



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: 20231115-B007

Ballast type: AC

Test No: 20231115-C007

Voltage(V): 33.950

LampCAT: Fortimo_SLM_C_1202

Current(A): 0.145

Lamp flux(lm): 832.3

Power (W): 4.922

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 762.41, Efficiency(%): 91.60% , Luminous Efficacy(lm/W): 154.90

Central intensity(cd): 1768.132, Maximum intensity(cd): 1768.132

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=37.6

[C90/270]Total=37.6

Field angle(10%Imax): [C0/180]Total=60.8

[C90/270]Total=60.8

Beam angle of C0 plane : 37.51

Average BeamAngle(IEC 61341):37.51

Maximum s/h(1/2): C0_180=0.62 C90_270=0.62

Maximum s/h(1/4): C0_180=0.60 C90_270=0.60

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.60%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.152%

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/15
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 1768.132 | 0.000 | 0 | 0.00% | 0.00% |
| 1.0 | 1767.371 | 1.692 | 1.692 | 0.20% | 0.22% |
| 2.0 | 1765.019 | 5.070 | 6.762 | 0.61% | 0.89% |
| 3.0 | 1759.829 | 8.430 | 15.192 | 1.01% | 1.99% |
| 4.0 | 1750.073 | 11.749 | 26.941 | 1.41% | 3.53% |
| 5.0 | 1731.876 | 14.979 | 41.92 | 1.80% | 5.50% |
| 6.0 | 1706.551 | 18.070 | 59.99 | 2.17% | 7.87% |
| 7.0 | 1673.962 | 20.983 | 80.973 | 2.52% | 10.62% |
| 8.0 | 1636.944 | 23.696 | 104.668 | 2.85% | 13.73% |
| 9.0 | 1590.793 | 26.159 | 130.827 | 3.14% | 17.16% |
| 10.0 | 1539.314 | 28.326 | 159.153 | 3.40% | 20.88% |
| 11.0 | 1483.061 | 30.200 | 189.353 | 3.63% | 24.84% |
| 12.0 | 1417.121 | 31.703 | 221.056 | 3.81% | 28.99% |
| 13.0 | 1340.111 | 32.721 | 253.778 | 3.93% | 33.29% |
| 14.0 | 1249.483 | 33.147 | 286.924 | 3.98% | 37.63% |
| 15.0 | 1166.494 | 33.168 | 320.092 | 3.98% | 41.98% |
| 16.0 | 1104.346 | 33.274 | 353.366 | 4.00% | 46.35% |
| 17.0 | 1031.182 | 33.256 | 386.622 | 4.00% | 50.71% |
| 18.0 | 947.591 | 32.626 | 419.248 | 3.92% | 54.99% |
| 19.0 | 863.599 | 31.511 | 450.759 | 3.79% | 59.12% |
| 20.0 | 781.261 | 30.106 | 480.864 | 3.62% | 63.07% |
| 21.0 | 704.686 | 28.533 | 509.397 | 3.43% | 66.81% |
| 22.0 | 630.097 | 26.823 | 536.22 | 3.22% | 70.33% |
| 23.0 | 562.109 | 25.016 | 561.236 | 3.01% | 73.61% |
| 24.0 | 493.118 | 23.071 | 584.307 | 2.77% | 76.64% |
| 25.0 | 428.900 | 20.965 | 605.272 | 2.52% | 79.39% |
| 26.0 | 368.607 | 18.825 | 624.097 | 2.26% | 81.86% |
| 27.0 | 312.914 | 16.674 | 640.771 | 2.00% | 84.05% |
| 28.0 | 272.367 | 14.818 | 655.589 | 1.78% | 85.99% |
| 29.0 | 241.999 | 13.457 | 669.046 | 1.62% | 87.75% |
| 30.0 | 197.855 | 11.876 | 680.922 | 1.43% | 89.31% |
| 31.0 | 148.514 | 9.639 | 690.561 | 1.16% | 90.58% |
| 32.0 | 119.121 | 7.667 | 698.228 | 0.92% | 91.58% |
| 33.0 | 92.143 | 6.224 | 704.452 | 0.75% | 92.40% |
| 34.0 | 73.600 | 5.016 | 709.468 | 0.60% | 93.06% |
| 35.0 | 59.291 | 4.127 | 713.595 | 0.50% | 93.60% |
| 36.0 | 49.735 | 3.471 | 717.066 | 0.42% | 94.05% |
| 37.0 | 43.176 | 3.030 | 720.097 | 0.36% | 94.45% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 37.876 | 2.705 | 722.802 | 0.33% | 94.81% |
| 39.0 | 33.157 | 2.425 | 725.227 | 0.29% | 95.12% |
| 40.0 | 29.158 | 2.173 | 727.4 | 0.26% | 95.41% |
| 41.0 | 25.885 | 1.960 | 729.36 | 0.24% | 95.67% |
| 42.0 | 22.958 | 1.775 | 731.135 | 0.21% | 95.90% |
| 43.0 | 20.654 | 1.616 | 732.75 | 0.19% | 96.11% |
| 44.0 | 18.433 | 1.475 | 734.225 | 0.18% | 96.30% |
| 45.0 | 16.551 | 1.344 | 735.57 | 0.16% | 96.48% |
| 46.0 | 14.952 | 1.232 | 736.802 | 0.15% | 96.64% |
| 47.0 | 13.714 | 1.140 | 737.942 | 0.14% | 96.79% |
| 48.0 | 12.593 | 1.063 | 739.005 | 0.13% | 96.93% |
| 49.0 | 11.638 | 0.995 | 740 | 0.12% | 97.06% |
| 50.0 | 10.801 | 0.936 | 740.936 | 0.11% | 97.18% |
| 51.0 | 10.109 | 0.885 | 741.821 | 0.11% | 97.30% |
| 52.0 | 9.472 | 0.840 | 742.661 | 0.10% | 97.41% |
| 53.0 | 8.940 | 0.801 | 743.462 | 0.10% | 97.52% |
| 54.0 | 8.469 | 0.767 | 744.229 | 0.09% | 97.62% |
| 55.0 | 8.082 | 0.739 | 744.968 | 0.09% | 97.71% |
| 56.0 | 7.687 | 0.713 | 745.68 | 0.09% | 97.81% |
| 57.0 | 7.348 | 0.687 | 746.368 | 0.08% | 97.90% |
| 58.0 | 7.058 | 0.666 | 747.034 | 0.08% | 97.98% |
| 59.0 | 6.802 | 0.648 | 747.682 | 0.08% | 98.07% |
| 60.0 | 6.546 | 0.631 | 748.313 | 0.08% | 98.15% |
| 61.0 | 6.310 | 0.614 | 748.926 | 0.07% | 98.23% |
| 62.0 | 6.110 | 0.598 | 749.525 | 0.07% | 98.31% |
| 63.0 | 5.909 | 0.585 | 750.109 | 0.07% | 98.39% |
| 64.0 | 5.743 | 0.572 | 750.681 | 0.07% | 98.46% |
| 65.0 | 5.570 | 0.560 | 751.241 | 0.07% | 98.54% |
| 66.0 | 5.432 | 0.549 | 751.79 | 0.07% | 98.61% |
| 67.0 | 5.272 | 0.538 | 752.328 | 0.06% | 98.68% |
| 68.0 | 5.162 | 0.529 | 752.856 | 0.06% | 98.75% |
| 69.0 | 5.030 | 0.520 | 753.376 | 0.06% | 98.82% |
| 70.0 | 4.920 | 0.511 | 753.887 | 0.06% | 98.88% |
| 71.0 | 4.781 | 0.501 | 754.389 | 0.06% | 98.95% |
| 72.0 | 4.691 | 0.493 | 754.881 | 0.06% | 99.01% |
| 73.0 | 4.581 | 0.485 | 755.366 | 0.06% | 99.08% |
| 74.0 | 4.484 | 0.477 | 755.843 | 0.06% | 99.14% |
| 75.0 | 4.352 | 0.467 | 756.309 | 0.06% | 99.20% |

