



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:

LumCAT: 1-1379-L

Luminaire: 92.70.427.00

Report No: 20231120-B012

Ballast type: AC

Test No: 20231120-C012

Voltage(V): 36.530

LampCAT: P2121-018-1203-P3090-1

Current(A): 0.399

Lamp flux(lm): 2085.4

Power (W): 14.575

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1905.10, Efficiency(%): 91.36% , Luminous Efficacy(lm/W): 130.71

Central intensity(cd): 4562.797, Maximum intensity(cd): 4562.797

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=36.4

[C90/270]Total=36.4

Field angle(10%Imax): [C0/180]Total=59.8

[C90/270]Total=59.8

Maximum s/h(1/2): C0_180=0.60 C90_270=0.60

Maximum s/h(1/4): C0_180=0.58 C90_270=0.58

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.36%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.089%

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 4562.797 | 0.000 | 0 | 0.00% | 0.00% |
| 1.0 | 4560.168 | 4.365 | 4.365 | 0.21% | 0.23% |
| 2.0 | 4557.815 | 13.087 | 17.452 | 0.63% | 0.92% |
| 3.0 | 4549.374 | 21.781 | 39.234 | 1.04% | 2.06% |
| 4.0 | 4522.528 | 30.367 | 69.6 | 1.46% | 3.65% |
| 5.0 | 4468.765 | 38.680 | 108.28 | 1.85% | 5.68% |
| 6.0 | 4399.850 | 46.607 | 154.887 | 2.23% | 8.13% |
| 7.0 | 4317.166 | 54.106 | 208.993 | 2.59% | 10.97% |
| 8.0 | 4199.608 | 60.953 | 269.946 | 2.92% | 14.17% |
| 9.0 | 4078.522 | 67.090 | 337.036 | 3.22% | 17.69% |
| 10.0 | 3933.773 | 72.508 | 409.544 | 3.48% | 21.50% |
| 11.0 | 3773.870 | 77.015 | 486.56 | 3.69% | 25.54% |
| 12.0 | 3602.274 | 80.632 | 567.191 | 3.87% | 29.77% |
| 13.0 | 3402.101 | 83.124 | 650.316 | 3.99% | 34.14% |
| 14.0 | 3197.916 | 84.480 | 734.795 | 4.05% | 38.57% |
| 15.0 | 2996.498 | 85.040 | 819.835 | 4.08% | 43.03% |
| 16.0 | 2771.140 | 84.512 | 904.347 | 4.05% | 47.47% |
| 17.0 | 2560.035 | 83.021 | 987.368 | 3.98% | 51.83% |
| 18.0 | 2319.247 | 80.449 | 1067.817 | 3.86% | 56.05% |
| 19.0 | 2122.811 | 77.283 | 1145.099 | 3.71% | 60.11% |
| 20.0 | 1908.938 | 73.792 | 1218.891 | 3.54% | 63.98% |
| 21.0 | 1718.176 | 69.648 | 1288.539 | 3.34% | 67.64% |
| 22.0 | 1474.890 | 64.166 | 1352.705 | 3.08% | 71.00% |
| 23.0 | 1282.204 | 57.851 | 1410.557 | 2.77% | 74.04% |
| 24.0 | 1192.123 | 54.098 | 1464.654 | 2.59% | 76.88% |
| 25.0 | 1047.415 | 50.922 | 1515.576 | 2.44% | 79.55% |
| 26.0 | 904.360 | 46.072 | 1561.648 | 2.21% | 81.97% |
| 27.0 | 769.865 | 40.960 | 1602.609 | 1.96% | 84.12% |
| 28.0 | 655.276 | 36.082 | 1638.69 | 1.73% | 86.02% |
| 29.0 | 546.575 | 31.444 | 1670.134 | 1.51% | 87.67% |
| 30.0 | 450.454 | 26.920 | 1697.054 | 1.29% | 89.08% |
| 31.0 | 366.932 | 22.747 | 1719.8 | 1.09% | 90.27% |
| 32.0 | 291.859 | 18.874 | 1738.674 | 0.91% | 91.26% |
| 33.0 | 244.054 | 15.788 | 1754.462 | 0.76% | 92.09% |
| 34.0 | 200.553 | 13.455 | 1767.917 | 0.65% | 92.80% |
| 35.0 | 152.188 | 10.955 | 1778.872 | 0.53% | 93.37% |
| 36.0 | 127.244 | 8.897 | 1787.769 | 0.43% | 93.84% |
| 37.0 | 109.794 | 7.731 | 1795.5 | 0.37% | 94.25% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 96.038 | 6.870 | 1802.37 | 0.33% | 94.61% |
| 39.0 | 85.009 | 6.180 | 1808.55 | 0.30% | 94.93% |
| 40.0 | 75.232 | 5.589 | 1814.139 | 0.27% | 95.23% |
| 41.0 | 66.604 | 5.051 | 1819.189 | 0.24% | 95.49% |
| 42.0 | 59.505 | 4.582 | 1823.771 | 0.22% | 95.73% |
| 43.0 | 53.202 | 4.175 | 1827.946 | 0.20% | 95.95% |
| 44.0 | 47.867 | 3.815 | 1831.761 | 0.18% | 96.15% |
| 45.0 | 43.390 | 3.507 | 1835.268 | 0.17% | 96.33% |
| 46.0 | 39.280 | 3.233 | 1838.501 | 0.16% | 96.50% |
| 47.0 | 35.786 | 2.986 | 1841.487 | 0.14% | 96.66% |
| 48.0 | 33.074 | 2.784 | 1844.27 | 0.13% | 96.81% |
| 49.0 | 30.472 | 2.610 | 1846.88 | 0.13% | 96.94% |
| 50.0 | 28.362 | 2.453 | 1849.333 | 0.12% | 97.07% |
| 51.0 | 26.487 | 2.321 | 1851.653 | 0.11% | 97.19% |
| 52.0 | 24.875 | 2.204 | 1853.857 | 0.11% | 97.31% |
| 53.0 | 23.574 | 2.107 | 1855.965 | 0.10% | 97.42% |
| 54.0 | 22.224 | 2.019 | 1857.983 | 0.10% | 97.53% |
| 55.0 | 21.124 | 1.935 | 1859.918 | 0.09% | 97.63% |
| 56.0 | 20.163 | 1.866 | 1861.784 | 0.09% | 97.73% |
| 57.0 | 19.360 | 1.807 | 1863.591 | 0.09% | 97.82% |
| 58.0 | 18.530 | 1.752 | 1865.343 | 0.08% | 97.91% |
| 59.0 | 17.817 | 1.699 | 1867.043 | 0.08% | 98.00% |
| 60.0 | 17.201 | 1.654 | 1868.697 | 0.08% | 98.09% |
| 61.0 | 16.585 | 1.612 | 1870.309 | 0.08% | 98.17% |
| 62.0 | 16.053 | 1.573 | 1871.882 | 0.08% | 98.26% |
| 63.0 | 15.506 | 1.535 | 1873.417 | 0.07% | 98.34% |
| 64.0 | 15.035 | 1.499 | 1874.915 | 0.07% | 98.42% |
| 65.0 | 14.586 | 1.466 | 1876.381 | 0.07% | 98.49% |
| 66.0 | 14.177 | 1.435 | 1877.816 | 0.07% | 98.57% |
| 67.0 | 13.804 | 1.407 | 1879.223 | 0.07% | 98.64% |
| 68.0 | 13.409 | 1.379 | 1880.602 | 0.07% | 98.71% |
| 69.0 | 13.084 | 1.352 | 1881.954 | 0.06% | 98.79% |
| 70.0 | 12.759 | 1.327 | 1883.281 | 0.06% | 98.85% |
| 71.0 | 12.441 | 1.302 | 1884.583 | 0.06% | 98.92% |
| 72.0 | 12.129 | 1.278 | 1885.861 | 0.06% | 98.99% |
| 73.0 | 11.832 | 1.253 | 1887.114 | 0.06% | 99.06% |
| 74.0 | 11.562 | 1.230 | 1888.344 | 0.06% | 99.12% |
| 75.0 | 11.237 | 1.205 | 1889.548 | 0.06% | 99.18% |

