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NT

Client:

LumCAT: 2-2639-L

Luminaire: 92.70.412.00

Report No: 20231116-B021

Ballast type: AC

Test No: 20231116-C021

Voltage(V): 34.610

LampCAT: Fortimo_SLM_C_1210

Current(A): 0.720

Lamp flux(lm): 4030.4

Power (W): 24.919

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 3797.18, Efficiency(%): 94.21% , Luminous Efficacy(lm/W): 152.38

Central intensity(cd): 14605.050, Maximum intensity(cd): 14605.050

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=21.8

[C90/270]Total=21.8

Field angle(10%Imax): [C0/180]Total=55.6

[C90/270]Total=55.6

Beam angle of C0 plane : 21.86

Average BeamAngle(IEC 61341):21.86

Maximum s/h(1/2): C0_180=0.37 C90_270=0.37

Maximum s/h(1/4): C0_180=0.41 C90_270=0.41

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 94.21%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.972%

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/16
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 | 14605.047 | 0.000 | 0 | 0.00% | 0.00% |
| 1.0 | 14515.098 | 13.933 | 13.933 | 0.35% | 0.37% |
| 2.0 | 14259.779 | 41.300 | 55.234 | 1.02% | 1.45% |
| 3.0 | 13832.865 | 67.188 | 122.422 | 1.67% | 3.22% |
| 4.0 | 12937.174 | 89.608 | 212.03 | 2.22% | 5.58% |
| 5.0 | 12407.163 | 109.030 | 321.06 | 2.71% | 8.46% |
| 6.0 | 11390.110 | 125.061 | 446.121 | 3.10% | 11.75% |
| 7.0 | 10714.243 | 137.201 | 583.322 | 3.40% | 15.36% |
| 8.0 | 9842.285 | 147.119 | 730.442 | 3.65% | 19.24% |
| 9.0 | 8902.381 | 151.915 | 882.357 | 3.77% | 23.24% |
| 10.0 | 8036.236 | 153.288 | 1035.645 | 3.80% | 27.27% |
| 11.0 | 7245.648 | 152.697 | 1188.343 | 3.79% | 31.30% |
| 12.0 | 6513.181 | 150.404 | 1338.746 | 3.73% | 35.26% |
| 13.0 | 5834.754 | 146.539 | 1485.285 | 3.64% | 39.12% |
| 14.0 | 5268.625 | 142.122 | 1627.407 | 3.53% | 42.86% |
| 15.0 | 4729.135 | 137.254 | 1764.661 | 3.41% | 46.47% |
| 16.0 | 4246.797 | 131.523 | 1896.184 | 3.26% | 49.94% |
| 17.0 | 3813.448 | 125.520 | 2021.703 | 3.11% | 53.24% |
| 18.0 | 3450.605 | 119.768 | 2141.472 | 2.97% | 56.40% |
| 19.0 | 3156.262 | 114.946 | 2256.418 | 2.85% | 59.42% |
| 20.0 | 2884.614 | 110.565 | 2366.983 | 2.74% | 62.34% |
| 21.0 | 2710.804 | 107.443 | 2474.426 | 2.67% | 65.16% |
| 22.0 | 2459.291 | 103.895 | 2578.321 | 2.58% | 67.90% |
| 23.0 | 2297.382 | 99.808 | 2678.129 | 2.48% | 70.53% |
| 24.0 | 2077.836 | 95.658 | 2773.787 | 2.37% | 73.05% |
| 25.0 | 1924.437 | 91.003 | 2864.79 | 2.26% | 75.45% |
| 26.0 | 1774.014 | 87.302 | 2952.092 | 2.17% | 77.74% |
| 27.0 | 1630.994 | 83.304 | 3035.397 | 2.07% | 79.94% |
| 28.0 | 1429.112 | 77.475 | 3112.872 | 1.92% | 81.98% |
| 29.0 | 1310.171 | 71.667 | 3184.539 | 1.78% | 83.87% |
| 30.0 | 1164.667 | 66.820 | 3251.359 | 1.66% | 85.63% |
| 31.0 | 1043.457 | 61.449 | 3312.808 | 1.52% | 87.24% |
| 32.0 | 907.169 | 55.883 | 3368.692 | 1.39% | 88.72% |
| 33.0 | 775.386 | 49.569 | 3418.26 | 1.23% | 90.02% |
| 34.0 | 648.564 | 43.093 | 3461.353 | 1.07% | 91.16% |
| 35.0 | 539.919 | 36.910 | 3498.263 | 0.92% | 92.13% |
| 36.0 | 440.414 | 31.214 | 3529.477 | 0.77% | 92.95% |
| 37.0 | 354.900 | 25.939 | 3555.416 | 0.64% | 93.63% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 288.884 | 21.489 | 3576.904 | 0.53% | 94.20% |
| 39.0 | 247.147 | 18.296 | 3595.201 | 0.45% | 94.68% |
| 40.0 | 189.946 | 15.244 | 3610.445 | 0.38% | 95.08% |
| 41.0 | 151.593 | 12.162 | 3622.607 | 0.30% | 95.40% |
| 42.0 | 114.312 | 9.661 | 3632.268 | 0.24% | 95.66% |
| 43.0 | 96.059 | 7.793 | 3640.06 | 0.19% | 95.86% |
| 44.0 | 82.754 | 6.749 | 3646.809 | 0.17% | 96.04% |
| 45.0 | 73.136 | 5.991 | 3652.8 | 0.15% | 96.20% |
| 46.0 | 66.577 | 5.464 | 3658.264 | 0.14% | 96.34% |
| 47.0 | 61.007 | 5.074 | 3663.338 | 0.13% | 96.48% |
| 48.0 | 56.931 | 4.768 | 3668.106 | 0.12% | 96.60% |
| 49.0 | 53.887 | 4.551 | 3672.657 | 0.11% | 96.72% |
| 50.0 | 51.493 | 4.394 | 3677.051 | 0.11% | 96.84% |
| 51.0 | 49.618 | 4.278 | 3681.328 | 0.11% | 96.95% |
| 52.0 | 48.379 | 4.205 | 3685.533 | 0.10% | 97.06% |
| 53.0 | 47.646 | 4.177 | 3689.711 | 0.10% | 97.17% |
| 54.0 | 47.327 | 4.186 | 3693.897 | 0.10% | 97.28% |
| 55.0 | 47.466 | 4.231 | 3698.128 | 0.10% | 97.39% |
| 56.0 | 47.819 | 4.306 | 3702.434 | 0.11% | 97.50% |
| 57.0 | 48.137 | 4.387 | 3706.821 | 0.11% | 97.62% |
| 58.0 | 48.158 | 4.453 | 3711.274 | 0.11% | 97.74% |
| 59.0 | 47.597 | 4.477 | 3715.75 | 0.11% | 97.86% |
| 60.0 | 46.213 | 4.432 | 3720.182 | 0.11% | 97.97% |
| 61.0 | 44.027 | 4.306 | 3724.489 | 0.11% | 98.09% |
| 62.0 | 41.162 | 4.105 | 3728.594 | 0.10% | 98.19% |
| 63.0 | 38.076 | 3.854 | 3732.448 | 0.10% | 98.30% |
| 64.0 | 35.073 | 3.589 | 3736.037 | 0.09% | 98.39% |
| 65.0 | 32.610 | 3.350 | 3739.387 | 0.08% | 98.48% |
| 66.0 | 30.742 | 3.161 | 3742.547 | 0.08% | 98.56% |
| 67.0 | 29.227 | 3.015 | 3745.563 | 0.07% | 98.64% |
| 68.0 | 27.877 | 2.893 | 3748.456 | 0.07% | 98.72% |
| 69.0 | 26.902 | 2.795 | 3751.25 | 0.07% | 98.79% |
| 70.0 | 25.961 | 2.715 | 3753.965 | 0.07% | 98.86% |
| 71.0 | 25.110 | 2.640 | 3756.605 | 0.07% | 98.93% |
| 72.0 | 24.356 | 2.572 | 3759.177 | 0.06% | 99.00% |
| 73.0 | 23.684 | 2.512 | 3761.689 | 0.06% | 99.07% |
| 74.0 | 23.089 | 2.459 | 3764.148 | 0.06% | 99.13% |
| 75.0 | 22.501 | 2.409 | 3766.557 | 0.06% | 99.19% |

