

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1500535

Luminaire Tested: 3CSSV-S3C59-MB-LO-4000K

Issue Date: 7/20/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1500535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2605-767-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/20/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 3CSSV-S3C59-MB-LO-4000K  
Description: 3' Vanity SQR Lnr 90CRI-3L5C Sel Matte Blk 1800 Lumen 4000K  
  
Light Source:  
Ballast/Driver: -

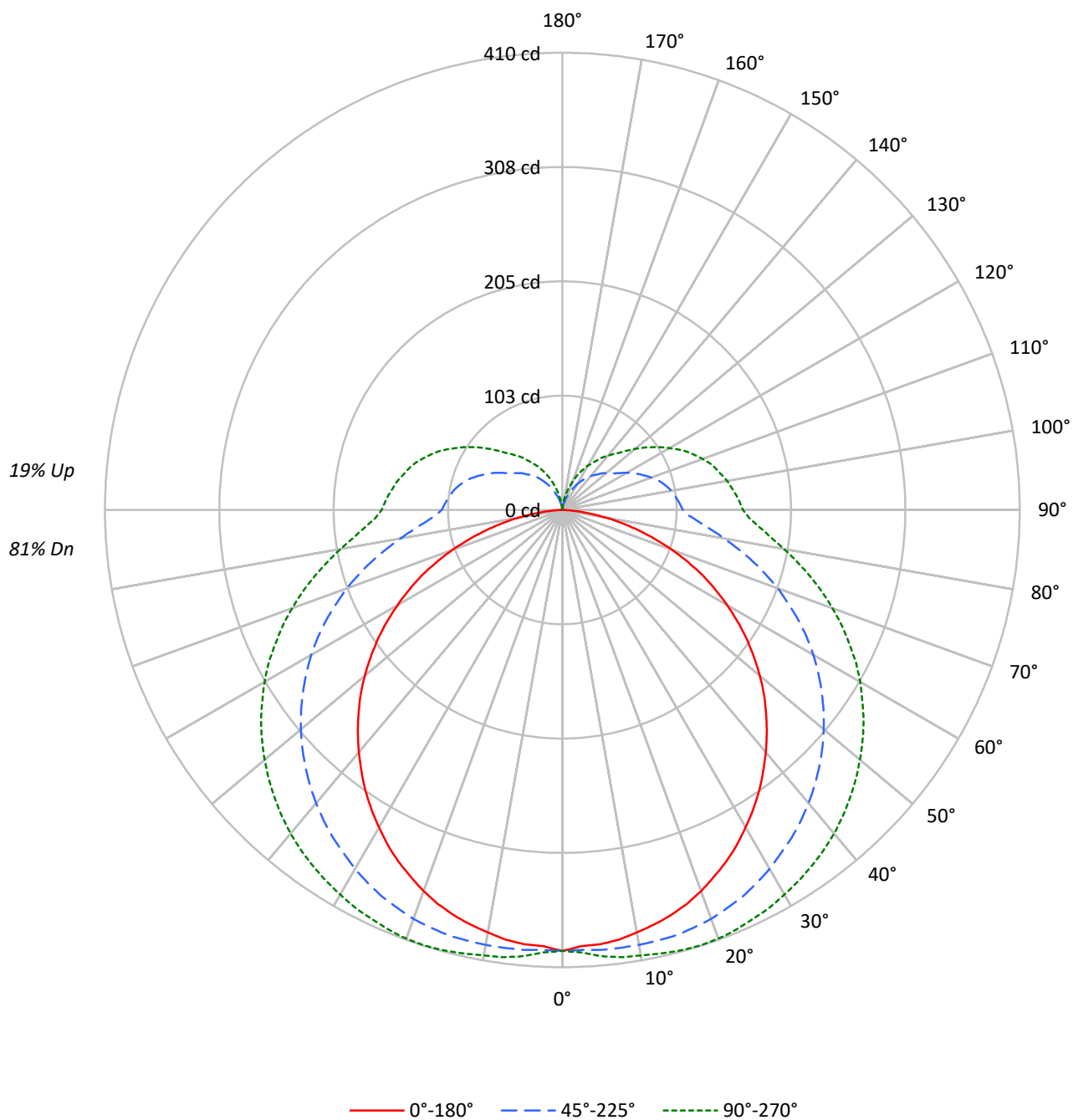
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1933.1 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.5 / 1.54  
Luminous Opening: Rectangular w/ Sides (W: 0.13' x L: 2.92' x H: 0.13')  
CIE Type: Semi-Direct  
  