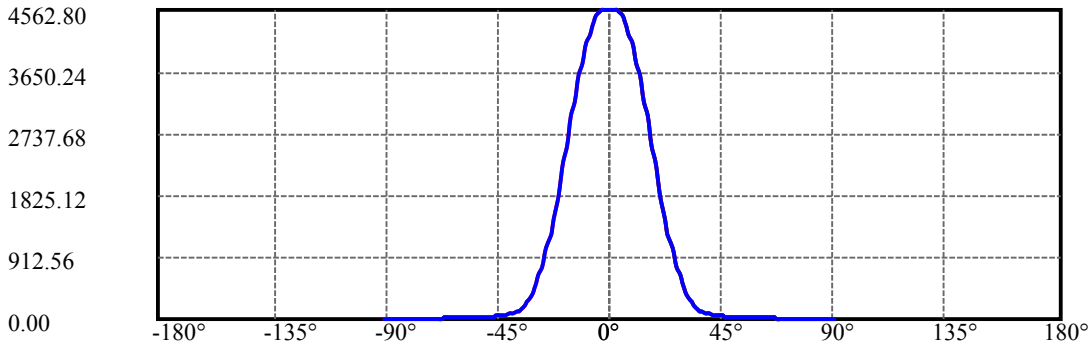
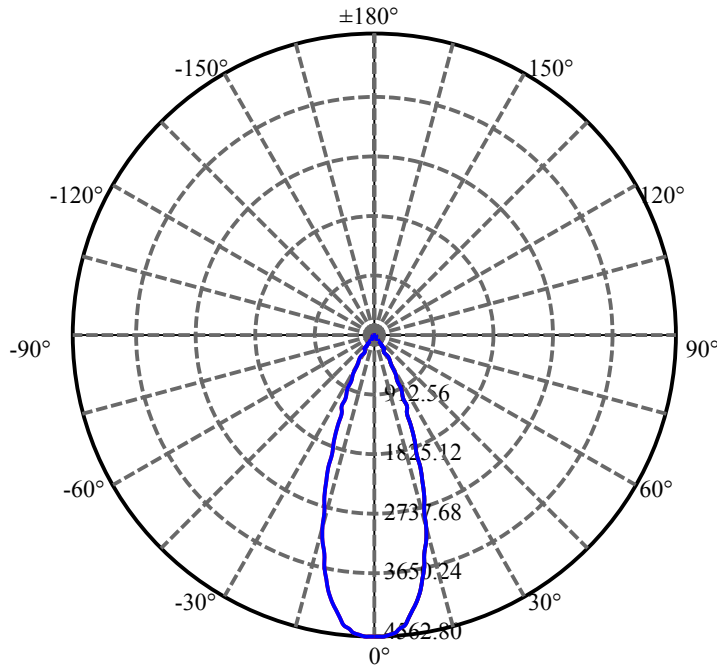
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 10.960 | 1.178 | 1890.727 | 0.06% | 99.25% |
| 77.0 | 10.683 | 1.154 | 1891.881 | 0.06% | 99.31% |
| 78.0 | 10.441 | 1.131 | 1893.011 | 0.05% | 99.37% |
| 79.0 | 10.185 | 1.108 | 1894.12 | 0.05% | 99.42% |
| 80.0 | 9.950 | 1.086 | 1895.205 | 0.05% | 99.48% |
| 81.0 | 9.763 | 1.066 | 1896.271 | 0.05% | 99.54% |
| 82.0 | 9.548 | 1.047 | 1897.318 | 0.05% | 99.59% |
| 83.0 | 9.362 | 1.028 | 1898.346 | 0.05% | 99.65% |
| 84.0 | 9.209 | 1.012 | 1899.358 | 0.05% | 99.70% |
| 85.0 | 9.023 | 0.995 | 1900.353 | 0.05% | 99.75% |
| 86.0 | 8.843 | 0.977 | 1901.33 | 0.05% | 99.80% |
| 87.0 | 8.732 | 0.962 | 1902.291 | 0.05% | 99.85% |
| 88.0 | 8.594 | 0.949 | 1903.241 | 0.05% | 99.90% |
| 89.0 | 8.455 | 0.934 | 1904.175 | 0.04% | 99.95% |
| 90.0 | 8.407 | 0.925 | 1905.1 | 0.04% | 100.00% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 1697.05 | 81.38% | 89.08% |
| 0-40 | 1814.14 | 86.99% | 95.23% |
| 0-60 | 1868.70 | 89.61% | 98.09% |
| 0-90 | 1904.18 | 91.31% | 99.95% |
| 0-120 | 1904.18 | 91.31% | 99.95% |
| 0-180 | 1905.10 | 91.36% | 100.00% |
| 60-90 | 35.48 | 1.70% | 1.86% |
| 90-120 | 0.00 | 0.00% | 0.00% |
| 90-130 | 0.00 | 0.00% | 0.00% |
| 90-150 | 0.00 | 0.00% | 0.00% |
| 90-180 | 0.00 | 0.00% | 0.00% |
| 0-25.18 | 1524.08 | 73.09% | 80.00% |

ZONAL LUMEN SUMMARY

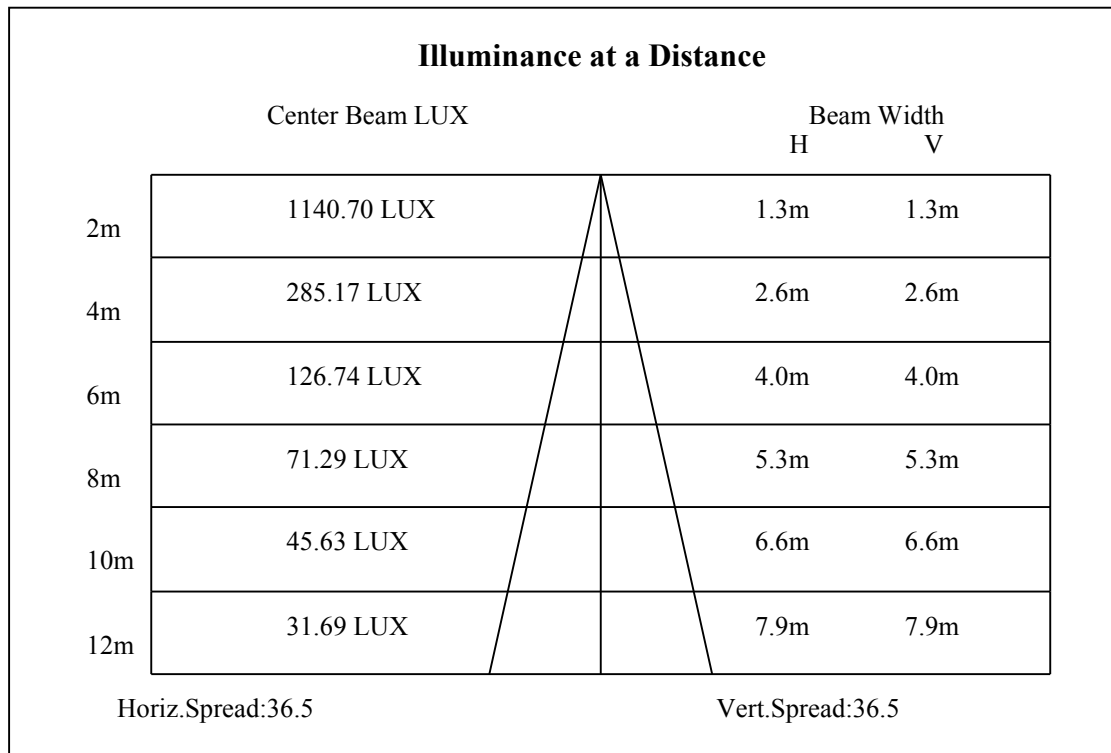
| | |
|---------|--------|
| 0-10 | 409.54 |
| 10-20 | 809.35 |
| 20-30 | 478.16 |
| 30-40 | 117.09 |
| 40-50 | 35.19 |
| 50-60 | 19.36 |
| 60-70 | 14.58 |
| 70-80 | 11.92 |
| 80-90 | 8.97 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

