



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

NATA

Client:

LumCAT: 2-2639-L

Luminaire: 92.70.411.00

Report No: 2023718-B010

Ballast type: AC

Test No: 2023718-C010

Voltage(V): 35.530

LampCAT: SLM C 1205 L13 2024 G7 HE+

Current(A): 0.480

Lamp flux(lm): 2636.6

Power (W): 17.054

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2494.97, Efficiency(%): 94.63% , Luminous Efficacy(lm/W): 146.30

Central intensity(cd): 11338.470, Maximum intensity(cd): 11470.840

Angle of maximum intensity: C=0.0 γ =1.0

Beam Angle(50%Imax): [C0/180]Total=19.8

[C90/270]Total=19.8

Field angle(10%Imax): [C0/180]Total=51.6

[C90/270]Total=51.6

Maximum s/h(1/2): C0_180=0.34 C90_270=0.34

Maximum s/h(1/4): C0_180=0.37 C90_270=0.37

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 94.63%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.994%

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 11338.465 | 0.000 | 0 | 0.00% | 0.00% |
| 1.0 | 11470.843 | 10.914 | 10.914 | 0.41% | 0.44% |
| 2.0 | 11111.862 | 32.413 | 43.327 | 1.23% | 1.74% |
| 3.0 | 10753.516 | 52.295 | 95.621 | 1.98% | 3.83% |
| 4.0 | 10200.672 | 70.140 | 165.762 | 2.66% | 6.64% |
| 5.0 | 9480.729 | 84.668 | 250.43 | 3.21% | 10.04% |
| 6.0 | 8642.814 | 95.244 | 345.674 | 3.61% | 13.85% |
| 7.0 | 7890.351 | 102.621 | 448.295 | 3.89% | 17.97% |
| 8.0 | 7074.162 | 107.098 | 555.393 | 4.06% | 22.26% |
| 9.0 | 6291.186 | 108.319 | 663.712 | 4.11% | 26.60% |
| 10.0 | 5574.218 | 107.378 | 771.09 | 4.07% | 30.91% |
| 11.0 | 4909.283 | 104.752 | 875.842 | 3.97% | 35.10% |
| 12.0 | 4283.026 | 100.485 | 976.327 | 3.81% | 39.13% |
| 13.0 | 3776.887 | 95.651 | 1071.978 | 3.63% | 42.97% |
| 14.0 | 3313.024 | 90.750 | 1162.728 | 3.44% | 46.60% |
| 15.0 | 2934.474 | 85.768 | 1248.496 | 3.25% | 50.04% |
| 16.0 | 2661.719 | 82.000 | 1330.496 | 3.11% | 53.33% |
| 17.0 | 2395.946 | 78.761 | 1409.258 | 2.99% | 56.48% |
| 18.0 | 2186.633 | 75.557 | 1484.814 | 2.87% | 59.51% |
| 19.0 | 1908.606 | 71.249 | 1556.063 | 2.70% | 62.37% |
| 20.0 | 1751.817 | 66.996 | 1623.059 | 2.54% | 65.05% |
| 21.0 | 1623.120 | 64.806 | 1687.865 | 2.46% | 67.65% |
| 22.0 | 1489.994 | 62.559 | 1750.424 | 2.37% | 70.16% |
| 23.0 | 1363.802 | 59.880 | 1810.304 | 2.27% | 72.56% |
| 24.0 | 1286.307 | 57.941 | 1868.245 | 2.20% | 74.88% |
| 25.0 | 1202.031 | 56.579 | 1924.825 | 2.15% | 77.15% |
| 26.0 | 1113.306 | 54.654 | 1979.478 | 2.07% | 79.34% |
| 27.0 | 1041.485 | 52.717 | 2032.196 | 2.00% | 81.45% |
| 28.0 | 960.489 | 50.686 | 2082.882 | 1.92% | 83.48% |
| 29.0 | 865.239 | 47.766 | 2130.648 | 1.81% | 85.40% |
| 30.0 | 764.177 | 43.994 | 2174.642 | 1.67% | 87.16% |
| 31.0 | 667.523 | 39.842 | 2214.484 | 1.51% | 88.76% |
| 32.0 | 563.832 | 35.277 | 2249.761 | 1.34% | 90.17% |
| 33.0 | 468.478 | 30.412 | 2280.173 | 1.15% | 91.39% |
| 34.0 | 381.587 | 25.725 | 2305.898 | 0.98% | 92.42% |
| 35.0 | 306.853 | 21.380 | 2327.279 | 0.81% | 93.28% |
| 36.0 | 235.197 | 17.259 | 2344.538 | 0.65% | 93.97% |
| 37.0 | 182.556 | 13.625 | 2358.163 | 0.52% | 94.52% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 140.702 | 10.790 | 2368.952 | 0.41% | 94.95% |
| 39.0 | 92.641 | 7.965 | 2376.917 | 0.30% | 95.27% |
| 40.0 | 68.140 | 5.607 | 2382.525 | 0.21% | 95.49% |
| 41.0 | 58.945 | 4.525 | 2387.05 | 0.17% | 95.67% |
| 42.0 | 53.465 | 4.084 | 2391.134 | 0.15% | 95.84% |
| 43.0 | 48.663 | 3.783 | 2394.917 | 0.14% | 95.99% |
| 44.0 | 44.733 | 3.525 | 2398.442 | 0.13% | 96.13% |
| 45.0 | 41.128 | 3.300 | 2401.742 | 0.13% | 96.26% |
| 46.0 | 38.519 | 3.115 | 2404.857 | 0.12% | 96.39% |
| 47.0 | 36.561 | 2.986 | 2407.843 | 0.11% | 96.51% |
| 48.0 | 35.039 | 2.894 | 2410.737 | 0.11% | 96.62% |
| 49.0 | 33.586 | 2.818 | 2413.555 | 0.11% | 96.74% |
| 50.0 | 32.513 | 2.756 | 2416.311 | 0.10% | 96.85% |
| 51.0 | 31.635 | 2.714 | 2419.025 | 0.10% | 96.96% |
| 52.0 | 31.033 | 2.689 | 2421.714 | 0.10% | 97.06% |
| 53.0 | 30.638 | 2.683 | 2424.397 | 0.10% | 97.17% |
| 54.0 | 30.583 | 2.698 | 2427.095 | 0.10% | 97.28% |
| 55.0 | 30.922 | 2.745 | 2429.841 | 0.10% | 97.39% |
| 56.0 | 31.586 | 2.825 | 2432.665 | 0.11% | 97.50% |
| 57.0 | 32.423 | 2.927 | 2435.592 | 0.11% | 97.62% |
| 58.0 | 33.184 | 3.034 | 2438.626 | 0.12% | 97.74% |
| 59.0 | 33.697 | 3.127 | 2441.753 | 0.12% | 97.87% |
| 60.0 | 33.558 | 3.177 | 2444.93 | 0.12% | 97.99% |
| 61.0 | 32.520 | 3.153 | 2448.083 | 0.12% | 98.12% |
| 62.0 | 30.168 | 3.021 | 2451.104 | 0.11% | 98.24% |
| 63.0 | 27.414 | 2.800 | 2453.905 | 0.11% | 98.35% |
| 64.0 | 24.418 | 2.543 | 2456.448 | 0.10% | 98.46% |
| 65.0 | 21.636 | 2.279 | 2458.727 | 0.09% | 98.55% |
| 66.0 | 19.450 | 2.050 | 2460.777 | 0.08% | 98.63% |
| 67.0 | 18.184 | 1.892 | 2462.669 | 0.07% | 98.71% |
| 68.0 | 17.250 | 1.795 | 2464.464 | 0.07% | 98.78% |
| 69.0 | 16.613 | 1.728 | 2466.192 | 0.07% | 98.85% |
| 70.0 | 16.094 | 1.680 | 2467.872 | 0.06% | 98.91% |
| 71.0 | 15.617 | 1.639 | 2469.511 | 0.06% | 98.98% |
| 72.0 | 15.188 | 1.602 | 2471.112 | 0.06% | 99.04% |
| 73.0 | 14.793 | 1.568 | 2472.68 | 0.06% | 99.11% |
| 74.0 | 14.420 | 1.536 | 2474.216 | 0.06% | 99.17% |
| 75.0 | 14.067 | 1.505 | 2475.721 | 0.06% | 99.23% |