Input Watts (W): 18.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: >0.9  
Total Harmonic Distortion (THDi): <20  
Frequency (hertz): 60  
Stabilization Time: HR  
Operation Time: HR  
Ambient Temperature (°C): NR  
Test Distance: 24 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 |    |  |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 0  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |  |  |   |
| 0   | 114 | 114 | 114 | 114 | 110 | 110 | 110 | 110 | 100 | 100 | 100 | 92 | 92 | 92 | 84 | 84 | 84 | 81 |  |  |   |
| 1   | 102 | 96  | 91  | 86  | 97  | 92  | 87  | 83  | 84  | 80  | 77  | 77 | 74 | 71 | 70 | 68 | 66 | 62 |  |  |   |
| 2   | 91  | 82  | 74  | 68  | 87  | 79  | 72  | 66  | 72  | 66  | 61  | 66 | 61 | 57 | 60 | 56 | 53 | 50 |  |  |   |
| 3   | 83  | 71  | 62  | 55  | 78  | 68  | 60  | 53  | 62  | 56  | 50  | 57 | 51 | 47 | 52 | 47 | 44 | 40 |  |  |   |
| 4   | 75  | 62  | 53  | 46  | 71  | 60  | 51  | 45  | 55  | 48  | 42  | 50 | 44 | 39 | 46 | 41 | 37 | 34 |  |  |   |
| 5   | 69  | 55  | 46  | 39  | 65  | 53  | 44  | 38  | 49  | 41  | 36  | 45 | 38 | 34 | 41 | 36 | 31 | 29 |  |  |   |
| 6   | 63  | 50  | 40  | 34  | 60  | 48  | 39  | 33  | 44  | 36  | 31  | 40 | 34 | 29 | 37 | 32 | 27 | 25 |  |  |   |
| 7   | 59  | 45  | 36  | 29  | 56  | 43  | 34  | 28  | 40  | 32  | 27  | 36 | 30 | 25 | 34 | 28 | 24 | 22 |  |  |   |
| 8   | 54  | 41  | 32  | 26  | 52  | 39  | 31  | 25  | 36  | 29  | 24  | 33 | 27 | 23 | 31 | 25 | 21 | 19 |  |  |   |
| 9   | 51  | 37  | 29  | 23  | 48  | 36  | 28  | 22  | 33  | 26  | 21  | 31 | 25 | 20 | 28 | 23 | 19 | 17 |  |  |   |
| 10  | 47  | 34  | 26  | 21  | 45  | 33  | 25  | 20  | 30  | 24  | 19  | 28 | 22 | 18 | 26 | 21 | 17 | 15 |  |  |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11212 | 11212 | 11212 |
| 5°  | 11084 | 10588 | 10512 |
| 10° | 10988 | 10088 | 9928  |
| 15° | 10911 | 9675  | 9469  |
| 20° | 10800 | 9282  | 9049  |
| 25° | 10660 | 8899  | 8631  |
| 30° | 10486 | 8530  | 8266  |
| 35° | 10326 | 8182  | 7934  |
| 40° | 10127 | 7845  | 7628  |
| 45° | 9917  | 7512  | 7314  |
| 50° | 9681  | 7177  | 7012  |
| 55° | 9375  | 6828  | 6713  |
| 60° | 8977  | 6469  | 6398  |
| 65° | 8501  | 6061  | 6056  |
| 70° | 7742  | 5627  | 5701  |
| 75° | 6652  | 5139  | 5325  |
| 80° | 5176  | 4636  | 4937  |
| 85° | 2803  | 4235  | 4641  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9917 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.9   | 2.0       |
| 10°-20°   | 111.6  | 5.8       |
| 20°-30°   | 175.6  | 9.1       |
| 30°-40°   | 222.3  | 11.5      |
| 40°-50°   | 247.2  | 12.8      |
| 50°-60°   | 247.2  | 12.8      |
| 60°-70°   | 222.0  | 11.5      |
| 70°-80°   | 175.3  | 9.1       |