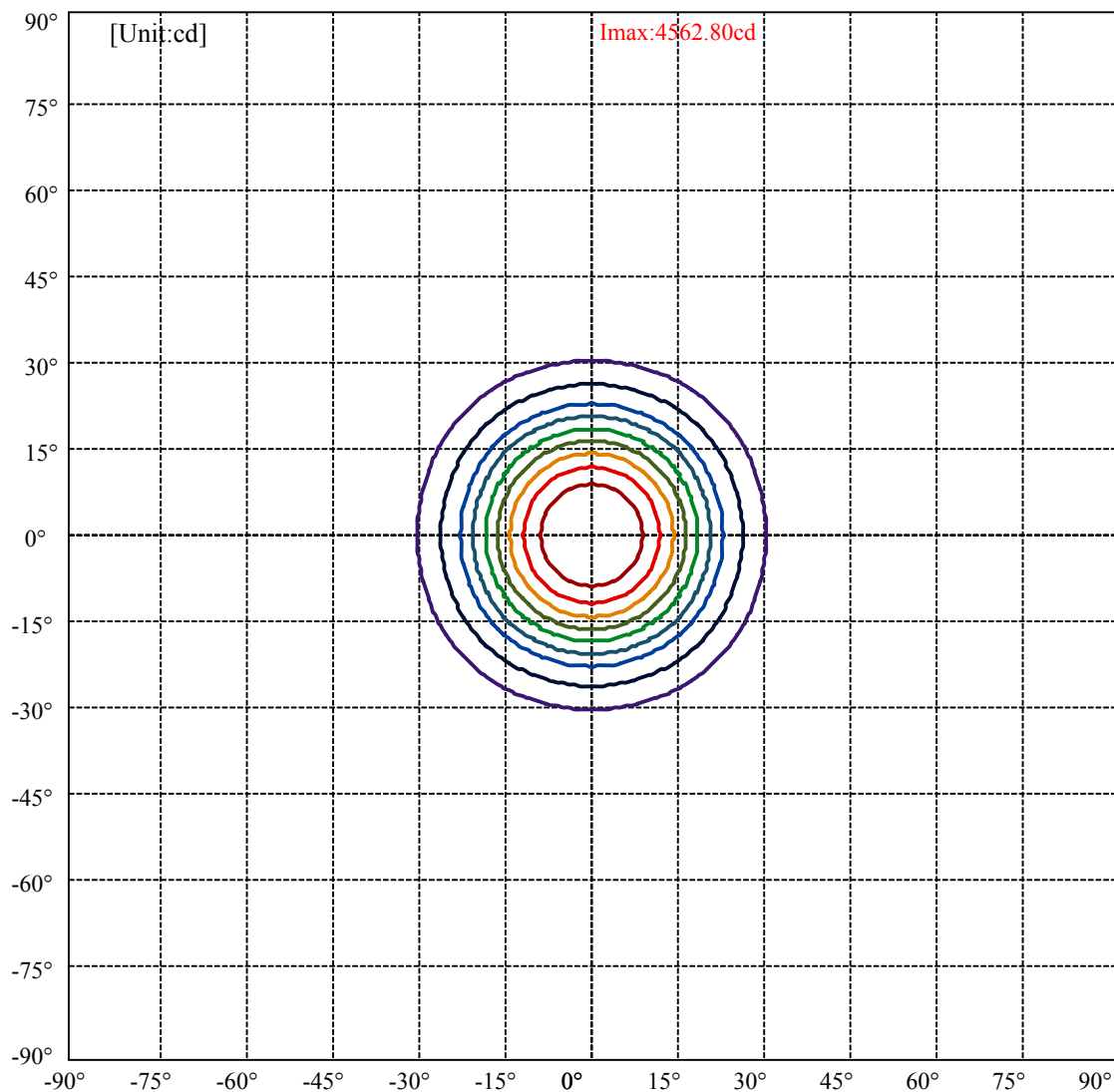


C0(Max): —————
C0/C180: —————
C90/C270: —————

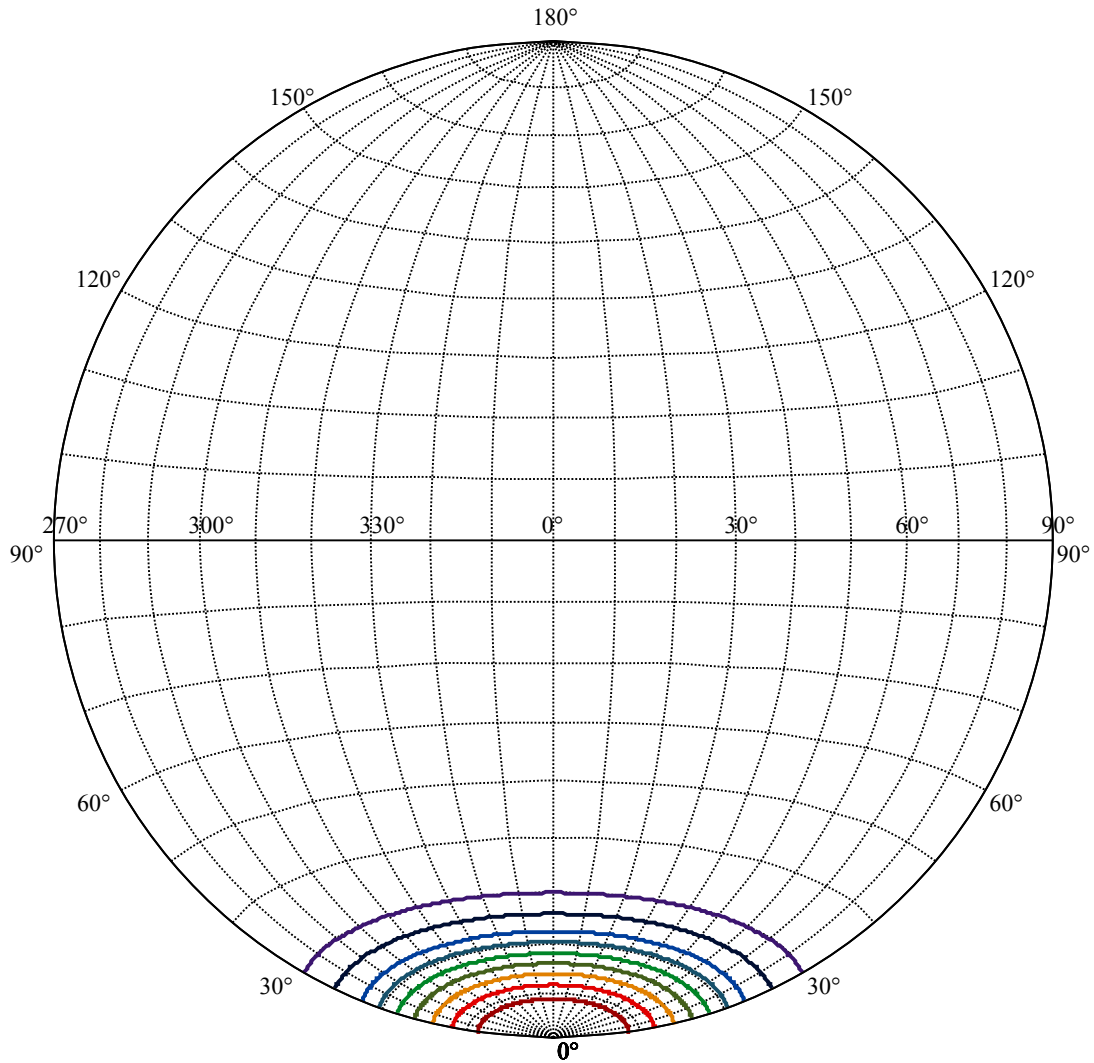
Field angle(10%Imax):C0/180Left:29.9 Right:29.9
:C90/270Left:29.9 Right:29.9

