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NATA

Client:

LumCAT: 2-2644-L

Luminaire: 92.70.412.00

Report No: 20231013-B005

Ballast type: AC

Test No: 20231013-C005

Voltage(V): 34.270

LampCAT: LUMINUS CXM-14-AC40

Current(A): 0.530

Lamp flux(lm): 2320.0

Power (W): 18.163

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2108.09, Efficiency(%): 90.87% , Luminous Efficacy(lm/W): 116.07

Central intensity(cd): 7203.164, Maximum intensity(cd): 7203.164

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=25.6

[C90/270]Total=25.6

Field angle(10%Imax): [C0/180]Total=56.4

[C90/270]Total=56.4

Maximum s/h(1/2): C0_180=0.43 C90_270=0.43

Maximum s/h(1/4): C0_180=0.47 C90_270=0.47

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 90.87%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.065%

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 7203.164 | 0.000 | 0 | 0.00% | 0.00% |
| 1.0 | 7167.876 | 6.876 | 6.876 | 0.30% | 0.33% |
| 2.0 | 7054.055 | 20.413 | 27.289 | 0.88% | 1.29% |
| 3.0 | 6880.729 | 33.327 | 60.616 | 1.44% | 2.88% |
| 4.0 | 6652.811 | 45.301 | 105.917 | 1.95% | 5.02% |
| 5.0 | 6392.165 | 56.119 | 162.036 | 2.42% | 7.69% |
| 6.0 | 6085.921 | 65.576 | 227.612 | 2.83% | 10.80% |
| 7.0 | 5753.246 | 73.486 | 301.097 | 3.17% | 14.28% |
| 8.0 | 5405.071 | 79.858 | 380.955 | 3.44% | 18.07% |
| 9.0 | 5024.723 | 84.528 | 465.483 | 3.64% | 22.08% |
| 10.0 | 4631.159 | 87.382 | 552.865 | 3.77% | 26.23% |
| 11.0 | 4246.105 | 88.702 | 641.567 | 3.82% | 30.43% |
| 12.0 | 3871.292 | 88.735 | 730.302 | 3.82% | 34.64% |
| 13.0 | 3517.099 | 87.682 | 817.984 | 3.78% | 38.80% |
| 14.0 | 3196.255 | 85.930 | 903.914 | 3.70% | 42.88% |
| 15.0 | 2919.626 | 83.962 | 987.876 | 3.62% | 46.86% |
| 16.0 | 2646.456 | 81.559 | 1069.434 | 3.52% | 50.73% |
| 17.0 | 2413.417 | 78.796 | 1148.23 | 3.40% | 54.47% |
| 18.0 | 2193.594 | 75.960 | 1224.19 | 3.27% | 58.07% |
| 19.0 | 1997.435 | 72.915 | 1297.105 | 3.14% | 61.53% |
| 20.0 | 1808.679 | 69.662 | 1366.768 | 3.00% | 64.83% |
| 21.0 | 1636.114 | 66.147 | 1432.915 | 2.85% | 67.97% |
| 22.0 | 1455.973 | 62.137 | 1495.051 | 2.68% | 70.92% |
| 23.0 | 1275.838 | 57.321 | 1552.372 | 2.47% | 73.64% |
| 24.0 | 1180.429 | 53.703 | 1606.075 | 2.31% | 76.19% |
| 25.0 | 1083.152 | 51.469 | 1657.544 | 2.22% | 78.63% |
| 26.0 | 968.197 | 48.422 | 1705.966 | 2.09% | 80.92% |
| 27.0 | 850.162 | 44.487 | 1750.453 | 1.92% | 83.03% |
| 28.0 | 742.486 | 40.322 | 1790.775 | 1.74% | 84.95% |
| 29.0 | 641.403 | 36.206 | 1826.982 | 1.56% | 86.67% |
| 30.0 | 549.025 | 32.141 | 1859.123 | 1.39% | 88.19% |
| 31.0 | 460.798 | 28.102 | 1887.225 | 1.21% | 89.52% |
| 32.0 | 391.142 | 24.407 | 1911.632 | 1.05% | 90.68% |
| 33.0 | 323.203 | 21.045 | 1932.677 | 0.91% | 91.68% |
| 34.0 | 265.711 | 17.822 | 1950.499 | 0.77% | 92.52% |
| 35.0 | 237.031 | 15.613 | 1966.112 | 0.67% | 93.26% |
| 36.0 | 191.171 | 13.634 | 1979.746 | 0.59% | 93.91% |
| 37.0 | 140.280 | 10.810 | 1990.556 | 0.47% | 94.42% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 113.593 | 8.474 | 1999.03 | 0.37% | 94.83% |
| 39.0 | 92.959 | 7.050 | 2006.081 | 0.30% | 95.16% |
| 40.0 | 77.779 | 5.955 | 2012.035 | 0.26% | 95.44% |
| 41.0 | 65.663 | 5.108 | 2017.143 | 0.22% | 95.69% |
| 42.0 | 56.993 | 4.456 | 2021.599 | 0.19% | 95.90% |
| 43.0 | 50.399 | 3.978 | 2025.578 | 0.17% | 96.09% |
| 44.0 | 44.968 | 3.599 | 2029.177 | 0.16% | 96.26% |
| 45.0 | 40.630 | 3.290 | 2032.467 | 0.14% | 96.41% |
| 46.0 | 37.288 | 3.047 | 2035.514 | 0.13% | 96.56% |
| 47.0 | 34.347 | 2.849 | 2038.363 | 0.12% | 96.69% |
| 48.0 | 32.043 | 2.684 | 2041.047 | 0.12% | 96.82% |
| 49.0 | 29.932 | 2.545 | 2043.592 | 0.11% | 96.94% |
| 50.0 | 28.237 | 2.425 | 2046.017 | 0.10% | 97.06% |
| 51.0 | 26.881 | 2.332 | 2048.349 | 0.10% | 97.17% |
| 52.0 | 25.781 | 2.260 | 2050.609 | 0.10% | 97.27% |
| 53.0 | 24.895 | 2.204 | 2052.813 | 0.10% | 97.38% |
| 54.0 | 24.183 | 2.163 | 2054.976 | 0.09% | 97.48% |
| 55.0 | 23.560 | 2.131 | 2057.108 | 0.09% | 97.58% |
| 56.0 | 22.958 | 2.102 | 2059.21 | 0.09% | 97.68% |
| 57.0 | 22.384 | 2.073 | 2061.283 | 0.09% | 97.78% |
| 58.0 | 21.789 | 2.043 | 2063.325 | 0.09% | 97.88% |
| 59.0 | 21.180 | 2.009 | 2065.334 | 0.09% | 97.97% |
| 60.0 | 20.467 | 1.968 | 2067.302 | 0.08% | 98.06% |
| 61.0 | 19.713 | 1.917 | 2069.219 | 0.08% | 98.16% |
| 62.0 | 19.055 | 1.868 | 2071.087 | 0.08% | 98.24% |
| 63.0 | 18.384 | 1.821 | 2072.908 | 0.08% | 98.33% |
| 64.0 | 17.769 | 1.774 | 2074.682 | 0.08% | 98.42% |
| 65.0 | 17.215 | 1.731 | 2076.413 | 0.07% | 98.50% |
| 66.0 | 16.668 | 1.691 | 2078.104 | 0.07% | 98.58% |
| 67.0 | 16.115 | 1.648 | 2079.752 | 0.07% | 98.66% |
| 68.0 | 15.520 | 1.603 | 2081.355 | 0.07% | 98.73% |
| 69.0 | 14.980 | 1.556 | 2082.911 | 0.07% | 98.81% |
| 70.0 | 14.433 | 1.511 | 2084.421 | 0.07% | 98.88% |
| 71.0 | 13.908 | 1.465 | 2085.886 | 0.06% | 98.95% |
| 72.0 | 13.409 | 1.420 | 2087.307 | 0.06% | 99.01% |
| 73.0 | 12.967 | 1.379 | 2088.686 | 0.06% | 99.08% |
| 74.0 | 12.593 | 1.344 | 2090.03 | 0.06% | 99.14% |
| 75.0 | 12.261 | 1.313 | 2091.343 | 0.06% | 99.21% |