| 80°-90°   | 123.7  | 6.4       |
| 90°-100°  | 101.5  | 5.3       |
| 100°-110° | 87.8   | 4.5       |
| 110°-120° | 68.8   | 3.6       |
| 120°-130° | 48.8   | 2.5       |
| 130°-140° | 32.1   | 1.7       |
| 140°-150° | 19.4   | 1.0       |
| 150°-160° | 9.2    | 0.5       |
| 160°-170° | 2.6    | 0.1       |
| 170°-180° | 0.2    | 0.0       |
| 0°-30°    | 325.0  | 16.8      |
| 0°-40°    | 547.3  | 28.3      |
| 0°-60°    | 1041.7 | 53.9      |
| 0°-90°    | 1562.7 | 80.8      |
| 90°-120°  | 258.1  | 13.4      |
| 90°-150°  | 358.4  | 18.5      |
| 90°-180°  | 370.0  | 19.1      |
| 0°-180°   | 1933.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 395 | 395   | 395 | 395   | 395 |      |
| 5°   | 391 | 399   | 396 | 396   | 402 | 37   |
| 15°  | 376 | 389   | 395 | 403   | 409 | 106  |
| 25°  | 348 | 367   | 382 | 396   | 404 | 160  |
| 35°  | 308 | 333   | 359 | 379   | 390 | 192  |
| 45°  | 258 | 291   | 326 | 352   | 365 | 199  |
| 55°  | 202 | 241   | 284 | 316   | 330 | 180  |
| 65°  | 139 | 183   | 233 | 270   | 284 | 137  |
| 75°  | 71  | 121   | 176 | 215   | 230 | 75   |
| 85°  | 13  | 65    | 123 | 163   | 177 | 16   |
| 90°  | 1   | 51    | 108 | 148   | 162 | 1    |
| 95°  | 0   | 48    | 104 | 143   | 156 | 0    |
| 105° | 1   | 38    | 93  | 130   | 143 | 0    |
| 115° | 1   | 30    | 76  | 110   | 124 | 1    |
| 125° | 1   | 23    | 57  | 87    | 98  | 1    |
| 135° | 1   | 18    | 45  | 65    | 72  | 0    |
| 145° | 1   | 13    | 33  | 49    | 54  | 0    |
| 155° | 1   | 7     | 20  | 32    | 37  | 0    |
| 165° | 1   | 3     | 8   | 13    | 18  | 0    |
| 175° | 1   | 1     | 2   | 2     | 1   | 0    |
| 180° | 1   | 1     | 1   | 1     | 1   |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 395.4 | 395.4 | 395.4 | 395.4 | 395.4 |
| 2.5°   | 391.4 | 399.4 | 394.8 | 395.4 | 397.1 |
| 5°     | 390.9 | 399.4 | 396.0 | 396.5 | 401.6 |
| 7.5°   | 388.6 | 397.7 | 396.0 | 398.8 | 404.5 |
| 10°    | 384.6 | 396.0 | 396.0 | 400.5 | 405.6 |
| 12.5°  | 380.7 | 392.6 | 395.4 | 401.1 | 407.3 |
| 15°    | 376.1 | 389.2 | 394.8 | 402.8 | 409.0 |
| 17.5°  | 370.5 | 385.2 | 392.6 | 402.2 | 409.6 |
| 20°    | 363.7 | 379.5 | 390.3 | 400.5 | 409.0 |
| 22.5°  | 355.7 | 373.9 | 386.3 | 398.8 | 407.3 |
| 25°    | 347.8 | 367.1 | 382.4 | 396.0 | 404.5 |
| 27.5°  | 338.7 | 359.7 | 377.3 | 392.6 | 402.2 |
| 30°    | 328.5 | 351.2 | 371.6 | 388.6 | 398.2 |
| 32.5°  | 318.4 | 342.7 | 364.8 | 384.1 | 394.3 |
| 35°    | 307.6 | 333.1 | 358.6 | 379.0 | 389.7 |
| 37.5°  | 295.7 | 323.5 | 351.2 | 373.3 | 384.6 |
| 40°    | 283.8 | 313.3 | 343.3 | 367.1 | 379.0 |
| 42.5°  | 271.3 | 301.9 | 334.8 | 359.7 | 372.2 |
| 45°    | 258.3 | 291.2 | 325.7 | 352.3 | 364.8 |
| 47.5°  | 245.3 | 279.3 | 316.1 | 343.8 | 356.9 |