Beam Angle(50%Imax):C0/180Left:18.2 Right:18.2
:C90/270Left:18.2 Right:18.2





| | |
|-------------------|---|
| (10%Imax) 456.28 | — |
| (20%Imax) 912.559 | — |
| (30%Imax) 1368.84 | — |
| (40%Imax) 1825.12 | — |
| (50%Imax) 2281.4 | — |
| (60%Imax) 2737.68 | — |
| (70%Imax) 3193.96 | — |
| (80%Imax) 3650.24 | — |
| (90%Imax) 4106.52 | — |



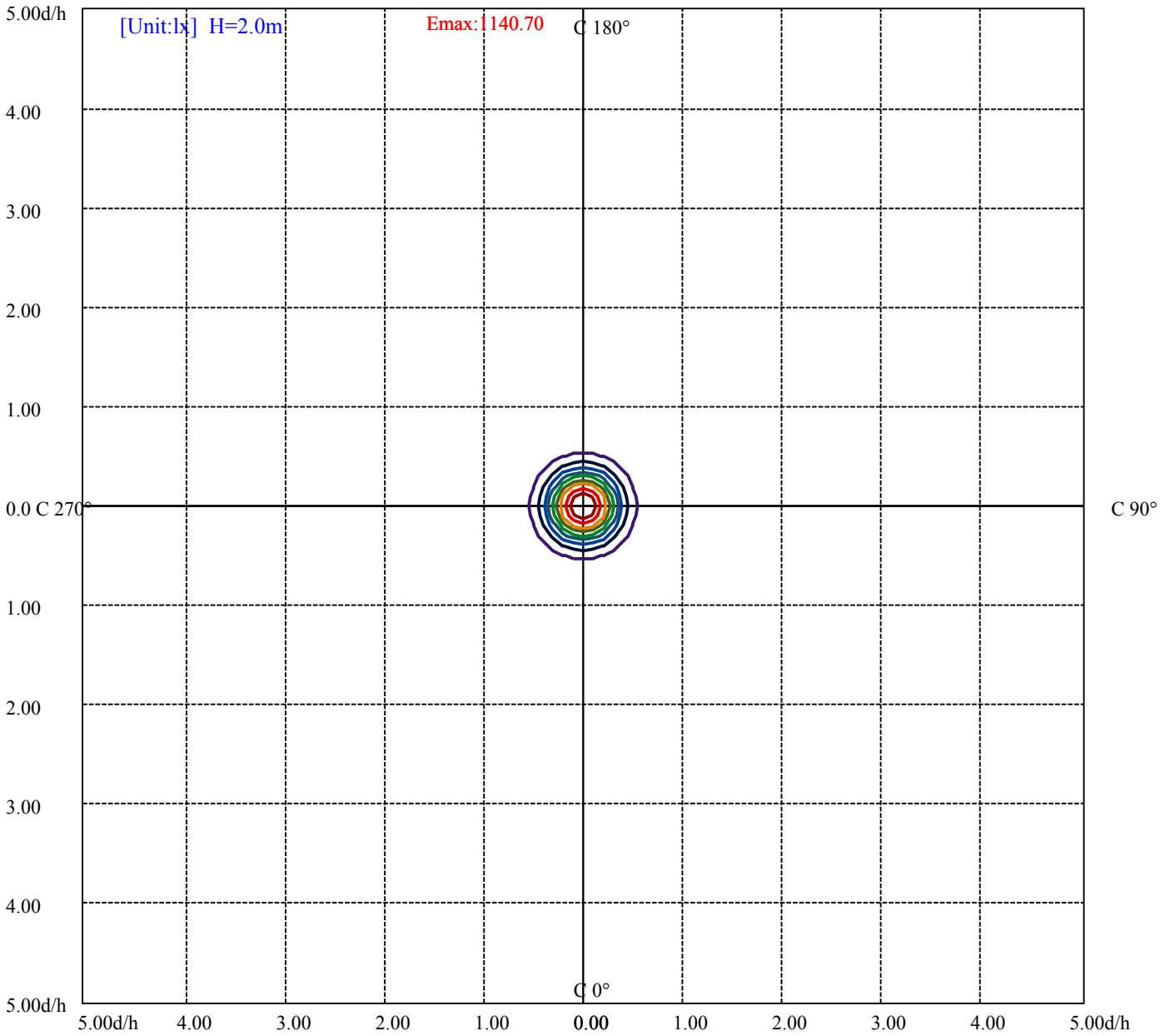
House

[Unit:cd]

