

長崎の光線状態(平成20年)

方向:真南が0度、真西がプラス90度、真東がマイナス90度  
高さ:水平が0度、真上が90度

影長:高さ1mの垂直棒の影の長さ(m)  
X:太陽が極めて低い、または日没状態

平成20年4月  
電鉄倶楽部大阪

|       | 1月上旬 |    |      | 1月下旬 |    |     | 2月上旬 |    |      | 2月下旬 |    |     | 3月上旬 |    |      | 3月下旬 |    |     | 4月上旬 |    |     | 4月下旬 |    |     | 5月上旬 |    |     | 5月下旬 |    |     | 6月上旬 |    |     | 6月下旬  |       |     |       |    |
|-------|------|----|------|------|----|-----|------|----|------|------|----|-----|------|----|------|------|----|-----|------|----|-----|------|----|-----|------|----|-----|------|----|-----|------|----|-----|-------|-------|-----|-------|----|
|       | 方向   | 高さ | 影長   | 方向   | 高さ | 影長  | 方向   | 高さ | 影長   | 方向   | 高さ | 影長  | 方向   | 高さ | 影長   | 方向   | 高さ | 影長  | 方向   | 高さ | 影長  | 方向   | 高さ | 影長  | 方向   | 高さ | 影長  | 方向   | 高さ | 影長  | 方向   | 高さ | 影長  | 方向    | 高さ    | 影長  |       | 方向 |
| 5:00  | X    | X  | X    | X    | X  | X   | X    | X  | X    | X    | X  | X   | X    | X  | X    | X    | X  | X   | X    | X  | X   | X    | X  | X   | X    | X  | X   | X    | X  | X   | X    | X  | X   | 5:00  |       |     |       |    |
| 5:30  | X    | X  | X    | X    | X  | X   | X    | X  | X    | X    | X  | X   | X    | X  | X    | X    | X  | X   | X    | X  | X   | X    | X  | X   | X    | X  | X   | X    | X  | X   | X    | X  | X   | 5:30  |       |     |       |    |
| 6:00  | X    | X  | X    | X    | X  | X   | X    | X  | X    | X    | X  | X   | X    | X  | X    | X    | X  | X   | X    | X  | X   | X    | X  | X   | X    | X  | X   | X    | X  | X   | X    | X  | X   | 6:00  |       |     |       |    |
| 6:30  | X    | X  | X    | X    | X  | X   | X    | X  | X    | X    | X  | X   | X    | X  | X    | X    | X  | X   | X    | X  | X   | X    | X  | X   | X    | X  | X   | X    | X  | X   | X    | X  | X   | 6:30  |       |     |       |    |
| 7:00  | X    | X  | X    | X    | X  | X   | X    | X  | X    | X    | X  | X   | X    | X  | X    | X    | X  | X   | X    | X  | X   | X    | X  | X   | X    | X  | X   | X    | X  | X   | X    | X  | X   | 7:00  |       |     |       |    |
| 7:30  | X    | X  | X    | X    | X  | X   | -69  | 3  | 19.1 | -74  | 6  | 9.4 | -78  | 9  | 6.0  | -82  | 14 | 4.1 | -87  | 18 | 3.1 | -91  | 22 | 2.5 | -95  | 24 | 2.2 | -99  | 26 | 2.1 | -101 | 26 | 2.0 | 7:30  |       |     |       |    |
| 8:00  | -59  | 6  | 9.5  | -62  | 7  | 8.5 | -65  | 9  | 6.5  | -70  | 12 | 4.7 | -73  | 16 | 3.6  | -78  | 20 | 2.7 | -82  | 24 | 2.2 | -87  | 28 | 1.9 | -91  | 30 | 1.7 | -95  | 32 | 1.6 | -98  | 33 | 1.6 | 8:00  |       |     |       |    |