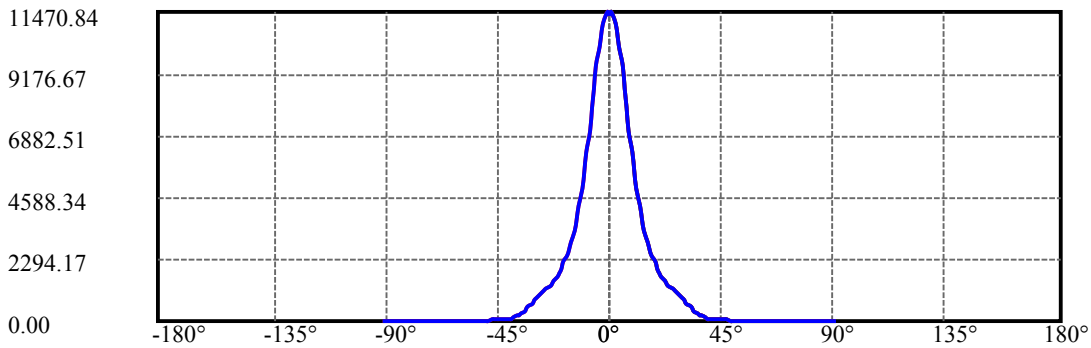
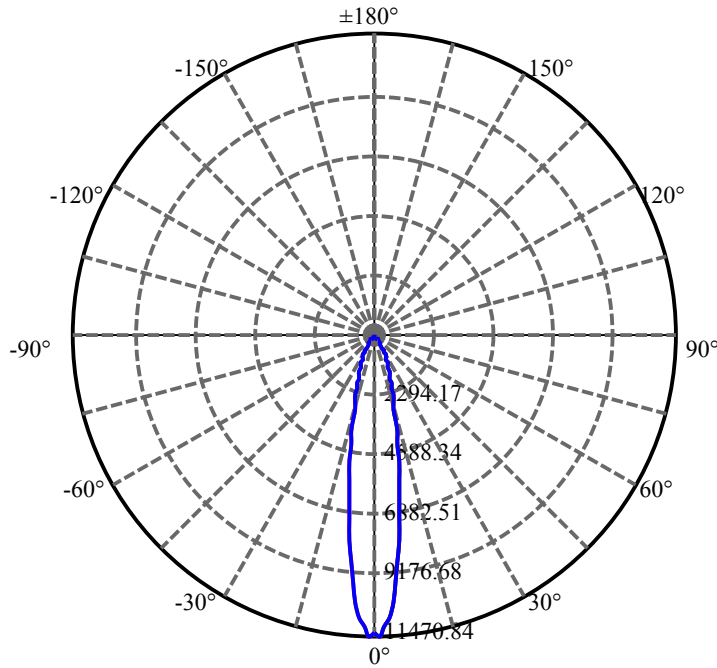
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 13.748 | 1.477 | 2477.198 | 0.06% | 99.29% |
| 77.0 | 13.458 | 1.451 | 2478.648 | 0.06% | 99.35% |
| 78.0 | 13.153 | 1.425 | 2480.073 | 0.05% | 99.40% |
| 79.0 | 12.849 | 1.397 | 2481.47 | 0.05% | 99.46% |
| 80.0 | 12.551 | 1.369 | 2482.839 | 0.05% | 99.51% |
| 81.0 | 12.219 | 1.340 | 2484.179 | 0.05% | 99.57% |
| 82.0 | 11.908 | 1.308 | 2485.487 | 0.05% | 99.62% |
| 83.0 | 11.576 | 1.277 | 2486.764 | 0.05% | 99.67% |
| 84.0 | 11.285 | 1.245 | 2488.009 | 0.05% | 99.72% |
| 85.0 | 11.029 | 1.218 | 2489.227 | 0.05% | 99.77% |
| 86.0 | 10.780 | 1.192 | 2490.419 | 0.05% | 99.82% |
| 87.0 | 10.538 | 1.167 | 2491.586 | 0.04% | 99.86% |
| 88.0 | 10.330 | 1.143 | 2492.729 | 0.04% | 99.91% |
| 89.0 | 10.185 | 1.124 | 2493.853 | 0.04% | 99.96% |
| 90.0 | 10.102 | 1.112 | 2494.966 | 0.04% | 100.00% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 2174.64 | 82.48% | 87.16% |
| 0-40 | 2382.52 | 90.36% | 95.49% |
| 0-60 | 2444.93 | 92.73% | 97.99% |
| 0-90 | 2493.85 | 94.59% | 99.96% |
| 0-120 | 2493.85 | 94.59% | 99.96% |
| 0-180 | 2494.97 | 94.63% | 100.00% |
| 60-90 | 48.92 | 1.86% | 1.96% |
| 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% |
| 0-26.31 | 1995.97 | 75.70% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 771.09 |
| 10-20 | 851.97 |
| 20-30 | 551.58 |
| 30-40 | 207.88 |
| 40-50 | 33.79 |
| 50-60 | 28.62 |
| 60-70 | 22.94 |
| 70-80 | 14.97 |
| 80-90 | 11.01 |
| 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 |