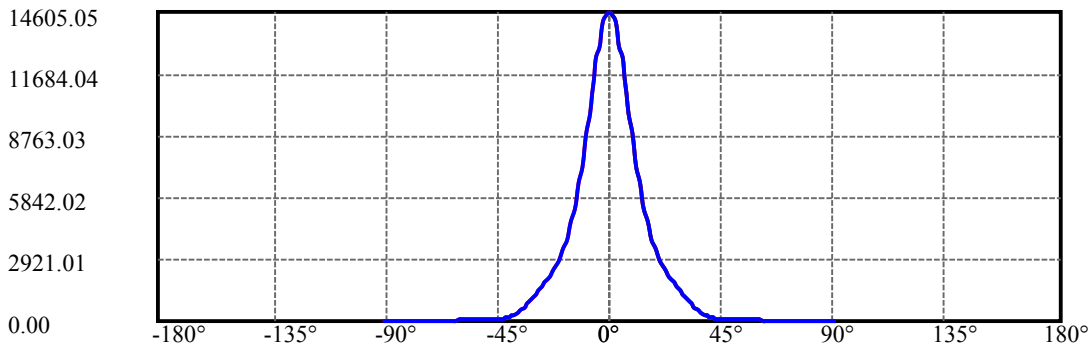
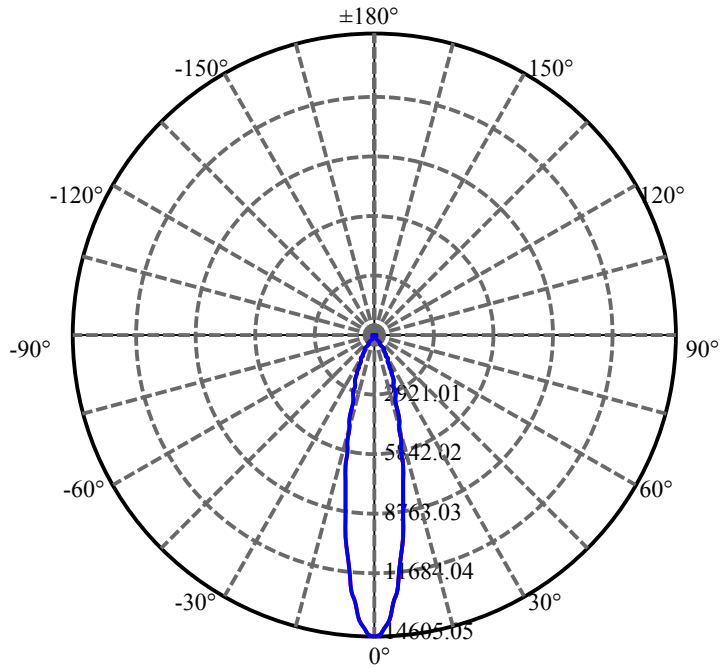
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 21.948 | 2.360 | 3768.916 | 0.06% | 99.26% |
| 77.0 | 21.429 | 2.313 | 3771.229 | 0.06% | 99.32% |
| 78.0 | 20.917 | 2.267 | 3773.496 | 0.06% | 99.38% |
| 79.0 | 20.432 | 2.222 | 3775.717 | 0.06% | 99.43% |
| 80.0 | 19.941 | 2.177 | 3777.894 | 0.05% | 99.49% |
| 81.0 | 19.429 | 2.129 | 3780.023 | 0.05% | 99.55% |
| 82.0 | 18.924 | 2.080 | 3782.103 | 0.05% | 99.60% |
| 83.0 | 18.412 | 2.030 | 3784.133 | 0.05% | 99.66% |
| 84.0 | 17.935 | 1.980 | 3786.113 | 0.05% | 99.71% |
| 85.0 | 17.526 | 1.935 | 3788.048 | 0.05% | 99.76% |
| 86.0 | 17.125 | 1.894 | 3789.942 | 0.05% | 99.81% |
| 87.0 | 16.807 | 1.857 | 3791.799 | 0.05% | 99.86% |
| 88.0 | 16.468 | 1.823 | 3793.622 | 0.05% | 99.91% |
| 89.0 | 16.205 | 1.791 | 3795.413 | 0.04% | 99.95% |
| 90.0 | 15.983 | 1.765 | 3797.177 | 0.04% | 100.00% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 3251.36 | 80.67% | 85.63% |
| 0-40 | 3610.44 | 89.58% | 95.08% |
| 0-60 | 3720.18 | 92.30% | 97.97% |
| 0-90 | 3795.41 | 94.17% | 99.95% |
| 0-120 | 3795.41 | 94.17% | 99.95% |
| 0-180 | 3797.18 | 94.21% | 100.00% |
| 60-90 | 75.23 | 1.87% | 1.98% |
| 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% |
| 0-27.03 | 3037.74 | 75.37% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|---------|
| 0-10 | 1035.65 |
| 10-20 | 1331.34 |
| 20-30 | 884.38 |
| 30-40 | 359.09 |
| 40-50 | 66.61 |
| 50-60 | 43.13 |
| 60-70 | 33.78 |
| 70-80 | 23.93 |
| 80-90 | 17.52 |
| 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 |