| 8:30  | -54  | 11 | 5.1  | -57  | 12 | 4.7 | -61  | 14 | 3.9  | -65  | 18 | 3.1 | -68  | 21 | 2.6  | -73  | 26 | 2.0 | -78  | 30 | 1.7 | -83  | 34 | 1.5 | -87  | 37 | 1.3 | -91  | 38 | 1.3 | -94  | 39 | 1.2 | 8:30  |       |     |       |    |
| 9:00  | -49  | 16 | 3.5  | -52  | 17 | 3.2 | -55  | 20 | 2.8  | -60  | 23 | 2.3 | -63  | 27 | 1.9  | -68  | 32 | 1.6 | -73  | 37 | 1.4 | -78  | 41 | 1.2 | -83  | 43 | 1.1 | -87  | 45 | 1.0 | -92  | 45 | 1.0 | 9:00  |       |     |       |    |
| 9:30  | -43  | 21 | 2.7  | -46  | 22 | 2.5 | -50  | 25 | 2.2  | -54  | 29 | 1.8 | -57  | 33 | 1.6  | -62  | 38 | 1.3 | -67  | 42 | 1.1 | -72  | 47 | 0.9 | -77  | 49 | 0.9 | -83  | 51 | 0.8 | -86  | 52 | 0.8 | 9:30  |       |     |       |    |
| 10:00 | -37  | 25 | 2.2  | -40  | 26 | 2.0 | -44  | 29 | 1.8  | -47  | 34 | 1.5 | -51  | 38 | 1.3  | -55  | 43 | 1.1 | -60  | 48 | 0.9 | -66  | 52 | 0.8 | -71  | 55 | 0.7 | -77  | 57 | 0.6 | -81  | 58 | 0.6 | 10:00 |       |     |       |    |
| 10:30 | -31  | 28 | 1.9  | -34  | 30 | 1.7 | -37  | 33 | 1.5  | -40  | 38 | 1.3 | -43  | 42 | 1.1  | -47  | 48 | 0.9 | -52  | 53 | 0.7 | -57  | 58 | 0.6 | -63  | 61 | 0.6 | -70  | 63 | 0.5 | -75  | 64 | 0.5 | 10:30 |       |     |       |    |
| 11:00 | -23  | 31 | 1.7  | -26  | 33 | 1.5 | -29  | 37 | 1.3  | -32  | 42 | 1.1 | -34  | 46 | 1.0  | -37  | 52 | 0.8 | -41  | 58 | 0.6 | -46  | 63 | 0.5 | -52  | 67 | 0.4 | -60  | 69 | 0.4 | -65  | 70 | 0.4 | 11:00 |       |     |       |    |
| 11:30 | -16  | 33 | 1.5  | -18  | 36 | 1.4 | -20  | 39 | 1.2  | -22  | 45 | 1.0 | -24  | 49 | 0.9  | -26  | 56 | 0.7 | -28  | 61 | 0.5 | -32  | 67 | 0.4 | -37  | 71 | 0.3 | -44  | 74 | 0.3 | -51  | 75 | 0.3 | 11:30 |       |     |       |    |
| 12:00 | -7   | 35 | 1.5  | -10  | 37 | 1.3 | -11  | 41 | 1.2  | -12  | 46 | 1.0 | -13  | 51 | 0.8  | -13  | 58 | 0.6 | -13  | 64 | 0.5 | -13  | 69 | 0.4 | -15  | 74 | 0.3 | -19  | 77 | 0.2 | -25  | 79 | 0.2 | 12:00 |       |     |       |    |
| 12:30 | 1    | 35 | 1.4  | -1   | 38 | 1.3 | -2   | 42 | 1.1  | -2   | 47 | 0.9 | -1   | 52 | 0.8  | 1    | 58 | 0.6 | 4    | 64 | 0.5 | 8    | 70 | 0.4 | 11   | 74 | 0.3 | 14   | 78 | 0.2 | 14   | 80 | 0.2 | 12:30 |       |     |       |    |
| 13:00 | 9    | 34 | 1.5  | 8    | 37 | 1.3 | 8    | 41 | 1.1  | 9    | 47 | 0.9 | 11   | 52 | 0.8  | 15   | 58 | 0.6 | 21   | 63 | 0.5 | 28   | 68 | 0.4 | 34   | 71 | 0.3 | 41   | 75 | 0.3 | 45   | 77 | 0.2 | 13:00 |       |     |       |    |