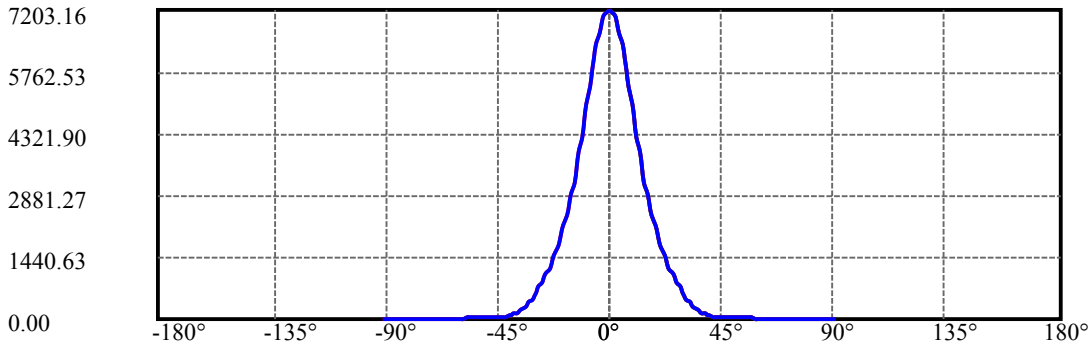
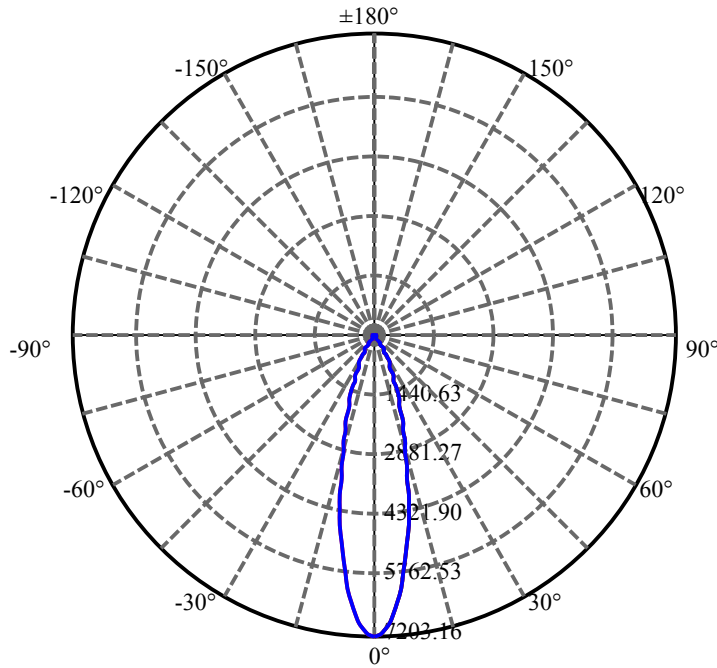
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 11.956 | 1.286 | 2092.628 | 0.06% | 99.27% |
| 77.0 | 11.680 | 1.260 | 2093.889 | 0.05% | 99.33% |
| 78.0 | 11.396 | 1.235 | 2095.124 | 0.05% | 99.38% |
| 79.0 | 11.133 | 1.210 | 2096.334 | 0.05% | 99.44% |
| 80.0 | 10.877 | 1.187 | 2097.521 | 0.05% | 99.50% |
| 81.0 | 10.628 | 1.163 | 2098.684 | 0.05% | 99.55% |
| 82.0 | 10.379 | 1.139 | 2099.823 | 0.05% | 99.61% |
| 83.0 | 10.130 | 1.115 | 2100.938 | 0.05% | 99.66% |
| 84.0 | 9.915 | 1.092 | 2102.03 | 0.05% | 99.71% |
| 85.0 | 9.680 | 1.069 | 2103.099 | 0.05% | 99.76% |
| 86.0 | 9.389 | 1.042 | 2104.142 | 0.04% | 99.81% |
| 87.0 | 9.161 | 1.015 | 2105.157 | 0.04% | 99.86% |
| 88.0 | 8.974 | 0.993 | 2106.15 | 0.04% | 99.91% |
| 89.0 | 8.857 | 0.977 | 2107.128 | 0.04% | 99.95% |
| 90.0 | 8.774 | 0.967 | 2108.094 | 0.04% | 100.00% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 1859.12 | 80.14% | 88.19% |
| 0-40 | 2012.04 | 86.73% | 95.44% |
| 0-60 | 2067.30 | 89.11% | 98.06% |
| 0-90 | 2107.13 | 90.83% | 99.95% |
| 0-120 | 2107.13 | 90.83% | 99.95% |
| 0-180 | 2108.09 | 90.87% | 100.00% |
| 60-90 | 39.83 | 1.72% | 1.89% |
| 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% |
| 0-25.60 | 1686.48 | 72.69% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 552.87 |
| 10-20 | 813.90 |
| 20-30 | 492.36 |
| 30-40 | 152.91 |
| 40-50 | 33.98 |
| 50-60 | 21.28 |
| 60-70 | 17.12 |
| 70-80 | 13.10 |
| 80-90 | 9.61 |
| 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: —————