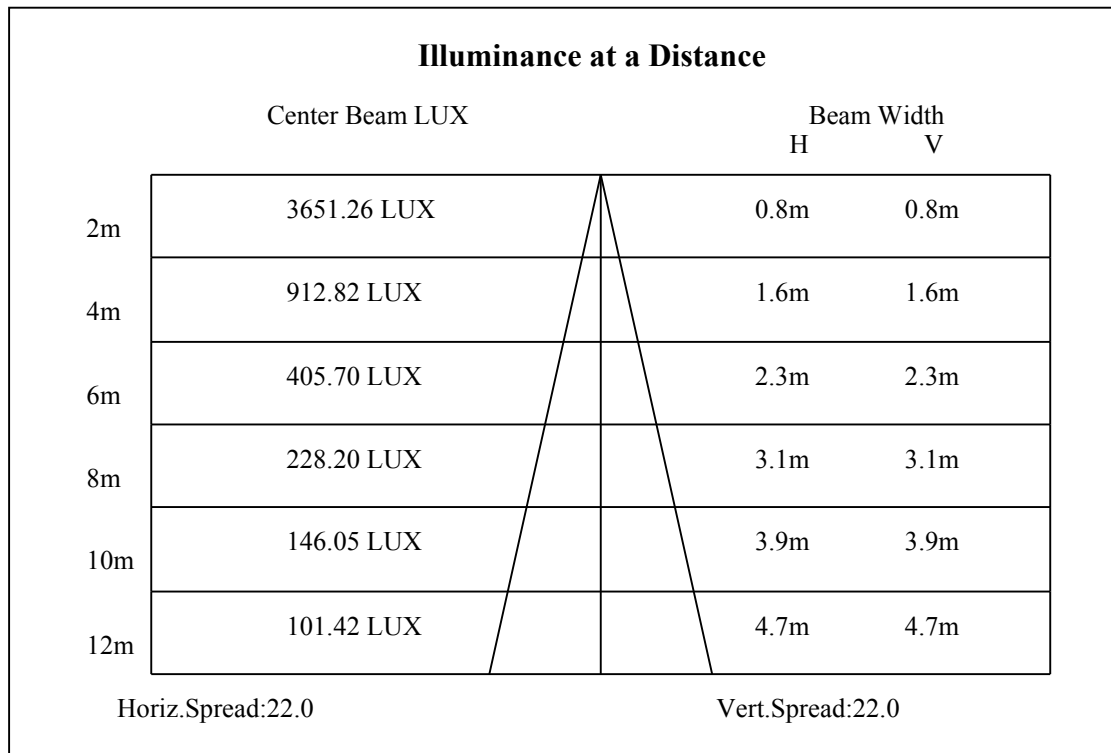
C0(Max): —————

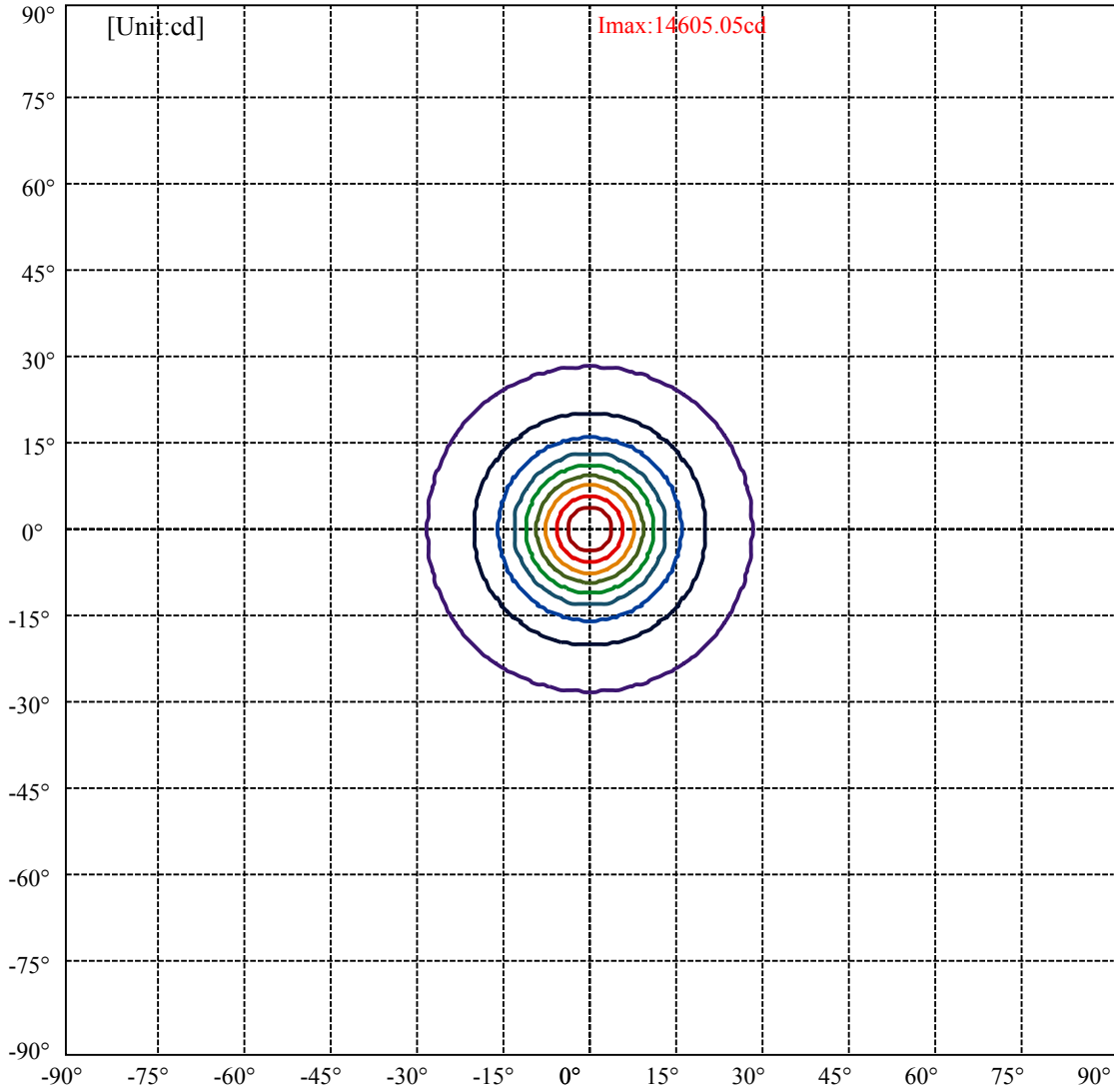
C0/C180: —————

C90/C270: —————

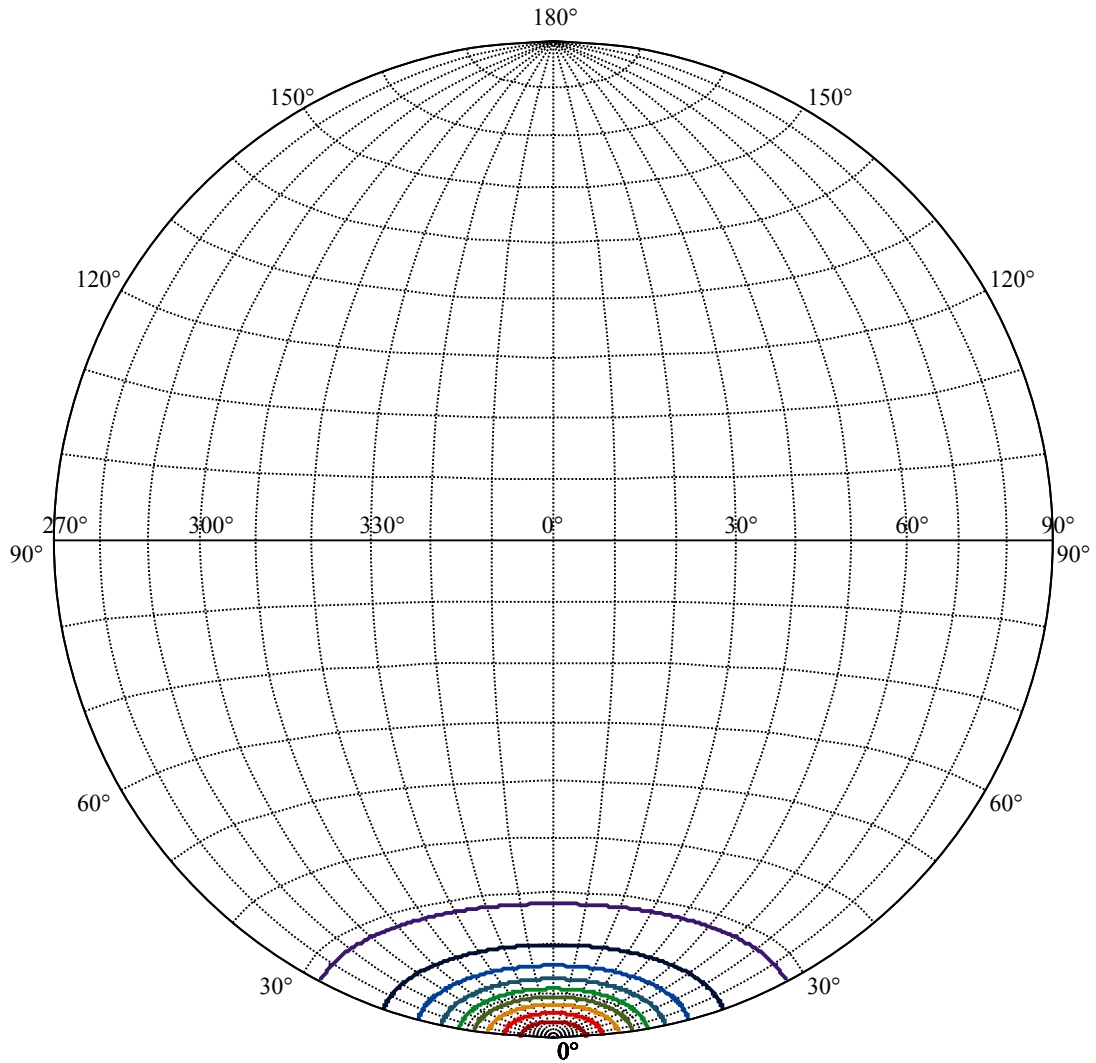
Field angle(10%Imax):C0/180Left:27.8 Right:27.8
:C90/270Left:27.8 Right:27.8

Beam Angle(50%Imax):C0/180Left:10.9 Right:10.9
:C90/270Left:10.9 Right:10.9