| 13:30 | 18   | 33 | 1.6  | 17   | 36 | 1.4 | 18   | 40 | 1.2  | 20   | 45 | 1.0 | 23   | 50 | 0.8  | 28   | 55 | 0.7 | 35   | 60 | 0.6 | 43   | 64 | 0.5 | 51   | 67 | 0.4 | 58   | 70 | 0.4 | 62   | 72 | 0.3 | 13:30 |       |     |       |    |
| 14:00 | 25   | 31 | 1.7  | 25   | 34 | 1.5 | 26   | 38 | 1.3  | 29   | 43 | 1.1 | 33   | 47 | 0.9  | 39   | 52 | 0.8 | 47   | 56 | 0.7 | 55   | 59 | 0.6 | 62   | 62 | 0.5 | 69   | 64 | 0.5 | 72   | 66 | 0.5 | 14:00 |       |     |       |    |
| 14:30 | 32   | 28 | 1.9  | 33   | 31 | 1.7 | 34   | 35 | 1.5  | 38   | 39 | 1.2 | 42   | 43 | 1.1  | 49   | 47 | 0.9 | 56   | 51 | 0.8 | 64   | 54 | 0.7 | 70   | 56 | 0.7 | 76   | 58 | 0.6 | 79   | 60 | 0.6 | 14:30 |       |     |       |    |
| 15:00 | 39   | 24 | 2.3  | 39   | 27 | 2.0 | 42   | 31 | 1.7  | 46   | 35 | 1.4 | 50   | 38 | 1.3  | 57   | 42 | 1.1 | 64   | 45 | 1.0 | 71   | 48 | 0.9 | 77   | 50 | 0.8 | 82   | 52 | 0.8 | 85   | 53 | 0.7 | 15:00 |       |     |       |    |
| 15:30 | 45   | 20 | 2.8  | 46   | 23 | 2.4 | 48   | 26 | 2.0  | 52   | 30 | 1.7 | 57   | 33 | 1.5  | 63   | 37 | 1.3 | 70   | 40 | 1.2 | 77   | 42 | 1.1 | 82   | 44 | 1.0 | 87   | 46 | 1.0 | 89   | 47 | 0.9 | 15:30 |       |     |       |    |
| 16:00 | 50   | 15 | 3.7  | 51   | 18 | 3.1 | 54   | 21 | 2.6  | 58   | 25 | 2.1 | 63   | 28 | 1.9  | 69   | 31 | 1.7 | 75   | 34 | 1.5 | 82   | 36 | 1.4 | 87   | 38 | 1.3 | 91   | 39 | 1.2 | 93   | 41 | 1.2 | 16:00 |       |     |       |    |
| 16:30 | 55   | 10 | 5.7  | 56   | 13 | 4.4 | 59   | 16 | 3.5  | 64   | 20 | 2.8 | 68   | 22 | 2.5  | 74   | 25 | 2.1 | 80   | 27 | 1.9 | 86   | 30 | 1.8 | 91   | 31 | 1.6 | 95   | 33 | 1.5 | 97   | 35 | 1.4 | 16:30 |       |     |       |    |
| 17:00 | 60   | 5  | 11.9 | 61   | 8  | 7.6 | 64   | 11 | 5.4  | 68   | 14 | 4.1 | 73   | 16 | 3.4  | 79   | 19 | 2.9 | 85   | 21 | 2.6 | 90   | 23 | 2.3 | 95   | 25 | 2.1 | 98   | 27 | 2.0 | 100  | 28 | 1.9 | 17:00 |       |     |       |    |
| 17:30 | X    | X  | X    | X    | X  | X   | 68   | 5  | 11.9 | 73   | 8  | 7.3 | 77   | 10 | 5.6  | 83   | 13 | 4.4 | 89   | 15 | 3.8 | 94   | 17 | 3.3 | 99   | 19 | 2.9 | 102  | 21 | 2.6 | 104  | 22 | 2.5 | 104   | 23    | 2.3 | 17:30 |    |
| 18:00 | X    | X  | X    | X    | X  | X   | X    | X  | X    | X    | X  | X   | 82   | 4  | 14.3 | 87   | 7  | 8.8 | 93   | 9  | 6.6 | 98   | 11 | 5.2 | 102  | 13 | 4.5 | 106  | 15 | 3.8 | 107  | 16 | 3.5 | 107   | 17    | 3.3 | 18:00 |    |