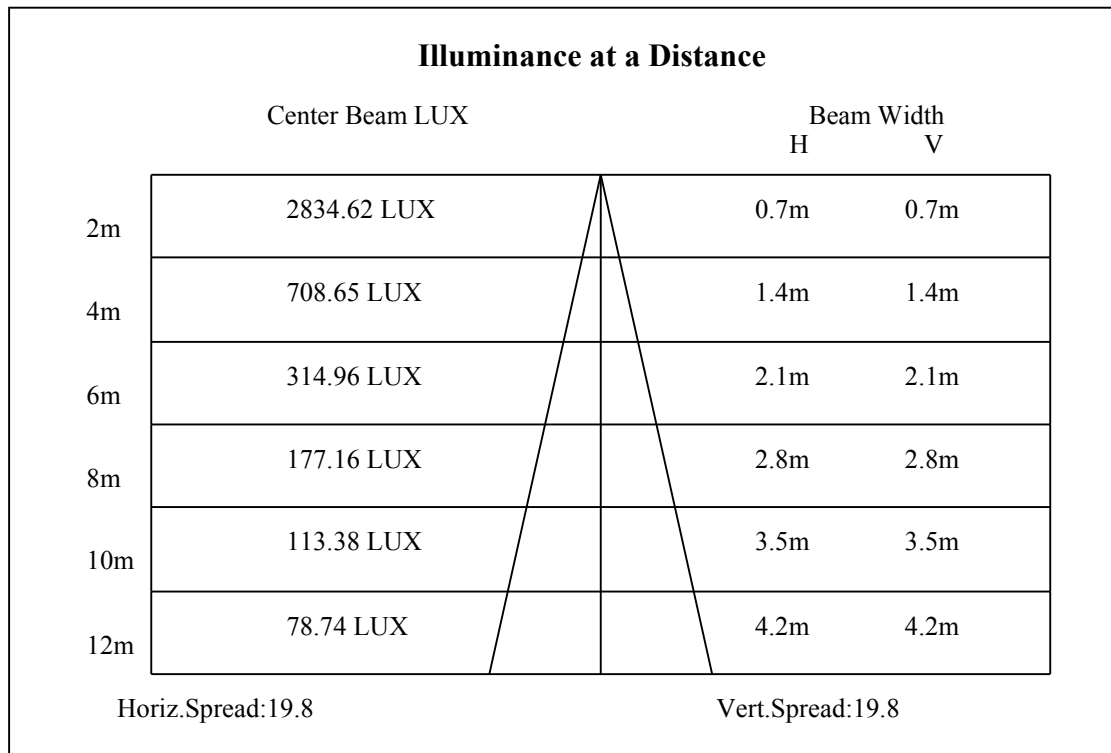
C0(Max): —————

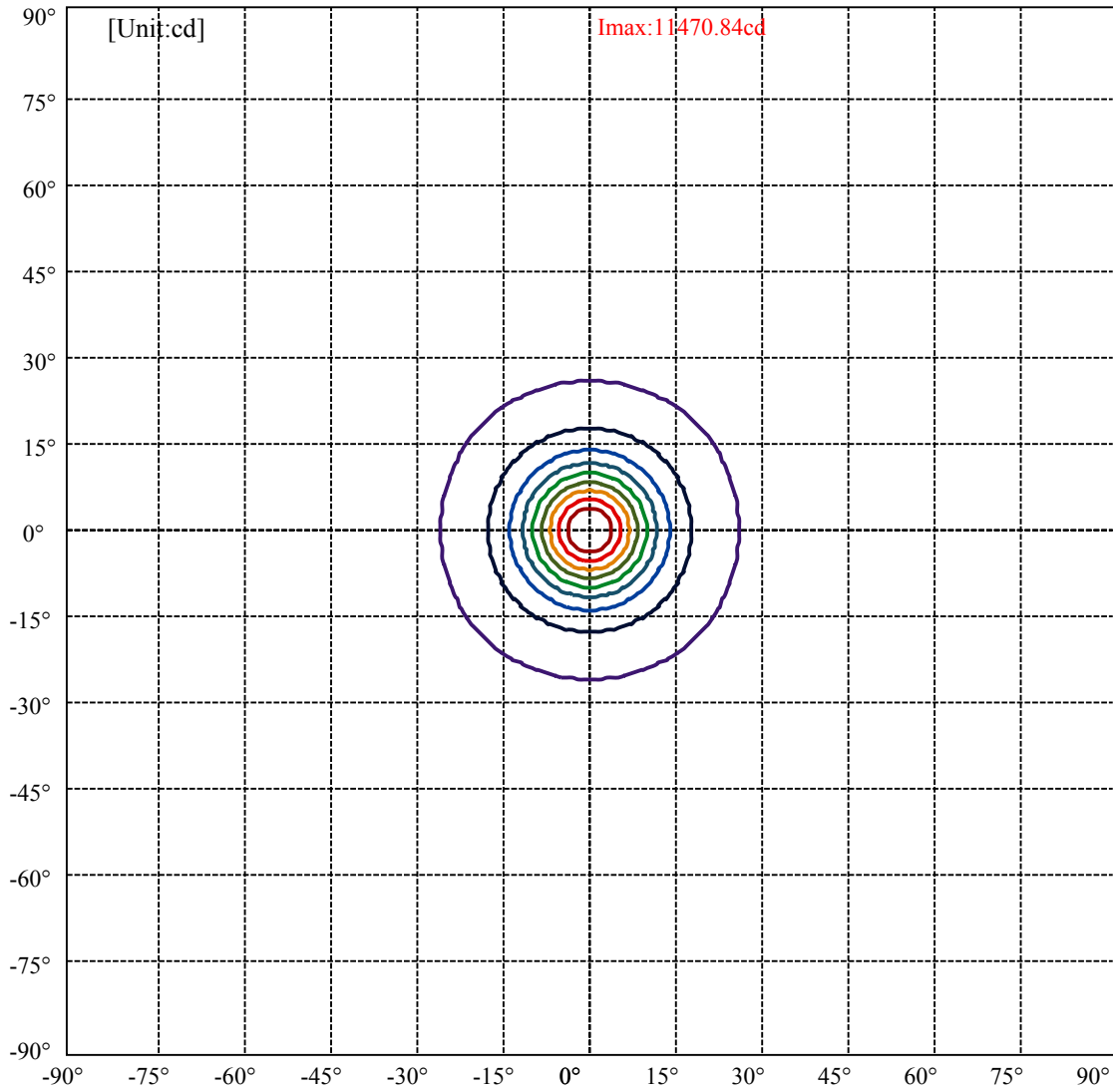
C0/C180: —————

C90/C270: —————

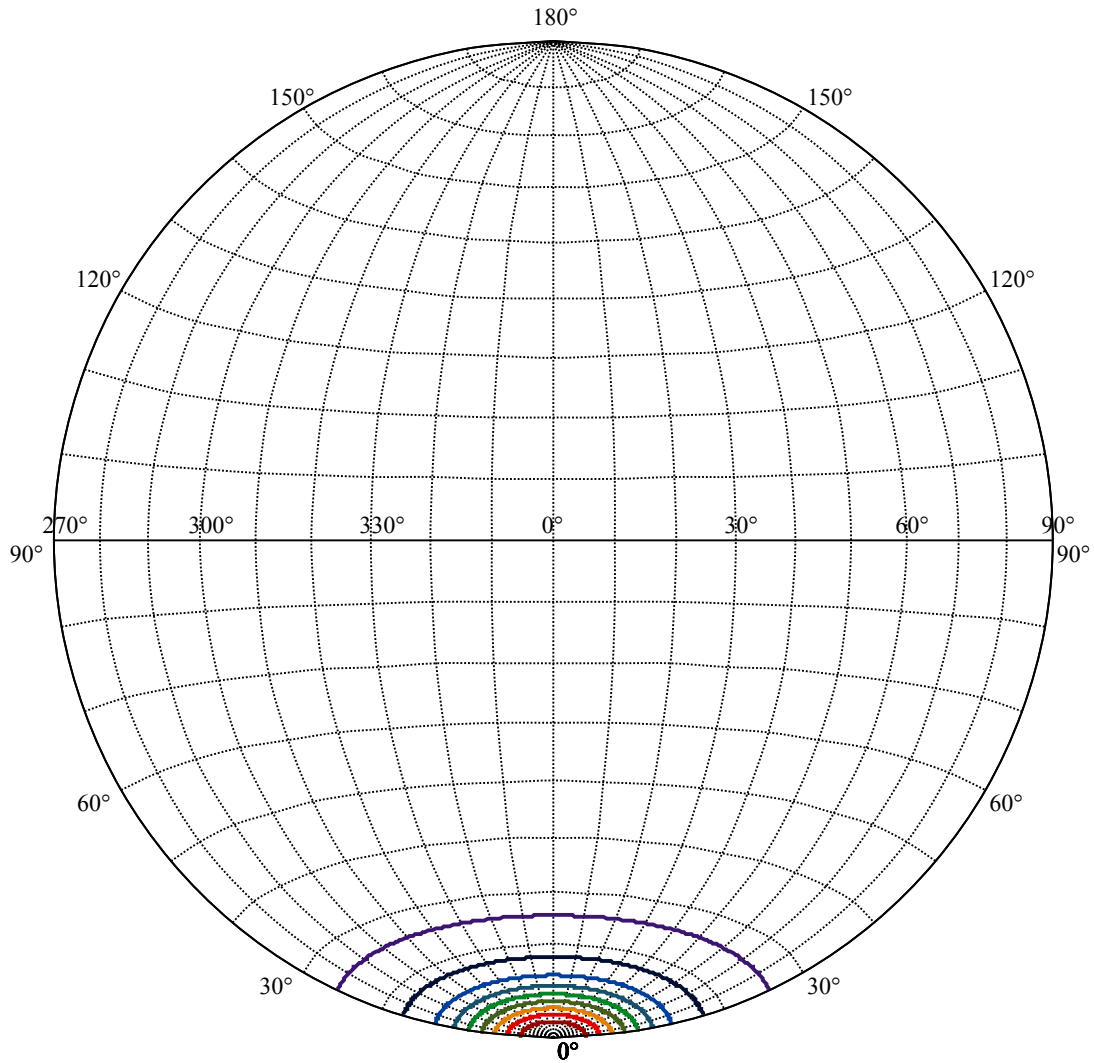
Field angle(10%Imax):C0/180Left:25.8 Right:25.8
:C90/270Left:25.8 Right:25.8