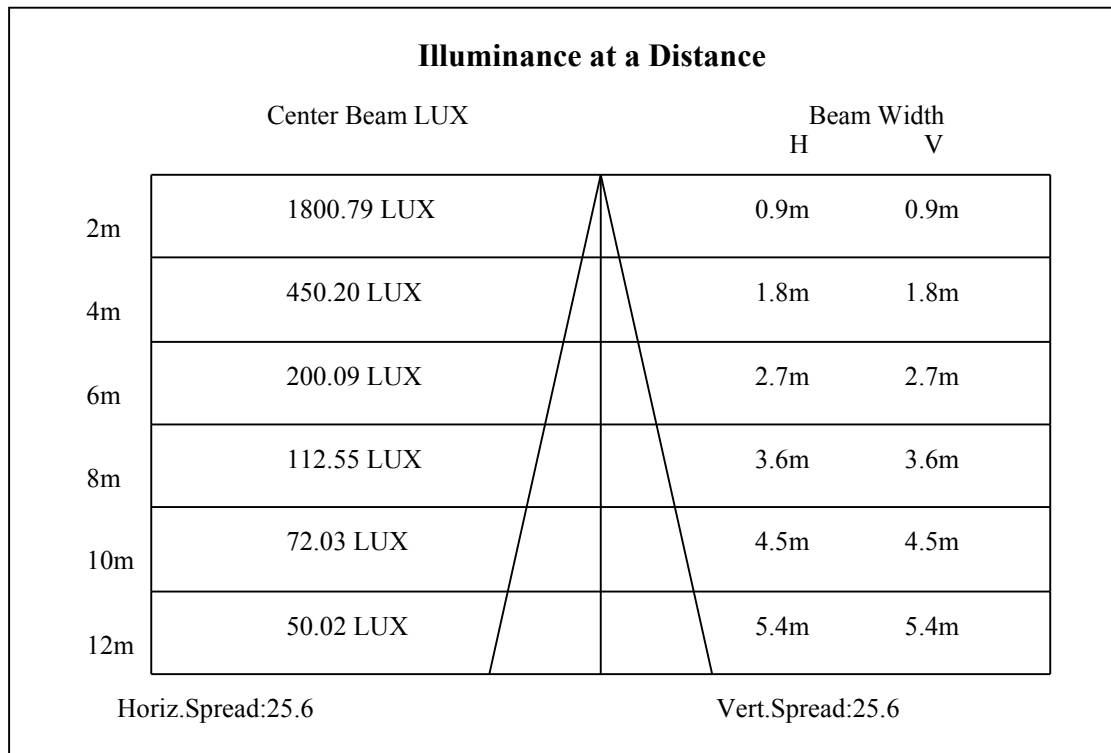
C90/C270: —————

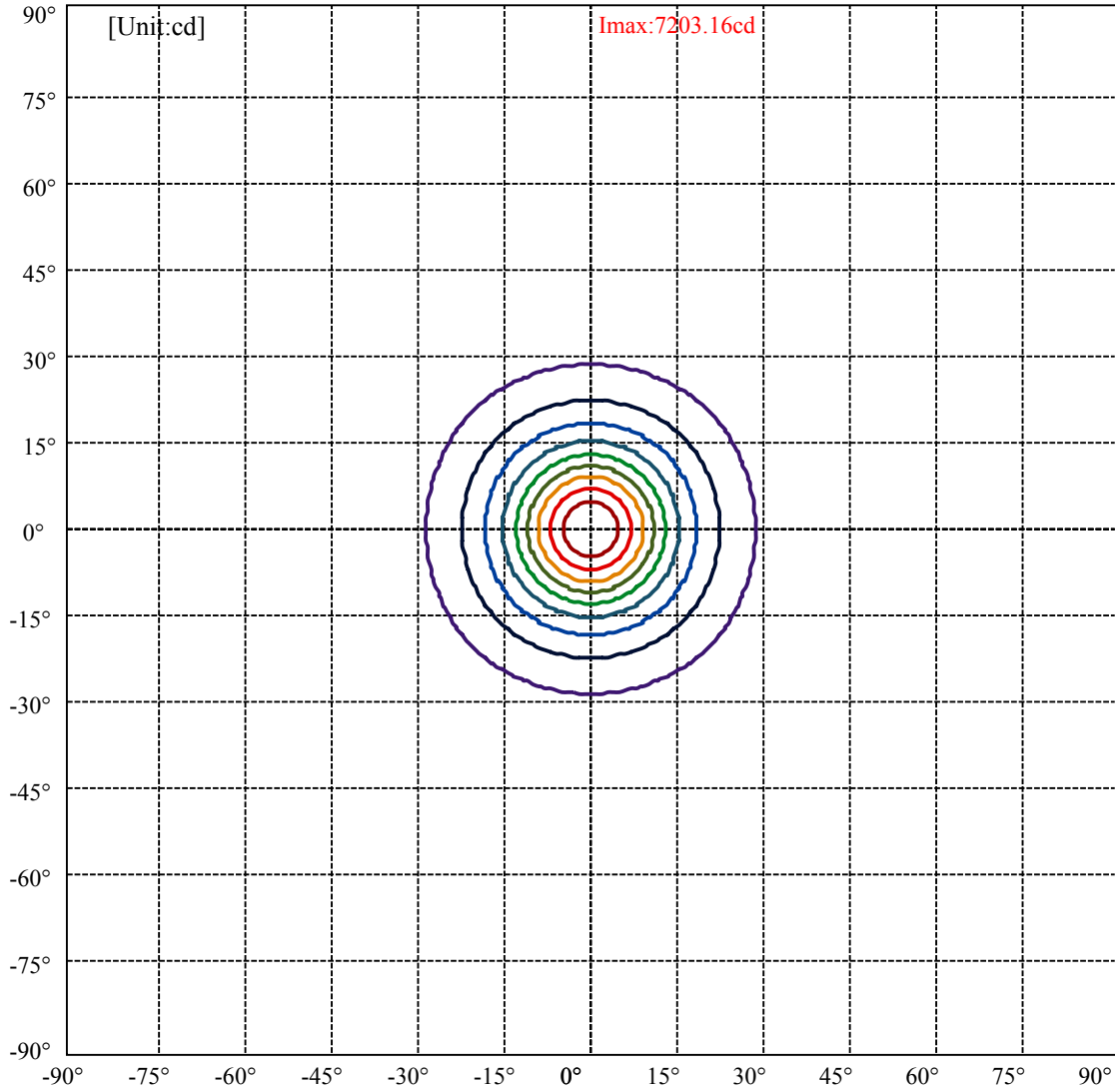
Field angle(10%Imax):C0/180Left:28.2 Right:28.2