| | |
|-------------------|---|
| (10%Imax) 1460.5 | — |
| (20%Imax) 2921.01 | — |
| (30%Imax) 4381.51 | — |
| (40%Imax) 5842.02 | — |
| (50%Imax) 7302.52 | — |
| (60%Imax) 8763.03 | — |
| (70%Imax) 10223.5 | — |
| (80%Imax) 11684 | — |
| (90%Imax) 13144.5 | — |



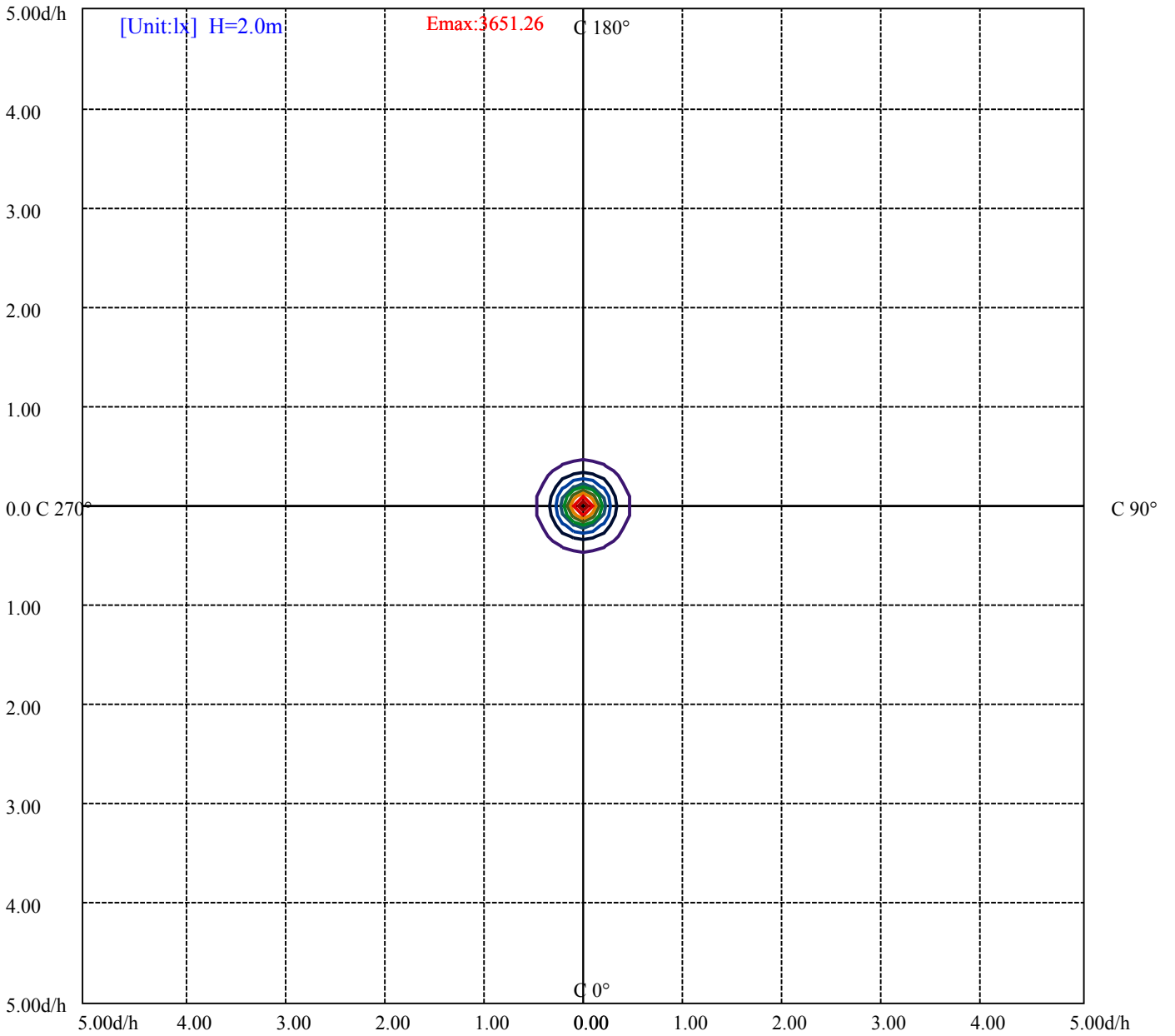
House

[Unit:cd]