| 50°    | 231.1 | 266.8 | 305.9 | 334.8 | 348.4 |
| 52.5°  | 216.4 | 254.3 | 295.1 | 325.7 | 339.3 |
| 55°    | 201.7 | 240.7 | 283.8 | 315.5 | 329.7 |
| 57.5°  | 186.4 | 226.6 | 271.9 | 304.8 | 318.9 |
| 60°    | 170.5 | 212.4 | 260.0 | 293.4 | 308.2 |
| 62.5°  | 154.6 | 198.3 | 247.0 | 281.5 | 296.8 |
| 65°    | 138.8 | 183.0 | 233.4 | 269.6 | 283.8 |
| 67.5°  | 121.8 | 168.2 | 219.2 | 256.6 | 271.3 |
| 70°    | 104.8 | 152.4 | 205.6 | 243.0 | 257.7 |
| 72.5°  | 87.8  | 136.5 | 190.9 | 229.4 | 244.1 |
| 75°    | 70.8  | 121.2 | 176.2 | 215.3 | 230.0 |
| 77.5°  | 55.5  | 105.9 | 161.4 | 201.1 | 215.8 |
| 80°    | 39.7  | 91.2  | 147.3 | 187.5 | 201.7 |
| 82.5°  | 24.9  | 77.0  | 134.3 | 174.5 | 188.6 |
| 85°    | 13.0  | 65.1  | 122.9 | 163.1 | 177.3 |
| 87.5°  | 4.0   | 56.1  | 113.3 | 153.5 | 167.7 |
| 90°    | 0.6   | 51.0  | 108.2 | 147.8 | 162.0 |
| 92.5°  | 0.0   | 49.3  | 105.9 | 145.0 | 159.2 |
| 95°    | 0.0   | 48.1  | 103.7 | 142.7 | 156.3 |
| 97.5°  | 0.0   | 46.5  | 101.4 | 139.9 | 152.9 |
| 100°   | 0.0   | 44.2  | 99.1  | 136.5 | 150.1 |
| 102.5° | 0.0   | 41.4  | 96.3  | 133.1 | 146.1 |
| 105°   | 0.6   | 38.5  | 92.9  | 129.7 | 142.7 |
| 107.5° | 0.6   | 35.1  | 89.5  | 125.8 | 138.8 |
| 110°   | 0.6   | 32.3  | 85.0  | 120.7 | 133.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°   |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.6 | 30.6  | 80.4 | 115.6 | 128.6 |
| 115°   | 0.6 | 29.5  | 75.9 | 110.5 | 123.5 |
| 117.5° | 0.6 | 27.8  | 71.4 | 104.8 | 117.3 |
| 120°   | 0.6 | 26.1  | 66.8 | 98.6  | 111.0 |
| 122.5° | 0.6 | 23.8  | 61.7 | 92.9  | 104.8 |
| 125°   | 0.6 | 22.7  | 57.2 | 86.7  | 98.0  |
| 127.5° | 0.6 | 21.5  | 54.4 | 80.4  | 91.8  |
| 130°   | 0.6 | 20.4  | 51.5 | 74.2  | 85.0  |
| 132.5° | 0.6 | 19.3  | 48.7 | 68.5  | 78.7  |
| 135°   | 0.6 | 18.1  | 45.3 | 64.6  | 72.5  |
| 137.5° | 0.6 | 17.0  | 42.5 | 60.6  | 68.0  |
| 140°   | 0.6 | 15.9  | 39.7 | 56.6  | 63.4  |
| 142.5° | 0.6 | 14.7  | 36.8 | 52.7  | 59.5  |
| 145°   | 0.6 | 13.0  | 33.4 | 48.7  | 54.4  |
| 147.5° | 0.6 | 11.3  | 30.0 | 44.8  | 49.8  |
| 150°   | 0.6 | 10.2  | 26.6 | 40.8  | 45.9  |
| 152.5° | 1.1 | 9.1   | 23.2 | 36.8  | 41.4  |
| 155°   | 1.1 | 7.4   | 19.8 | 31.7  | 36.8  |
| 157.5° | 1.1 | 6.2   | 16.4 | 26.6  | 32.3  |
| 160°   | 1.1 | 5.1   | 13.6 | 21.5  | 27.2  |
| 162.5° | 1.1 | 4.0   | 10.8 | 17.0  | 22.7  |
| 165°   | 1.1 | 3.4   | 7.9  | 13.0  | 18.1  |
| 167.5° | 1.1 | 2.8   | 6.2  | 9.1   | 14.2  |
| 170°   | 1.1 | 2.3   | 4.5  | 6.2   | 9.6   |
| 172.5° | 1.1 | 1.7   | 2.8  | 4.0   | 2.8   |
| 175°   | 1.1 | 1.1   | 1.7  | 1.7   | 1.1   |
| 177.5° | 1.1 | 1.1   | 1.1  | 0.6   | 0.6   |
| 180°   | 0.6 | 0.6   | 0.6  | 0.6   | 0.6   |

