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NATA

Client:

LumCAT: 2-2644-L

Luminaire: 92.70.412.00

Report No: 20231011-B008

Ballast type: AC

Test No: 20231011-C008

Voltage(V): 34.750

LampCAT: TRIDONIC SLE G7 15MM

Current(A): 0.530

Lamp flux(lm): 3047.8

Power (W): 18.417

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2763.29, Efficiency(%): 90.67% , Luminous Efficacy(lm/W): 150.04

Central intensity(cd): 9209.178, Maximum intensity(cd): 9209.178

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=26.2

[C90/270]Total=26.2

Field angle(10%Imax): [C0/180]Total=56.6

[C90/270]Total=56.6

Maximum s/h(1/2): C0_180=0.44 C90_270=0.44

Maximum s/h(1/4): C0_180=0.48 C90_270=0.48

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 90.67%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.012%

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 9209.178 | 0.000 | 0 | 0.00% | 0.00% |
| 1.0 | 9165.587 | 8.792 | 8.792 | 0.29% | 0.32% |
| 2.0 | 9043.118 | 26.135 | 34.927 | 0.86% | 1.26% |
| 3.0 | 8860.797 | 42.820 | 77.747 | 1.40% | 2.81% |
| 4.0 | 8626.443 | 58.535 | 136.282 | 1.92% | 4.93% |
| 5.0 | 8319.023 | 72.899 | 209.181 | 2.39% | 7.57% |
| 6.0 | 7961.232 | 85.557 | 294.738 | 2.81% | 10.67% |
| 7.0 | 7550.785 | 96.283 | 391.021 | 3.16% | 14.15% |
| 8.0 | 7102.766 | 104.873 | 495.894 | 3.44% | 17.95% |
| 9.0 | 6606.245 | 111.104 | 606.998 | 3.65% | 21.97% |
| 10.0 | 6106.540 | 115.046 | 722.044 | 3.77% | 26.13% |
| 11.0 | 5606.282 | 117.035 | 839.079 | 3.84% | 30.37% |
| 12.0 | 5120.277 | 117.257 | 956.335 | 3.85% | 34.61% |
| 13.0 | 4654.407 | 116.001 | 1072.336 | 3.81% | 38.81% |
| 14.0 | 4241.885 | 113.872 | 1186.208 | 3.74% | 42.93% |
| 15.0 | 3852.195 | 111.119 | 1297.327 | 3.65% | 46.95% |
| 16.0 | 3479.458 | 107.429 | 1404.756 | 3.52% | 50.84% |
| 17.0 | 3171.623 | 103.575 | 1508.332 | 3.40% | 54.58% |
| 18.0 | 2879.356 | 99.768 | 1608.099 | 3.27% | 58.20% |
| 19.0 | 2608.123 | 95.471 | 1703.57 | 3.13% | 61.65% |
| 20.0 | 2353.082 | 90.804 | 1794.374 | 2.98% | 64.94% |
| 21.0 | 2132.774 | 86.138 | 1880.511 | 2.83% | 68.05% |
| 22.0 | 1914.335 | 81.328 | 1961.84 | 2.67% | 71.00% |
| 23.0 | 1722.466 | 76.310 | 2038.15 | 2.50% | 73.76% |
| 24.0 | 1521.622 | 70.927 | 2109.077 | 2.33% | 76.32% |
| 25.0 | 1361.532 | 65.557 | 2174.634 | 2.15% | 78.70% |
| 26.0 | 1203.097 | 60.538 | 2235.172 | 1.99% | 80.89% |
| 27.0 | 1093.303 | 56.182 | 2291.354 | 1.84% | 82.92% |
| 28.0 | 960.966 | 52.010 | 2343.364 | 1.71% | 84.80% |
| 29.0 | 828.090 | 46.807 | 2390.17 | 1.54% | 86.50% |
| 30.0 | 707.447 | 41.459 | 2431.63 | 1.36% | 88.00% |
| 31.0 | 593.238 | 36.196 | 2467.826 | 1.19% | 89.31% |
| 32.0 | 480.123 | 30.751 | 2498.576 | 1.01% | 90.42% |
| 33.0 | 382.694 | 25.419 | 2523.995 | 0.83% | 91.34% |
| 34.0 | 305.545 | 20.828 | 2544.823 | 0.68% | 92.09% |
| 35.0 | 248.773 | 17.215 | 2562.038 | 0.56% | 92.72% |
| 36.0 | 214.336 | 14.745 | 2576.784 | 0.48% | 93.25% |
| 37.0 | 180.557 | 12.879 | 2589.663 | 0.42% | 93.72% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 146.120 | 10.904 | 2600.567 | 0.36% | 94.11% |
| 39.0 | 130.289 | 9.435 | 2610.002 | 0.31% | 94.45% |
| 40.0 | 117.052 | 8.626 | 2618.628 | 0.28% | 94.76% |
| 41.0 | 105.476 | 7.924 | 2626.552 | 0.26% | 95.05% |
| 42.0 | 95.146 | 7.289 | 2633.841 | 0.24% | 95.32% |
| 43.0 | 86.137 | 6.715 | 2640.556 | 0.22% | 95.56% |
| 44.0 | 78.208 | 6.203 | 2646.759 | 0.20% | 95.78% |
| 45.0 | 70.894 | 5.730 | 2652.489 | 0.19% | 95.99% |
| 46.0 | 64.674 | 5.302 | 2657.791 | 0.17% | 96.18% |
| 47.0 | 59.671 | 4.946 | 2662.737 | 0.16% | 96.36% |
| 48.0 | 54.800 | 4.628 | 2667.364 | 0.15% | 96.53% |
| 49.0 | 50.628 | 4.329 | 2671.694 | 0.14% | 96.69% |
| 50.0 | 47.092 | 4.074 | 2675.768 | 0.13% | 96.83% |
| 51.0 | 44.200 | 3.862 | 2679.63 | 0.13% | 96.97% |
| 52.0 | 41.356 | 3.671 | 2683.302 | 0.12% | 97.11% |
| 53.0 | 39.107 | 3.500 | 2686.802 | 0.11% | 97.23% |
| 54.0 | 37.350 | 3.370 | 2690.172 | 0.11% | 97.35% |
| 55.0 | 35.703 | 3.261 | 2693.433 | 0.11% | 97.47% |
| 56.0 | 34.236 | 3.160 | 2696.593 | 0.10% | 97.59% |
| 57.0 | 32.956 | 3.072 | 2699.665 | 0.10% | 97.70% |
| 58.0 | 31.655 | 2.988 | 2702.653 | 0.10% | 97.81% |
| 59.0 | 30.355 | 2.899 | 2705.552 | 0.10% | 97.91% |
| 60.0 | 28.985 | 2.803 | 2708.355 | 0.09% | 98.01% |
| 61.0 | 27.774 | 2.709 | 2711.064 | 0.09% | 98.11% |
| 62.0 | 26.521 | 2.616 | 2713.68 | 0.09% | 98.20% |
| 63.0 | 25.366 | 2.524 | 2716.204 | 0.08% | 98.30% |
| 64.0 | 24.314 | 2.438 | 2718.642 | 0.08% | 98.38% |
| 65.0 | 23.380 | 2.360 | 2721.002 | 0.08% | 98.47% |
| 66.0 | 22.411 | 2.285 | 2723.287 | 0.07% | 98.55% |
| 67.0 | 21.623 | 2.214 | 2725.501 | 0.07% | 98.63% |
| 68.0 | 20.889 | 2.153 | 2727.654 | 0.07% | 98.71% |
| 69.0 | 20.163 | 2.094 | 2729.749 | 0.07% | 98.79% |
| 70.0 | 19.429 | 2.033 | 2731.782 | 0.07% | 98.86% |
| 71.0 | 18.772 | 1.974 | 2733.756 | 0.06% | 98.93% |
| 72.0 | 18.156 | 1.920 | 2735.676 | 0.06% | 99.00% |
| 73.0 | 17.575 | 1.868 | 2737.545 | 0.06% | 99.07% |
| 74.0 | 17.028 | 1.819 | 2739.364 | 0.06% | 99.13% |
| 75.0 | 16.551 | 1.774 | 2741.138 | 0.06% | 99.20% |