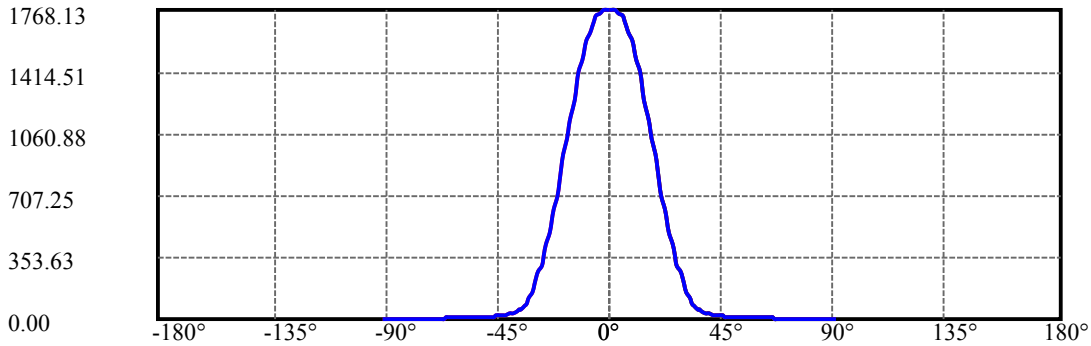
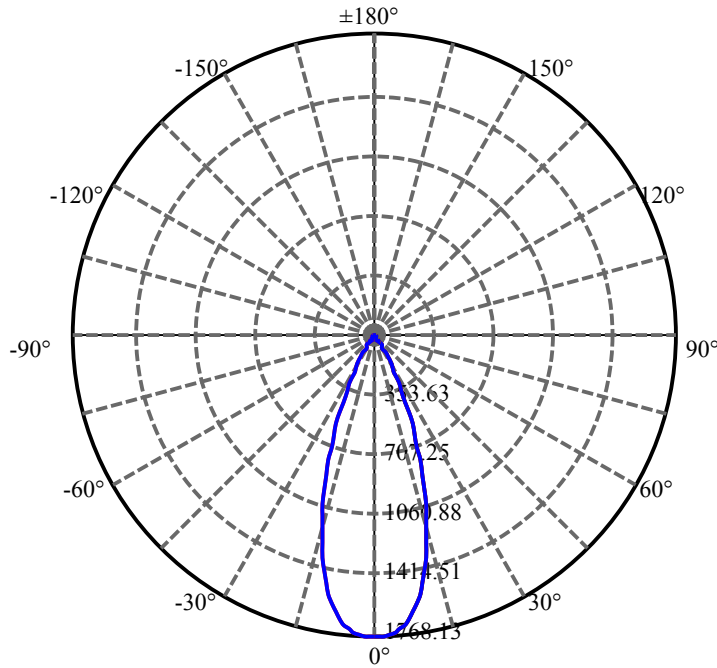
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 4.262 | 0.457 | 756.767 | 0.05% | 99.26% |
| 77.0 | 4.165 | 0.449 | 757.216 | 0.05% | 99.32% |
| 78.0 | 4.068 | 0.441 | 757.657 | 0.05% | 99.38% |
| 79.0 | 3.972 | 0.432 | 758.089 | 0.05% | 99.43% |
| 80.0 | 3.896 | 0.424 | 758.513 | 0.05% | 99.49% |
| 81.0 | 3.826 | 0.418 | 758.931 | 0.05% | 99.54% |
| 82.0 | 3.743 | 0.410 | 759.341 | 0.05% | 99.60% |
| 83.0 | 3.674 | 0.403 | 759.744 | 0.05% | 99.65% |
| 84.0 | 3.612 | 0.397 | 760.141 | 0.05% | 99.70% |
| 85.0 | 3.543 | 0.390 | 760.532 | 0.05% | 99.75% |
| 86.0 | 3.494 | 0.385 | 760.916 | 0.05% | 99.80% |
| 87.0 | 3.439 | 0.379 | 761.296 | 0.05% | 99.85% |
| 88.0 | 3.390 | 0.374 | 761.67 | 0.04% | 99.90% |
| 89.0 | 3.349 | 0.369 | 762.039 | 0.04% | 99.95% |
| 90.0 | 3.328 | 0.366 | 762.405 | 0.04% | 100.00% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|--------|---------|
| 0-30 | 680.92 | 81.81% | 89.31% |
| 0-40 | 727.40 | 87.39% | 95.41% |
| 0-60 | 748.31 | 89.91% | 98.15% |
| 0-90 | 762.04 | 91.56% | 99.95% |
| 0-120 | 762.04 | 91.56% | 99.95% |
| 0-180 | 762.41 | 91.60% | 100.00% |
| 60-90 | 13.73 | 1.65% | 1.80% |
| 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% |
| 0-25.25 | 609.92 | 73.28% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 159.15 |
| 10-20 | 321.71 |
| 20-30 | 200.06 |
| 30-40 | 46.48 |
| 40-50 | 13.54 |
| 50-60 | 7.38 |
| 60-70 | 5.57 |
| 70-80 | 4.63 |
| 80-90 | 3.53 |
| 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: —————

