

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: P830094

Luminaire Tested: **OHBL-24SE-A-UNV-L750-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830094  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24SE-A-UNV-L750-CD  
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

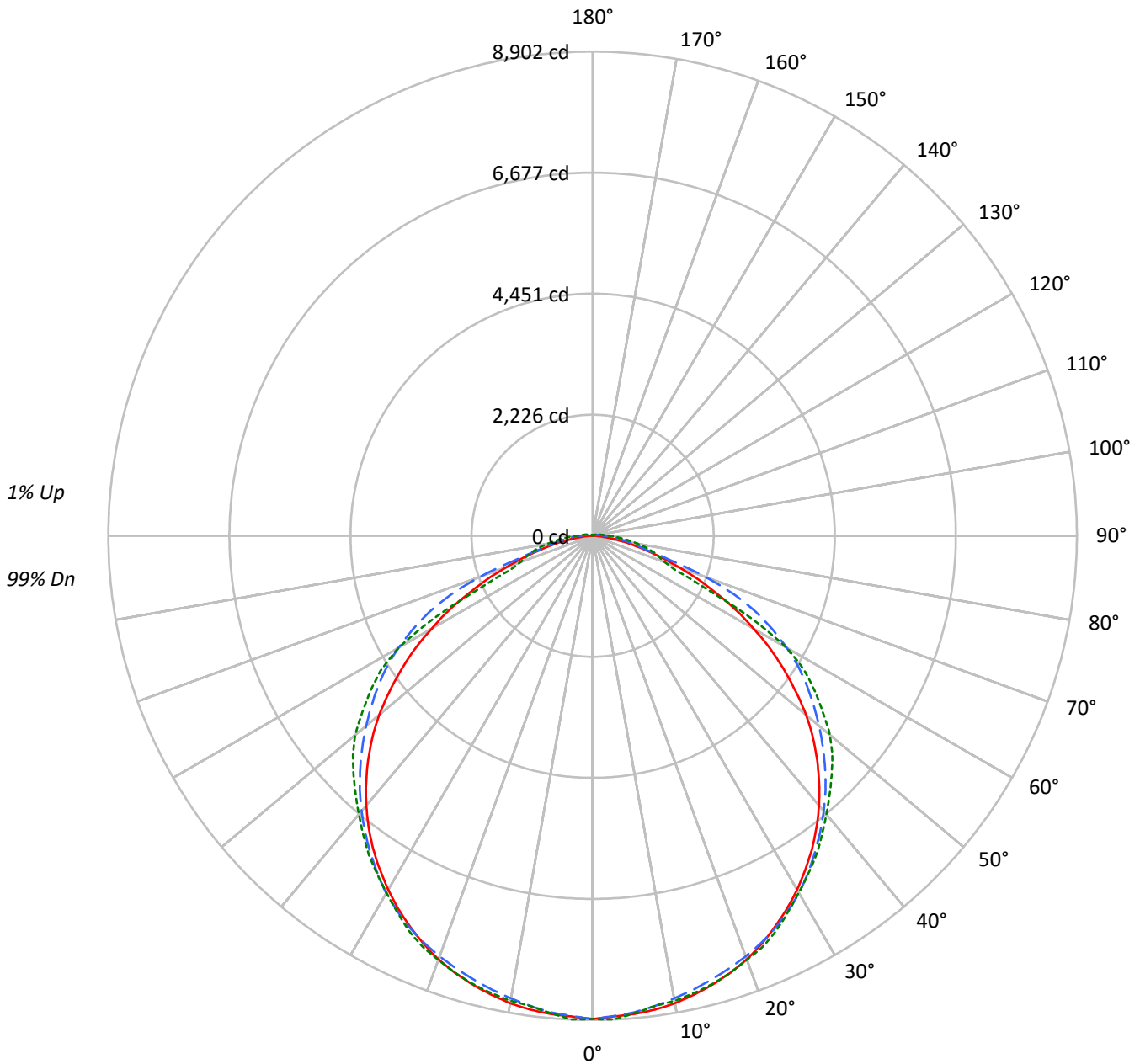
Lumens per Lamp: N/A  
Luminaire Lumens: 25109.0 lumens  
Efficiency: N/A  
Efficacy: 181.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 138  
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: P830094

CATALOG NUMBER: OHBL-24SE-A-UNV-L750-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P830094