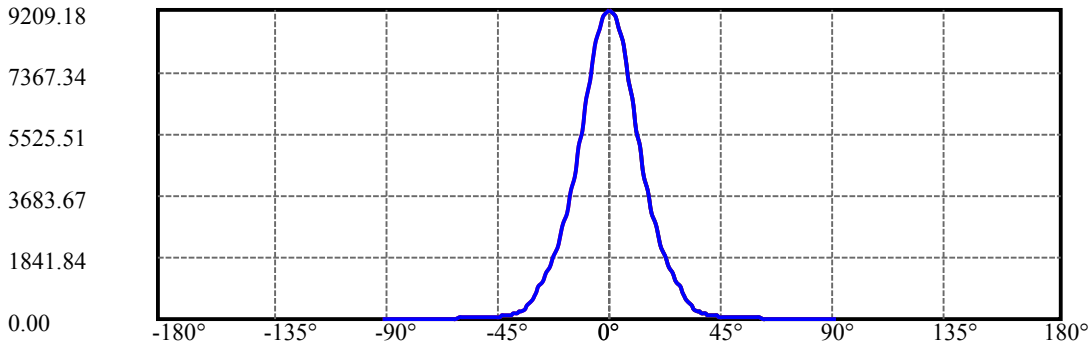
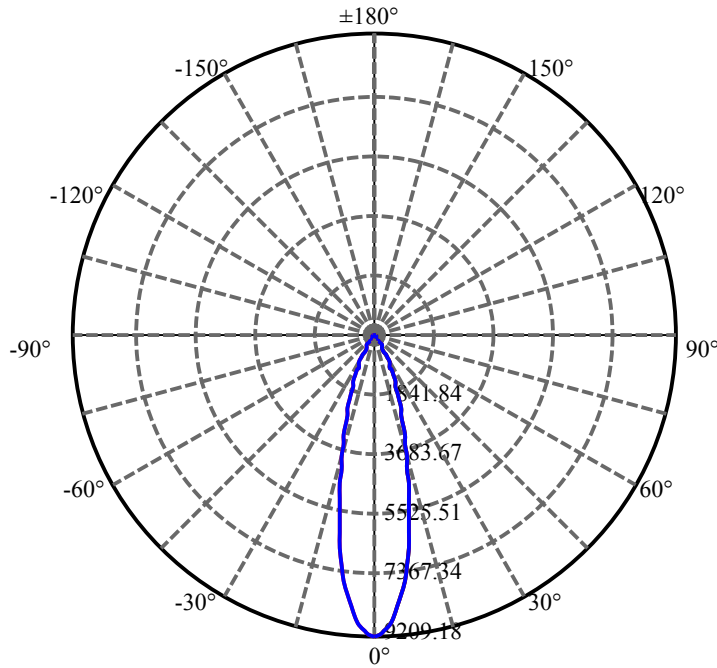
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 16.108 | 1.734 | 2742.872 | 0.06% | 99.26% |
| 77.0 | 15.672 | 1.694 | 2744.566 | 0.06% | 99.32% |
| 78.0 | 15.264 | 1.656 | 2746.222 | 0.05% | 99.38% |
| 79.0 | 14.849 | 1.618 | 2747.84 | 0.05% | 99.44% |
| 80.0 | 14.447 | 1.579 | 2749.42 | 0.05% | 99.50% |
| 81.0 | 14.067 | 1.542 | 2750.962 | 0.05% | 99.55% |
| 82.0 | 13.714 | 1.506 | 2752.468 | 0.05% | 99.61% |
| 83.0 | 13.347 | 1.471 | 2753.939 | 0.05% | 99.66% |
| 84.0 | 13.022 | 1.437 | 2755.376 | 0.05% | 99.71% |
| 85.0 | 12.648 | 1.401 | 2756.777 | 0.05% | 99.76% |
| 86.0 | 12.212 | 1.359 | 2758.136 | 0.04% | 99.81% |
| 87.0 | 11.922 | 1.321 | 2759.457 | 0.04% | 99.86% |
| 88.0 | 11.707 | 1.294 | 2760.751 | 0.04% | 99.91% |
| 89.0 | 11.569 | 1.276 | 2762.027 | 0.04% | 99.95% |
| 90.0 | 11.486 | 1.264 | 2763.291 | 0.04% | 100.00% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 2431.63 | 79.78% | 88.00% |
| 0-40 | 2618.63 | 85.92% | 94.76% |
| 0-60 | 2708.36 | 88.86% | 98.01% |
| 0-90 | 2762.03 | 90.62% | 99.95% |
| 0-120 | 2762.03 | 90.62% | 99.95% |
| 0-180 | 2763.29 | 90.67% | 100.00% |
| 60-90 | 53.67 | 1.76% | 1.94% |
| 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% |
| 0-25.59 | 2210.63 | 72.53% | 80.00% |

ZONAL LUMEN SUMMARY

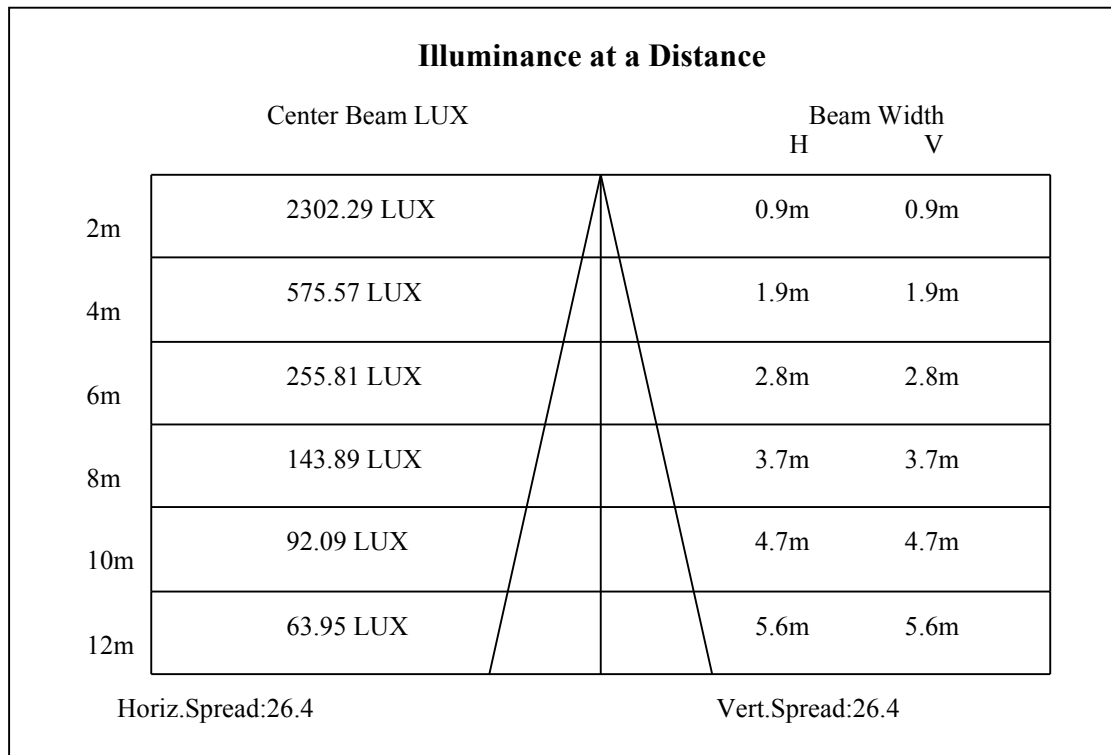
| | |
|---------|---------|
| 0-10 | 722.04 |
| 10-20 | 1072.33 |
| 20-30 | 637.26 |
| 30-40 | 187.00 |
| 40-50 | 57.14 |
| 50-60 | 32.59 |
| 60-70 | 23.43 |
| 70-80 | 17.64 |
| 80-90 | 12.61 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