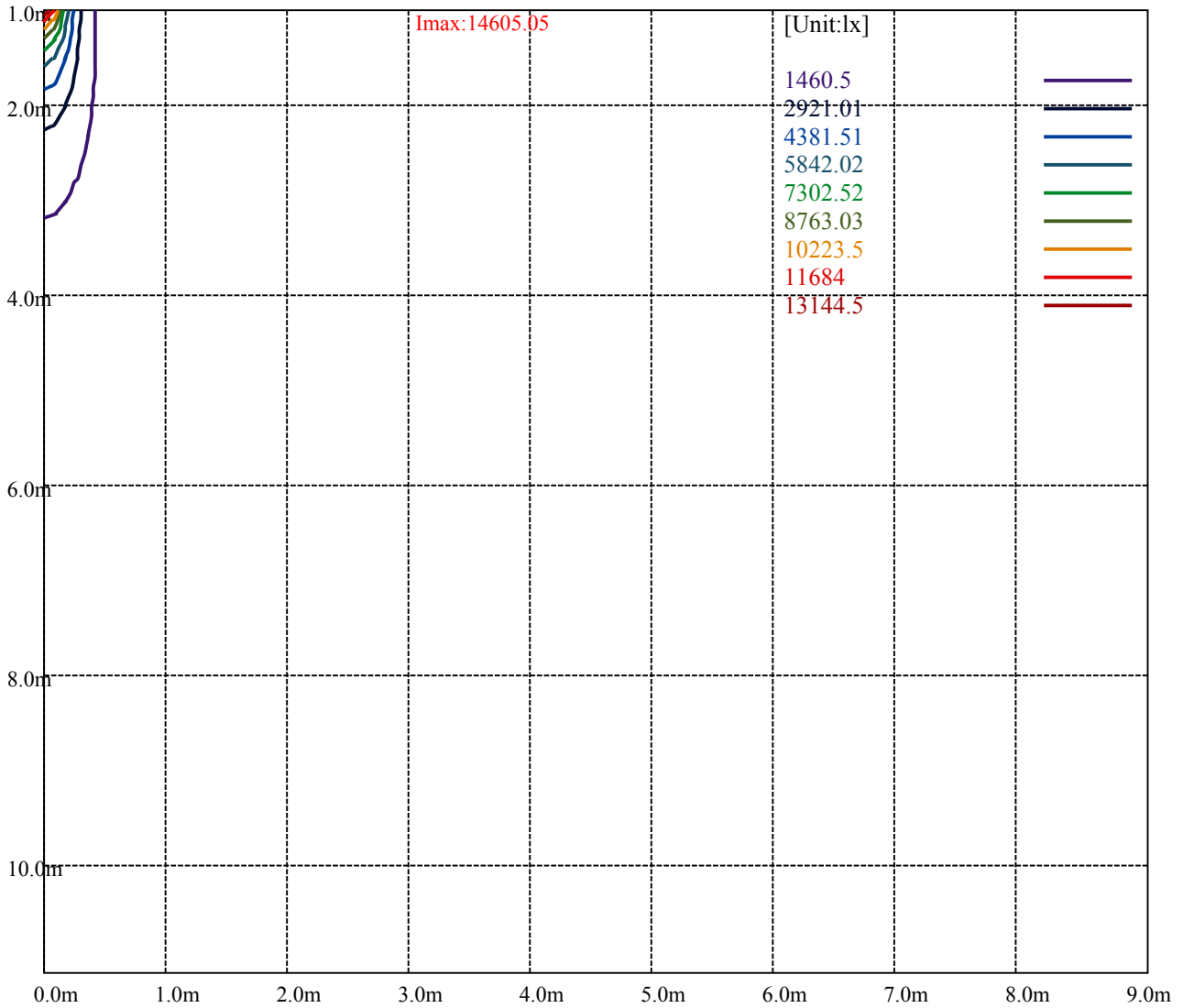
Road

Imax:14605.05

| | | |
|-----------|---------|---|
| (10%Imax) | 1460.5 | — |
| (20%Imax) | 2921.01 | — |
| (30%Imax) | 4381.51 | — |
| (40%Imax) | 5842.02 | — |
| (50%Imax) | 7302.52 | — |
| (60%Imax) | 8763.03 | — |
| (70%Imax) | 10223.5 | — |
| (80%Imax) | 11684 | — |
| (90%Imax) | 13144.5 | — |



- (10%Emax) 365.125
- (20%Emax) 730.2525
- (30%Emax) 1095.377
- (40%Emax) 1460.502
- (50%Emax) 1825.63
- (60%Emax) 2190.755
- (70%Emax) 2555.875
- (80%Emax) 2921
- (90%Emax) 3286.125



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

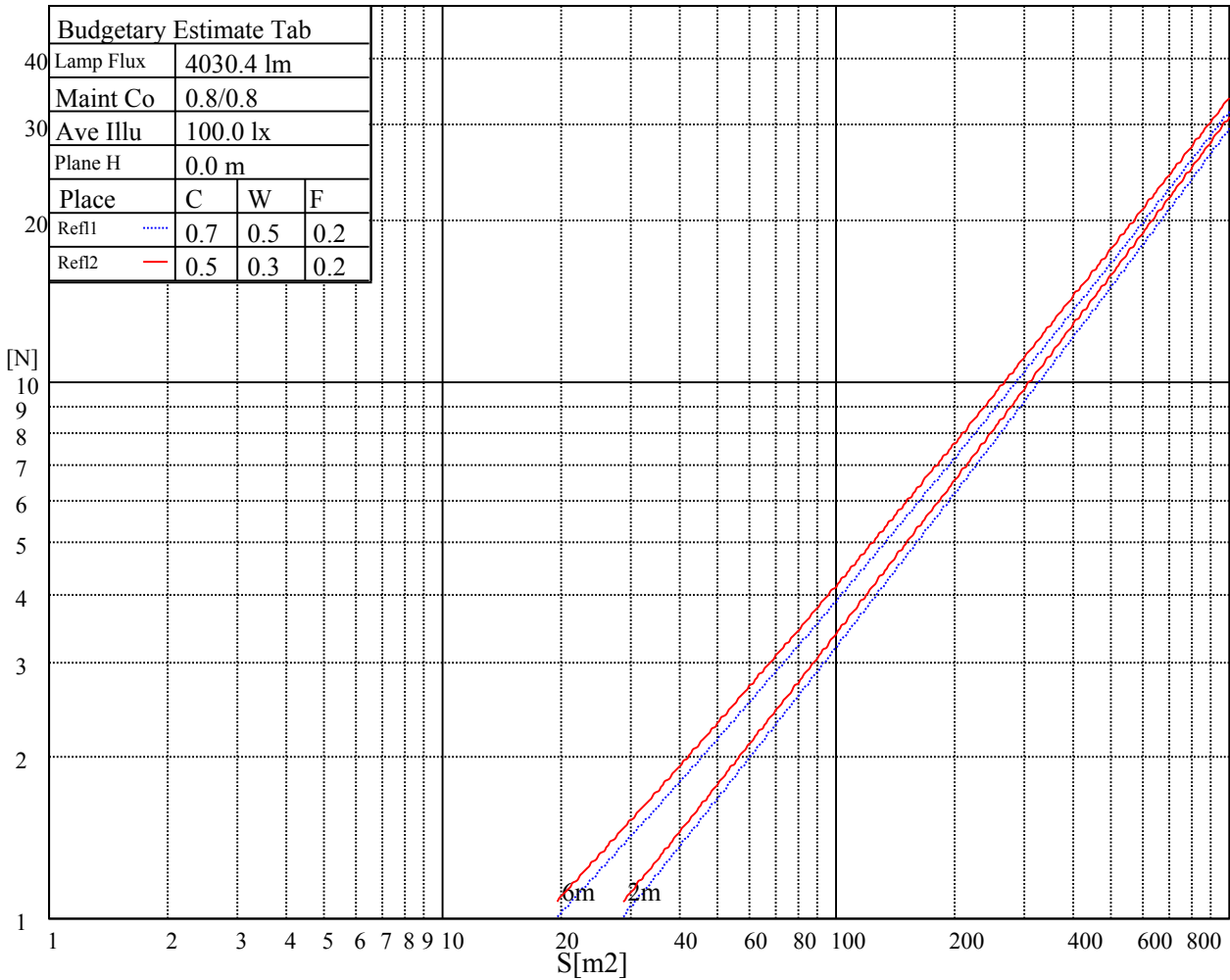
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 |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