| 18:30 | X    | X  | X    | X    | X  | X   | X    | X  | X    | X    | X  | X   | X    | X  | X    | X    | X  | X   | X    | X  | X   | X    | X  | X   | X    | X  | X   | X    | X  | X   | X    | X  | X   | X     | 18:30 |     |       |    |

|       | 7月上旬 |    |     | 7月下旬 |    |      | 8月上旬 |    |      | 8月下旬 |    |     | 9月上旬 |    |     | 9月下旬 |    |      | 10月上旬 |    |     | 10月下旬 |    |      | 11月上旬 |    |     | 11月下旬 |    |      | 12月上旬 |    |      | 12月下旬 |      |    |  |    |
|-------|------|----|-----|------|----|------|------|----|------|------|----|-----|------|----|-----|------|----|------|-------|----|-----|-------|----|------|-------|----|-----|-------|----|------|-------|----|------|-------|------|----|--|----|
|       | 方向   | 高さ | 影長  | 方向   | 高さ | 影長   | 方向   | 高さ | 影長   | 方向   | 高さ | 影長  | 方向   | 高さ | 影長  | 方向   | 高さ | 影長   | 方向    | 高さ | 影長  | 方向    | 高さ | 影長   | 方向    | 高さ | 影長  | 方向    | 高さ | 影長   | 方向    | 高さ | 影長   | 方向    | 高さ   | 影長 |  | 方向 |
| 5:00  | X    | X  | X   | X    | X  | X    | X    | X  | X    | X    | X  | X   | X    | X  | X   | X    | X  | X    | X     | X  | X   | X     | X  | X    | X     | X  | X   | X     | X  | X    | X     | X  | X    | 5:00  |      |    |  |    |
| 5:30  | X    | X  | X   | X    | X  | X    | X    | X  | X    | X    | X  | X   | X    | X  | X   | X    | X  | X    | X     | X  | X   | X     | X  | X    | X     | X  | X   | X     | X  | X    | X     | X  | X    | X     | 5:30 |    |  |    |
| 6:00  | -112 | 7  | 8.0 | -111 | 6  | 10.4 | -107 | 4  | 15.5 | X    | X  | X   | X    | X  | X   | X    | X  | X    | X     | X  | X   | X     | X  | X    | X     | X  | X   | X     | X  | X    | X     | X  | X    | 6:00  |      |    |  |    |
| 6:30  | -109 | 13 | 4.3 | -107 | 11 | 5.0  | -103 | 10 | 5.9  | -99  | 8  | 7.4 | -94  | 6  | 9.8 | -88  | 4  | 15.5 | X     | X  | X   | X     | X  | X    | X     | X  | X   | X     | X  | X    | X     | X  | X    | 6:30  |      |    |  |    |
| 7:00  | -105 | 19 | 2.9 | -103 | 17 | 3.2  | -100 | 16 | 3.5  | -95  | 14 | 4.0 | -90  | 12 | 4.7 | -84  | 10 | 5.7  | -78   | 8  | 7.2 | -73   | 5  | 10.8 | X     | X  | X   | X     | X  | X    | X     | X  | 7:00 |       |      |    |  |    |
| 7:30  | -102 | 25 | 2.1 | -99  | 24 | 2.3  | -96  | 22 | 2.5  | -91  | 20 | 2.7 | -85  | 18 | 3.0 | -79  | 16 | 3.5  | -74   | 14 | 4.0 | -69   | 11 | 5.1  | -65   | 8  | 6.9 | -61   | 3  | 17.9 | X     | X  | 7:30 |       |      |    |  |    |
| 8:00  | -98  | 31 | 1.6 | -96  | 30 | 1.7  | -92  | 28 | 1.9  | -87  | 27 | 2.0 | -81  | 25 | 2.2 | -75  | 22 | 2.5  | -69   | 20 | 2.8 | -64   | 17 | 3.3  | -60   | 14 | 4.0 | -57   | 11 | 5.2  | -56   | 8  | 6.8  | 8:00  |      |    |  |    |