:C90/270Left:28.2 Right:28.2

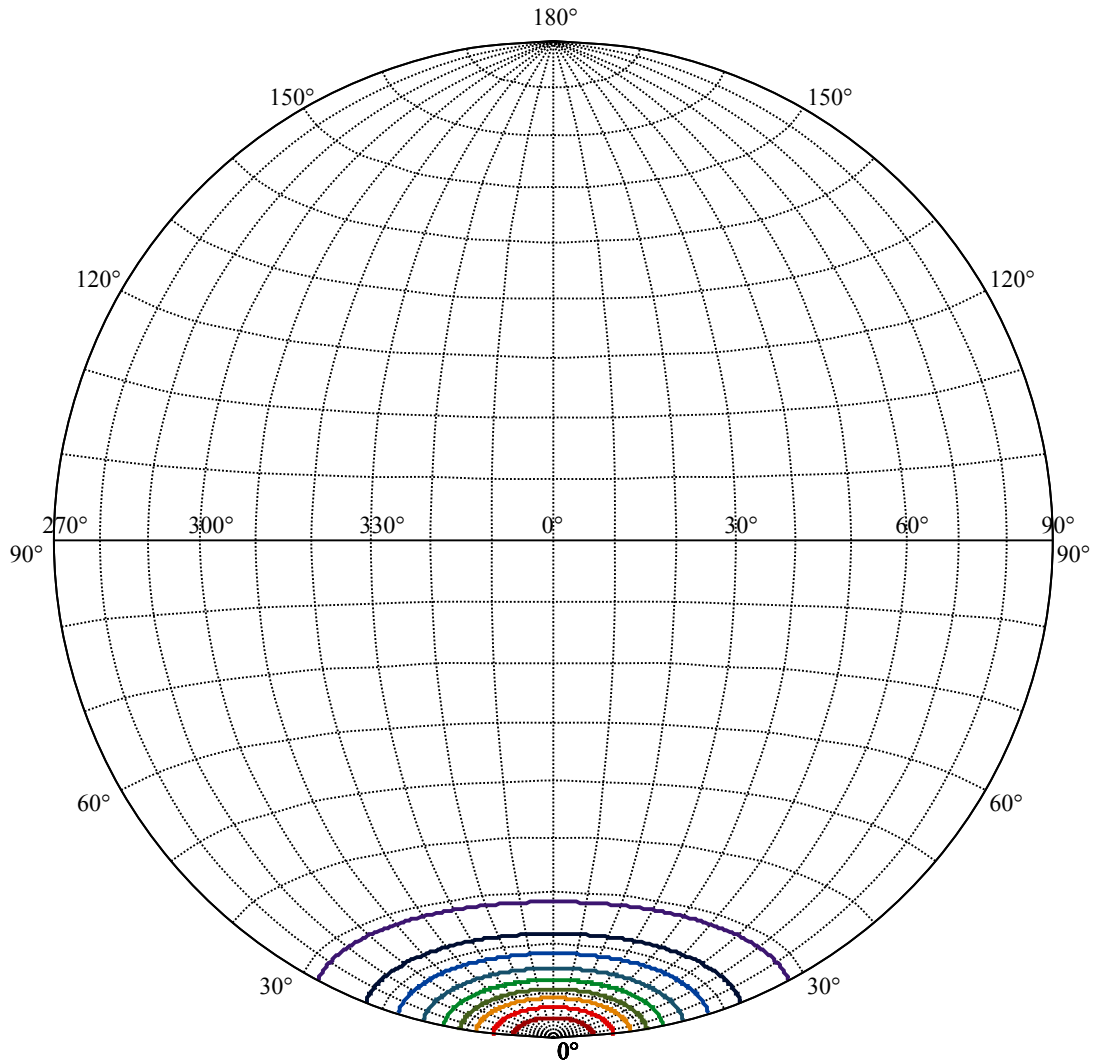
Beam Angle(50%Imax):C0/180Left:12.8 Right:12.8

:C90/270Left:12.8 Right:12.8





| | |
|-------------------|---|
| (10%Imax) 720.316 | — |
| (20%Imax) 1440.63 | — |
| (30%Imax) 2160.95 | — |
| (40%Imax) 2881.27 | — |
| (50%Imax) 3601.58 | — |
| (60%Imax) 4321.9 | — |
| (70%Imax) 5042.21 | — |
| (80%Imax) 5762.53 | — |
| (90%Imax) 6482.85 | — |



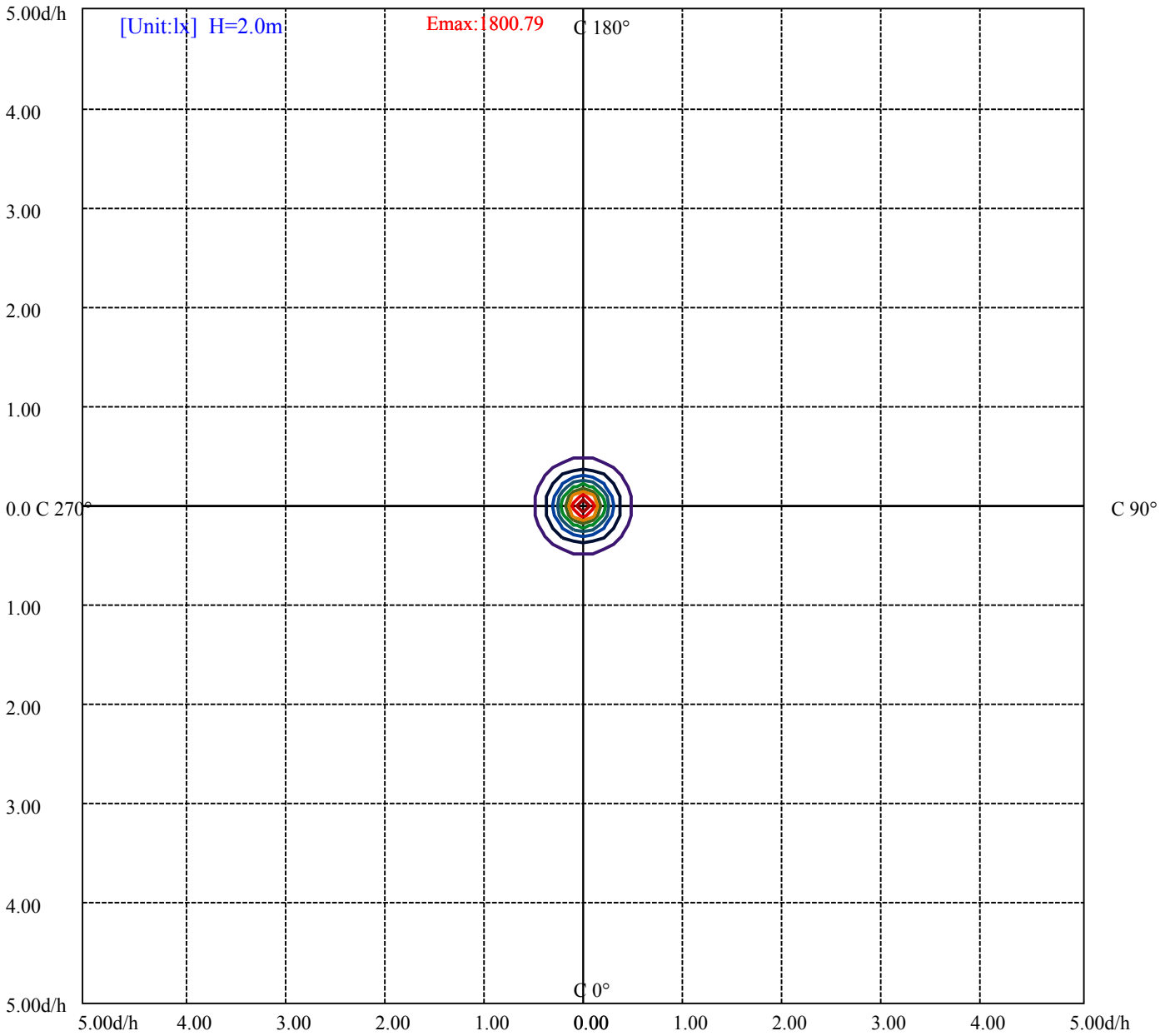
House

[Unit:cd]