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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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 110 | 110 | 110 | 106 | 106 | 106 | 101 | 101 | 101 |    |    |    | 99 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 97  | 94  | 91  | 93  | 91  | 88  | 90  | 87  | 86  |    |    |    | 83 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 99  | 91  | 84  | 79  | 96  | 89  | 83  | 78  | 85  | 80  | 76  | 82  | 78  | 74  | 79  | 75  | 72  |    |    |    | 70 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 75  | 69  | 64  | 72  | 67  | 63  | 70  | 65  | 61  |    |    |    | 59 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 54  | 65  | 59  | 54  | 62  | 57  | 53  |    |    |    | 51 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 76  | 64  | 55  | 48  | 74  | 62  | 54  | 48  | 60  | 53  | 47  | 58  | 52  | 46  | 56  | 50  | 46  |    |    |    | 44 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 70  | 57  | 48  | 42  | 68  | 56  | 48  | 42  | 54  | 47  | 41  | 52  | 46  | 41  | 51  | 45  | 40  |    |    |    | 38 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 65  | 52  | 43  | 37  | 63  | 51  | 43  | 37  | 49  | 42  | 36  | 48  | 41  | 36  | 46  | 40  | 36  |    |    |    | 34 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 61  | 47  | 39  | 33  | 59  | 46  | 38  | 33  | 45  | 38  | 33  | 44  | 37  | 32  | 42  | 36  | 32  |    |    |    | 30 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 57  | 43  | 35  | 30  | 55  | 43  | 35  | 29  | 41  | 34  | 29  | 40  | 34  | 29  | 39  | 33  | 29  |    |    |    | 27 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 26  | 36  | 30  | 26  |    |    |    | 24 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 15173 | 15173 | 15173 |
| 5°  | 15074 | 14946 | 14975 |
| 10° | 15019 | 14713 | 14799 |
| 15° | 14923 | 14537 | 14690 |
| 20° | 14828 | 14424 | 14550 |
| 25° | 14649 | 14309 | 14411 |
| 30° | 14454 | 14133 | 14128 |
| 35° | 14222 | 13857 | 13967 |
| 40° | 13919 | 13572 | 13750 |
| 45° | 13500 | 13242 | 13646 |
| 50° | 12932 | 12868 | 13522 |
| 55° | 12030 | 12498 | 12999 |
| 60° | 10848 | 11961 | 11998 |
| 65° | 9305  | 10975 | 7587  |
| 70° | 7495  | 8550  | 5485  |
| 75° | 5619  | 5060  | 5543  |
| 80° | 3911  | 4188  | 5256  |
| 85° | 2226  | 3802  | 4863  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 837.6   | 3.3       |
| 10°-20°   | 2402.0  | 9.6       |
| 20°-30°   | 3668.5  | 14.6      |
| 30°-40°   | 4451.2  | 17.7      |
| 40°-50°   | 4665.3  | 18.6      |
| 50°-60°   | 4227.5  | 16.8      |
| 60°-70°   | 2834.3  | 11.3      |
| 70°-80°   | 1272.7  | 5.1       |
| 80°-90°   | 461.9   | 1.8       |
| 90°-100°  | 139.0   | 0.6       |
| 100°-110° | 65.6    | 0.3       |
| 110°-120° | 32.9    | 0.1       |
| 120°-130° | 18.1    | 0.1       |
| 130°-140° | 12.5    | 0.0       |
| 140°-150° | 8.4     | 0.0       |
| 150°-160° | 6.2     | 0.0       |
| 160°-170° | 4.0     | 0.0       |
| 170°-180° | 1.3     | 0.0       |
| 0°-30°    | 6908.1  | 27.5      |
| 0°-40°    | 11359.3 | 45.2      |
| 0°-60°    | 20252.1 | 80.7      |
| 0°-90°    | 24821.0 | 98.9      |
| 90°-120°  | 237.5   | 0.9       |
| 90°-150°  | 276.5   | 1.1       |
| 90°-180°  | 288.0   | 1.1       |
| 0°-180°   | 25109.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 8884 | 8884  | 8884 | 8884  | 8884 |      |
| 5°   | 8826 | 8857  | 8795 | 8822  | 8810 | 839  |