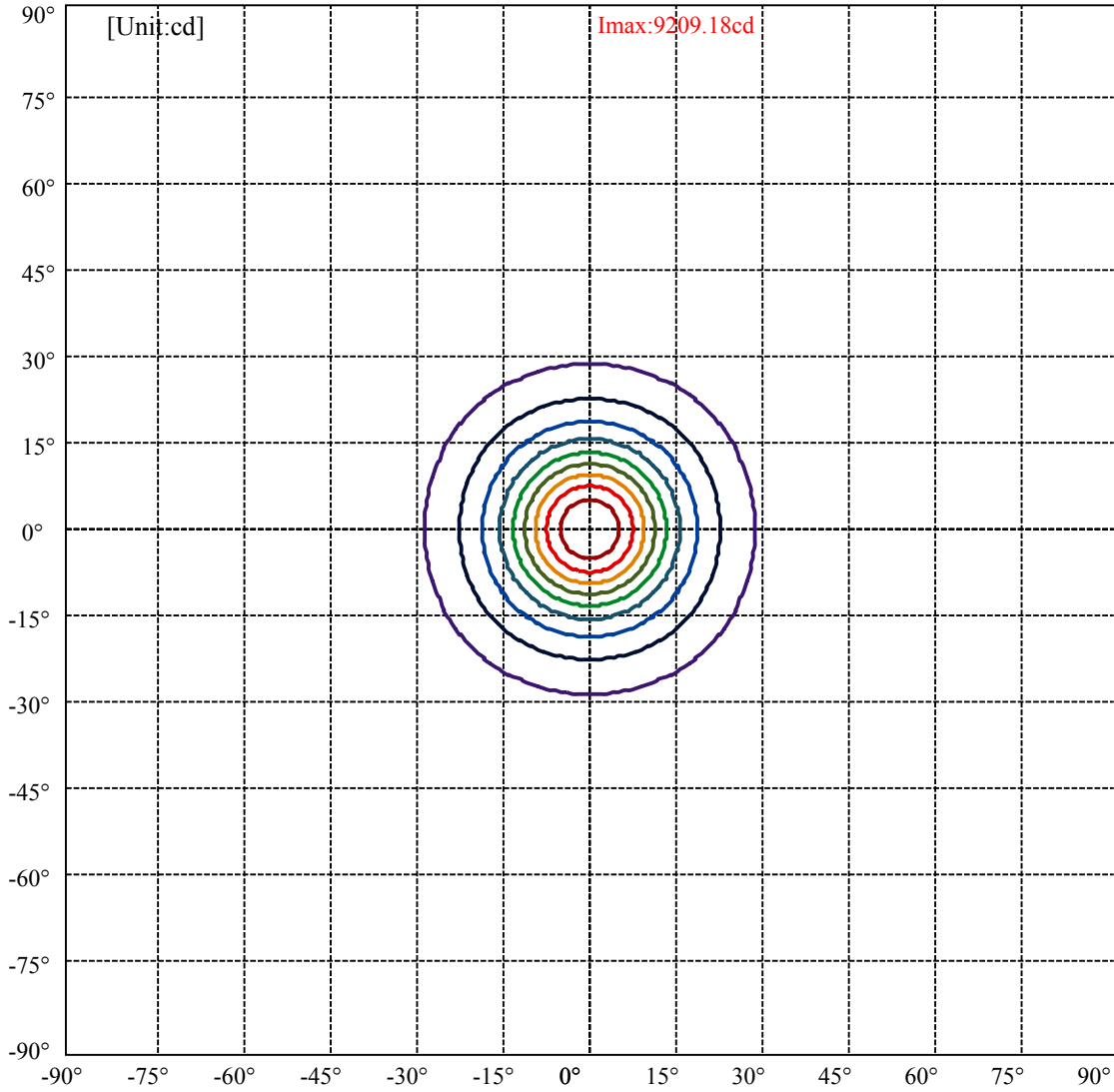


C0(Max): —————
C0/C180: —————
C90/C270: —————

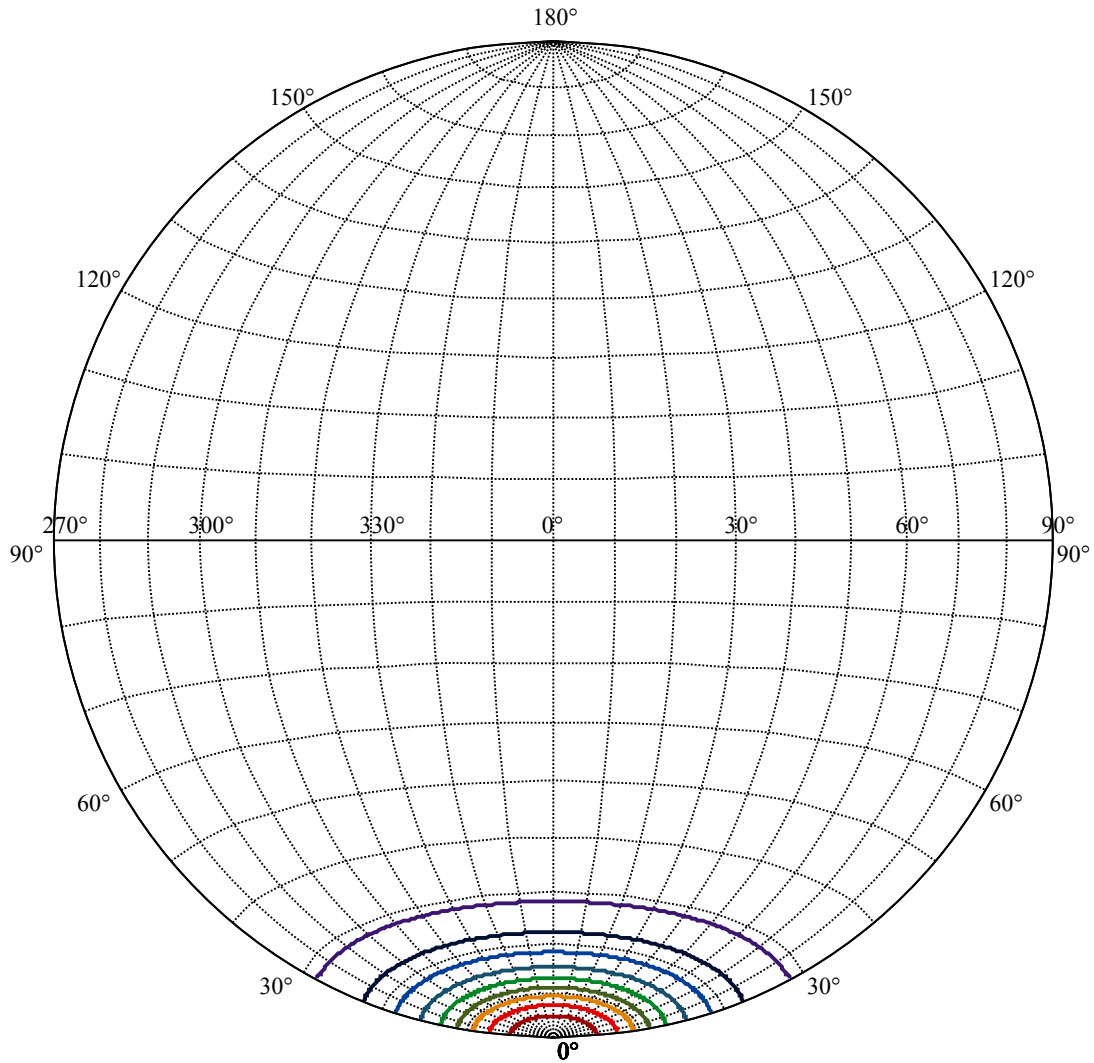
Field angle(10%Imax):C0/180Left:28.3 Right:28.3
:C90/270Left:28.3 Right:28.3

Beam Angle(50%Imax):C0/180Left:13.1 Right:13.1
:C90/270Left:13.1 Right:13.1





| | |