Beam Angle(50%Imax):C0/180Left:9.9 Right:9.9
:C90/270Left:9.9 Right:9.9





| | |
|-------------------|---|
| (10%Imax) 1147.08 | — |
| (20%Imax) 2294.17 | — |
| (30%Imax) 3441.25 | — |
| (40%Imax) 4588.34 | — |
| (50%Imax) 5735.42 | — |
| (60%Imax) 6882.51 | — |
| (70%Imax) 8029.59 | — |
| (80%Imax) 9176.67 | — |
| (90%Imax) 10323.8 | — |



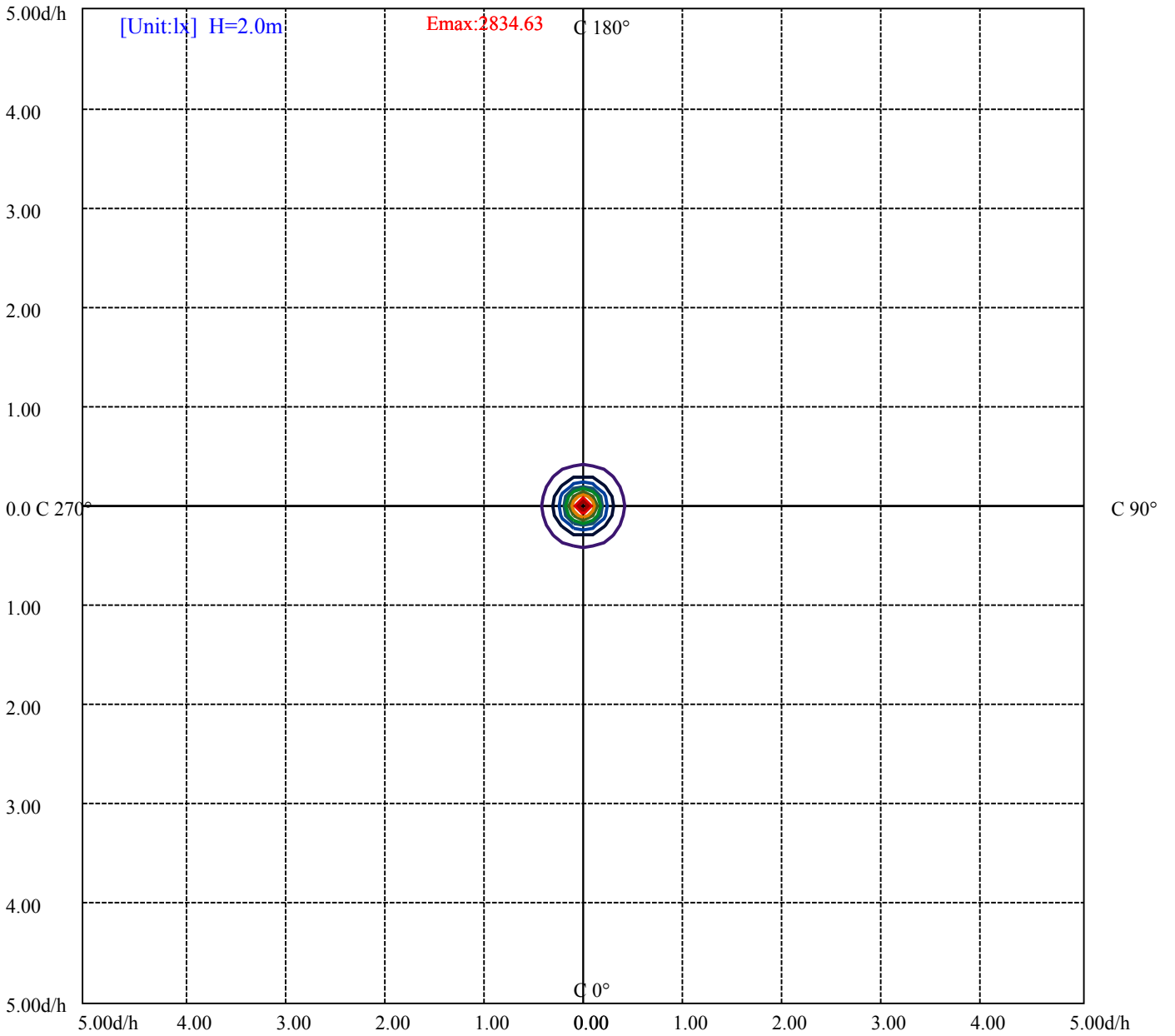
House

[Unit:cd]