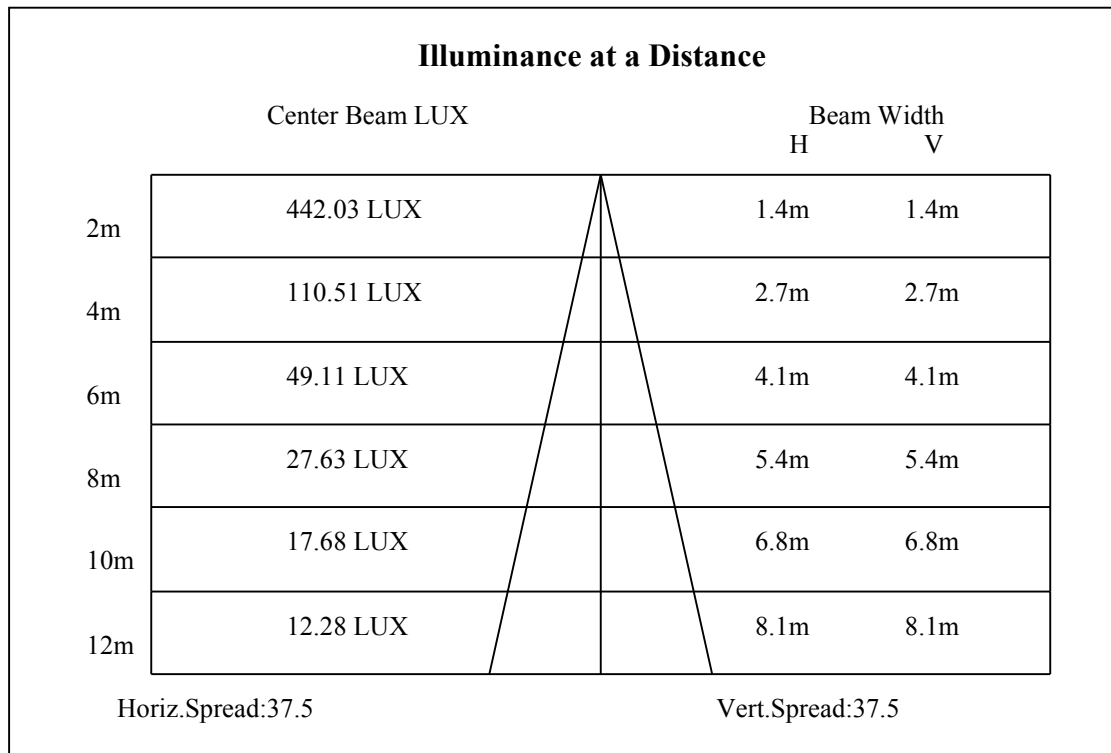
C90/C270: —————

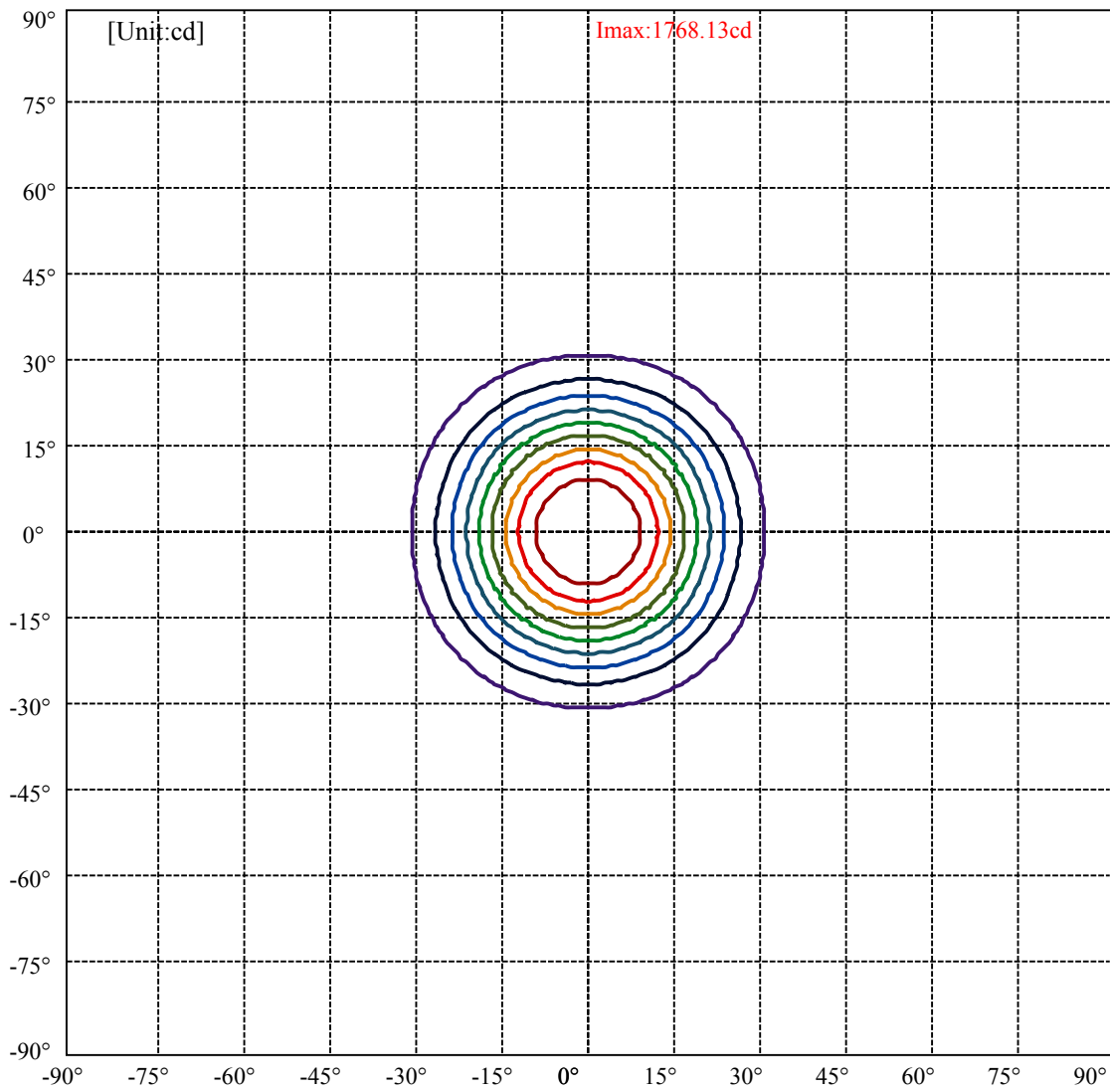
Field angle(10%Imax):C0/180Left:30.4 Right:30.4