|-------------------|---|
| (10%Imax) 920.918 | — |
| (20%Imax) 1841.84 | — |
| (30%Imax) 2762.75 | — |
| (40%Imax) 3683.67 | — |
| (50%Imax) 4604.59 | — |
| (60%Imax) 5525.51 | — |
| (70%Imax) 6446.42 | — |
| (80%Imax) 7367.34 | — |
| (90%Imax) 8288.26 | — |



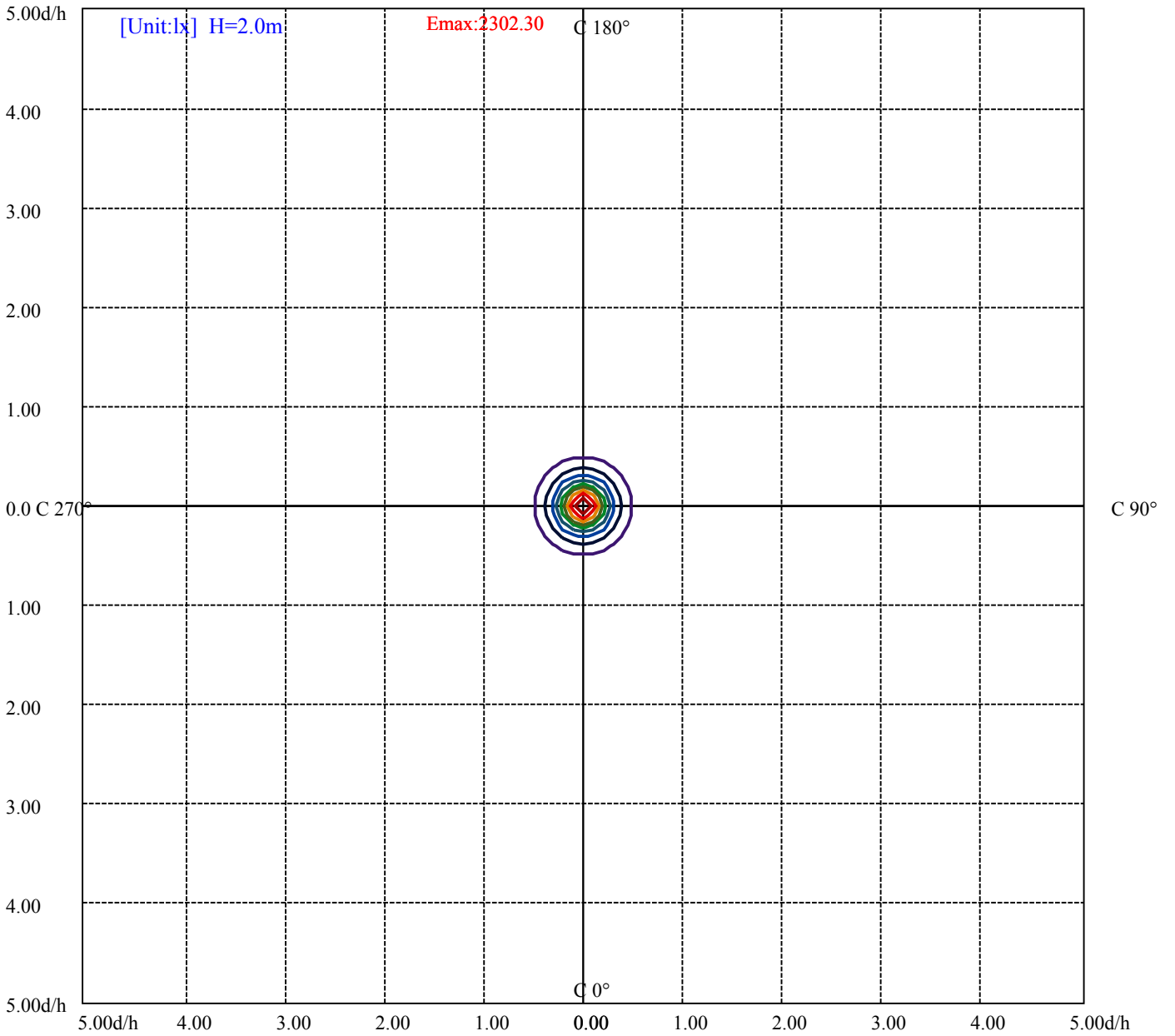
House

[Unit:cd]