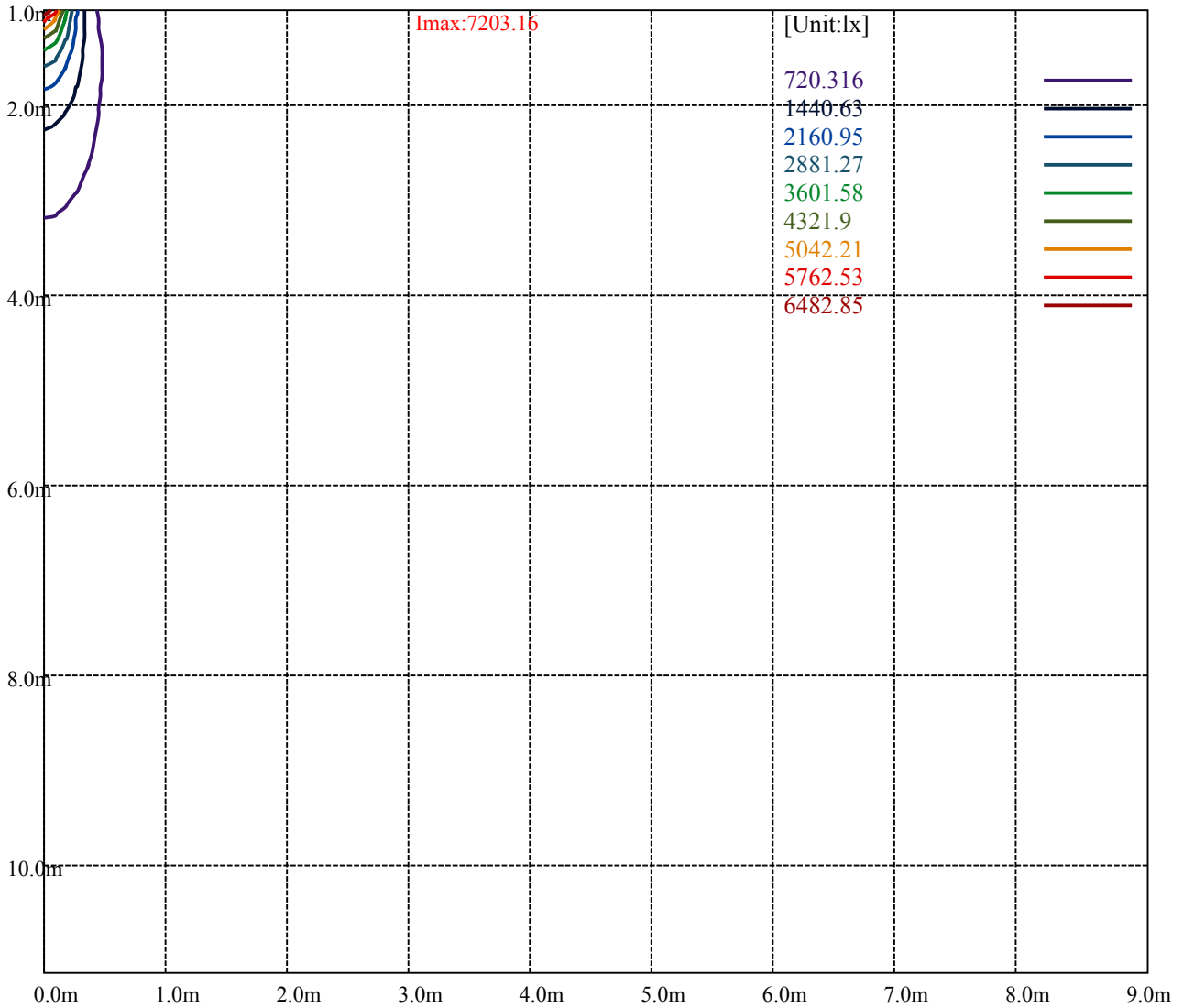
Road

Imax:7203.16

| | | |
|-----------|---------|---|
| (10%Imax) | 720.316 | — |
| (20%Imax) | 1440.63 | — |
| (30%Imax) | 2160.95 | — |
| (40%Imax) | 2881.27 | — |
| (50%Imax) | 3601.58 | — |
| (60%Imax) | 4321.9 | — |
| (70%Imax) | 5042.21 | — |
| (80%Imax) | 5762.53 | — |
| (90%Imax) | 6482.85 | — |



| | |
|--------------------|---|
| (10%Emax) 180.079 | — |
| (20%Emax) 360.1575 | — |
| (30%Emax) 540.2375 | — |
| (40%Emax) 720.315 | — |
| (50%Emax) 900.395 | — |
| (60%Emax) 1080.475 | — |
| (70%Emax) 1260.552 | — |
| (80%Emax) 1440.632 | — |
| (90%Emax) 1620.71 | — |



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

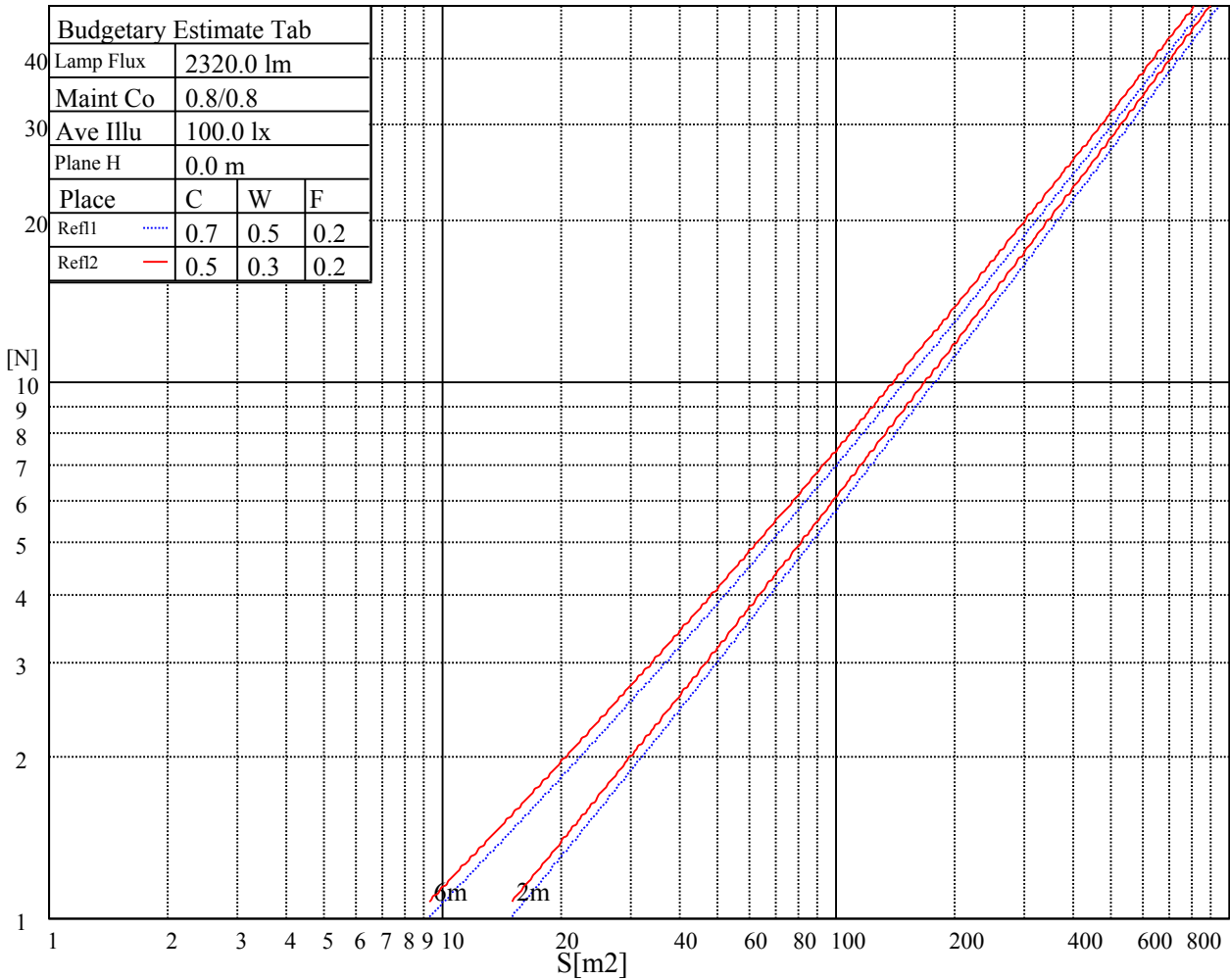
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 |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