:C90/270Left:30.4 Right:30.4

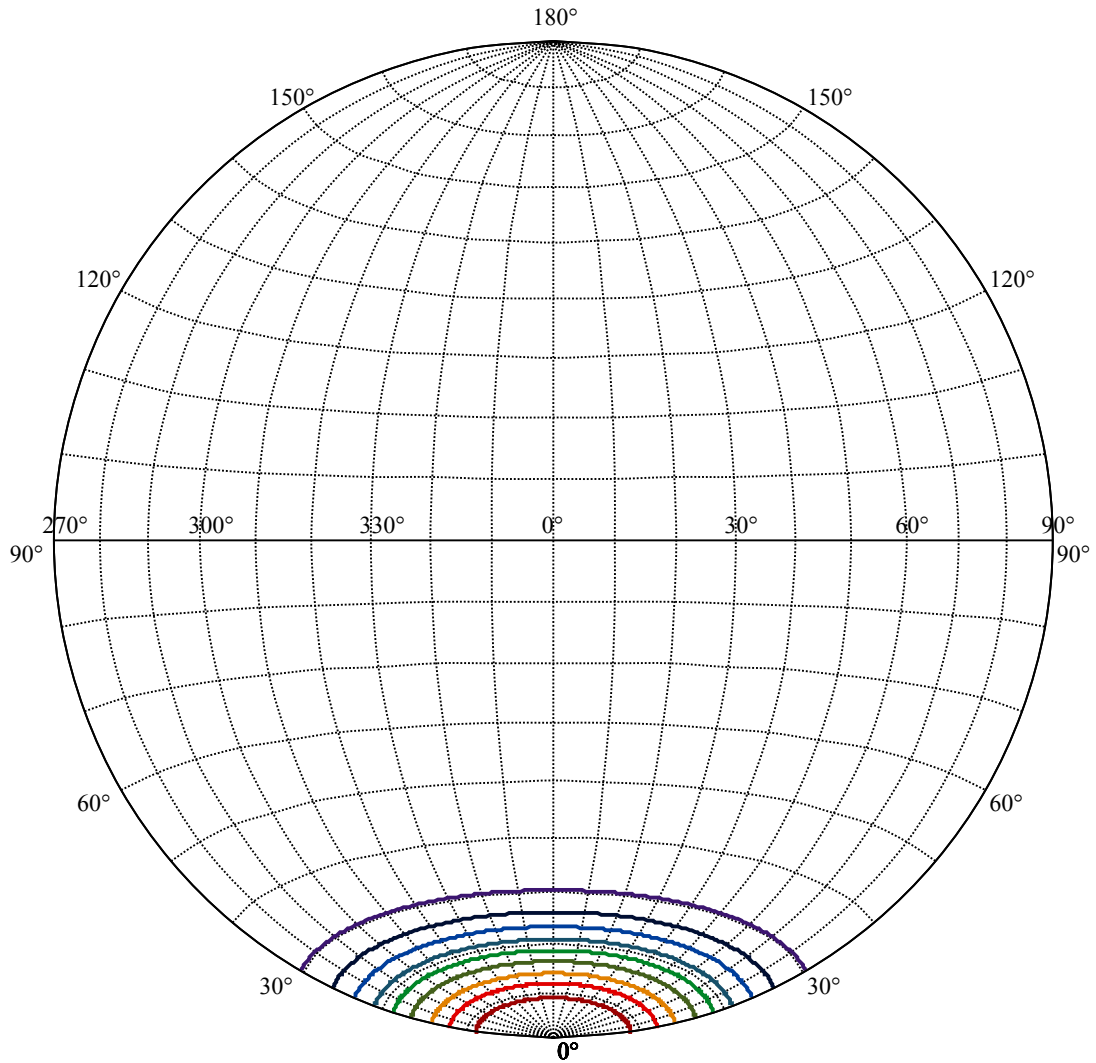
Beam Angle(50%Imax):C0/180Left:18.8 Right:18.8

:C90/270Left:18.8 Right:18.8





| | |
|-------------------|---|
| (10%Imax) 176.813 | — |
| (20%Imax) 353.626 | — |
| (30%Imax) 530.44 | — |
| (40%Imax) 707.253 | — |
| (50%Imax) 884.066 | — |
| (60%Imax) 1060.88 | — |
| (70%Imax) 1237.69 | — |
| (80%Imax) 1414.51 | — |
| (90%Imax) 1591.32 | — |



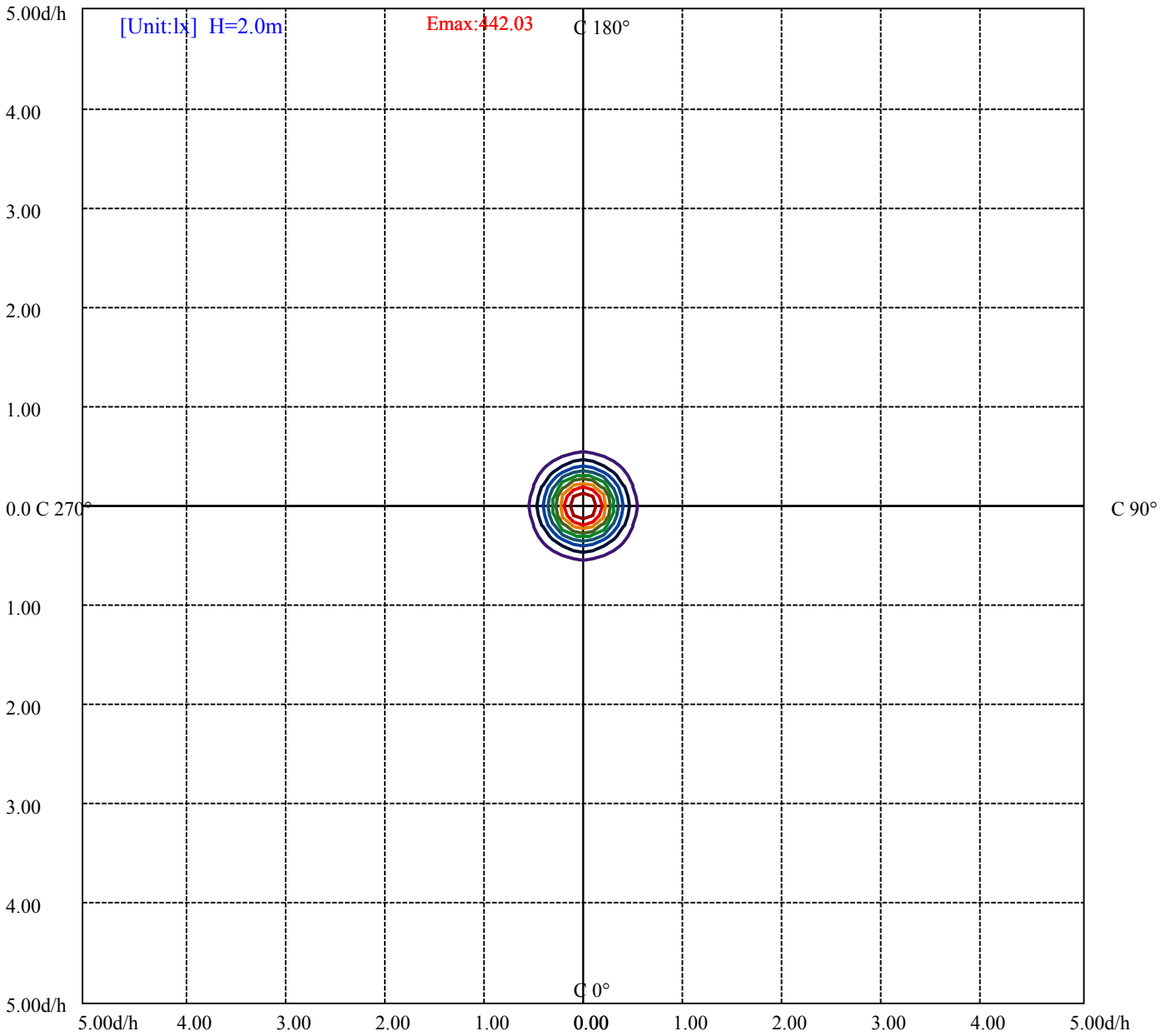
House

[Unit:cd]