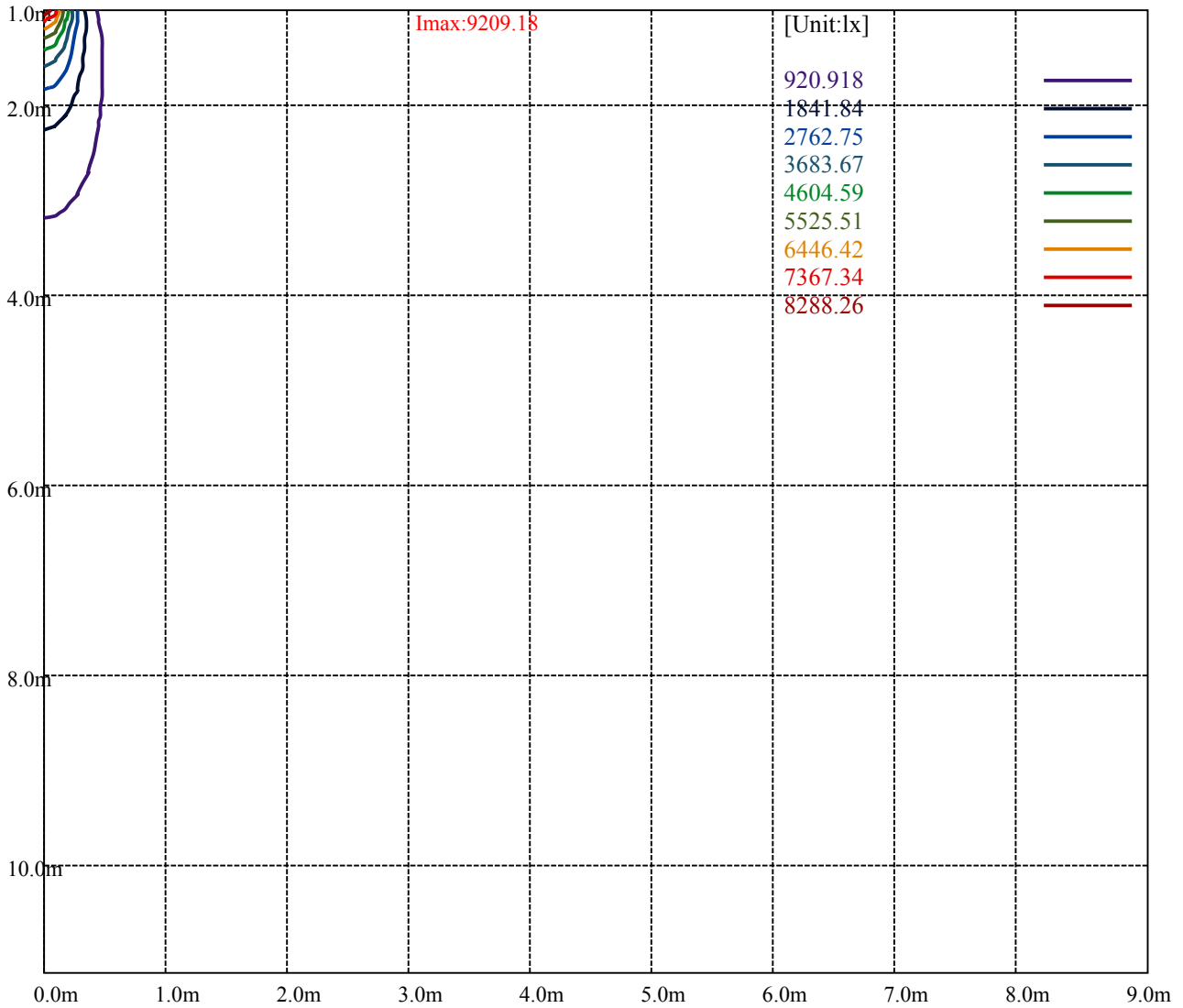
Road

Imax:9209.18

| | | |
|-----------|---------|---|
| (10%Imax) | 920.918 | — |
| (20%Imax) | 1841.84 | — |
| (30%Imax) | 2762.75 | — |
| (40%Imax) | 3683.67 | — |
| (50%Imax) | 4604.59 | — |
| (60%Imax) | 5525.51 | — |
| (70%Imax) | 6446.42 | — |
| (80%Imax) | 7367.34 | — |
| (90%Imax) | 8288.26 | — |



- (10%Emax) 230.2292
- (20%Emax) 460.4575
- (30%Emax) 690.6875
- (40%Emax) 920.9175
- (50%Emax) 1151.147
- (60%Emax) 1381.375
- (70%Emax) 1611.605
- (80%Emax) 1841.835
- (90%Emax) 2072.063



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

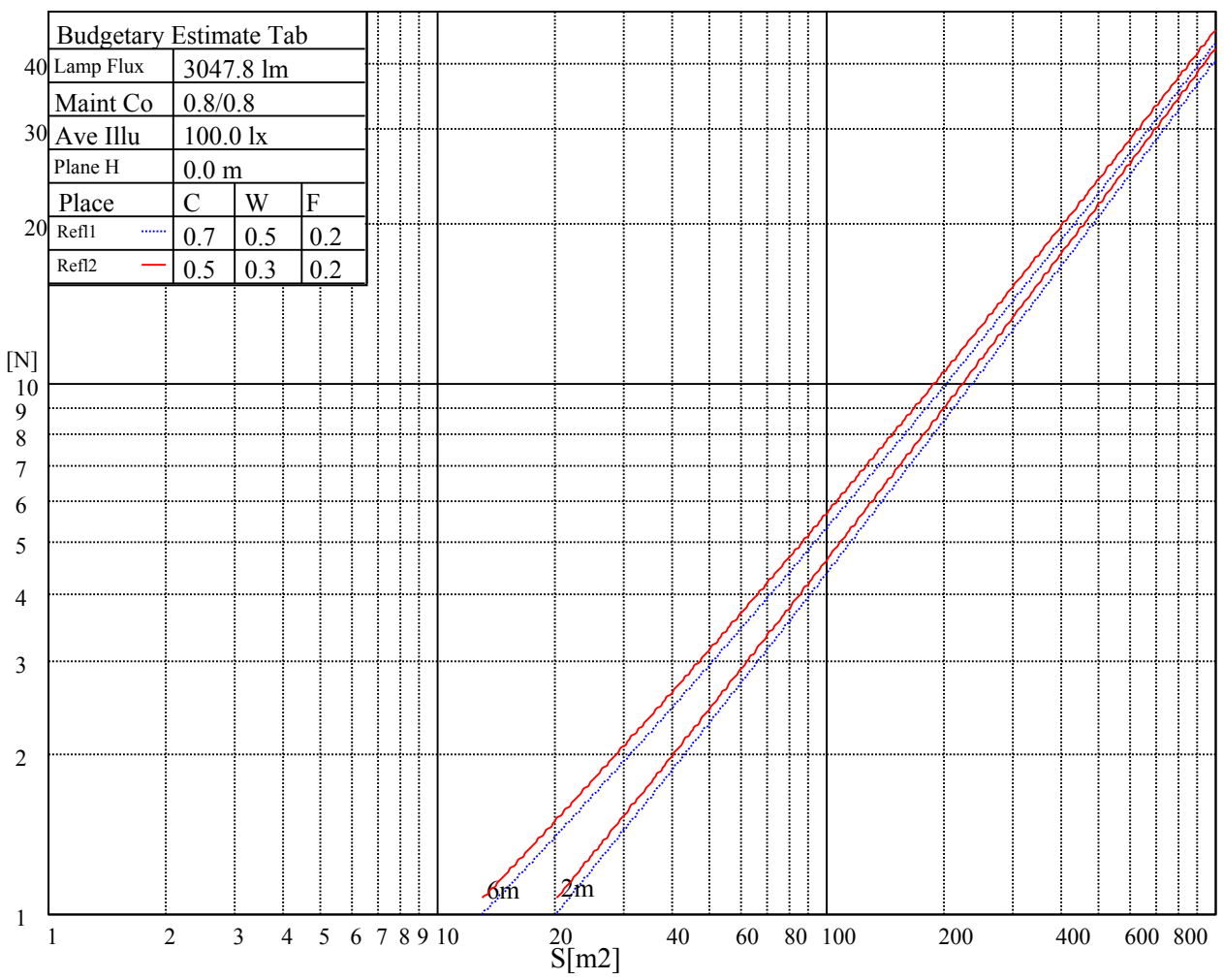
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 |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