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**CIE UGR TABLE:**

| Reflectances:   |      |                  |      |      |      |      |                |      |      |      |      |
|-----------------|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Ceiling         |      | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  |
| Wall            |      | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  |
| Reference plane |      | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2            | 0.2  | 0.2  | 0.2  | 0.2  |
| Room Dimensions |      | Viewed crosswise |      |      |      |      | Viewed endwise |      |      |      |      |
| X=2H            | Y=2H | 15.4             | 16.8 | 16.1 | 17.4 | 18.2 | 19.4           | 20.8 | 20.1 | 21.5 | 22.2 |
|                 | 3H   | 16.8             | 18.0 | 17.4 | 18.7 | 19.5 | 22.2           | 23.5 | 22.9 | 24.1 | 24.9 |
|                 | 4H   | 17.2             | 18.4 | 17.9 | 19.1 | 19.8 | 23.6           | 24.8 | 24.2 | 25.4 | 26.2 |
|                 | 6H   | 17.4             | 18.5 | 18.1 | 19.2 | 20.0 | 25.0           | 26.1 | 25.7 | 26.8 | 27.6 |
|                 | 8H   | 17.5             | 18.5 | 18.1 | 19.2 | 20.0 | 25.7           | 26.8 | 26.4 | 27.5 | 28.3 |
|                 | 12H  | 17.5             | 18.5 | 18.1 | 19.2 | 20.0 | 26.5           | 27.5 | 27.2 | 28.2 | 29.1 |
| 4H              | 2H   | 16.7             | 17.9 | 17.3 | 18.5 | 19.3 | 19.8           | 20.9 | 20.4 | 21.6 | 22.4 |
|                 | 3H   | 18.3             | 19.3 | 19.0 | 20.0 | 20.8 | 22.7           | 23.7 | 23.4 | 24.4 | 25.2 |
|                 | 4H   | 18.9             | 19.8 | 19.6 | 20.5 | 21.3 | 24.2           | 25.2 | 24.9 | 25.9 | 26.7 |
|                 | 6H   | 19.2             | 20.0 | 19.9 | 20.8 | 21.6 | 25.8           | 26.6 | 26.5 | 27.4 | 28.2 |
|                 | 8H   | 19.3             | 20.1 | 20.0 | 20.8 | 21.7 | 26.6           | 27.4 | 27.3 | 28.1 | 29.0 |
|                 | 12H  | 19.3             | 20.0 | 20.0 | 20.8 | 21.6 | 27.5           | 28.2 | 28.3 | 29.0 | 29.9 |
| 8H              | 4H   | 19.8             | 20.6 | 20.5 | 21.3 | 22.2 | 24.4           | 25.1 | 25.1 | 25.9 | 26.7 |
|                 | 6H   | 20.4             | 21.0 | 21.1 | 21.8 | 22.7 | 26.1           | 26.7 | 26.8 | 27.5 | 28.4 |
|                 | 8H   | 20.6             | 21.2 | 21.3 | 21.9 | 22.8 | 27.0           | 27.6 | 27.8 | 28.4 | 29.3 |
|                 | 12H  | 20.7             | 21.2 | 21.4 | 22.0 | 22.9 | 28.1           | 28.6 | 28.8 | 29.4 | 30.3 |
| 12H             | 4H   | 20.1             | 20.8 | 20.8 | 21.6 | 22.4 | 24.3           | 25.1 | 25.1 | 25.8 | 26.7 |
|                 | 6H   | 20.8             | 21.4 | 21.6 | 22.1 | 23.1 | 26.1           | 26.7 | 26.9 | 27.4 | 28.4 |
|                 | 8H   | 21.1             | 21.6 | 21.8 | 22.4 | 23.3 | 27.1           | 27.6 | 27.8 | 28.4 | 29.3 |















(END OF REPORT)