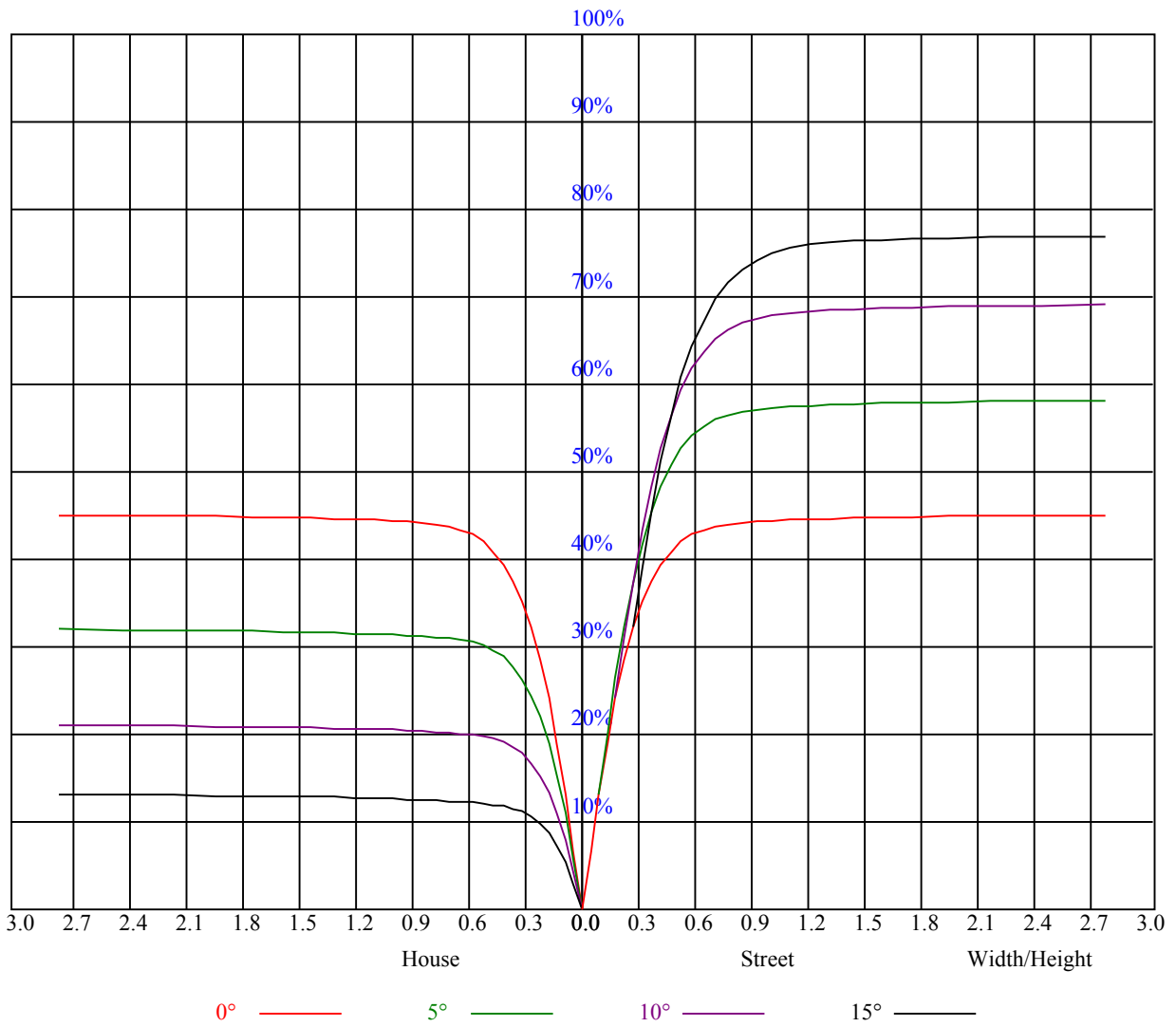


| Illumination assessment according UGR | | | | | | | | | | | |
|---|-----|------------------|-----|-----|-----|-----|----------------|-----|-----|-----|--|
| Rf of Ceiling | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | |
| Rf of Wall | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | |
| Rf of 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 | 1.08 | 1.08 | 1.08 | 1.06 | 1.06 | 1.06 | 1.01 | 1.01 | 1.01 | 0.97 | 0.97 | 0.97 | 0.93 | 0.93 | 0.93 | 0.91 |
| 1 | 1.01 | 0.99 | 0.98 | 1.00 | 0.98 | 0.96 | 0.96 | 0.94 | 0.93 | 0.93 | 0.91 | 0.90 | 0.89 | 0.89 | 0.88 | 0.86 |
| 2 | 0.96 | 0.93 | 0.90 | 0.94 | 0.91 | 0.89 | 0.91 | 0.89 | 0.87 | 0.89 | 0.87 | 0.85 | 0.86 | 0.85 | 0.83 | 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 | 0.80 | 0.78 |
| 4 | 0.86 | 0.82 | 0.79 | 0.85 | 0.82 | 0.79 | 0.84 | 0.80 | 0.78 | 0.82 | 0.79 | 0.77 | 0.80 | 0.78 | 0.76 | 0.75 |
| 5 | 0.83 | 0.78 | 0.75 | 0.82 | 0.78 | 0.75 | 0.80 | 0.77 | 0.74 | 0.79 | 0.76 | 0.73 | 0.77 | 0.75 | 0.73 | 0.72 |
| 6 | 0.79 | 0.75 | 0.71 | 0.78 | 0.74 | 0.71 | 0.77 | 0.73 | 0.71 | 0.76 | 0.73 | 0.70 | 0.75 | 0.72 | 0.70 | 0.69 |
| 7 | 0.76 | 0.71 | 0.68 | 0.75 | 0.71 | 0.68 | 0.74 | 0.70 | 0.68 | 0.73 | 0.70 | 0.67 | 0.72 | 0.69 | 0.67 | 0.66 |
| 8 | 0.73 | 0.69 | 0.66 | 0.72 | 0.68 | 0.65 | 0.72 | 0.68 | 0.65 | 0.71 | 0.67 | 0.65 | 0.70 | 0.67 | 0.65 | 0.64 |
| 9 | 0.70 | 0.66 | 0.63 | 0.70 | 0.66 | 0.63 | 0.69 | 0.65 | 0.63 | 0.68 | 0.65 | 0.63 | 0.68 | 0.65 | 0.62 | 0.61 |
| 10 | 0.68 | 0.64 | 0.61 | 0.67 | 0.63 | 0.61 | 0.67 | 0.63 | 0.60 | 0.66 | 0.63 | 0.60 | 0.65 | 0.62 | 0.60 | 0.59 |