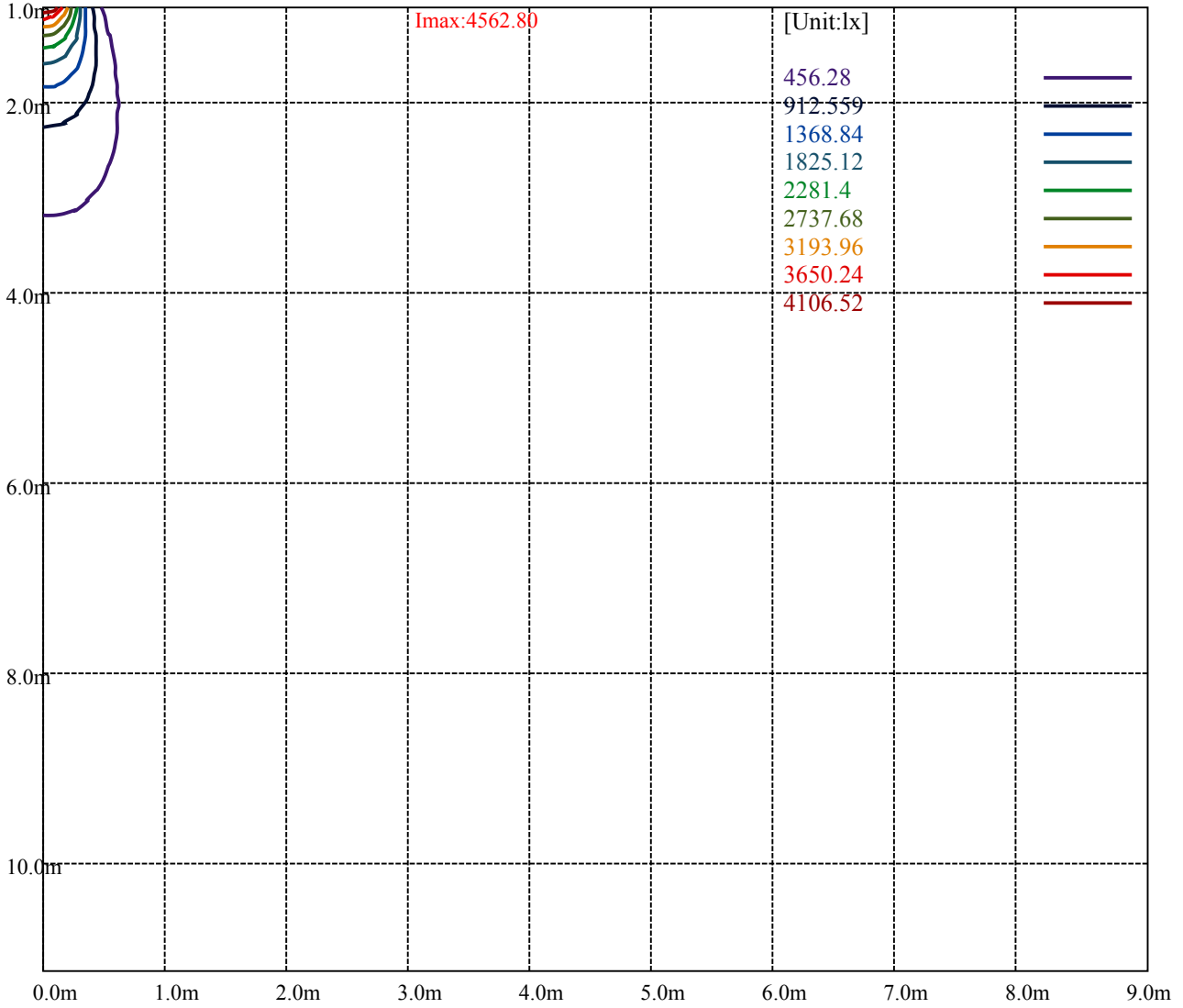
Road

Imax:4562.80

| | | |
|-----------|---------|---|
| (10%Imax) | 456.28 | — |
| (20%Imax) | 912.559 | — |
| (30%Imax) | 1368.84 | — |
| (40%Imax) | 1825.12 | — |
| (50%Imax) | 2281.4 | — |
| (60%Imax) | 2737.68 | — |
| (70%Imax) | 3193.96 | — |
| (80%Imax) | 3650.24 | — |
| (90%Imax) | 4106.52 | — |



- (10%Emax) 114.07
- (20%Emax) 228.1398
- (30%Emax) 342.21
- (40%Emax) 456.28
- (50%Emax) 570.35
- (60%Emax) 684.42
- (70%Emax) 798.49
- (80%Emax) 912.56
- (90%Emax) 1026.63



Luminance Table

| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|----|----|----|----|----|----|----|----|----|
| C0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Glare Table

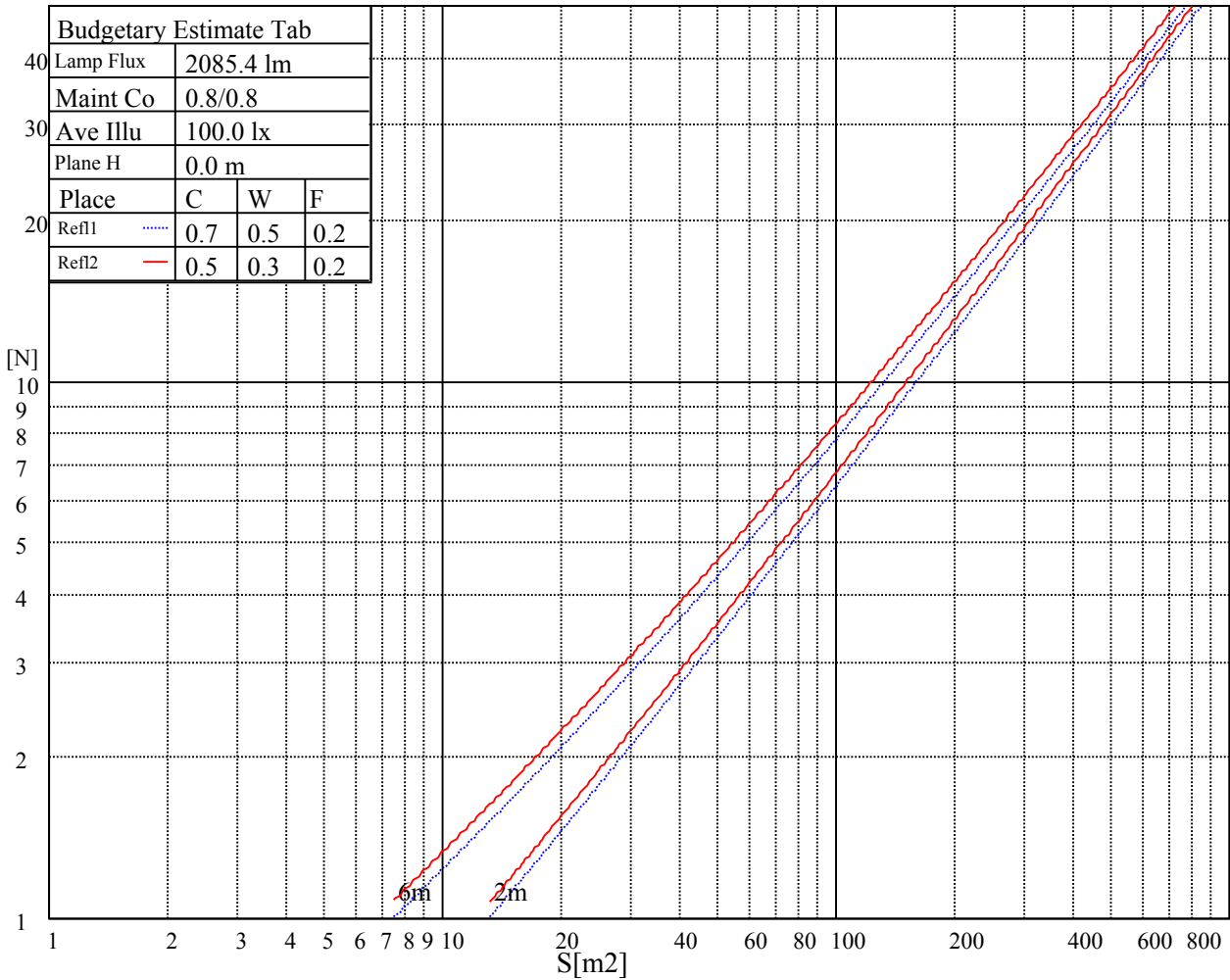
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 500 | <=300 | | |
| 2.2 | D | | | | 2000 | 1000 | 500 | <=300 | |
| 2.55 | E | | | | | 2000 | 1000 | 500 | <=300 |
| | | a | b | c | d | e | f | g | h |