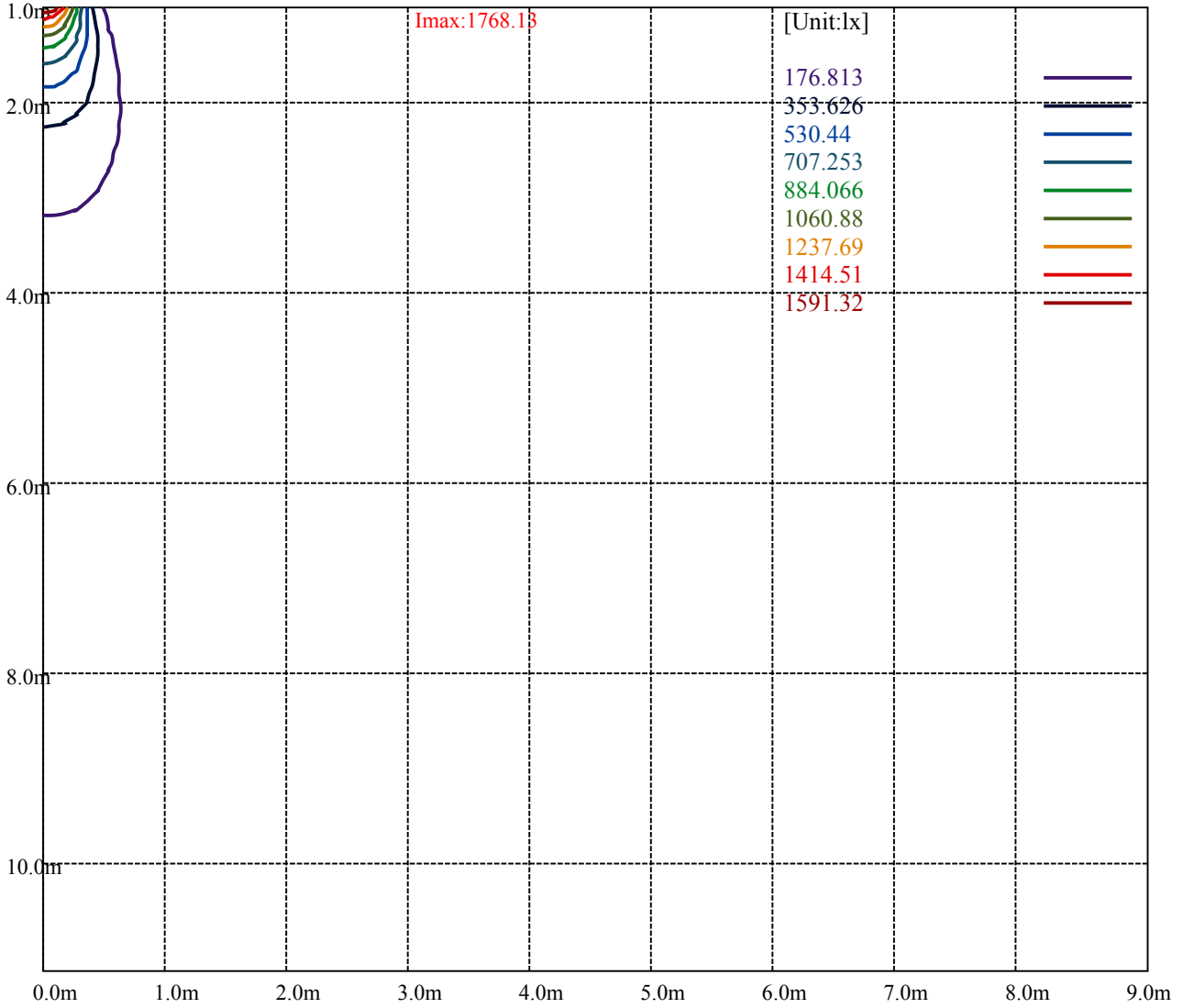
Road

Imax:1768.13

| | | |
|-----------|---------|---|
| (10%Imax) | 176.813 | — |
| (20%Imax) | 353.626 | — |
| (30%Imax) | 530.44 | — |
| (40%Imax) | 707.253 | — |
| (50%Imax) | 884.066 | — |
| (60%Imax) | 1060.88 | — |
| (70%Imax) | 1237.69 | — |
| (80%Imax) | 1414.51 | — |
| (90%Imax) | 1591.32 | — |



- (10%Emax) 44.20325
- (20%Emax) 88.4065
- (30%Emax) 132.61
- (40%Emax) 176.8132
- (50%Emax) 221.0165
- (60%Emax) 265.22
- (70%Emax) 309.4225
- (80%Emax) 353.6275
- (90%Emax) 397.83



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

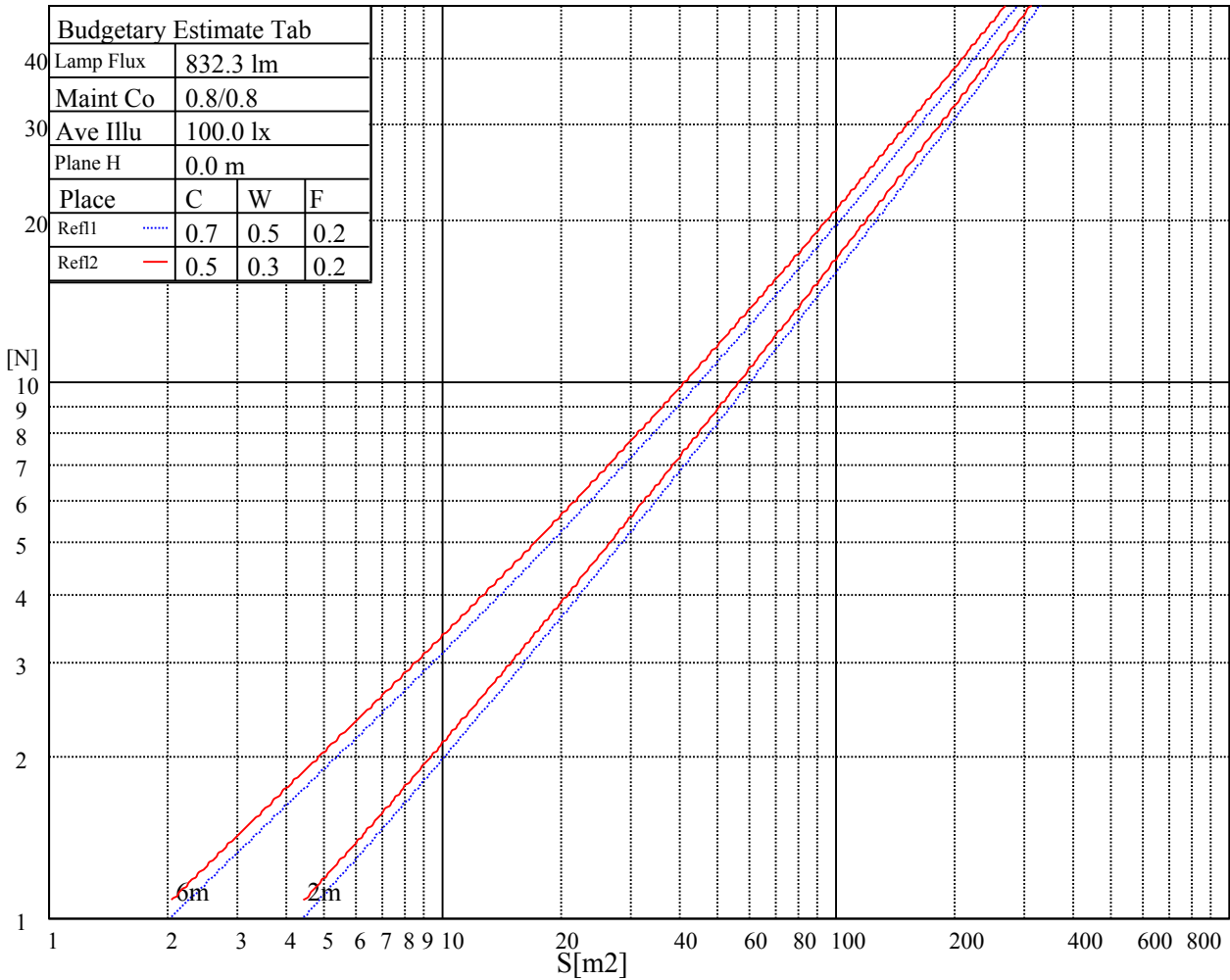
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 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