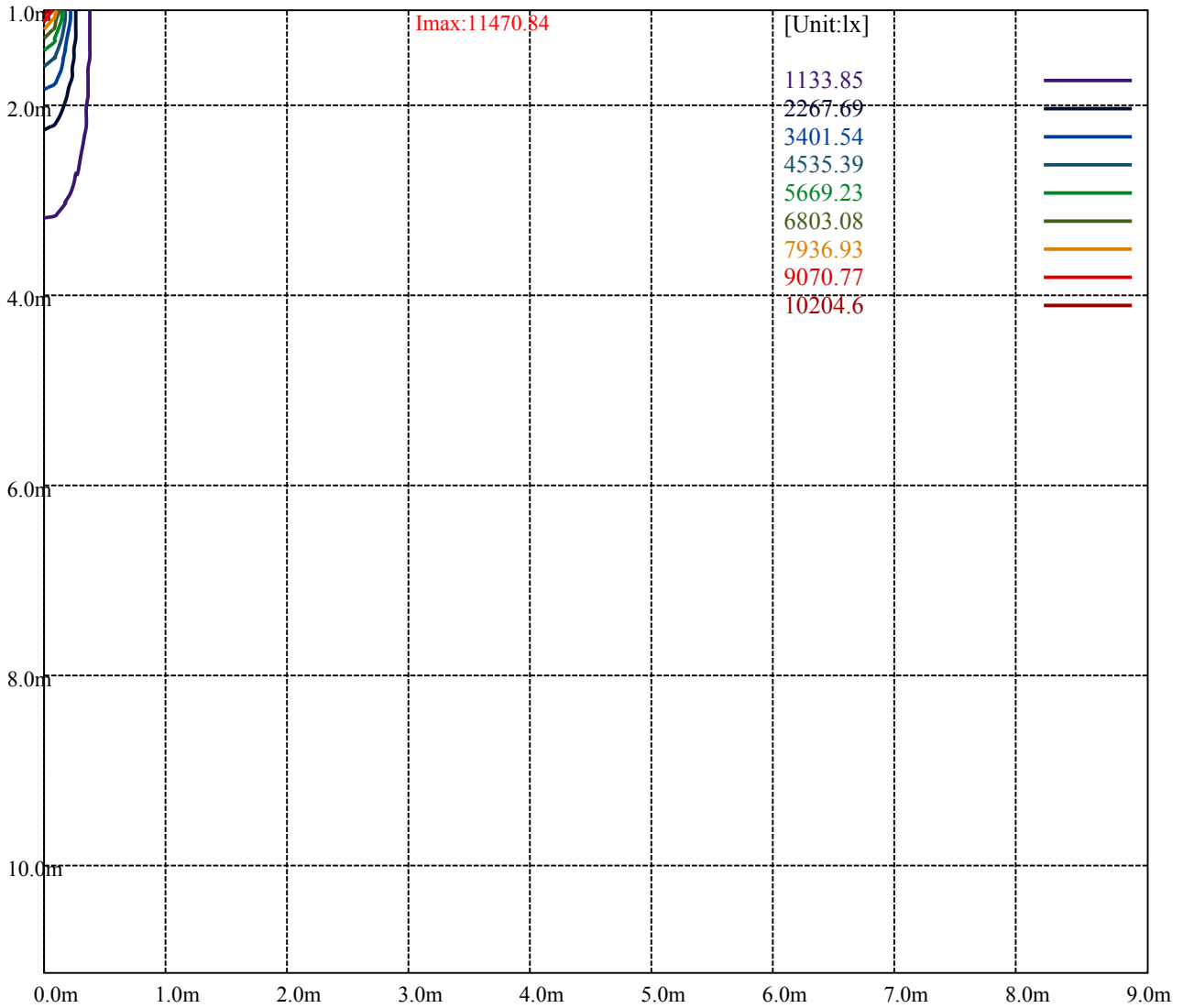
Road

Imax:11470.84

| | | |
|-----------|---------|---|
| (10%Imax) | 1147.08 | — |
| (20%Imax) | 2294.17 | — |
| (30%Imax) | 3441.25 | — |
| (40%Imax) | 4588.34 | — |
| (50%Imax) | 5735.42 | — |
| (60%Imax) | 6882.51 | — |
| (70%Imax) | 8029.59 | — |
| (80%Imax) | 9176.67 | — |
| (90%Imax) | 10323.8 | — |



- (10%Emax) 283.4625
- (20%Emax) 566.925
- (30%Emax) 850.3875
- (40%Emax) 1133.848
- (50%Emax) 1417.31
- (60%Emax) 1700.772
- (70%Emax) 1984.235
- (80%Emax) 2267.698
- (90%Emax) 2551.15



Luminance Table

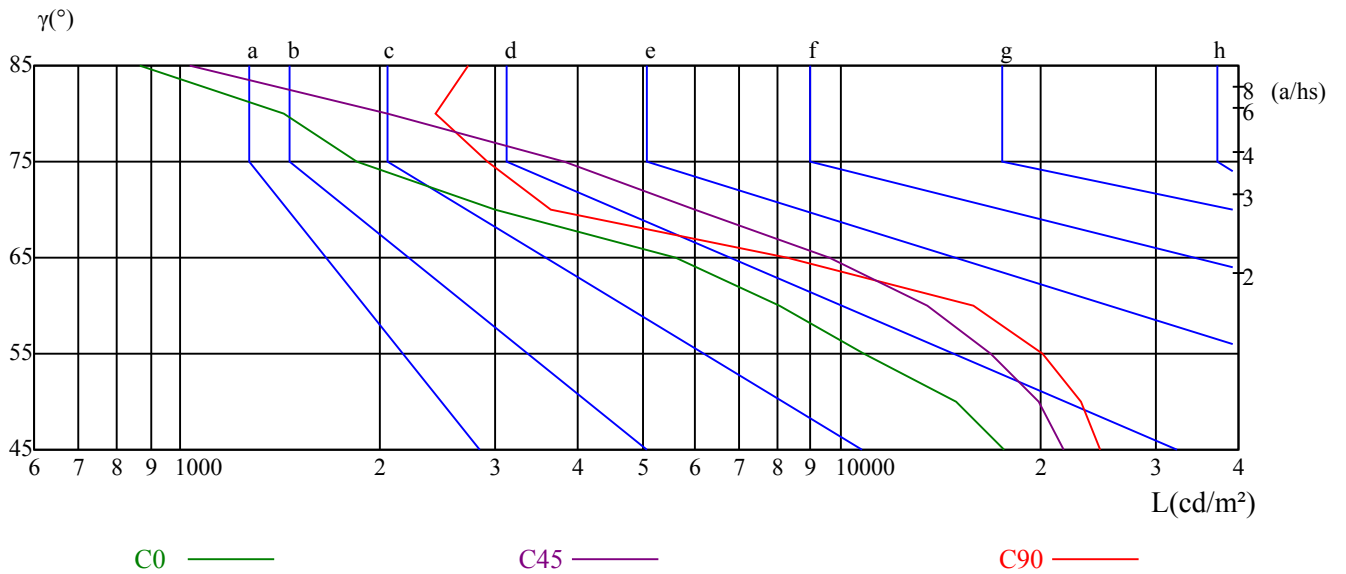
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|-------|-------|-------|-------|------|------|------|------|------|
| C0 | 17707 | 14902 | 10843 | 8081 | 5637 | 2993 | 1851 | 1437 | 868 |
| C45 | 21736 | 19918 | 16903 | 13532 | 9602 | 6004 | 3809 | 2064 | 1031 |
| C90 | 24698 | 23118 | 20255 | 15854 | 8293 | 3645 | 2908 | 2436 | 2724 |

| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 10642 | 10437 | 15758 | 4678 | 3676 | 7686 | 4962 | 3969 | 5458 |

Glare Table

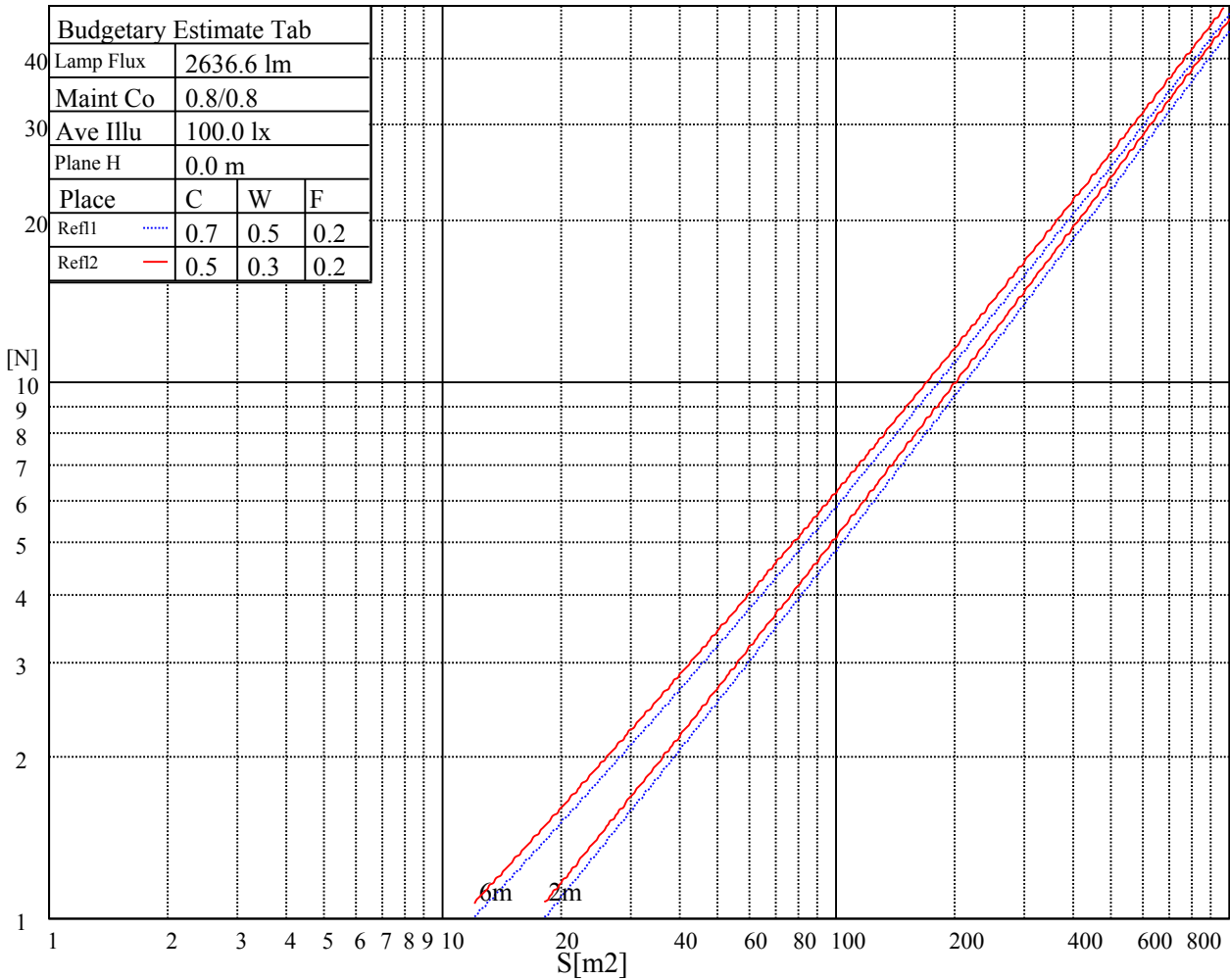
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| | | a | b | c | d | e | f | g | h |
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300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