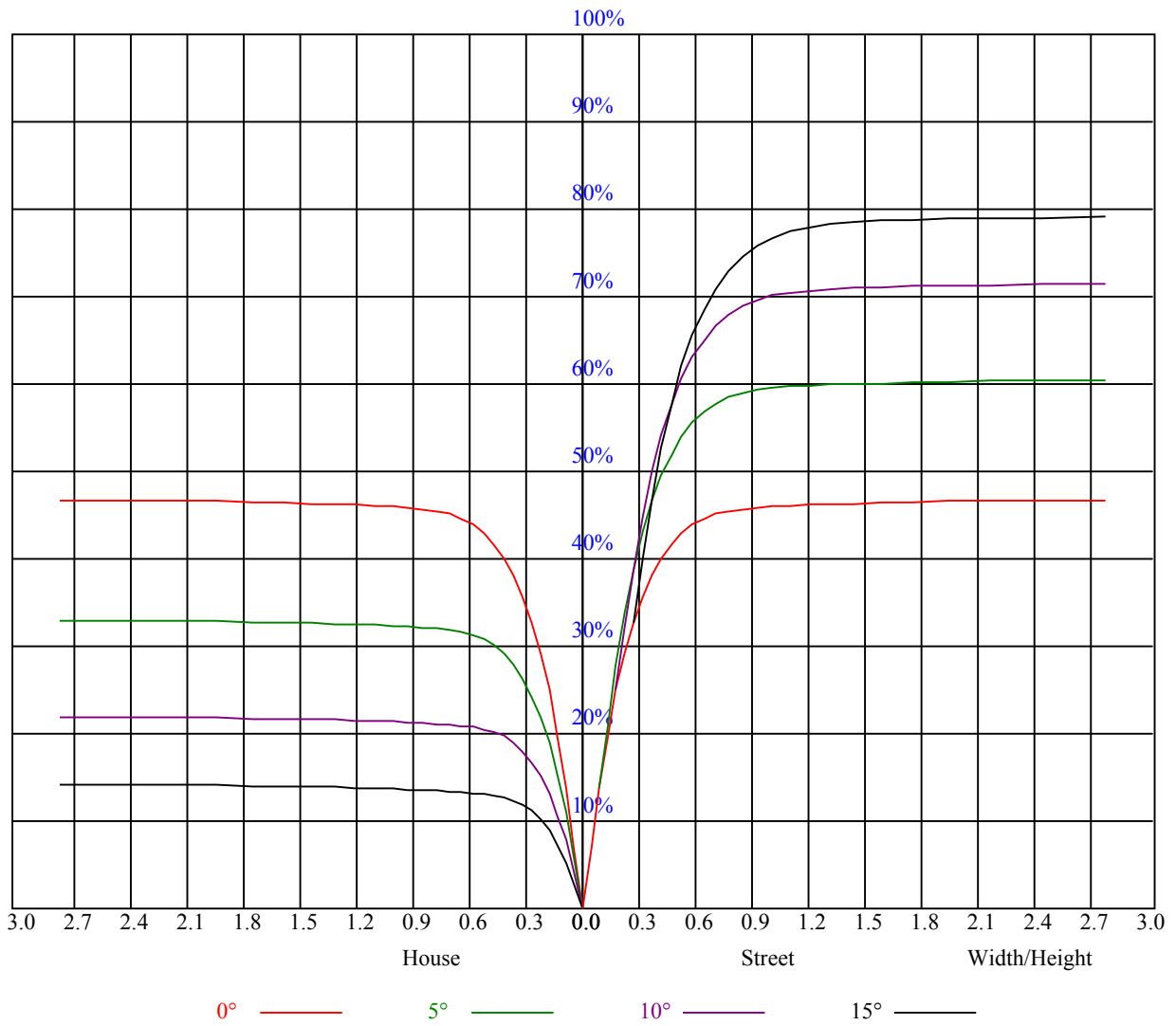


| Illumination assessment according UGR | | | | | | | | | | |
|---|------------------|-----|-----|-----|-----|----------------|-----|-----|-----|-----|
| Rf of Ceiling | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Rf of Wall | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Rf of Floor | 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 |
| | 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 | 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 |
| | 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 |
| 8H | 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 | 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 | 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 | 1.12 | 1.12 | 1.12 | 1.10 | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.00 | 1.00 | 1.00 | 0.96 | 0.96 | 0.96 | 0.94 |
| 1 | 1.05 | 1.03 | 1.01 | 1.03 | 1.01 | 0.99 | 0.99 | 0.98 | 0.96 | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 | 0.91 | 0.89 |
| 2 | 0.99 | 0.96 | 0.93 | 0.98 | 0.94 | 0.92 | 0.95 | 0.92 | 0.90 | 0.92 | 0.90 | 0.88 | 0.89 | 0.88 | 0.86 | 0.85 |
| 3 | 0.94 | 0.90 | 0.87 | 0.93 | 0.89 | 0.86 | 0.90 | 0.87 | 0.85 | 0.88 | 0.85 | 0.83 | 0.86 | 0.84 | 0.82 | 0.81 |
| 4 | 0.89 | 0.85 | 0.81 | 0.88 | 0.84 | 0.81 | 0.86 | 0.83 | 0.80 | 0.84 | 0.82 | 0.79 | 0.83 | 0.80 | 0.78 | 0.77 |
| 5 | 0.85 | 0.81 | 0.77 | 0.84 | 0.80 | 0.77 | 0.83 | 0.79 | 0.76 | 0.81 | 0.78 | 0.76 | 0.80 | 0.77 | 0.75 | 0.74 |
| 6 | 0.81 | 0.77 | 0.73 | 0.81 | 0.76 | 0.73 | 0.79 | 0.76 | 0.73 | 0.78 | 0.75 | 0.72 | 0.77 | 0.74 | 0.72 | 0.71 |
| 7 | 0.78 | 0.73 | 0.70 | 0.77 | 0.73 | 0.70 | 0.76 | 0.72 | 0.70 | 0.75 | 0.72 | 0.69 | 0.74 | 0.71 | 0.69 | 0.68 |
| 8 | 0.75 | 0.70 | 0.67 | 0.74 | 0.70 | 0.67 | 0.74 | 0.70 | 0.67 | 0.73 | 0.69 | 0.67 | 0.72 | 0.69 | 0.66 | 0.65 |
| 9 | 0.72 | 0.68 | 0.65 | 0.72 | 0.67 | 0.65 | 0.71 | 0.67 | 0.64 | 0.70 | 0.67 | 0.64 | 0.69 | 0.66 | 0.64 | 0.63 |
| 10 | 0.70 | 0.65 | 0.62 | 0.69 | 0.65 | 0.62 | 0.69 | 0.65 | 0.62 | 0.68 | 0.64 | 0.62 | 0.67 | 0.64 | 0.62 | 0.61 |



