 6.5   | 5.8   | 5.8   | 5.8   |
| 60°   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   |
| 62.5° | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| 65°   | 2.3   | 3.0   | 3.0   | 3.0   | 3.0   | 2.3   | 2.3   | 2.3   |
| 67.5° | 1.8   | 2.3   | 2.3   | 2.3   | 1.8   | 1.8   | 1.8   | 1.8   |
| 70°   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.2   | 1.2   | 1.2   |
| 72.5° | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   |
| 75°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 77.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 80°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 82.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)