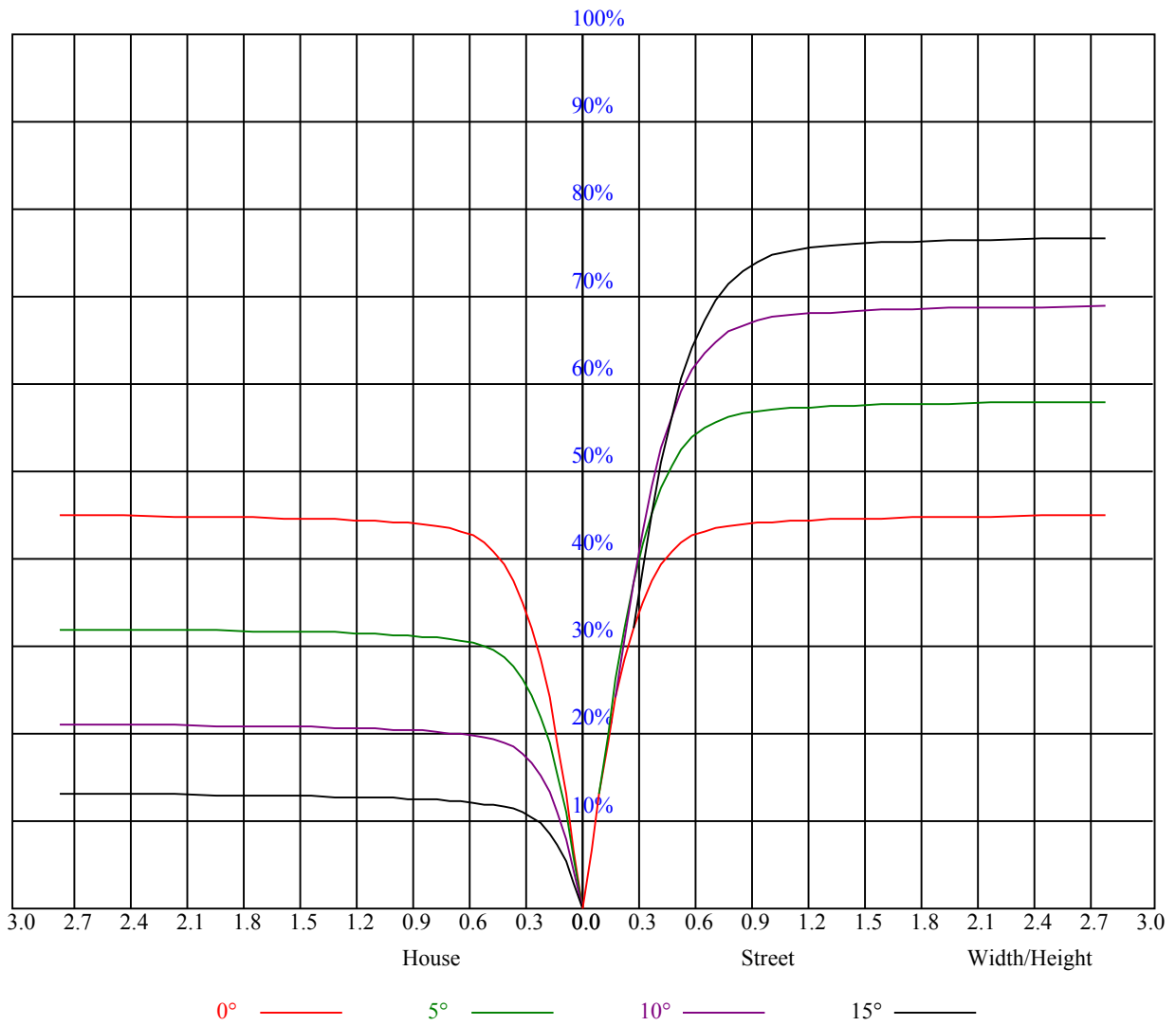


| Illumination assessment according UGR | | | | | | | | | | | |
|---|-----|------------------|-----|-----|-----|-----|----------------|-----|-----|-----|--|
| Rf of Ceiling | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | |
| Rf of Wall | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | |
| Rf of 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 | |
| 8H | 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 | 1.05 | 1.05 | 1.05 | 1.01 | 1.01 | 1.01 | 0.96 | 0.96 | 0.96 | 0.93 | 0.93 | 0.93 | 0.91 |
| 1 | 1.01 | 0.99 | 0.97 | 0.99 | 0.97 | 0.96 | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 | 0.89 | 0.88 | 0.88 | 0.86 |
| 2 | 0.95 | 0.92 | 0.90 | 0.94 | 0.91 | 0.89 | 0.91 | 0.89 | 0.87 | 0.88 | 0.87 | 0.85 | 0.86 | 0.84 | 0.83 | 0.82 |
| 3 | 0.91 | 0.87 | 0.84 | 0.89 | 0.86 | 0.83 | 0.87 | 0.84 | 0.82 | 0.85 | 0.82 | 0.80 | 0.83 | 0.81 | 0.79 | 0.78 |
| 4 | 0.86 | 0.82 | 0.79 | 0.85 | 0.81 | 0.78 | 0.83 | 0.80 | 0.77 | 0.82 | 0.79 | 0.77 | 0.80 | 0.78 | 0.76 | 0.74 |
| 5 | 0.82 | 0.78 | 0.75 | 0.81 | 0.77 | 0.74 | 0.80 | 0.76 | 0.74 | 0.78 | 0.75 | 0.73 | 0.77 | 0.75 | 0.72 | 0.71 |
| 6 | 0.79 | 0.74 | 0.71 | 0.78 | 0.74 | 0.71 | 0.77 | 0.73 | 0.70 | 0.76 | 0.72 | 0.70 | 0.74 | 0.72 | 0.70 | 0.68 |
| 7 | 0.76 | 0.71 | 0.68 | 0.75 | 0.71 | 0.68 | 0.74 | 0.70 | 0.67 | 0.73 | 0.70 | 0.67 | 0.72 | 0.69 | 0.67 | 0.66 |
| 8 | 0.73 | 0.68 | 0.65 | 0.72 | 0.68 | 0.65 | 0.71 | 0.67 | 0.65 | 0.70 | 0.67 | 0.65 | 0.70 | 0.67 | 0.64 | 0.63 |
| 9 | 0.70 | 0.66 | 0.63 | 0.70 | 0.65 | 0.63 | 0.69 | 0.65 | 0.62 | 0.68 | 0.65 | 0.62 | 0.67 | 0.64 | 0.62 | 0.61 |
| 10 | 0.67 | 0.63 | 0.60 | 0.67 | 0.63 | 0.60 | 0.66 | 0.63 | 0.60 | 0.66 | 0.62 | 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 | 9132.79 | 8926.32 | 8722.07 | 8469.10 | 8171.85 | 7720.72 | 7313.87 | 6876.02 | 6404.97 |
| 45.0 | 9244.05 | 9174.86 | 9061.94 | 8828.90 | 8573.17 | 8288.09 | 7946.01 | 7450.04 | 7028.25 |
| 90.0 | 9207.52 | 9116.74 | 8901.97 | 8669.48 | 8381.09 | 8064.47 | 7614.44 | 7181.58 | 6600.36 |
| 135.0 | 9252.35 | 9240.18 | 9139.43 | 8969.50 | 8745.32 | 8392.16 | 8085.50 | 7724.59 | 7217.00 |
| 180.0 | 9132.79 | 9223.57 | 9228.00 | 9139.99 | 9003.26 | 8745.87 | 8496.22 | 8176.83 | 7823.68 |
| 225.0 | 9244.05 | 9213.05 | 9093.49 | 8937.39 | 8688.85 | 8420.94 | 8012.99 | 7610.57 | 7168.29 |
| 270.0 | 9207.52 | 9250.14 | 9207.52 | 9070.79 | 8892.56 | 8660.07 | 8387.73 | 7965.38 | 7590.64 |
| 315.0 | 9252.35 | 9179.84 | 8990.53 | 8801.22 | 8555.45 | 8259.86 | 7833.09 | 7421.26 | 6988.95 |
| 360.0 | 9132.79 | 8926.32 | 8722.07 | 8469.10 | 8171.85 | 7720.72 | 7313.87 | 6876.02 | 6404.97 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 5796.08 | 5330.00 | 4878.87 | 4454.30 | 3977.71 | 3637.29 | 3245.94 | 2953.11 | 2687.42 |
| 45.0 | 6564.38 | 6088.34 | 5496.61 | 5036.62 | 4599.88 | 4109.45 | 3754.08 | 3342.80 | 3049.98 |
| 90.0 | 6113.25 | 5640.53 | 5054.34 | 4628.67 | 4245.62 | 3805.01 | 3483.40 | 3182.28 | 2911.05 |
| 135.0 | 6771.41 | 6285.95 | 5814.90 | 5230.92 | 4796.94 | 4393.42 | 4017.56 | 3602.41 | 3294.65 |