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 | 14552.46 | 14236.95 | 13788.58 | 13212.90 | 11027.54 | 11027.54 | 10595.23 | 9731.72 | 8863.77 |
| 45.0 | 14668.70 | 14535.86 | 14164.99 | 13650.20 | 13041.31 | 12105.83 | 11286.60 | 10439.69 | 9371.36 |
| 90.0 | 14513.71 | 14098.56 | 13572.70 | 12770.08 | 10950.60 | 10950.60 | 10326.77 | 9242.94 | 8400.46 |
| 135.0 | 14685.31 | 14513.71 | 14220.34 | 13738.76 | 12930.60 | 12166.72 | 11341.95 | 10506.11 | 9410.11 |
| 180.0 | 14552.46 | 14674.24 | 14629.96 | 14397.47 | 14026.60 | 13489.67 | 12653.83 | 11851.21 | 10987.69 |
| 225.0 | 14668.70 | 14679.77 | 14458.36 | 14153.92 | 13683.41 | 12819.89 | 10935.10 | 10935.10 | 10244.84 |
| 270.0 | 14513.71 | 14679.77 | 14729.59 | 14524.78 | 14236.95 | 13771.98 | 13140.94 | 12166.72 | 11303.21 |
| 315.0 | 14685.31 | 14701.92 | 14513.71 | 14214.80 | 13600.38 | 12925.07 | 10840.45 | 10840.45 | 10156.83 |
| 360.0 | 14552.46 | 14236.95 | 13788.58 | 13212.90 | 11027.54 | 11027.54 | 10595.23 | 9731.72 | 8863.77 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 7850.80 | 7110.72 | 6433.20 | 5677.07 | 5140.14 | 4658.56 | 4122.18 | 3745.22 | 3349.45 |
| 45.0 | 8535.53 | 7755.04 | 7035.44 | 6205.14 | 5618.39 | 5087.00 | 4605.42 | 4079.56 | 3703.16 |
| 90.0 | 7624.40 | 6902.04 | 6061.77 | 5473.36 | 4947.50 | 4490.84 | 3978.26 | 3622.34 | 3255.35 |
| 135.0 | 8568.74 | 7600.05 | 6891.52 | 6227.28 | 5496.61 | 4965.22 | 4489.18 | 3968.85 | 3614.59 |
| 180.0 | 9864.01 | 8972.82 | 8186.80 | 7384.17 | 6504.05 | 5889.62 | 5330.55 | 4804.69 | 4240.09 |
| 225.0 | 9123.93 | 8267.06 | 7500.97 | 6802.96 | 6004.20 | 5431.85 | 4911.52 | 4329.76 | 3915.16 |
| 270.0 | 10389.87 | 9504.21 | 8446.96 | 7627.73 | 6902.59 | 6260.49 | 5535.36 | 5015.04 | 4422.75 |
| 315.0 | 9261.76 | 8177.94 | 7408.53 | 6707.75 | 6064.54 | 5365.42 | 4860.60 | 4408.91 | 4007.05 |
| 360.0 | 7850.80 | 7110.72 | 6433.20 | 5677.07 | 5140.14 | 4658.56 | 4122.18 | 3745.22 | 3349.45 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 3076.55 | 2830.78 | 2617.12 | 2430.02 | 2219.13 | 2064.69 | 1919.11 | 1783.49 | 1617.99 |
| 45.0 | 3321.22 | 3044.45 | 2806.43 | 2806.43 | 2361.38 | 2202.52 | 2053.62 | 1881.47 | 1751.94 |
| 90.0 | 3002.38 | 2773.77 | 2516.37 | 2342.01 | 2183.15 | 1998.26 | 1860.43 | 1727.59 | 1593.63 |
| 135.0 | 3304.61 | 3038.91 | 2856.25 | 2856.25 | 2353.64 | 2192.56 | 2041.44 | 1864.86 | 1730.35 |
| 180.0 | 3847.08 | 3481.74 | 3110.87 | 2861.78 | 2800.89 | 2558.44 | 2217.47 | 2066.35 | 1886.45 |
| 225.0 | 3472.88 | 3165.67 | 2903.85 | 2671.36 | 2421.17 | 2250.68 | 2090.71 | 1940.14 | 1770.21 |
| 270.0 | 4002.07 | 3642.27 | 3260.33 | 3005.70 | 2823.03 | 2823.03 | 2312.12 | 2153.81 | 2003.25 |
| 315.0 | 3578.06 | 3272.50 | 3005.70 | 2712.88 | 2511.95 | 2288.87 | 2127.79 | 1977.78 | 1838.29 |
| 360.0 | 3076.55 | 2830.78 | 2617.12 | 2430.02 | 2219.13 | 2064.69 | 1919.11 | 1783.49 | 1617.99 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 1484.03 | 1079.67 | 1079.67 | 1045.91 | 883.00 | 759.45 | 648.91 | 524.42 | 432.48 |
| 45.0 | 1620.75 | 1486.80 | 1317.42 | 1182.91 | 1050.61 | 921.08 | 766.09 | 652.62 | 524.20 |
| 90.0 | 1422.03 | 1080.39 | 1080.39 | 1014.13 | 853.17 | 730.34 | 619.24 | 496.36 | 405.80 |
| 135.0 | 1596.95 | 1428.68 | 1291.95 | 1156.34 | 989.72 | 860.75 | 711.29 | 605.57 | 511.47 |
| 180.0 | 1756.37 | 1625.74 | 1492.33 | 1324.61 | 1185.67 | 1047.29 | 912.23 | 757.79 | 644.32 |
| 225.0 | 1639.02 | 1506.17 | 1267.60 | 1095.12 | 1060.96 | 892.30 | 767.31 | 654.83 | 552.26 |
| 270.0 | 1857.11 | 1687.73 | 1551.01 | 1417.05 | 1243.24 | 1103.20 | 964.26 | 802.63 | 685.83 |
| 315.0 | 1671.68 | 1537.72 | 1401.00 | 1081.28 | 1081.28 | 942.95 | 813.75 | 694.30 | 563.00 |
| 360.0 | 1484.03 | 1079.67 | 1079.67 | 1045.91 | 883.00 | 759.45 | 648.91 | 524.42 | 432.48 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 352.05 | 283.96 | 214.38 | 171.93 | 140.04 | 116.57 | 95.60 | 83.58 | 74.73 |
| 45.0 | 429.54 | 345.41 | 291.16 | 291.16 | 160.36 | 130.86 | 106.17 | 91.67 | 80.93 |
| 90.0 | 310.87 | 248.59 | 198.83 | 160.14 | 125.87 | 106.39 | 91.72 | 80.82 | 71.13 |
| 135.0 | 422.35 | 325.48 | 291.71 | 291.71 | 164.40 | 128.03 | 107.88 | 92.16 | 80.82 |
| 180.0 | 543.57 | 427.88 | 347.07 | 294.48 | 294.48 | 164.12 | 126.70 | 105.56 | 89.56 |
| 225.0 | 436.19 | 354.04 | 285.35 | 214.94 | 171.54 | 138.49 | 114.53 | 92.77 | 80.43 |
| 270.0 | 558.52 | 467.74 | 385.81 | 314.41 | 282.86 | 282.86 | 152.00 | 125.10 | 100.52 |
| 315.0 | 470.23 | 386.09 | 296.75 | 238.41 | 180.01 | 145.41 | 119.90 | 96.81 | 83.92 |
| 360.0 | 352.05 | 283.96 | 214.38 | 171.93 | 140.04 | 116.57 | 95.60 | 83.58 | 74.73 |