| 15°  | 8539 | 8506  | 8446 | 8520  | 8530 | 2411 |
| 25°  | 7933 | 7898  | 7954 | 8027  | 8004 | 3657 |
| 35°  | 7031 | 7048  | 7120 | 7196  | 7168 | 4395 |
| 45°  | 5836 | 5930  | 6041 | 6195  | 6214 | 4495 |
| 55°  | 4294 | 4501  | 4808 | 5000  | 4989 | 3833 |
| 65°  | 2520 | 2914  | 3309 | 2792  | 2280 | 2511 |
| 75°  | 992  | 1439  | 1058 | 1083  | 1154 | 1084 |
| 85°  | 171  | 328   | 420  | 507   | 532  | 208  |
| 90°  | 1    | 109   | 217  | 272   | 285  | 10   |
| 95°  | 1    | 68    | 149  | 181   | 186  | 2    |
| 105° | 5    | 30    | 73   | 89    | 92   | 6    |
| 115° | 10   | 15    | 37   | 48    | 50   | 10   |
| 125° | 9    | 10    | 23   | 27    | 28   | 9    |
| 135° | 12   | 13    | 14   | 21    | 22   | 9    |
| 145° | 12   | 13    | 13   | 14    | 15   | 8    |
| 155° | 13   | 14    | 14   | 14    | 13   | 6    |
| 165° | 14   | 14    | 14   | 14    | 14   | 4    |
| 175° | 14   | 14    | 13   | 12    | 12   | 1    |
| 180° | 13   | 13    | 13   | 13    | 13   |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°            | 22.5°         | 45°           | 67.5°         | 90°           |
|--------|---------------|---------------|---------------|---------------|---------------|
| 0°     | 8883.6        | 8883.6        | 8883.6        | 8883.6        | <i>8883.6</i> |
| 2.5°   | <i>8847.6</i> | <i>8884.9</i> | <i>8838.6</i> | <i>8888.7</i> | <i>8901.6</i> |
| 5°     | 8825.8        | 8856.6        | 8795.0        | 8821.9        | <i>8810.4</i> |
| 7.5°   | 8786.0        | 8796.2        | 8723.0        | 8744.9        | <i>8721.7</i> |
| 10°    | 8726.9        | 8721.7        | 8635.7        | 8678.1        | <i>8683.2</i> |
| 12.5°  | 8639.5        | 8624.1        | 8547.0        | 8611.3        | <i>8612.6</i> |
| 15°    | 8539.3        | 8505.9        | 8445.6        | 8520.1        | <i>8530.3</i> |
| 17.5°  | 8423.7        | 8380.1        | 8340.2        | 8436.6        | <i>8421.2</i> |
| 20°    | 8288.9        | 8237.5        | 8229.8        | 8335.1        | <i>8296.6</i> |
| 22.5°  | 8121.9        | 8082.1        | 8100.0        | 8200.2        | <i>8175.8</i> |
| 25°    | 7933.1        | 7898.4        | 7953.6        | 8026.8        | <i>8003.7</i> |
| 27.5°  | 7734.0        | 7713.4        | 7776.3        | 7832.9        | <i>7787.9</i> |
| 30°    | 7515.6        | 7504.0        | 7587.5        | 7633.8        | <i>7577.3</i> |
| 32.5°  | 7278.0        | 7281.8        | 7361.5        | 7424.4        | <i>7371.7</i> |
| 35°    | 7031.3        | 7048.0        | 7120.0        | 7195.8        | <i>7167.5</i> |
| 37.5°  | 6760.3        | 6797.6        | 6869.5        | 6955.6        | <i>6926.0</i> |
| 40°    | 6473.9        | 6527.8        | 6607.5        | 6711.5        | <i>6684.5</i> |
| 42.5°  | 6164.3        | 6232.4        | 6335.1        | 6450.7        | <i>6448.2</i> |
| 45°    | 5835.5        | 5930.5        | 6041.0        | 6195.1        | <i>6214.4</i> |
| 47.5°  | 5493.8        | 5600.4        | 5740.4        | 5945.9        | <i>5975.5</i> |
| 50°    | 5122.6        | 5256.2        | 5430.9        | 5677.5        | <i>5695.5</i> |
| 52.5°  | 4709.0        | 4891.4        | 5122.6        | 5358.9        | <i>5337.1</i> |
| 55°    | 4294.1        | 4500.9        | 4807.9        | 5000.5        | <i>4989.0</i> |
| 57.5°  | 3880.5        | 4113.0        | 4485.5        | 4622.9        | <i>4621.6</i> |