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 | 7146.70 | 7007.21 | 6826.21 | 6623.06 | 6305.88 | 5995.35 | 5607.32 | 5274.09 | 4924.26 |
| 45.0 | 7220.88 | 7233.05 | 7157.77 | 6954.63 | 6747.60 | 6499.62 | 6149.78 | 5820.43 | 5508.24 |
| 90.0 | 7232.50 | 7177.70 | 7003.89 | 6780.26 | 6516.78 | 6226.73 | 5845.89 | 5511.56 | 5165.04 |
| 135.0 | 7212.57 | 7202.06 | 7126.22 | 6952.97 | 6741.51 | 6494.08 | 6221.19 | 5845.34 | 5518.20 |
| 180.0 | 7146.70 | 7212.57 | 7184.34 | 7097.99 | 6953.52 | 6717.71 | 6500.17 | 6229.49 | 5855.86 |
| 225.0 | 7220.88 | 7148.36 | 6997.80 | 6822.88 | 6623.61 | 6329.13 | 6034.10 | 5719.13 | 5364.87 |
| 270.0 | 7232.50 | 7223.64 | 7141.17 | 6997.80 | 6778.60 | 6568.26 | 6318.61 | 6023.58 | 5643.85 |
| 315.0 | 7212.57 | 7138.40 | 6995.03 | 6816.24 | 6554.97 | 6306.44 | 6010.29 | 5602.34 | 5260.25 |
| 360.0 | 7146.70 | 7007.21 | 6826.21 | 6623.06 | 6305.88 | 5995.35 | 5607.32 | 5274.09 | 4924.26 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 4484.20 | 4118.86 | 3765.71 | 3431.92 | 3080.43 | 2824.14 | 2581.69 | 2356.40 | 2107.87 |
| 45.0 | 5089.76 | 4743.80 | 4387.88 | 3945.05 | 3603.52 | 3298.52 | 3023.97 | 2703.47 | 2483.16 |
| 90.0 | 4820.19 | 4384.01 | 4033.62 | 3686.55 | 3300.18 | 3019.54 | 2757.72 | 2461.57 | 2266.18 |
| 135.0 | 5167.81 | 4705.61 | 4349.69 | 3995.42 | 3578.06 | 3276.93 | 3004.04 | 2680.77 | 2446.63 |
| 180.0 | 5518.20 | 5172.24 | 4711.70 | 4334.74 | 3967.19 | 3552.04 | 3256.45 | 2979.68 | 2671.36 |
| 225.0 | 4914.85 | 4555.60 | 4085.65 | 3749.10 | 3447.98 | 3100.36 | 2840.75 | 2600.51 | 2384.63 |
| 270.0 | 5303.98 | 4937.54 | 4563.90 | 4103.36 | 3751.87 | 3440.23 | 3092.05 | 2827.46 | 2598.85 |
| 315.0 | 4898.79 | 4431.61 | 4070.70 | 3724.19 | 3407.57 | 3058.29 | 2800.34 | 2561.76 | 2348.65 |
| 360.0 | 4484.20 | 4118.86 | 3765.71 | 3431.92 | 3080.43 | 2824.14 | 2581.69 | 2356.40 | 2107.87 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 1925.20 | 1756.37 | 1600.27 | 1426.46 | 1092.40 | 1092.40 | 1037.44 | 933.54 | 807.22 |
| 45.0 | 2278.91 | 2086.83 | 1864.86 | 1703.23 | 1519.46 | 1383.84 | 1260.40 | 1111.50 | 1000.24 |
| 90.0 | 2078.53 | 1854.90 | 1691.61 | 1538.28 | 1396.57 | 1085.48 | 1085.48 | 1003.62 | 898.55 |
| 135.0 | 2244.03 | 2057.49 | 1836.08 | 1677.21 | 1529.42 | 1392.14 | 1233.83 | 1114.27 | 1003.01 |
| 180.0 | 2454.38 | 2226.32 | 2043.65 | 1828.33 | 1661.72 | 1503.40 | 1375.54 | 1226.08 | 1112.05 |
| 225.0 | 2136.10 | 1951.21 | 1779.62 | 1623.52 | 1450.82 | 1233.83 | 1089.03 | 1089.03 | 958.95 |
| 270.0 | 2329.83 | 2129.45 | 1907.49 | 1741.42 | 1580.90 | 1431.44 | 1277.56 | 1156.34 | 1040.09 |
| 315.0 | 2101.78 | 1916.90 | 1745.85 | 1550.45 | 1416.50 | 1084.16 | 1084.16 | 1030.85 | 925.46 |
| 360.0 | 1925.20 | 1756.37 | 1600.27 | 1426.46 | 1092.40 | 1092.40 | 1037.44 | 933.54 | 807.22 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 708.30 | 615.92 | 533.11 | 440.34 | 372.03 | 309.48 | 255.90 | 199.22 | 162.19 |
| 45.0 | 891.19 | 785.47 | 664.24 | 575.68 | 495.97 | 425.12 | 343.75 | 287.29 | 287.29 |
| 90.0 | 771.02 | 673.32 | 579.83 | 498.79 | 409.34 | 345.41 | 274.11 | 226.01 | 184.60 |
| 135.0 | 864.62 | 757.79 | 636.57 | 548.55 | 470.51 | 399.65 | 322.71 | 281.75 | 281.75 |
| 180.0 | 976.99 | 871.27 | 774.95 | 654.28 | 562.39 | 482.68 | 409.62 | 327.69 | 286.18 |
| 225.0 | 854.83 | 729.12 | 633.96 | 545.12 | 446.65 | 376.74 | 314.91 | 261.49 | 205.69 |
| 270.0 | 934.92 | 805.95 | 701.33 | 606.68 | 500.40 | 428.44 | 362.57 | 291.71 | 291.71 |
| 315.0 | 799.42 | 701.05 | 607.23 | 522.76 | 429.10 | 361.63 | 302.06 | 250.53 | 196.84 |
| 360.0 | 708.30 | 615.92 | 533.11 | 440.34 | 372.03 | 309.48 | 255.90 | 199.22 | 162.19 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 132.57 | 108.83 | 85.91 | 72.40 | 60.06 | 53.03 | 47.55 | 42.23 | 38.69 |
| 45.0 | 225.23 | 146.96 | 120.01 | 94.32 | 78.99 | 67.59 | 56.96 | 50.87 | 46.05 |
| 90.0 | 143.64 | 118.07 | 97.64 | 78.60 | 67.53 | 59.06 | 52.64 | 46.16 | 41.96 |
| 135.0 | 178.63 | 138.99 | 113.36 | 93.10 | 77.77 | 63.55 | 55.63 | 49.54 | 43.73 |
| 180.0 | 286.18 | 180.45 | 140.71 | 115.47 | 95.65 | 77.11 | 66.20 | 57.73 | 49.54 |
| 225.0 | 168.77 | 138.66 | 114.64 | 91.78 | 77.88 | 67.25 | 57.18 | 51.04 | 46.00 |
| 270.0 | 233.09 | 158.37 | 132.30 | 111.32 | 93.94 | 76.72 | 65.65 | 56.96 | 50.54 |
| 315.0 | 161.25 | 131.91 | 104.18 | 86.68 | 70.41 | 61.00 | 54.14 | 48.66 | 43.23 |
| 360.0 | 132.57 | 108.83 | 85.91 | 72.40 | 60.06 | 53.03 | 47.55 | 42.23 | 38.69 |