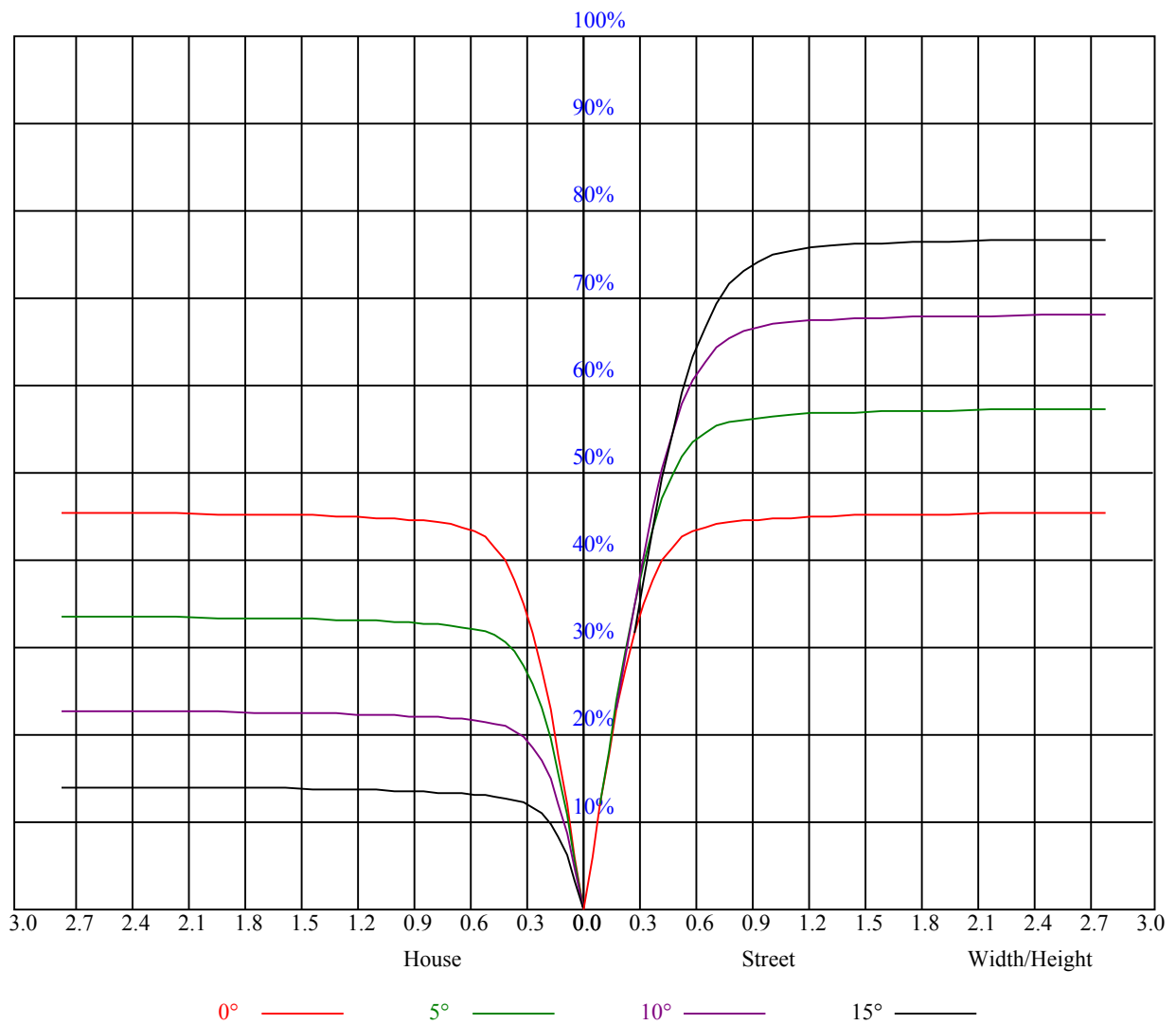


| Illumination assessment according UGR | | | | | | | | | | | |
|---|-----|------------------|-----|-----|-----|-----|----------------|-----|-----|-----|--|
| Rf of Ceiling | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | |
| Rf of Wall | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | |
| Rf of 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 | 1.07 | 1.07 | 1.07 | 1.02 | 1.02 | 1.02 | 0.97 | 0.97 | 0.97 | 0.93 | 0.93 | 0.93 | 0.92 |
| 1 | 1.02 | 1.00 | 0.98 | 1.00 | 0.98 | 0.97 | 0.97 | 0.95 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 | 0.89 | 0.88 | 0.87 |
| 2 | 0.96 | 0.93 | 0.90 | 0.95 | 0.92 | 0.89 | 0.92 | 0.89 | 0.87 | 0.89 | 0.87 | 0.85 | 0.87 | 0.85 | 0.84 | 0.82 |
| 3 | 0.91 | 0.87 | 0.84 | 0.90 | 0.86 | 0.83 | 0.88 | 0.85 | 0.82 | 0.85 | 0.83 | 0.81 | 0.83 | 0.81 | 0.80 | 0.78 |
| 4 | 0.87 | 0.82 | 0.79 | 0.86 | 0.82 | 0.78 | 0.84 | 0.80 | 0.78 | 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 | 0.76 | 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 | 0.67 | 0.64 | 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 | 0.67 | 0.64 | 0.61 | 0.67 | 0.64 | 0.61 | 0.60 |
| 10 | 0.67 | 0.62 | 0.59 | 0.66 | 0.62 | 0.59 | 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 | 1772.42 | 1770.21 | 1759.69 | 1746.96 | 1732.57 | 1706.00 | 1676.66 | 1640.13 | 1597.50 |
| 45.0 | 1765.78 | 1764.12 | 1758.58 | 1750.83 | 1740.32 | 1724.82 | 1701.02 | 1663.93 | 1629.61 |
| 90.0 | 1764.67 | 1758.03 | 1746.96 | 1737.00 | 1721.50 | 1693.27 | 1661.72 | 1614.11 | 1569.83 |
| 135.0 | 1769.65 | 1766.33 | 1762.46 | 1756.37 | 1742.53 | 1723.16 | 1693.82 | 1662.27 | 1617.43 |
| 180.0 | 1772.42 | 1767.99 | 1766.89 | 1767.44 | 1765.23 | 1751.94 | 1734.78 | 1710.43 | 1682.20 |
| 225.0 | 1765.78 | 1768.55 | 1775.19 | 1770.76 | 1761.35 | 1744.75 | 1710.98 | 1680.54 | 1643.45 |
| 270.0 | 1764.67 | 1767.99 | 1774.08 | 1780.17 | 1776.85 | 1766.89 | 1753.60 | 1727.59 | 1697.14 |
| 315.0 | 1769.65 | 1775.74 | 1776.30 | 1769.10 | 1760.24 | 1744.19 | 1719.84 | 1692.71 | 1658.39 |
| 360.0 | 1772.42 | 1770.21 | 1759.69 | 1746.96 | 1732.57 | 1706.00 | 1676.66 | 1640.13 | 1597.50 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 1539.38 | 1485.14 | 1424.80 | 1360.04 | 1273.13 | 1096.94 | 1096.94 | 1018.89 | 939.24 |
| 45.0 | 1586.43 | 1539.94 | 1486.24 | 1403.77 | 1336.79 | 1267.04 | 1181.80 | 1111.50 | 1033.45 |
| 90.0 | 1519.46 | 1464.66 | 1387.71 | 1322.40 | 1205.60 | 1101.81 | 1082.38 | 1005.89 | 933.37 |
| 135.0 | 1574.81 | 1525.55 | 1474.07 | 1404.32 | 1340.66 | 1272.58 | 1199.51 | 1105.41 | 1032.90 |
| 180.0 | 1637.91 | 1596.95 | 1552.67 | 1500.64 | 1428.68 | 1362.25 | 1290.85 | 1202.28 | 1129.21 |
| 225.0 | 1598.06 | 1534.40 | 1476.83 | 1415.39 | 1350.63 | 1265.94 | 1097.50 | 1097.50 | 1021.99 |