Luminance Limiting Curve

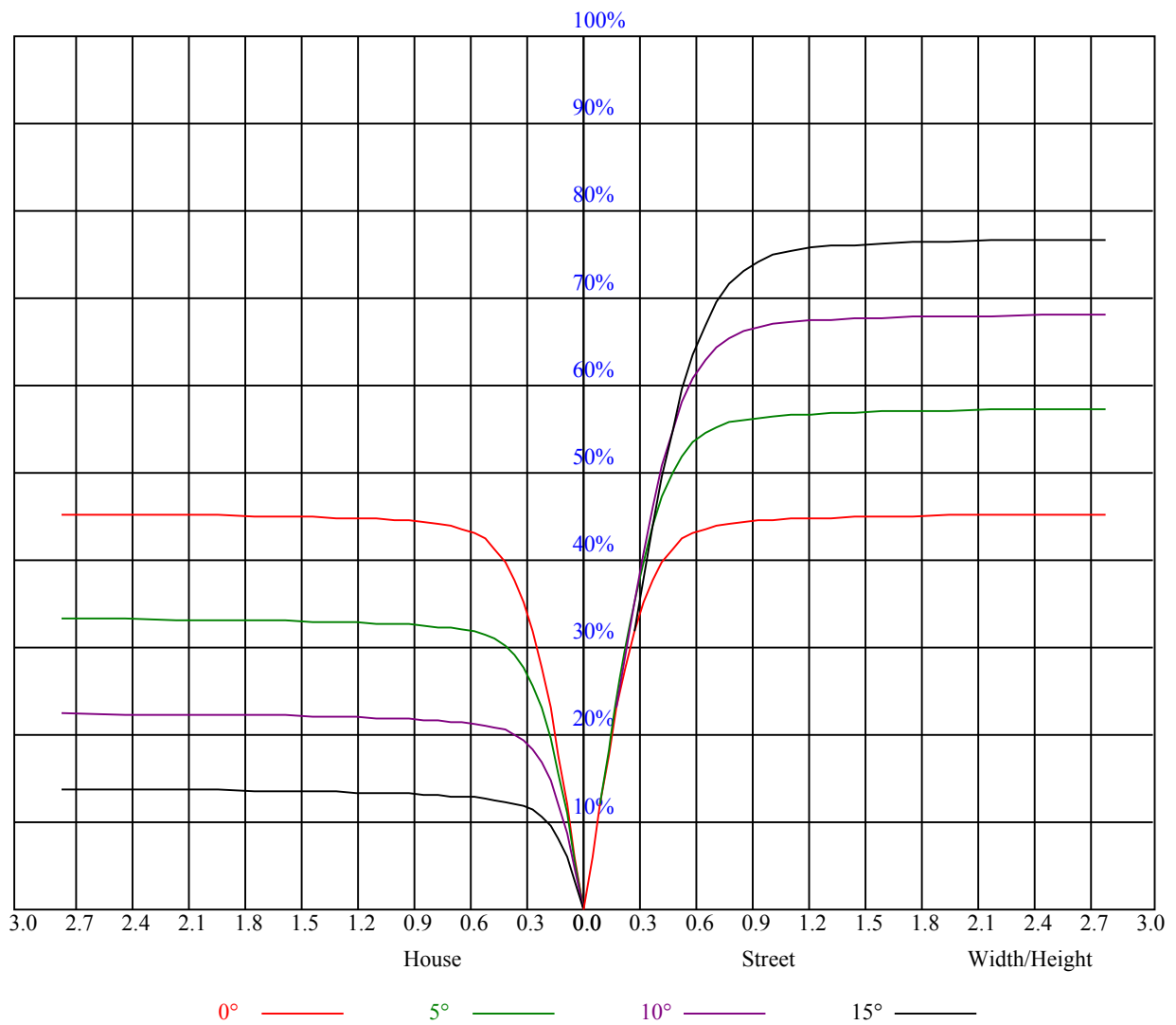


| Illumination assessment according UGR | | | | | | | | | | | |
|---|-----|------------------|-----|-----|-----|-----|----------------|-----|-----|-----|--|
| Rf of Ceiling | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | |
| Rf of Wall | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | |
| Rf of Floor | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X | Y | | | | | | | | | | |
| 2H | 2H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 3H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 4H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 6H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 8H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| 4H | 12H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 2H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 3H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 4H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 6H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| 8H | 8H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 12H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 4H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 6H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 8H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| 12H | 12H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 4H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 6H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| 8H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | | |
| Variation with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | | 非数字/非数字 | | | | | 非数字/非数字 | | | | |
| S = 1.5H | | 非数字/非数字 | | | | | 非数字/非数字 | | | | |
| S = 2.0H | | 非数字/非数字 | | | | | 非数字/非数字 | | | | |
| Standard tables: | | BK0 | | | | | BK0 | | | | |
| Uncorrected UGR | | 负无穷大 | | | | | 负无穷大 | | | | |

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



| RHOCC | 80 | | | 70 | | | 50 | | | 30 | | | 10 | | | 0 |
|-------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| RHOW | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | COEFFICIENTS OF UTILIZATION RHOF=20 CU | | | | | | | | | | | | | | | |
| 0 | 1.09 | 1.09 | 1.09 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 0.97 | 0.97 | 0.97 | 0.93 | 0.93 | 0.93 | 0.91 |
| 1 | 1.02 | 1.00 | 0.98 | 1.00 | 0.98 | 0.96 | 0.96 | 0.95 | 0.93 | 0.93 | 0.92 | 0.91 | 0.90 | 0.89 | 0.88 | 0.86 |
| 2 | 0.96 | 0.93 | 0.90 | 0.94 | 0.92 | 0.89 | 0.92 | 0.89 | 0.87 | 0.89 | 0.87 | 0.85 | 0.86 | 0.85 | 0.84 | 0.82 |
| 3 | 0.91 | 0.87 | 0.84 | 0.90 | 0.86 | 0.83 | 0.87 | 0.84 | 0.82 | 0.85 | 0.83 | 0.81 | 0.83 | 0.81 | 0.79 | 0.78 |
| 4 | 0.86 | 0.82 | 0.79 | 0.85 | 0.81 | 0.78 | 0.84 | 0.80 | 0.77 | 0.82 | 0.79 | 0.77 | 0.80 | 0.78 | 0.76 | 0.75 |
| 5 | 0.82 | 0.78 | 0.75 | 0.82 | 0.77 | 0.74 | 0.80 | 0.76 | 0.74 | 0.79 | 0.75 | 0.73 | 0.77 | 0.75 | 0.72 | 0.71 |
| 6 | 0.79 | 0.74 | 0.71 | 0.78 | 0.74 | 0.71 | 0.77 | 0.73 | 0.70 | 0.76 | 0.72 | 0.70 | 0.74 | 0.72 | 0.69 | 0.68 |
| 7 | 0.75 | 0.71 | 0.68 | 0.75 | 0.70 | 0.67 | 0.74 | 0.70 | 0.67 | 0.73 | 0.69 | 0.67 | 0.72 | 0.69 | 0.66 | 0.65 |
| 8 | 0.72 | 0.68 | 0.65 | 0.72 | 0.68 | 0.65 | 0.71 | 0.67 | 0.64 | 0.70 | 0.67 | 0.64 | 0.69 | 0.66 | 0.64 | 0.63 |
| 9 | 0.69 | 0.65 | 0.62 | 0.69 | 0.65 | 0.62 | 0.68 | 0.64 | 0.62 | 0.68 | 0.64 | 0.62 | 0.67 | 0.64 | 0.61 | 0.60 |
| 10 | 0.67 | 0.63 | 0.60 | 0.67 | 0.62 | 0.60 | 0.66 | 0.62 | 0.59 | 0.65 | 0.62 | 0.59 | 0.65 | 0.61 | 0.59 | 0.58 |