| 8:30  | -95  | 38 | 1.3 | -92  | 36 | 1.4  | -88  | 35 | 1.4  | -82  | 33 | 1.6 | -76  | 31 | 1.7 | -70  | 28 | 1.9  | -64   | 26 | 2.1 | -59   | 22 | 2.4  | -55   | 19 | 2.9 | -52   | 16 | 3.5  | -51   | 14 | 4.2  | 8:30  |      |    |  |    |
| 9:00  | -91  | 44 | 1.0 | -88  | 42 | 1.1  | -84  | 41 | 1.2  | -77  | 39 | 1.2 | -71  | 37 | 1.3 | -64  | 34 | 1.5  | -58   | 31 | 1.7 | -53   | 28 | 1.9  | -49   | 24 | 2.2 | -47   | 21 | 2.6  | -46   | 18 | 3.0  | 9:00  |      |    |  |    |
| 9:30  | -87  | 50 | 0.8 | -83  | 49 | 0.9  | -79  | 47 | 0.9  | -72  | 45 | 1.0 | -65  | 43 | 1.1 | -58  | 40 | 1.2  | -52   | 36 | 1.4 | -47   | 32 | 1.6  | -43   | 29 | 1.8 | -41   | 25 | 2.1  | -40   | 23 | 2.4  | 9:30  |      |    |  |    |
| 10:00 | -82  | 56 | 0.7 | -78  | 55 | 0.7  | -73  | 53 | 0.7  | -65  | 51 | 0.8 | -58  | 48 | 0.9 | -50  | 45 | 1.0  | -45   | 41 | 1.1 | -39   | 37 | 1.3  | -36   | 33 | 1.6 | -34   | 29 | 1.8  | -34   | 26 | 2.0  | 10:00 |      |    |  |    |
| 10:30 | -76  | 63 | 0.5 | -71  | 61 | 0.6  | -65  | 59 | 0.6  | -57  | 56 | 0.7 | -49  | 53 | 0.7 | -42  | 49 | 0.9  | -36   | 45 | 1.0 | -31   | 40 | 1.2  | -28   | 36 | 1.4 | -27   | 32 | 1.6  | -27   | 30 | 1.8  | 10:30 |      |    |  |    |
| 11:00 | -67  | 69 | 0.4 | -62  | 67 | 0.4  | -55  | 65 | 0.5  | -47  | 61 | 0.5 | -39  | 58 | 0.6 | -31  | 53 | 0.8  | -26   | 48 | 0.9 | -22   | 43 | 1.1  | -20   | 39 | 1.3 | -19   | 35 | 1.5  | -20   | 32 | 1.6  | 11:00 |      |    |  |    |
| 11:30 | -54  | 74 | 0.3 | -49  | 72 | 0.3  | -41  | 69 | 0.4  | -33  | 65 | 0.5 | -26  | 61 | 0.6 | -19  | 56 | 0.7  | -15   | 51 | 0.8 | -12   | 45 | 1.0  | -11   | 40 | 1.2 | -11   | 36 | 1.4  | -12   | 34 | 1.5  | 11:30 |      |    |  |    |
| 12:00 | -31  | 78 | 0.2 | -27  | 76 | 0.3  | -22  | 73 | 0.3  | -15  | 68 | 0.4 | -10  | 63 | 0.5 | -6   | 57 | 0.7  | -3    | 52 | 0.8 | -2    | 46 | 1.0  | -1    | 41 | 1.2 | -2    | 37 | 1.3  | -3    | 35 | 1.4  | 12:00 |      |    |  |    |
| 12:30 | 6    | 80 | 0.2 | 3    | 77 | 0.2  | 3    | 74 | 0.3  | 5    | 69 | 0.4 | 6    | 63 | 0.5 | 8    | 57 | 0.7  | 9     | 51 | 0.8 | 9     | 45 | 1.0  | 8     | 41 | 1.2 | 7     | 37 | 1.3  | 5     | 35 | 1.5  | 12:30 |      |    |  |    |
| 13:00 | 39   | 77 | 0.2 | 32   | 75 | 0.3  | 27   | 72 | 0.3  | 24   | 67 | 0.4 | 22   | 62 | 0.5 | 21   | 55 | 0.7  | 20    | 50 | 0.8 | 19    | 44 | 1.0  | 17    | 39 | 1.2 | 15    | 35 | 1.4  | 13    | 34 | 1.5  | 13:00 |      |    |  |    |