| 270.0 | 1661.72 | 1606.36 | 1555.99 | 1500.08 | 1420.93 | 1353.40 | 1281.99 | 1192.32 | 1116.48 |
| 315.0 | 1608.58 | 1561.53 | 1506.17 | 1430.34 | 1364.47 | 1275.90 | 1100.98 | 1100.98 | 1042.81 |
| 360.0 | 1539.38 | 1485.14 | 1424.80 | 1360.04 | 1273.13 | 1096.94 | 1096.94 | 1018.89 | 939.24 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 839.88 | 764.54 | 694.41 | 608.11 | 542.02 | 475.76 | 413.49 | 344.91 | 295.81 |
| 45.0 | 937.69 | 859.64 | 768.31 | 698.01 | 631.03 | 566.82 | 488.22 | 426.78 | 369.76 |
| 90.0 | 860.14 | 769.25 | 700.94 | 617.30 | 553.20 | 488.38 | 411.44 | 355.26 | 306.60 |
| 135.0 | 958.72 | 883.44 | 789.34 | 715.17 | 628.82 | 564.05 | 500.95 | 421.79 | 362.57 |
| 180.0 | 1055.04 | 959.28 | 879.02 | 804.29 | 715.72 | 644.32 | 576.78 | 513.13 | 431.20 |
| 225.0 | 943.56 | 844.47 | 767.70 | 695.46 | 627.60 | 548.33 | 485.89 | 425.78 | 367.99 |
| 270.0 | 1038.99 | 962.60 | 862.41 | 784.91 | 714.61 | 645.42 | 566.82 | 503.72 | 445.04 |
| 315.0 | 946.71 | 865.56 | 787.96 | 714.23 | 627.77 | 563.78 | 501.34 | 439.84 | 369.87 |
| 360.0 | 839.88 | 764.54 | 694.41 | 608.11 | 542.02 | 475.76 | 413.49 | 344.91 | 295.81 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 252.97 | 214.00 | 171.65 | 140.16 | 105.67 | 82.20 | 65.04 | 51.20 | 44.34 |
| 45.0 | 317.73 | 282.86 | 282.86 | 184.38 | 152.39 | 115.80 | 90.95 | 72.07 | 57.29 |
| 90.0 | 250.31 | 212.78 | 177.74 | 146.08 | 110.10 | 86.46 | 69.80 | 58.67 | 49.93 |
| 135.0 | 309.43 | 285.62 | 285.62 | 172.92 | 142.20 | 114.36 | 86.24 | 70.02 | 58.51 |
| 180.0 | 373.64 | 319.94 | 284.52 | 284.52 | 181.95 | 149.79 | 115.25 | 92.05 | 74.73 |
| 225.0 | 306.55 | 263.93 | 229.39 | 186.43 | 155.32 | 125.93 | 94.71 | 76.06 | 59.67 |
| 270.0 | 373.64 | 324.37 | 279.54 | 279.54 | 190.97 | 158.64 | 120.73 | 95.21 | 74.23 |
| 315.0 | 319.06 | 275.44 | 224.68 | 188.81 | 149.51 | 119.79 | 94.43 | 73.51 | 55.63 |
| 360.0 | 252.97 | 214.00 | 171.65 | 140.16 | 105.67 | 82.20 | 65.04 | 51.20 | 44.34 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 38.75 | 34.32 | 29.56 | 26.35 | 23.53 | 21.15 | 18.43 | 16.66 | 15.11 |
| 45.0 | 50.04 | 42.62 | 37.70 | 33.38 | 29.67 | 25.79 | 23.08 | 20.65 | 18.43 |
| 90.0 | 44.17 | 38.19 | 33.82 | 30.17 | 26.24 | 23.53 | 21.03 | 18.88 | 16.72 |
| 135.0 | 48.66 | 42.62 | 37.53 | 32.22 | 28.56 | 24.80 | 22.25 | 19.98 | 18.05 |
| 180.0 | 60.17 | 52.48 | 46.05 | 39.69 | 35.32 | 31.39 | 27.34 | 24.63 | 22.20 |
| 225.0 | 51.76 | 45.45 | 40.08 | 35.59 | 30.78 | 27.62 | 24.85 | 22.36 | 19.54 |
| 270.0 | 56.96 | 48.49 | 42.01 | 36.64 | 31.44 | 27.95 | 24.96 | 22.47 | 19.71 |
| 315.0 | 47.38 | 41.24 | 36.26 | 31.22 | 27.73 | 24.85 | 21.70 | 19.60 | 17.71 |
| 360.0 | 38.75 | 34.32 | 29.56 | 26.35 | 23.53 | 21.15 | 18.43 | 16.66 | 15.11 |