Intensity data(cd)

| | | | | | | | | | |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| C/γ(°) | 0.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 |
| 0.0 | 4572.76 | 4569.44 | 4550.62 | 4516.30 | 4467.04 | 4395.08 | 4315.37 | 4217.39 | 4096.72 |
| 45.0 | 4548.41 | 4548.41 | 4547.30 | 4540.66 | 4506.34 | 4460.39 | 4402.27 | 4326.44 | 4202.45 |
| 90.0 | 4560.03 | 4552.28 | 4541.21 | 4509.66 | 4470.36 | 4387.33 | 4297.10 | 4190.82 | 4038.60 |
| 135.0 | 4569.99 | 4566.67 | 4563.35 | 4562.80 | 4533.46 | 4467.59 | 4401.72 | 4319.79 | 4190.27 |
| 180.0 | 4572.76 | 4552.83 | 4551.17 | 4565.56 | 4559.48 | 4531.80 | 4483.09 | 4423.86 | 4315.92 |
| 225.0 | 4548.41 | 4545.08 | 4551.17 | 4542.32 | 4509.10 | 4467.04 | 4371.27 | 4280.49 | 4167.02 |
| 270.0 | 4560.03 | 4566.12 | 4567.78 | 4571.65 | 4575.53 | 4537.89 | 4486.41 | 4423.31 | 4331.97 |
| 315.0 | 4569.99 | 4580.51 | 4589.92 | 4586.05 | 4558.92 | 4503.02 | 4441.57 | 4355.22 | 4253.92 |
| 360.0 | 4572.76 | 4569.44 | 4550.62 | 4516.30 | 4467.04 | 4395.08 | 4315.37 | 4217.39 | 4096.72 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 3962.76 | 3790.61 | 3624.55 | 3448.53 | 3209.96 | 3018.99 | 2814.73 | 2552.35 | 2346.44 |
| 45.0 | 4079.01 | 3951.14 | 3777.88 | 3617.36 | 3438.57 | 3207.19 | 3014.00 | 2769.89 | 2567.85 |
| 90.0 | 3904.64 | 3757.40 | 3546.51 | 3360.52 | 3168.44 | 2935.40 | 2735.02 | 2537.41 | 2342.01 |
| 135.0 | 4071.81 | 3938.96 | 3788.95 | 3582.48 | 3410.34 | 3223.24 | 2977.47 | 2776.54 | 2571.73 |
| 180.0 | 4224.59 | 4111.67 | 3981.03 | 3831.58 | 3629.54 | 3454.62 | 3269.18 | 3040.02 | 2831.89 |
| 225.0 | 4045.79 | 3870.88 | 3715.33 | 3547.61 | 3367.71 | 3132.46 | 2939.28 | 2731.70 | 2528.55 |
| 270.0 | 4201.34 | 4077.35 | 3941.73 | 3779.54 | 3564.77 | 3380.44 | 3190.03 | 2990.76 | 2726.72 |
| 315.0 | 4138.24 | 3972.17 | 3814.97 | 3650.57 | 3427.49 | 3230.99 | 3032.27 | 2770.45 | 2565.09 |
| 360.0 | 3962.76 | 3790.61 | 3624.55 | 3448.53 | 3209.96 | 3018.99 | 2814.73 | 2552.35 | 2346.44 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 2091.26 | 1904.16 | 1725.93 | 1554.88 | 1099.65 | 1099.65 | 1026.03 | 888.87 | 736.09 |
| 45.0 | 2364.71 | 2170.41 | 1933.50 | 1754.16 | 1589.20 | 1430.89 | 1275.35 | 1079.95 | 935.48 |
| 90.0 | 2100.12 | 1913.02 | 1733.67 | 1528.31 | 1095.06 | 1095.06 | 1058.58 | 919.26 | 759.12 |
| 135.0 | 2322.08 | 2133.33 | 1896.41 | 1720.94 | 1560.42 | 1399.89 | 1241.03 | 1056.15 | 912.23 |
| 180.0 | 2586.67 | 2371.90 | 2165.99 | 1933.50 | 1752.49 | 1575.92 | 1417.05 | 1215.01 | 1066.11 |
| 225.0 | 2272.27 | 2074.10 | 1838.85 | 1655.07 | 1495.10 | 1084.21 | 1084.21 | 1014.47 | 885.05 |
| 270.0 | 2515.27 | 2318.21 | 2078.53 | 1886.45 | 1702.68 | 1487.35 | 1350.07 | 1155.23 | 1022.93 |
| 315.0 | 2301.60 | 2097.35 | 1898.63 | 1712.09 | 1504.51 | 1084.65 | 1084.65 | 1050.39 | 917.87 |
| 360.0 | 2091.26 | 1904.16 | 1725.93 | 1554.88 | 1099.65 | 1099.65 | 1026.03 | 888.87 | 736.09 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 628.15 | 534.55 | 448.64 | 349.67 | 278.21 | 217.10 | 162.08 | 135.28 | 113.25 |
| 45.0 | 772.18 | 657.60 | 555.75 | 444.49 | 364.78 | 293.93 | 293.93 | 175.30 | 147.13 |
| 90.0 | 643.65 | 515.90 | 430.32 | 351.77 | 270.79 | 217.15 | 180.18 | 148.07 | 130.58 |
| 135.0 | 781.04 | 665.90 | 542.47 | 456.11 | 376.40 | 287.29 | 287.29 | 218.20 | 148.46 |
| 180.0 | 923.85 | 789.34 | 647.64 | 549.66 | 462.20 | 360.91 | 292.27 | 292.27 | 179.35 |
| 225.0 | 742.90 | 638.28 | 541.19 | 453.29 | 355.65 | 288.95 | 231.05 | 178.85 | 150.17 |
| 270.0 | 902.26 | 781.04 | 644.87 | 546.89 | 453.35 | 369.21 | 280.64 | 280.64 | 211.78 |
| 315.0 | 764.88 | 659.59 | 561.73 | 451.74 | 374.08 | 300.35 | 225.01 | 175.80 | 136.78 |
| 360.0 | 628.15 | 534.55 | 448.64 | 349.67 | 278.21 | 217.10 | 162.08 | 135.28 | 113.25 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 99.53 | 88.46 | 76.55 | 68.36 | 61.39 | 55.30 | 49.71 | 43.73 | 39.91 |
| 45.0 | 128.64 | 109.27 | 96.87 | 86.30 | 76.83 | 66.76 | 60.00 | 54.25 | 47.33 |
| 90.0 | 115.36 | 102.79 | 88.68 | 79.10 | 70.91 | 63.82 | 55.91 | 50.37 | 45.67 |
| 135.0 | 128.97 | 112.81 | 96.43 | 85.19 | 75.67 | 65.70 | 59.01 | 53.31 | 48.05 |
| 180.0 | 152.11 | 129.20 | 113.70 | 101.24 | 90.12 | 78.16 | 70.30 | 63.21 | 56.79 |
| 225.0 | 131.52 | 112.15 | 99.58 | 88.62 | 76.94 | 68.97 | 62.16 | 54.58 | 49.26 |
| 270.0 | 143.70 | 119.62 | 104.51 | 91.61 | 78.99 | 70.41 | 61.50 | 55.46 | 50.10 |
| 315.0 | 118.12 | 104.06 | 92.00 | 79.65 | 71.02 | 63.71 | 57.46 | 50.70 | 45.83 |
| 360.0 | 99.53 | 88.46 | 76.55 | 68.36 | 61.39 | 55.30 | 49.71 | 43.73 | 39.91 |