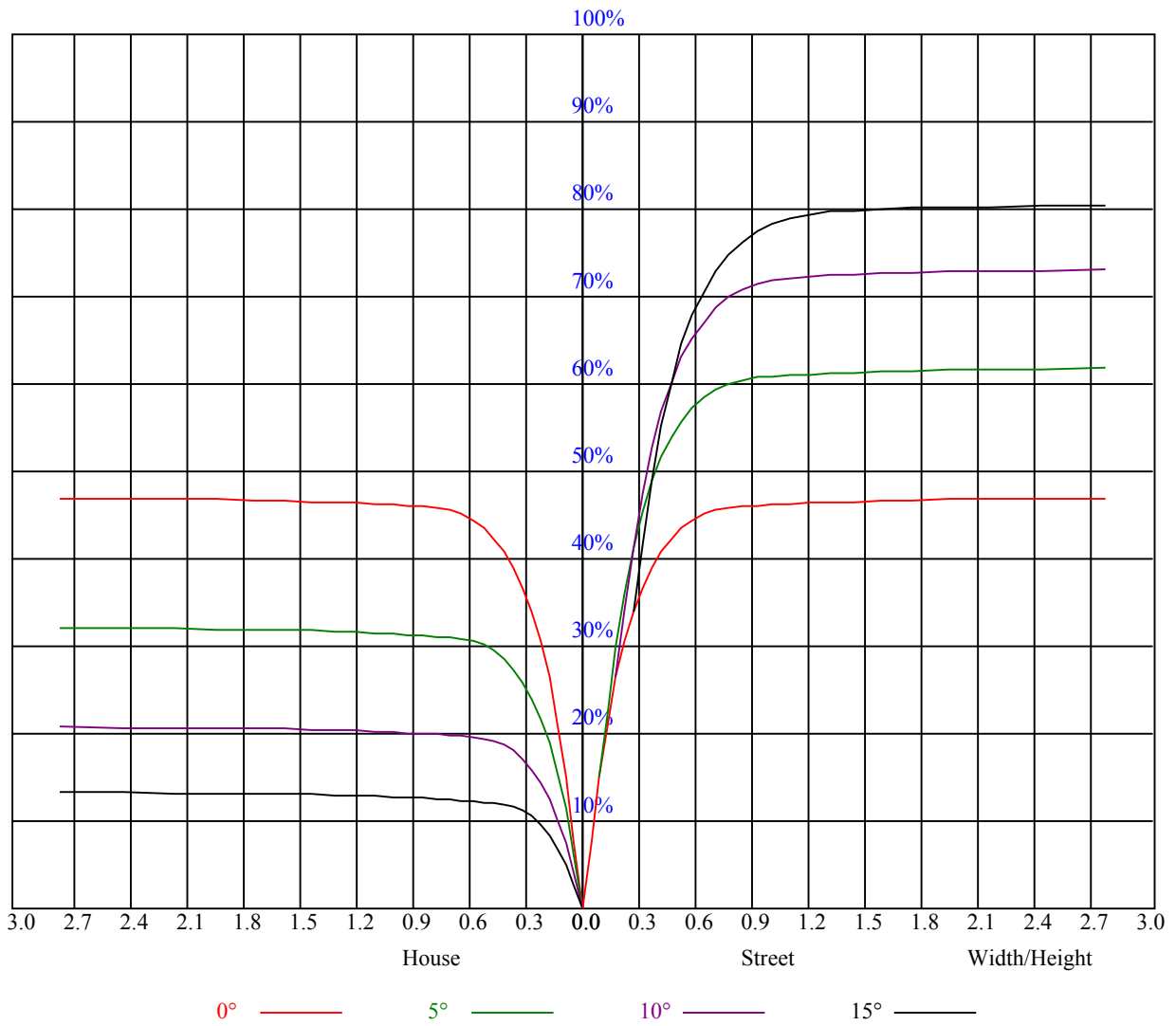


| Illumination assessment according UGR | | | | | | | | | | | |
|---|-----|------------------|-----|-----|-----|-----|----------------|-----|-----|-----|--|
| Rf of Ceiling | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | |
| Rf of Wall | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | |
| Rf of 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 | 1.13 | 1.13 | 1.13 | 1.10 | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.01 | 1.01 | 1.01 | 0.97 | 0.97 | 0.97 | 0.95 |
| 1 | 1.06 | 1.04 | 1.02 | 1.04 | 1.02 | 1.00 | 1.00 | 0.98 | 0.97 | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 | 0.92 | 0.90 |
| 2 | 1.00 | 0.97 | 0.94 | 0.98 | 0.95 | 0.93 | 0.95 | 0.93 | 0.91 | 0.93 | 0.91 | 0.89 | 0.90 | 0.89 | 0.87 | 0.86 |
| 3 | 0.95 | 0.91 | 0.88 | 0.94 | 0.90 | 0.87 | 0.91 | 0.88 | 0.86 | 0.89 | 0.87 | 0.84 | 0.87 | 0.85 | 0.83 | 0.82 |
| 4 | 0.90 | 0.86 | 0.83 | 0.89 | 0.85 | 0.82 | 0.87 | 0.84 | 0.81 | 0.86 | 0.83 | 0.81 | 0.84 | 0.82 | 0.80 | 0.78 |
| 5 | 0.86 | 0.82 | 0.79 | 0.86 | 0.81 | 0.78 | 0.84 | 0.80 | 0.78 | 0.83 | 0.79 | 0.77 | 0.81 | 0.79 | 0.76 | 0.75 |
| 6 | 0.83 | 0.78 | 0.75 | 0.82 | 0.78 | 0.75 | 0.81 | 0.77 | 0.74 | 0.80 | 0.76 | 0.74 | 0.79 | 0.76 | 0.73 | 0.72 |
| 7 | 0.80 | 0.75 | 0.72 | 0.79 | 0.75 | 0.72 | 0.78 | 0.74 | 0.71 | 0.77 | 0.74 | 0.71 | 0.76 | 0.73 | 0.71 | 0.70 |
| 8 | 0.77 | 0.72 | 0.69 | 0.76 | 0.72 | 0.69 | 0.75 | 0.72 | 0.69 | 0.74 | 0.71 | 0.69 | 0.74 | 0.71 | 0.68 | 0.67 |
| 9 | 0.74 | 0.70 | 0.67 | 0.74 | 0.69 | 0.67 | 0.73 | 0.69 | 0.66 | 0.72 | 0.69 | 0.66 | 0.71 | 0.68 | 0.66 | 0.65 |
| 10 | 0.72 | 0.67 | 0.64 | 0.71 | 0.67 | 0.64 | 0.71 | 0.67 | 0.64 | 0.70 | 0.67 | 0.64 | 0.69 | 0.66 | 0.64 | 0.63 |