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 | 13.56 | 12.45 | 11.51 | 10.57 | 9.91 | 9.35 | 8.75 | 8.30 | 7.92 |
| 45.0 | 16.27 | 14.83 | 13.56 | 12.23 | 11.29 | 10.52 | 9.74 | 9.19 | 8.69 |
| 90.0 | 15.22 | 13.89 | 12.79 | 11.62 | 10.79 | 10.13 | 9.41 | 8.86 | 8.41 |
| 135.0 | 16.05 | 14.72 | 13.51 | 12.45 | 11.62 | 10.63 | 10.02 | 9.41 | 8.86 |
| 180.0 | 20.04 | 17.71 | 16.27 | 14.95 | 13.84 | 12.62 | 11.79 | 10.90 | 10.24 |
| 225.0 | 17.71 | 15.83 | 14.50 | 13.40 | 12.18 | 11.29 | 10.63 | 9.80 | 9.24 |
| 270.0 | 17.77 | 15.72 | 14.39 | 13.28 | 12.07 | 11.18 | 10.46 | 9.85 | 9.19 |
| 315.0 | 15.78 | 14.45 | 13.17 | 12.23 | 11.40 | 10.68 | 10.07 | 9.47 | 8.97 |
| 360.0 | 13.56 | 12.45 | 11.51 | 10.57 | 9.91 | 9.35 | 8.75 | 8.30 | 7.92 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 7.58 | 7.25 | 6.97 | 6.70 | 6.48 | 6.25 | 6.03 | 5.87 | 5.70 |
| 45.0 | 8.19 | 7.80 | 7.47 | 7.14 | 6.86 | 6.64 | 6.37 | 6.14 | 5.98 |
| 90.0 | 7.92 | 7.58 | 7.25 | 6.92 | 6.70 | 6.48 | 6.25 | 5.98 | 5.87 |
| 135.0 | 8.41 | 7.97 | 7.58 | 7.31 | 6.97 | 6.70 | 6.48 | 6.25 | 6.03 |
| 180.0 | 9.69 | 9.24 | 8.69 | 8.30 | 7.92 | 7.58 | 7.31 | 7.03 | 6.75 |
| 225.0 | 8.75 | 8.36 | 7.86 | 7.53 | 7.20 | 6.97 | 6.64 | 6.42 | 6.20 |
| 270.0 | 8.69 | 8.25 | 7.92 | 7.47 | 7.20 | 6.92 | 6.64 | 6.42 | 6.14 |
| 315.0 | 8.52 | 8.19 | 7.75 | 7.42 | 7.14 | 6.86 | 6.64 | 6.37 | 6.20 |
| 360.0 | 7.58 | 7.25 | 6.97 | 6.70 | 6.48 | 6.25 | 6.03 | 5.87 | 5.70 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 5.54 | 5.42 | 5.26 | 5.15 | 4.98 | 4.93 | 4.82 | 4.71 | 4.59 |
| 45.0 | 5.81 | 5.59 | 5.48 | 5.31 | 5.15 | 5.04 | 4.93 | 4.82 | 4.71 |
| 90.0 | 5.65 | 5.48 | 5.31 | 5.20 | 5.09 | 4.98 | 4.87 | 4.76 | 4.59 |
| 135.0 | 5.87 | 5.70 | 5.54 | 5.37 | 5.20 | 5.09 | 4.93 | 4.82 | 4.65 |
| 180.0 | 6.48 | 6.31 | 6.09 | 5.92 | 5.70 | 5.54 | 5.42 | 5.26 | 5.09 |
| 225.0 | 5.98 | 5.81 | 5.59 | 5.48 | 5.31 | 5.20 | 5.09 | 4.98 | 4.82 |
| 270.0 | 5.98 | 5.81 | 5.65 | 5.48 | 5.37 | 5.26 | 5.09 | 4.98 | 4.87 |
| 315.0 | 5.98 | 5.81 | 5.65 | 5.54 | 5.37 | 5.26 | 5.09 | 5.04 | 4.93 |
| 360.0 | 5.54 | 5.42 | 5.26 | 5.15 | 4.98 | 4.93 | 4.82 | 4.71 | 4.59 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 4.48 | 4.43 | 4.32 | 4.21 | 4.15 | 4.04 | 3.93 | 3.82 | 3.76 |
| 45.0 | 4.65 | 4.54 | 4.43 | 4.32 | 4.21 | 4.15 | 4.04 | 3.93 | 3.87 |
| 90.0 | 4.54 | 4.43 | 4.32 | 4.21 | 4.15 | 4.04 | 3.93 | 3.87 | 3.82 |
| 135.0 | 4.59 | 4.48 | 4.43 | 4.26 | 4.21 | 4.10 | 4.04 | 3.93 | 3.87 |
| 180.0 | 4.98 | 4.82 | 4.71 | 4.54 | 4.43 | 4.32 | 4.21 | 4.10 | 3.99 |
| 225.0 | 4.71 | 4.59 | 4.48 | 4.37 | 4.26 | 4.15 | 4.04 | 3.99 | 3.87 |
| 270.0 | 4.76 | 4.71 | 4.59 | 4.48 | 4.37 | 4.26 | 4.15 | 4.04 | 3.99 |
| 315.0 | 4.82 | 4.65 | 4.59 | 4.43 | 4.32 | 4.26 | 4.21 | 4.10 | 3.99 |
| 360.0 | 4.48 | 4.43 | 4.32 | 4.21 | 4.15 | 4.04 | 3.93 | 3.82 | 3.76 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 3.71 | 3.65 | 3.60 | 3.54 | 3.43 | 3.43 | 3.38 | 3.32 | 3.27 |
| 45.0 | 3.76 | 3.71 | 3.65 | 3.60 | 3.49 | 3.49 | 3.43 | 3.38 | 3.27 |
| 90.0 | 3.76 | 3.71 | 3.60 | 3.54 | 3.49 | 3.49 | 3.43 | 3.32 | 3.43 |
| 135.0 | 3.82 | 3.71 | 3.65 | 3.60 | 3.54 | 3.49 | 3.49 | 3.38 | 3.38 |
| 180.0 | 3.93 | 3.82 | 3.71 | 3.71 | 3.65 | 3.54 | 3.49 | 3.43 | 3.43 |
| 225.0 | 3.82 | 3.71 | 3.65 | 3.60 | 3.54 | 3.49 | 3.43 | 3.43 | 3.27 |
| 270.0 | 3.93 | 3.82 | 3.76 | 3.65 | 3.60 | 3.54 | 3.43 | 3.43 | 3.38 |
| 315.0 | 3.87 | 3.82 | 3.76 | 3.65 | 3.60 | 3.49 | 3.43 | 3.43 | 3.38 |
| 360.0 | 3.71 | 3.65 | 3.60 | 3.54 | 3.43 | 3.43 | 3.38 | 3.32 | 3.27 |

Intensity data(cd)

| | |
|---------------|-------------|
| C/γ(°) | 90.0 |
| 0.0 | 3.27 |
| 45.0 | 3.32 |
| 90.0 | 3.43 |
| 135.0 | 3.43 |
| 180.0 | 3.27 |
| 225.0 | 3.27 |
| 270.0 | 3.32 |
| 315.0 | 3.32 |
| 360.0 | 3.27 |