| 180.0 | 7316.64 | 6864.40 | 6398.88 | 5913.98 | 5316.16 | 4881.08 | 4465.93 | 3986.57 | 3655.55 |
| 225.0 | 6709.96 | 6122.66 | 5644.41 | 5189.40 | 4761.52 | 4375.70 | 3925.68 | 3593.56 | 3217.15 |
| 270.0 | 7052.05 | 6597.60 | 6117.13 | 5515.99 | 5058.77 | 4635.31 | 4253.92 | 3814.42 | 3486.17 |
| 315.0 | 6526.19 | 5922.84 | 5445.13 | 4992.34 | 4478.66 | 4097.83 | 3671.05 | 3360.52 | 3071.02 |
| 360.0 | 5796.08 | 5330.00 | 4878.87 | 4454.30 | 3977.71 | 3637.29 | 3245.94 | 2953.11 | 2687.42 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 2393.49 | 2168.75 | 1958.96 | 1720.39 | 1558.20 | 1416.50 | 1070.70 | 1070.70 | 973.01 |
| 45.0 | 2784.29 | 2536.86 | 2260.09 | 2048.08 | 1854.35 | 1671.13 | 1488.46 | 1355.61 | 1213.90 |
| 90.0 | 2602.17 | 2369.69 | 2148.83 | 1939.59 | 1703.78 | 1558.20 | 1419.82 | 1103.36 | 1103.36 |
| 135.0 | 3013.45 | 2694.61 | 2457.70 | 2237.39 | 1977.23 | 1788.47 | 1590.31 | 1451.37 | 1307.45 |
| 180.0 | 3291.33 | 2996.29 | 2748.86 | 2518.04 | 2229.09 | 2010.44 | 1823.90 | 1651.20 | 1470.19 |
| 225.0 | 2941.49 | 2689.08 | 2386.85 | 2173.74 | 1975.02 | 1738.10 | 1579.79 | 1448.05 | 1098.05 |
| 270.0 | 3209.96 | 2922.67 | 2604.39 | 2375.78 | 2164.88 | 1960.62 | 1710.98 | 1564.29 | 1381.63 |
| 315.0 | 2798.68 | 2487.04 | 2258.98 | 2049.19 | 1852.13 | 1636.25 | 1489.01 | 1247.67 | 1077.18 |
| 360.0 | 2393.49 | 2168.75 | 1958.96 | 1720.39 | 1558.20 | 1416.50 | 1070.70 | 1070.70 | 973.01 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 848.18 | 728.73 | 591.23 | 490.93 | 397.11 | 293.98 | 226.78 | 181.84 | 156.32 |
| 45.0 | 1078.29 | 915.55 | 794.88 | 653.73 | 548.55 | 451.13 | 340.98 | 284.52 | 284.52 |
| 90.0 | 941.84 | 821.39 | 707.75 | 597.38 | 469.07 | 376.79 | 298.52 | 237.69 | 194.62 |
| 135.0 | 1159.66 | 994.15 | 875.14 | 761.67 | 652.62 | 524.75 | 425.67 | 337.66 | 280.64 |
| 180.0 | 1328.49 | 1192.32 | 1059.47 | 907.25 | 792.11 | 650.96 | 544.13 | 447.26 | 337.10 |
| 225.0 | 1098.05 | 1004.23 | 881.56 | 764.54 | 623.78 | 517.33 | 418.09 | 310.87 | 240.35 |
| 270.0 | 1247.12 | 1112.05 | 946.55 | 828.64 | 713.51 | 600.03 | 469.95 | 381.39 | 301.68 |
| 315.0 | 1044.80 | 919.31 | 768.14 | 655.44 | 549.16 | 426.00 | 337.44 | 263.15 | 194.96 |
| 360.0 | 848.18 | 728.73 | 591.23 | 490.93 | 397.11 | 293.98 | 226.78 | 181.84 | 156.32 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 140.99 | 127.81 | 112.59 | 102.40 | 93.10 | 84.97 | 75.89 | 69.63 | 63.93 |
| 45.0 | 174.97 | 157.04 | 141.21 | 127.37 | 112.53 | 102.07 | 92.61 | 84.19 | 76.83 |
| 90.0 | 175.47 | 158.20 | 142.48 | 125.93 | 114.19 | 101.35 | 92.27 | 84.14 | 75.06 |
| 135.0 | 280.64 | 177.57 | 154.66 | 138.55 | 125.27 | 110.93 | 100.69 | 91.67 | 83.64 |
| 180.0 | 297.80 | 297.80 | 169.44 | 151.56 | 135.39 | 121.56 | 107.00 | 96.87 | 88.07 |
| 225.0 | 191.97 | 163.85 | 146.85 | 128.31 | 116.02 | 105.50 | 95.76 | 87.02 | 77.88 |
| 270.0 | 284.52 | 210.57 | 165.01 | 147.85 | 131.30 | 118.95 | 107.55 | 96.26 | 87.85 |
| 315.0 | 168.33 | 151.61 | 136.72 | 120.34 | 108.60 | 98.47 | 89.40 | 79.32 | 72.40 |
| 360.0 | 140.99 | 127.81 | 112.59 | 102.40 | 93.10 | 84.97 | 75.89 | 69.63 | 63.93 |