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 | 11016.42 | 11016.42 | 10746.85 | 9932.04 | 9171.48 | 8169.58 | 7350.35 | 6566.54 | 5679.22 |
| 45.0 | 11653.04 | 11570.01 | 11138.25 | 10601.32 | 9914.94 | 9139.99 | 8127.02 | 7313.32 | 6543.90 |
| 90.0 | 10987.08 | 10987.08 | 10611.78 | 9971.34 | 9280.53 | 8522.18 | 7536.89 | 6755.85 | 6030.17 |
| 135.0 | 11697.32 | 11592.15 | 11254.49 | 10817.20 | 10258.13 | 9477.64 | 8780.19 | 8043.99 | 7102.97 |
| 180.0 | 11016.42 | 11680.72 | 11603.22 | 11387.34 | 10994.33 | 10507.22 | 9787.62 | 9128.92 | 8453.60 |
| 225.0 | 11653.04 | 11608.76 | 10947.78 | 10947.78 | 10578.57 | 9831.85 | 9162.63 | 8446.90 | 7503.13 |
| 270.0 | 10987.08 | 11664.11 | 11664.11 | 11442.70 | 11071.83 | 10562.57 | 9759.95 | 9051.42 | 8298.61 |
| 315.0 | 11697.32 | 11647.50 | 10928.41 | 10928.41 | 10335.57 | 9634.79 | 8637.87 | 7815.87 | 6981.69 |
| 360.0 | 11016.42 | 11016.42 | 10746.85 | 9932.04 | 9171.48 | 8169.58 | 7350.35 | 6566.54 | 5679.22 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 5062.58 | 4467.53 | 3944.44 | 3360.46 | 2959.15 | 2615.96 | 2331.99 | 2041.39 | 1863.70 |
| 45.0 | 5691.46 | 5077.03 | 4517.96 | 3992.10 | 3532.67 | 3012.34 | 2829.68 | 2829.68 | 2067.40 |
| 90.0 | 5214.25 | 4632.49 | 4091.68 | 3508.81 | 3099.75 | 2752.68 | 2392.33 | 2159.84 | 1967.77 |
| 135.0 | 6361.24 | 5669.32 | 5032.75 | 4313.15 | 3826.04 | 3388.75 | 3023.41 | 2857.35 | 2857.35 |
| 180.0 | 7745.08 | 6826.21 | 6112.14 | 5281.84 | 4672.95 | 4003.17 | 3554.81 | 3172.87 | 2857.35 |
| 225.0 | 6735.92 | 6018.54 | 5176.06 | 4582.67 | 4066.22 | 3612.32 | 3125.76 | 2806.37 | 2534.03 |
| 270.0 | 7307.78 | 6538.37 | 5636.10 | 5010.61 | 4440.47 | 3925.68 | 3471.78 | 2968.06 | 2802.00 |
| 315.0 | 6211.17 | 5364.26 | 4763.12 | 4214.57 | 3617.86 | 3193.29 | 2746.04 | 2458.20 | 2217.96 |
| 360.0 | 5062.58 | 4467.53 | 3944.44 | 3360.46 | 2959.15 | 2615.96 | 2331.99 | 2041.39 | 1863.70 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 1718.12 | 1563.68 | 1451.87 | 1351.68 | 1193.37 | 1104.08 | 1104.08 | 1015.63 | 927.84 |
| 45.0 | 1883.63 | 1693.76 | 1566.45 | 1454.64 | 1351.13 | 1243.19 | 1171.78 | 1105.36 | 1037.27 |
| 90.0 | 1806.69 | 1641.18 | 1523.83 | 1421.98 | 1327.32 | 1103.97 | 1103.97 | 1089.25 | 999.19 |
| 135.0 | 2204.68 | 2033.08 | 1843.77 | 1717.57 | 1573.65 | 1471.80 | 1376.04 | 1272.52 | 1196.69 |
| 180.0 | 2857.35 | 2298.78 | 2118.88 | 1966.10 | 1786.21 | 1657.23 | 1549.29 | 1429.17 | 1339.50 |
| 225.0 | 2256.71 | 2069.06 | 1911.86 | 1733.62 | 1609.07 | 1498.92 | 1375.48 | 1287.47 | 1101.92 |
| 270.0 | 2802.00 | 2168.15 | 1932.89 | 1793.40 | 1667.75 | 1514.97 | 1421.43 | 1319.57 | 1223.81 |
| 315.0 | 1963.89 | 1801.15 | 1664.98 | 1545.97 | 1411.46 | 1316.25 | 1188.39 | 1097.27 | 1080.23 |
| 360.0 | 1718.12 | 1563.68 | 1451.87 | 1351.68 | 1193.37 | 1104.08 | 1104.08 | 1015.63 | 927.84 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 834.73 | 742.85 | 629.43 | 540.09 | 459.43 | 382.66 | 289.67 | 218.20 | 156.54 |
| 45.0 | 935.97 | 845.75 | 753.86 | 640.94 | 553.48 | 467.13 | 369.15 | 293.32 | 293.32 |
| 90.0 | 914.33 | 805.34 | 714.73 | 617.52 | 499.51 | 409.84 | 324.81 | 246.66 | 166.67 |
| 135.0 | 1126.39 | 1047.23 | 928.22 | 829.70 | 729.51 | 633.74 | 519.16 | 431.70 | 348.12 |
| 180.0 | 1256.47 | 1185.07 | 1113.11 | 1002.95 | 902.76 | 774.34 | 674.71 | 559.02 | 470.45 |
| 225.0 | 1101.92 | 1048.18 | 960.22 | 864.90 | 767.31 | 646.47 | 554.70 | 465.58 | 360.96 |
| 270.0 | 1153.51 | 1087.64 | 996.86 | 912.17 | 814.20 | 692.97 | 594.44 | 497.57 | 409.56 |
| 315.0 | 1008.54 | 921.86 | 825.49 | 705.15 | 613.98 | 503.50 | 421.19 | 340.65 | 249.20 |
| 360.0 | 834.73 | 742.85 | 629.43 | 540.09 | 459.43 | 382.66 | 289.67 | 218.20 | 156.54 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 108.49 | 74.95 | 65.32 | 59.84 | 53.86 | 49.87 | 45.11 | 41.74 | 39.08 |
| 45.0 | 208.90 | 99.08 | 75.23 | 64.15 | 58.84 | 54.03 | 49.93 | 45.45 | 42.23 |
| 90.0 | 118.35 | 84.80 | 67.31 | 59.89 | 54.91 | 50.54 | 46.83 | 42.57 | 39.74 |
| 135.0 | 288.34 | 288.34 | 119.29 | 79.21 | 66.37 | 60.39 | 53.91 | 49.32 | 45.28 |
| 180.0 | 387.42 | 307.71 | 288.89 | 199.72 | 98.97 | 73.07 | 63.99 | 57.18 | 52.25 |
| 225.0 | 282.25 | 194.29 | 135.23 | 94.65 | 71.79 | 61.72 | 56.57 | 51.92 | 47.49 |
| 270.0 | 304.39 | 283.36 | 283.36 | 115.52 | 78.88 | 65.87 | 59.73 | 53.42 | 49.15 |
| 315.0 | 183.44 | 127.92 | 91.00 | 68.14 | 61.50 | 56.07 | 51.64 | 47.71 | 42.62 |
| 360.0 | 108.49 | 74.95 | 65.32 | 59.84 | 53.86 | 49.87 | 45.11 | 41.74 | 39.08 |