Intensity data(cd)

| | | | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C/γ(°) | 45.0 | 46.0 | 47.0 | 48.0 | 49.0 | 50.0 | 51.0 | 52.0 | 53.0 |
| 0.0 | 36.64 | 33.10 | 30.61 | 28.56 | 26.40 | 24.91 | 23.58 | 22.14 | 21.09 |
| 45.0 | 42.95 | 39.30 | 35.37 | 32.60 | 30.17 | 27.68 | 25.96 | 24.52 | 23.25 |
| 90.0 | 40.74 | 37.42 | 33.77 | 31.27 | 29.23 | 27.40 | 25.41 | 24.02 | 22.81 |
| 135.0 | 43.62 | 39.08 | 35.92 | 33.16 | 30.17 | 28.12 | 26.40 | 24.52 | 23.25 |
| 180.0 | 51.31 | 45.61 | 41.79 | 38.42 | 34.82 | 32.33 | 29.72 | 27.90 | 26.35 |
| 225.0 | 44.73 | 40.96 | 36.81 | 33.99 | 31.50 | 29.39 | 27.12 | 25.52 | 24.13 |
| 270.0 | 45.28 | 40.30 | 37.09 | 34.21 | 31.72 | 29.06 | 27.23 | 25.68 | 24.24 |
| 315.0 | 41.85 | 38.47 | 34.93 | 32.38 | 29.78 | 28.01 | 26.46 | 24.69 | 23.47 |
| 360.0 | 36.64 | 33.10 | 30.61 | 28.56 | 26.40 | 24.91 | 23.58 | 22.14 | 21.09 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 20.20 | 19.15 | 18.43 | 17.77 | 17.16 | 16.44 | 16.00 | 15.50 | 15.06 |
| 45.0 | 21.86 | 20.92 | 19.98 | 19.15 | 18.21 | 17.55 | 16.99 | 16.27 | 15.78 |
| 90.0 | 21.70 | 20.48 | 19.60 | 18.82 | 17.99 | 17.33 | 16.77 | 16.05 | 15.55 |
| 135.0 | 21.92 | 20.92 | 20.04 | 19.26 | 18.32 | 17.66 | 17.05 | 16.50 | 15.83 |
| 180.0 | 24.52 | 23.30 | 22.25 | 21.31 | 20.26 | 19.43 | 18.76 | 18.05 | 17.44 |
| 225.0 | 22.58 | 21.48 | 20.31 | 19.48 | 18.76 | 18.10 | 17.33 | 16.72 | 16.16 |
| 270.0 | 22.64 | 21.59 | 20.37 | 19.54 | 18.76 | 17.93 | 17.33 | 16.77 | 16.27 |
| 315.0 | 22.36 | 21.15 | 20.31 | 19.54 | 18.76 | 18.10 | 17.38 | 16.83 | 16.33 |
| 360.0 | 20.20 | 19.15 | 18.43 | 17.77 | 17.16 | 16.44 | 16.00 | 15.50 | 15.06 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 14.56 | 14.23 | 13.78 | 13.45 | 13.17 | 12.79 | 12.51 | 12.29 | 12.01 |
| 45.0 | 15.22 | 14.78 | 14.39 | 13.95 | 13.62 | 13.23 | 12.90 | 12.57 | 12.29 |
| 90.0 | 15.11 | 14.61 | 14.17 | 13.84 | 13.45 | 13.06 | 12.73 | 12.51 | 12.18 |
| 135.0 | 15.33 | 14.89 | 14.39 | 14.00 | 13.67 | 13.23 | 12.90 | 12.57 | 12.18 |
| 180.0 | 16.77 | 16.16 | 15.61 | 15.11 | 14.72 | 14.17 | 13.84 | 13.45 | 13.01 |
| 225.0 | 15.67 | 15.11 | 14.67 | 14.28 | 13.84 | 13.51 | 13.17 | 12.73 | 12.45 |
| 270.0 | 15.67 | 15.22 | 14.78 | 14.39 | 13.95 | 13.67 | 13.34 | 12.95 | 12.68 |
| 315.0 | 15.72 | 15.28 | 14.89 | 14.39 | 14.00 | 13.62 | 13.28 | 13.01 | 12.73 |
| 360.0 | 14.56 | 14.23 | 13.78 | 13.45 | 13.17 | 12.79 | 12.51 | 12.29 | 12.01 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 11.73 | 11.40 | 11.18 | 10.90 | 10.63 | 10.41 | 10.13 | 9.85 | 9.69 |
| 45.0 | 11.96 | 11.73 | 11.46 | 11.13 | 10.90 | 10.57 | 10.35 | 10.13 | 9.91 |
| 90.0 | 11.85 | 11.51 | 11.29 | 10.96 | 10.68 | 10.41 | 10.24 | 10.02 | 9.74 |
| 135.0 | 11.90 | 11.62 | 11.40 | 11.07 | 10.79 | 10.57 | 10.30 | 10.07 | 9.91 |
| 180.0 | 12.73 | 12.40 | 12.07 | 11.62 | 11.35 | 11.02 | 10.74 | 10.41 | 10.19 |
| 225.0 | 12.12 | 11.79 | 11.46 | 11.18 | 10.85 | 10.57 | 10.35 | 10.13 | 9.85 |
| 270.0 | 12.40 | 12.07 | 11.79 | 11.46 | 11.18 | 10.96 | 10.68 | 10.46 | 10.19 |
| 315.0 | 12.34 | 12.12 | 11.85 | 11.57 | 11.29 | 10.96 | 10.74 | 10.41 | 10.13 |
| 360.0 | 11.73 | 11.40 | 11.18 | 10.90 | 10.63 | 10.41 | 10.13 | 9.85 | 9.69 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 9.52 | 9.30 | 9.13 | 8.97 | 8.80 | 8.69 | 8.52 | 8.41 | 8.25 |
| 45.0 | 9.69 | 9.47 | 9.30 | 9.19 | 8.97 | 8.80 | 8.75 | 8.64 | 8.30 |
| 90.0 | 9.69 | 9.47 | 9.24 | 9.08 | 8.91 | 8.80 | 8.75 | 8.47 | 8.58 |
| 135.0 | 9.69 | 9.52 | 9.35 | 9.19 | 9.02 | 8.86 | 8.80 | 8.64 | 8.58 |
| 180.0 | 9.96 | 9.74 | 9.52 | 9.47 | 9.19 | 8.91 | 8.80 | 8.69 | 8.52 |
| 225.0 | 9.63 | 9.47 | 9.30 | 9.13 | 8.97 | 8.80 | 8.69 | 8.69 | 8.25 |
| 270.0 | 9.96 | 9.69 | 9.52 | 9.35 | 9.19 | 9.02 | 8.80 | 8.64 | 8.64 |
| 315.0 | 9.96 | 9.74 | 9.52 | 9.30 | 9.13 | 8.86 | 8.75 | 8.58 | 8.52 |
| 360.0 | 9.52 | 9.30 | 9.13 | 8.97 | 8.80 | 8.69 | 8.52 | 8.41 | 8.25 |

Intensity data(cd)

| | |
|--------|------|
| C/γ(°) | 90.0 |
| 0.0 | 8.19 |
| 45.0 | 8.25 |
| 90.0 | 8.69 |
| 135.0 | 8.75 |
| 180.0 | 8.30 |
| 225.0 | 8.25 |
| 270.0 | 8.41 |
| 315.0 | 8.41 |
| 360.0 | 8.19 |