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 | 58.95 | 53.64 | 50.04 | 46.83 | 43.23 | 40.96 | 39.02 | 36.70 | 35.43 |
| 45.0 | 68.86 | 63.38 | 58.51 | 53.19 | 49.54 | 45.56 | 43.07 | 40.80 | 38.30 |
| 90.0 | 68.97 | 63.38 | 58.56 | 53.58 | 49.98 | 46.77 | 44.17 | 41.24 | 39.30 |
| 135.0 | 74.84 | 68.64 | 63.27 | 58.29 | 53.25 | 49.71 | 46.50 | 43.29 | 41.07 |
| 180.0 | 80.32 | 71.74 | 65.98 | 61.06 | 56.41 | 51.42 | 48.10 | 44.17 | 41.63 |
| 225.0 | 71.30 | 65.48 | 60.34 | 54.80 | 50.87 | 47.44 | 43.67 | 41.24 | 38.58 |
| 270.0 | 77.66 | 71.46 | 65.43 | 60.28 | 54.69 | 50.76 | 47.44 | 44.34 | 41.29 |
| 315.0 | 66.26 | 59.67 | 55.24 | 50.37 | 47.05 | 44.12 | 41.63 | 39.08 | 37.25 |
| 360.0 | 58.95 | 53.64 | 50.04 | 46.83 | 43.23 | 40.96 | 39.02 | 36.70 | 35.43 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 34.32 | 32.77 | 31.94 | 30.89 | 29.72 | 28.29 | 27.23 | 25.96 | 24.96 |
| 45.0 | 36.75 | 35.43 | 34.10 | 32.77 | 31.72 | 30.50 | 29.12 | 27.79 | 26.68 |
| 90.0 | 37.70 | 35.70 | 34.21 | 33.05 | 31.11 | 29.72 | 28.17 | 26.96 | 25.79 |
| 135.0 | 38.75 | 37.20 | 35.70 | 34.15 | 32.60 | 31.22 | 29.89 | 28.51 | 27.01 |
| 180.0 | 39.47 | 37.14 | 35.65 | 34.37 | 33.10 | 31.77 | 30.56 | 29.34 | 28.12 |
| 225.0 | 36.81 | 35.37 | 33.65 | 32.38 | 31.27 | 30.17 | 28.56 | 27.57 | 26.46 |
| 270.0 | 39.19 | 37.42 | 35.54 | 34.04 | 32.77 | 31.33 | 30.06 | 28.78 | 27.29 |
| 315.0 | 35.81 | 34.60 | 33.10 | 31.99 | 30.94 | 29.84 | 28.29 | 27.29 | 25.85 |
| 360.0 | 34.32 | 32.77 | 31.94 | 30.89 | 29.72 | 28.29 | 27.23 | 25.96 | 24.96 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 23.91 | 23.03 | 22.03 | 21.37 | 20.70 | 19.87 | 19.26 | 18.65 | 18.05 |
| 45.0 | 25.46 | 24.30 | 23.53 | 22.36 | 21.64 | 21.09 | 20.37 | 19.54 | 18.93 |
| 90.0 | 24.80 | 23.69 | 22.75 | 21.92 | 21.26 | 20.31 | 19.65 | 18.99 | 18.43 |
| 135.0 | 25.85 | 24.85 | 24.02 | 22.86 | 22.03 | 21.26 | 20.48 | 19.71 | 18.88 |
| 180.0 | 26.79 | 25.57 | 24.52 | 23.47 | 22.64 | 21.81 | 20.92 | 20.26 | 19.60 |
| 225.0 | 25.30 | 24.30 | 23.25 | 22.36 | 21.37 | 20.76 | 20.09 | 19.26 | 18.60 |
| 270.0 | 26.07 | 24.91 | 24.08 | 22.92 | 22.09 | 21.37 | 20.70 | 19.87 | 19.15 |
| 315.0 | 24.74 | 23.86 | 22.86 | 22.03 | 21.26 | 20.65 | 19.82 | 19.15 | 18.54 |
| 360.0 | 23.91 | 23.03 | 22.03 | 21.37 | 20.70 | 19.87 | 19.26 | 18.65 | 18.05 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 17.55 | 17.10 | 16.72 | 16.27 | 15.94 | 15.61 | 15.28 | 14.83 | 14.39 |
| 45.0 | 18.43 | 17.88 | 17.27 | 16.88 | 16.50 | 15.94 | 15.55 | 15.17 | 14.61 |
| 90.0 | 17.66 | 17.16 | 16.55 | 16.11 | 15.72 | 15.17 | 14.78 | 14.45 | 14.06 |
| 135.0 | 18.32 | 17.77 | 17.10 | 16.66 | 16.22 | 15.78 | 15.22 | 14.89 | 14.50 |
| 180.0 | 18.82 | 18.27 | 17.66 | 17.05 | 16.55 | 16.16 | 15.78 | 15.28 | 14.95 |
| 225.0 | 18.05 | 17.38 | 16.88 | 16.44 | 15.89 | 15.55 | 15.17 | 14.78 | 14.45 |
| 270.0 | 18.49 | 17.77 | 17.21 | 16.66 | 16.22 | 15.78 | 15.39 | 14.89 | 14.45 |
| 315.0 | 17.93 | 17.27 | 16.83 | 16.33 | 15.83 | 15.39 | 14.95 | 14.50 | 14.17 |
| 360.0 | 17.55 | 17.10 | 16.72 | 16.27 | 15.94 | 15.61 | 15.28 | 14.83 | 14.39 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 14.00 | 13.73 | 13.28 | 13.01 | 12.57 | 11.96 | 11.85 | 11.46 | 11.85 |
| 45.0 | 14.23 | 13.84 | 13.34 | 13.06 | 12.68 | 12.07 | 11.85 | 11.73 | 11.40 |
| 90.0 | 13.56 | 13.17 | 12.95 | 12.62 | 12.12 | 11.90 | 11.73 | 11.62 | 11.46 |
| 135.0 | 14.06 | 13.73 | 13.34 | 12.95 | 12.51 | 12.18 | 11.96 | 11.68 | 11.51 |
| 180.0 | 14.67 | 14.28 | 14.00 | 13.67 | 13.34 | 12.62 | 12.23 | 12.01 | 11.79 |
| 225.0 | 14.12 | 13.73 | 13.34 | 13.01 | 12.68 | 12.18 | 11.90 | 11.68 | 11.57 |
| 270.0 | 14.12 | 13.73 | 13.40 | 13.06 | 12.73 | 12.51 | 12.01 | 11.73 | 11.57 |
| 315.0 | 13.78 | 13.51 | 13.12 | 12.79 | 12.57 | 12.29 | 11.85 | 11.73 | 11.40 |
| 360.0 | 14.00 | 13.73 | 13.28 | 13.01 | 12.57 | 11.96 | 11.85 | 11.46 | 11.85 |

Intensity data(cd)

| | |
|---------------|--------------|
| C/γ(°) | 90.0 |
| 0.0 | 11.62 |
| 45.0 | 11.57 |
| 90.0 | 11.51 |
| 135.0 | 11.46 |
| 180.0 | 11.68 |
| 225.0 | 11.29 |
| 270.0 | 11.29 |
| 315.0 | 11.46 |
| 360.0 | 11.62 |