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 | 35.65 | 32.49 | 30.44 | 28.67 | 27.18 | 25.79 | 24.80 | 24.13 | 23.53 |
| 45.0 | 41.24 | 38.14 | 35.26 | 32.88 | 30.28 | 28.51 | 27.18 | 26.13 | 24.96 |
| 90.0 | 38.47 | 35.54 | 32.55 | 30.50 | 28.73 | 27.01 | 25.91 | 24.74 | 24.02 |
| 135.0 | 40.08 | 36.31 | 33.71 | 31.55 | 29.17 | 27.62 | 26.40 | 25.41 | 24.47 |
| 180.0 | 44.45 | 40.46 | 36.48 | 33.82 | 31.55 | 29.61 | 27.68 | 26.40 | 25.35 |
| 225.0 | 41.07 | 37.97 | 34.65 | 32.55 | 30.67 | 29.17 | 27.57 | 26.46 | 25.63 |
| 270.0 | 44.39 | 40.63 | 37.53 | 34.87 | 32.16 | 30.33 | 28.51 | 27.34 | 26.29 |
| 315.0 | 39.69 | 36.75 | 34.15 | 31.50 | 29.72 | 27.84 | 27.01 | 25.63 | 24.91 |
| 360.0 | 35.65 | 32.49 | 30.44 | 28.67 | 27.18 | 25.79 | 24.80 | 24.13 | 23.53 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 22.92 | 22.36 | 21.75 | 21.26 | 20.76 | 19.93 | 19.32 | 18.76 | 18.21 |
| 45.0 | 24.24 | 23.69 | 22.97 | 22.42 | 21.81 | 21.26 | 20.59 | 19.82 | 19.04 |
| 90.0 | 23.41 | 22.86 | 22.14 | 21.64 | 21.15 | 20.59 | 19.71 | 19.10 | 18.60 |
| 135.0 | 23.91 | 23.36 | 22.92 | 22.42 | 21.86 | 21.37 | 20.81 | 19.87 | 19.21 |
| 180.0 | 24.52 | 23.75 | 23.14 | 22.64 | 22.03 | 21.53 | 20.92 | 20.20 | 19.60 |
| 225.0 | 24.91 | 24.13 | 23.53 | 22.81 | 22.25 | 21.42 | 20.65 | 19.71 | 19.04 |
| 270.0 | 25.35 | 24.69 | 24.08 | 23.41 | 22.58 | 22.03 | 21.37 | 20.59 | 19.71 |
| 315.0 | 24.19 | 23.64 | 23.14 | 22.47 | 21.86 | 21.31 | 20.37 | 19.65 | 19.04 |
| 360.0 | 22.92 | 22.36 | 21.75 | 21.26 | 20.76 | 19.93 | 19.32 | 18.76 | 18.21 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 17.49 | 16.99 | 16.55 | 16.00 | 15.28 | 14.78 | 14.34 | 13.73 | 13.28 |
| 45.0 | 18.49 | 17.88 | 17.33 | 16.77 | 16.27 | 15.72 | 15.17 | 14.56 | 14.06 |
| 90.0 | 17.88 | 17.33 | 16.88 | 16.27 | 15.72 | 15.17 | 14.56 | 14.12 | 13.56 |
| 135.0 | 18.49 | 17.93 | 17.44 | 16.83 | 16.27 | 15.78 | 15.28 | 14.67 | 14.17 |
| 180.0 | 18.82 | 18.21 | 17.60 | 17.10 | 16.55 | 16.00 | 15.44 | 15.00 | 14.39 |
| 225.0 | 18.43 | 17.66 | 17.10 | 16.61 | 16.05 | 15.33 | 14.78 | 14.28 | 13.78 |
| 270.0 | 19.04 | 18.43 | 17.66 | 17.10 | 16.61 | 15.89 | 15.33 | 14.67 | 14.17 |
| 315.0 | 18.43 | 17.71 | 17.16 | 16.66 | 16.16 | 15.50 | 14.95 | 14.45 | 13.84 |
| 360.0 | 17.49 | 16.99 | 16.55 | 16.00 | 15.28 | 14.78 | 14.34 | 13.73 | 13.28 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 12.90 | 12.45 | 12.18 | 11.85 | 11.57 | 11.35 | 11.07 | 10.85 | 10.57 |
| 45.0 | 13.45 | 13.01 | 12.62 | 12.18 | 11.90 | 11.62 | 11.29 | 10.96 | 10.74 |
| 90.0 | 13.06 | 12.68 | 12.34 | 12.07 | 11.68 | 11.40 | 11.13 | 10.85 | 10.57 |
| 135.0 | 13.67 | 13.23 | 12.84 | 12.57 | 12.29 | 12.01 | 11.79 | 11.51 | 11.24 |
| 180.0 | 13.95 | 13.45 | 13.01 | 12.68 | 12.40 | 12.12 | 11.85 | 11.62 | 11.29 |
| 225.0 | 13.17 | 12.79 | 12.45 | 12.07 | 11.73 | 11.40 | 11.18 | 10.90 | 10.68 |
| 270.0 | 13.73 | 13.28 | 12.79 | 12.45 | 12.18 | 11.90 | 11.51 | 11.24 | 11.02 |
| 315.0 | 13.34 | 12.84 | 12.51 | 12.23 | 11.90 | 11.62 | 11.35 | 11.13 | 10.90 |
| 360.0 | 12.90 | 12.45 | 12.18 | 11.85 | 11.57 | 11.35 | 11.07 | 10.85 | 10.57 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 10.35 | 10.07 | 9.85 | 9.63 | 9.41 | 9.13 | 8.97 | 8.80 | 8.80 |
| 45.0 | 10.46 | 10.19 | 9.96 | 9.74 | 9.47 | 9.24 | 9.08 | 8.91 | 8.75 |
| 90.0 | 10.35 | 10.07 | 9.85 | 9.69 | 9.41 | 9.24 | 9.08 | 8.91 | 8.80 |
| 135.0 | 11.02 | 10.74 | 10.46 | 10.19 | 9.74 | 9.41 | 9.30 | 9.13 | 9.02 |
| 180.0 | 11.02 | 10.68 | 10.41 | 10.19 | 9.96 | 9.58 | 9.30 | 9.08 | 8.97 |
| 225.0 | 10.41 | 10.24 | 10.02 | 9.80 | 9.69 | 9.30 | 9.08 | 8.91 | 8.75 |
| 270.0 | 10.74 | 10.52 | 10.24 | 10.02 | 9.85 | 9.69 | 9.30 | 9.08 | 8.97 |
| 315.0 | 10.68 | 10.52 | 10.24 | 10.07 | 9.91 | 9.52 | 9.19 | 8.97 | 8.80 |
| 360.0 | 10.35 | 10.07 | 9.85 | 9.63 | 9.41 | 9.13 | 8.97 | 8.80 | 8.80 |

Intensity data(cd)

| | |
|---------------|-------------|
| C/γ(°) | 90.0 |
| 0.0 | 8.75 |
| 45.0 | 8.75 |
| 90.0 | 8.80 |
| 135.0 | 8.86 |
| 180.0 | 8.75 |
| 225.0 | 8.75 |
| 270.0 | 8.75 |
| 315.0 | 8.80 |
| 360.0 | 8.75 |