| 60°    | 3418.0        | 3712.2        | 4119.4        | 4223.4        | <i>4120.7</i> |
| 62.5°  | 2990.3        | 3306.3        | 3728.9        | 3653.1        | <i>3301.2</i> |
| 65°    | 2520.2        | 2914.5        | 3308.9        | 2792.5        | <i>2280.0</i> |
| 67.5°  | 2102.7        | 2513.8        | 2810.5        | 1912.6        | <i>1637.7</i> |
| 70°    | 1682.7        | 2136.1        | 2191.4        | 1419.4        | <i>1400.1</i> |
| 72.5°  | 1310.2        | 1793.2        | 1511.9        | 1215.1        | <i>1276.8</i> |
| 75°    | 991.6         | 1438.6        | 1058.4        | 1082.8        | <i>1153.5</i> |
| 77.5°  | 723.2         | 1104.7        | 823.4         | 949.2         | <i>1007.0</i> |
| 80°    | 497.1         | 782.3         | 671.8         | 797.7         | <i>837.5</i>  |
| 82.5°  | 312.1         | 516.4         | 538.2         | 642.2         | <i>683.4</i>  |
| 85°    | 170.8         | 327.5         | 420.0         | 507.4         | <i>531.8</i>  |
| 87.5°  | 70.6          | 197.8         | 321.1         | 391.8         | <i>412.3</i>  |
| 90°    | 1.3           | 109.2         | 217.1         | 272.3         | <i>285.2</i>  |
| 92.5°  | 1.3           | 83.5          | 177.3         | 219.6         | <i>228.6</i>  |
| 95°    | 1.3           | 68.1          | 149.0         | 181.1         | <i>186.3</i>  |
| 97.5°  | 2.6           | 53.9          | 124.6         | 150.3         | <i>155.4</i>  |
| 100°   | 3.9           | 45.0          | 104.0         | 125.9         | <i>129.7</i>  |
| 102.5° | 5.1           | 36.0          | 87.3          | 105.3         | <i>109.2</i>  |
| 105°   | 5.1           | 29.5          | 73.2          | 88.6          | <i>92.5</i>   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 22.5° | 45°  | 67.5° | 90°  |
|--------|------|-------|------|-------|------|
| 112.5° | 9.0  | 18.0  | 43.7 | 55.2  | 57.8 |
| 115°   | 10.3 | 15.4  | 37.3 | 47.5  | 50.1 |
| 117.5° | 10.3 | 12.8  | 32.1 | 39.8  | 42.4 |
| 120°   | 10.3 | 11.6  | 28.3 | 34.7  | 36.0 |
| 122.5° | 10.3 | 10.3  | 24.4 | 30.8  | 32.1 |
| 125°   | 9.0  | 10.3  | 23.1 | 27.0  | 28.3 |
| 127.5° | 10.3 | 10.3  | 20.6 | 24.4  | 25.7 |
| 130°   | 10.3 | 11.6  | 18.0 | 23.1  | 23.1 |
| 132.5° | 11.6 | 12.8  | 16.7 | 21.8  | 21.8 |
| 135°   | 11.6 | 12.8  | 14.1 | 20.6  | 21.8 |
| 137.5° | 12.8 | 12.8  | 12.8 | 19.3  | 20.6 |
| 140°   | 12.8 | 12.8  | 11.6 | 16.7  | 18.0 |
| 142.5° | 11.6 | 12.8  | 11.6 | 15.4  | 16.7 |
| 145°   | 11.6 | 12.8  | 12.8 | 14.1  | 15.4 |
| 147.5° | 12.8 | 12.8  | 12.8 | 12.8  | 14.1 |
| 150°   | 12.8 | 12.8  | 12.8 | 12.8  | 12.8 |
| 152.5° | 12.8 | 12.8  | 12.8 | 12.8  | 12.8 |
| 155°   | 12.8 | 14.1  | 14.1 | 14.1  | 12.8 |
| 157.5° | 12.8 | 14.1  | 14.1 | 14.1  | 14.1 |
| 160°   | 12.8 | 14.1  | 14.1 | 14.1  | 14.1 |
| 162.5° | 14.1 | 14.1  | 14.1 | 14.1  | 14.1 |
| 165°   | 14.1 | 14.1  | 14.1 | 14.1  | 14.1 |
| 167.5° | 14.1 | 15.4  | 14.1 | 14.1  | 14.1 |
| 170°   | 14.1 | 14.1  | 14.1 | 12.8  | 12.8 |
| 172.5° | 14.1 | 14.1  | 14.1 | 12.8  | 12.8 |
| 175°   | 14.1 | 14.1  | 12.8 | 11.6  | 11.6 |
| 177.5° | 15.4 | 14.1  | 12.8 | 11.6  | 10.3 |
| 180°   | 12.8 | 12.8  | 12.8 | 12.8  | 12.8 |



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







|        |     |      |      |      |      |
|--------|-----|------|------|------|------|
| 107.5° | 6.4 | 24.4 | 62.9 | 75.8 | 78.4 |
| 110°   | 7.7 | 20.6 | 52.7 | 64.2 | 66.8 |



(END OF REPORT)