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 | 66.70 | 61.94 | 58.23 | 54.74 | 52.53 | 50.48 | 49.21 | 48.43 | 48.16 |
| 45.0 | 71.24 | 65.59 | 61.00 | 57.46 | 53.97 | 51.87 | 50.26 | 48.88 | 48.32 |
| 90.0 | 65.48 | 61.06 | 57.51 | 54.08 | 51.92 | 49.93 | 48.82 | 48.21 | 47.94 |
| 135.0 | 70.91 | 65.10 | 59.67 | 56.18 | 53.47 | 50.81 | 49.26 | 48.16 | 47.44 |
| 180.0 | 78.16 | 69.97 | 62.55 | 58.29 | 54.97 | 52.36 | 49.71 | 48.21 | 47.00 |
| 225.0 | 71.63 | 65.04 | 58.95 | 55.35 | 51.92 | 49.76 | 48.16 | 46.77 | 46.11 |
| 270.0 | 86.41 | 76.22 | 68.69 | 61.72 | 57.51 | 54.30 | 51.26 | 49.38 | 47.99 |
| 315.0 | 74.56 | 67.70 | 61.44 | 57.62 | 54.80 | 52.42 | 50.26 | 48.99 | 48.21 |
| 360.0 | 66.70 | 61.94 | 58.23 | 54.74 | 52.53 | 50.48 | 49.21 | 48.43 | 48.16 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 48.16 | 48.66 | 49.04 | 49.04 | 48.55 | 46.83 | 44.67 | 41.68 | 37.92 |
| 45.0 | 48.16 | 48.38 | 48.77 | 49.10 | 49.04 | 48.32 | 46.66 | 44.34 | 40.30 |
| 90.0 | 47.99 | 48.43 | 48.71 | 48.43 | 47.66 | 45.94 | 42.90 | 39.80 | 36.75 |
| 135.0 | 47.11 | 47.11 | 47.49 | 47.71 | 47.38 | 46.77 | 45.28 | 42.23 | 39.25 |
| 180.0 | 46.55 | 46.44 | 46.83 | 47.44 | 48.10 | 48.43 | 47.94 | 46.83 | 44.84 |
| 225.0 | 45.94 | 46.22 | 46.72 | 47.44 | 47.83 | 47.66 | 46.66 | 44.95 | 42.35 |
| 270.0 | 47.05 | 46.66 | 46.66 | 47.11 | 47.66 | 48.05 | 48.05 | 46.83 | 45.11 |
| 315.0 | 47.66 | 47.83 | 48.32 | 48.82 | 49.04 | 48.77 | 47.55 | 45.56 | 42.79 |
| 360.0 | 48.16 | 48.66 | 49.04 | 49.04 | 48.55 | 46.83 | 44.67 | 41.68 | 37.92 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 35.04 | 32.33 | 30.56 | 29.28 | 28.12 | 26.85 | 26.02 | 25.24 | 24.30 |
| 45.0 | 37.14 | 34.43 | 32.33 | 30.33 | 29.01 | 27.62 | 26.63 | 25.79 | 24.80 |
| 90.0 | 34.10 | 31.55 | 29.95 | 28.67 | 27.34 | 26.40 | 25.41 | 24.69 | 24.02 |
| 135.0 | 36.26 | 33.21 | 31.22 | 29.45 | 28.29 | 27.29 | 26.40 | 25.41 | 24.69 |
| 180.0 | 41.40 | 38.30 | 35.26 | 32.94 | 30.61 | 29.23 | 28.12 | 26.90 | 26.02 |
| 225.0 | 38.64 | 35.59 | 32.66 | 30.72 | 29.34 | 27.90 | 26.96 | 26.13 | 25.35 |
| 270.0 | 42.51 | 39.41 | 35.65 | 33.27 | 31.27 | 29.45 | 28.34 | 27.12 | 26.24 |
| 315.0 | 39.52 | 35.76 | 33.27 | 31.27 | 29.84 | 28.29 | 27.34 | 26.40 | 25.46 |
| 360.0 | 35.04 | 32.33 | 30.56 | 29.28 | 28.12 | 26.85 | 26.02 | 25.24 | 24.30 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 23.69 | 23.08 | 22.53 | 22.09 | 21.42 | 20.98 | 20.43 | 19.93 | 19.48 |
| 45.0 | 24.08 | 23.47 | 22.92 | 22.31 | 21.81 | 21.31 | 20.87 | 20.31 | 19.82 |
| 90.0 | 23.41 | 22.75 | 22.25 | 21.75 | 21.31 | 20.76 | 20.31 | 19.82 | 19.32 |
| 135.0 | 24.02 | 23.41 | 22.81 | 22.20 | 21.70 | 21.20 | 20.65 | 20.20 | 19.65 |
| 180.0 | 25.08 | 24.36 | 23.75 | 23.03 | 22.47 | 21.98 | 21.48 | 21.03 | 20.48 |
| 225.0 | 24.41 | 23.80 | 23.25 | 22.64 | 21.98 | 21.53 | 21.03 | 20.48 | 19.98 |
| 270.0 | 25.46 | 24.74 | 23.97 | 23.36 | 22.75 | 22.20 | 21.53 | 21.09 | 20.65 |
| 315.0 | 24.69 | 23.86 | 23.25 | 22.64 | 22.14 | 21.48 | 21.03 | 20.59 | 20.15 |
| 360.0 | 23.69 | 23.08 | 22.53 | 22.09 | 21.42 | 20.98 | 20.43 | 19.93 | 19.48 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 18.99 | 18.60 | 18.10 | 17.60 | 17.27 | 16.88 | 16.55 | 16.22 | 16.00 |
| 45.0 | 19.37 | 18.82 | 18.38 | 17.82 | 17.38 | 16.99 | 16.66 | 16.27 | 15.94 |
| 90.0 | 18.76 | 18.27 | 17.82 | 17.38 | 16.99 | 16.66 | 16.33 | 15.94 | 15.83 |
| 135.0 | 19.15 | 18.76 | 18.10 | 17.71 | 17.38 | 16.99 | 16.66 | 16.27 | 15.89 |
| 180.0 | 20.04 | 19.48 | 18.93 | 18.38 | 17.93 | 17.49 | 17.21 | 16.88 | 16.55 |
| 225.0 | 19.54 | 18.99 | 18.49 | 18.05 | 17.60 | 17.16 | 16.94 | 16.61 | 16.44 |
| 270.0 | 20.04 | 19.54 | 18.93 | 18.49 | 17.99 | 17.55 | 17.21 | 16.88 | 16.55 |
| 315.0 | 19.54 | 18.93 | 18.54 | 18.05 | 17.66 | 17.27 | 16.88 | 16.66 | 16.44 |
| 360.0 | 18.99 | 18.60 | 18.10 | 17.60 | 17.27 | 16.88 | 16.55 | 16.22 | 16.00 |

Intensity data(cd)

| | |
|--------|-------|
| C/γ(°) | 90.0 |
| 0.0 | 16.00 |
| 45.0 | 15.89 |
| 90.0 | 15.83 |
| 135.0 | 15.94 |
| 180.0 | 16.05 |
| 225.0 | 16.11 |
| 270.0 | 16.16 |
| 315.0 | 15.89 |
| 360.0 | 16.00 |