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 | 37.03 | 35.09 | 33.82 | 32.71 | 31.77 | 30.78 | 30.22 | 29.95 | 29.78 |
| 45.0 | 39.52 | 37.53 | 35.59 | 34.26 | 33.16 | 31.88 | 31.05 | 30.39 | 30.11 |
| 90.0 | 37.25 | 35.76 | 34.54 | 33.32 | 32.49 | 31.83 | 31.33 | 31.16 | 31.16 |
| 135.0 | 41.29 | 38.80 | 36.87 | 35.43 | 33.82 | 32.77 | 31.94 | 31.33 | 30.83 |
| 180.0 | 47.55 | 43.12 | 40.30 | 38.14 | 36.09 | 34.76 | 33.32 | 32.44 | 31.72 |
| 225.0 | 42.95 | 40.30 | 38.03 | 36.37 | 34.60 | 33.43 | 32.27 | 31.50 | 31.05 |
| 270.0 | 43.73 | 40.63 | 38.03 | 36.04 | 34.10 | 32.88 | 31.83 | 31.05 | 30.28 |
| 315.0 | 39.69 | 36.92 | 35.32 | 34.04 | 32.66 | 31.77 | 31.11 | 30.44 | 30.17 |
| 360.0 | 37.03 | 35.09 | 33.82 | 32.71 | 31.77 | 30.78 | 30.22 | 29.95 | 29.78 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 30.06 | 31.05 | 31.72 | 32.33 | 32.55 | 31.77 | 30.00 | 27.79 | 24.36 |
| 45.0 | 30.17 | 30.50 | 31.50 | 32.05 | 32.66 | 32.82 | 32.05 | 30.39 | 27.95 |
| 90.0 | 31.50 | 32.27 | 33.27 | 34.21 | 34.65 | 33.99 | 32.60 | 30.28 | 26.29 |
| 135.0 | 30.94 | 31.33 | 32.05 | 32.99 | 33.99 | 34.82 | 35.04 | 34.26 | 31.55 |
| 180.0 | 31.22 | 31.16 | 31.33 | 31.94 | 32.88 | 34.32 | 35.20 | 35.43 | 34.65 |
| 225.0 | 30.83 | 30.94 | 31.55 | 32.82 | 33.88 | 34.98 | 35.59 | 34.87 | 32.82 |
| 270.0 | 29.95 | 29.89 | 30.33 | 31.11 | 32.16 | 33.54 | 34.37 | 34.54 | 33.60 |
| 315.0 | 30.00 | 30.22 | 30.94 | 31.94 | 32.71 | 33.32 | 33.60 | 32.60 | 30.11 |
| 360.0 | 30.06 | 31.05 | 31.72 | 32.33 | 32.55 | 31.77 | 30.00 | 27.79 | 24.36 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 21.59 | 19.71 | 18.27 | 17.44 | 16.77 | 16.27 | 15.67 | 15.28 | 14.95 |
| 45.0 | 24.91 | 21.42 | 19.60 | 18.21 | 17.27 | 16.77 | 16.16 | 15.72 | 15.28 |
| 90.0 | 23.30 | 20.76 | 18.82 | 17.93 | 17.27 | 16.72 | 16.11 | 15.67 | 15.22 |
| 135.0 | 28.12 | 24.74 | 21.81 | 19.37 | 18.05 | 17.33 | 16.61 | 16.11 | 15.55 |
| 180.0 | 32.99 | 30.17 | 26.85 | 22.53 | 20.37 | 18.38 | 17.66 | 17.05 | 16.38 |
| 225.0 | 30.00 | 26.40 | 22.36 | 20.09 | 18.60 | 17.49 | 16.94 | 16.33 | 15.83 |
| 270.0 | 31.61 | 28.34 | 24.91 | 21.09 | 19.21 | 17.93 | 17.16 | 16.50 | 16.05 |
| 315.0 | 26.79 | 23.80 | 20.48 | 18.93 | 17.93 | 17.10 | 16.61 | 16.11 | 15.67 |
| 360.0 | 21.59 | 19.71 | 18.27 | 17.44 | 16.77 | 16.27 | 15.67 | 15.28 | 14.95 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 14.50 | 14.17 | 13.89 | 13.56 | 13.34 | 13.06 | 12.79 | 12.45 | 12.18 |
| 45.0 | 14.89 | 14.50 | 14.17 | 13.84 | 13.56 | 13.23 | 13.01 | 12.68 | 12.34 |
| 90.0 | 14.83 | 14.39 | 14.06 | 13.73 | 13.40 | 13.17 | 12.79 | 12.51 | 12.18 |
| 135.0 | 15.17 | 14.78 | 14.39 | 14.00 | 13.73 | 13.45 | 13.23 | 12.84 | 12.62 |
| 180.0 | 15.94 | 15.50 | 15.11 | 14.67 | 14.34 | 14.00 | 13.67 | 13.40 | 13.06 |
| 225.0 | 15.39 | 15.06 | 14.56 | 14.23 | 13.89 | 13.62 | 13.23 | 12.95 | 12.68 |
| 270.0 | 15.61 | 15.11 | 14.72 | 14.39 | 14.00 | 13.67 | 13.34 | 13.06 | 12.79 |
| 315.0 | 15.17 | 14.83 | 14.45 | 14.12 | 13.73 | 13.45 | 13.17 | 12.90 | 12.57 |
| 360.0 | 14.50 | 14.17 | 13.89 | 13.56 | 13.34 | 13.06 | 12.79 | 12.45 | 12.18 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 11.90 | 11.57 | 11.24 | 11.02 | 10.79 | 10.57 | 10.35 | 10.19 | 10.13 |
| 45.0 | 12.07 | 11.68 | 11.40 | 11.13 | 10.85 | 10.63 | 10.35 | 10.19 | 10.07 |
| 90.0 | 11.79 | 11.51 | 11.24 | 10.96 | 10.74 | 10.52 | 10.30 | 10.07 | 10.07 |
| 135.0 | 12.34 | 11.90 | 11.57 | 11.29 | 11.02 | 10.74 | 10.52 | 10.30 | 10.13 |
| 180.0 | 12.68 | 12.40 | 12.01 | 11.68 | 11.40 | 11.18 | 10.90 | 10.68 | 10.46 |
| 225.0 | 12.34 | 12.07 | 11.68 | 11.40 | 11.13 | 10.85 | 10.63 | 10.46 | 10.24 |
| 270.0 | 12.45 | 12.23 | 11.90 | 11.51 | 11.29 | 11.02 | 10.68 | 10.46 | 10.24 |
| 315.0 | 12.18 | 11.90 | 11.57 | 11.29 | 11.02 | 10.74 | 10.57 | 10.30 | 10.13 |
| 360.0 | 11.90 | 11.57 | 11.24 | 11.02 | 10.79 | 10.57 | 10.35 | 10.19 | 10.13 |

Intensity data(cd)

| | |
|---------------|--------------|
| C/γ(°) | 90.0 |
| 0.0 | 10.13 |
| 45.0 | 10.07 |
| 90.0 | 10.07 |
| 135.0 | 10.07 |
| 180.0 | 10.24 |
| 225.0 | 10.07 |
| 270.0 | 10.07 |
| 315.0 | 10.07 |
| 360.0 | 10.13 |