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NT

Client:

LumCAT: 2-2685-L

Luminaire: 92.70.412.00

Report No: 2024326-B019

Ballast type: AC

Test No: 2024326-C019

Voltage(V): 34.430

LampCAT: Fortimo_SLM_C_1210

Current(A): 0.720

Lamp flux(lm): 4230.0

Power (W): 24.789

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 3628.49, Efficiency(%): 85.78% , Luminous Efficacy(lm/W): 146.37

Central intensity(cd): 6013.245, Maximum intensity(cd): 6013.245

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=46.6

[C90/270]Total=46.6

Field angle(10%Imax): [C0/180]Total=69.8

[C90/270]Total=69.8

Maximum s/h(1/2): C0_180=0.74 C90_270=0.74

Maximum s/h(1/4): C0_180=0.72 C90_270=0.72

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.78%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.938%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/26
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 6013.245 | 0.000 | 0 | 0.00% | 0.00% |
| 1.0 | 6006.369 | 5.751 | 5.751 | 0.14% | 0.16% |
| 2.0 | 5991.519 | 17.221 | 22.972 | 0.41% | 0.63% |
| 3.0 | 5965.184 | 28.597 | 51.568 | 0.68% | 1.42% |
| 4.0 | 5929.851 | 39.816 | 91.385 | 0.94% | 2.52% |
| 5.0 | 5887.861 | 50.839 | 142.224 | 1.20% | 3.92% |
| 6.0 | 5838.629 | 61.626 | 203.85 | 1.46% | 5.62% |
| 7.0 | 5775.498 | 72.089 | 275.938 | 1.70% | 7.60% |
| 8.0 | 5690.348 | 82.059 | 357.997 | 1.94% | 9.87% |
| 9.0 | 5582.812 | 91.363 | 449.36 | 2.16% | 12.38% |
| 10.0 | 5464.816 | 99.977 | 549.337 | 2.36% | 15.14% |
| 11.0 | 5340.237 | 107.965 | 657.302 | 2.55% | 18.12% |
| 12.0 | 5204.538 | 115.269 | 772.571 | 2.73% | 21.29% |
| 13.0 | 5051.501 | 121.713 | 894.285 | 2.88% | 24.65% |
| 14.0 | 4891.881 | 127.274 | 1021.559 | 3.01% | 28.15% |
| 15.0 | 4725.824 | 132.036 | 1153.595 | 3.12% | 31.79% |
| 16.0 | 4546.233 | 135.862 | 1289.457 | 3.21% | 35.54% |
| 17.0 | 4335.844 | 138.318 | 1427.775 | 3.27% | 39.35% |
| 18.0 | 4126.114 | 139.519 | 1567.294 | 3.30% | 43.19% |
| 19.0 | 3924.285 | 140.060 | 1707.354 | 3.31% | 47.05% |
| 20.0 | 3731.526 | 140.123 | 1847.477 | 3.31% | 50.92% |
| 21.0 | 3516.237 | 139.172 | 1986.649 | 3.29% | 54.75% |
| 22.0 | 3280.245 | 136.578 | 2123.227 | 3.23% | 58.52% |
| 23.0 | 3071.758 | 133.282 | 2256.509 | 3.15% | 62.19% |
| 24.0 | 2855.518 | 129.592 | 2386.101 | 3.06% | 65.76% |
| 25.0 | 2624.573 | 124.605 | 2510.706 | 2.95% | 69.19% |
| 26.0 | 2383.460 | 118.215 | 2628.921 | 2.79% | 72.45% |
| 27.0 | 2162.465 | 111.217 | 2740.138 | 2.63% | 75.52% |
| 28.0 | 1935.251 | 103.745 | 2843.884 | 2.45% | 78.38% |
| 29.0 | 1612.068 | 92.808 | 2936.692 | 2.19% | 80.93% |
| 30.0 | 1365.140 | 80.384 | 3017.076 | 1.90% | 83.15% |
| 31.0 | 1239.528 | 72.484 | 3089.56 | 1.71% | 85.15% |
| 32.0 | 1062.366 | 65.947 | 3155.506 | 1.56% | 86.96% |
| 33.0 | 874.575 | 57.063 | 3212.569 | 1.35% | 88.54% |
| 34.0 | 708.744 | 47.916 | 3260.485 | 1.13% | 89.86% |
| 35.0 | 587.559 | 40.258 | 3300.744 | 0.95% | 90.97% |
| 36.0 | 483.871 | 34.115 | 3334.858 | 0.81% | 91.91% |
| 37.0 | 400.696 | 28.850 | 3363.708 | 0.68% | 92.70% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 323.139 | 24.161 | 3387.868 | 0.57% | 93.37% |
| 39.0 | 273.702 | 20.372 | 3408.24 | 0.48% | 93.93% |
| 40.0 | 248.999 | 18.230 | 3426.47 | 0.43% | 94.43% |
| 41.0 | 202.268 | 16.069 | 3442.54 | 0.38% | 94.88% |
| 42.0 | 149.891 | 12.795 | 3455.334 | 0.30% | 95.23% |
| 43.0 | 126.255 | 10.229 | 3465.563 | 0.24% | 95.51% |
| 44.0 | 108.376 | 8.856 | 3474.419 | 0.21% | 95.75% |
| 45.0 | 94.294 | 7.789 | 3482.208 | 0.18% | 95.97% |
| 46.0 | 82.743 | 6.924 | 3489.132 | 0.16% | 96.16% |
| 47.0 | 74.719 | 6.263 | 3495.394 | 0.15% | 96.33% |
| 48.0 | 68.662 | 5.796 | 3501.19 | 0.14% | 96.49% |
| 49.0 | 63.950 | 5.446 | 3506.636 | 0.13% | 96.64% |
| 50.0 | 59.583 | 5.151 | 3511.787 | 0.12% | 96.78% |
| 51.0 | 56.035 | 4.892 | 3516.678 | 0.12% | 96.92% |
| 52.0 | 53.153 | 4.685 | 3521.364 | 0.11% | 97.05% |
| 53.0 | 50.571 | 4.512 | 3525.876 | 0.11% | 97.17% |
| 54.0 | 48.296 | 4.358 | 3530.233 | 0.10% | 97.29% |
| 55.0 | 46.145 | 4.216 | 3534.449 | 0.10% | 97.41% |
| 56.0 | 44.360 | 4.090 | 3538.539 | 0.10% | 97.52% |
| 57.0 | 42.612 | 3.977 | 3542.515 | 0.09% | 97.63% |
| 58.0 | 40.761 | 3.855 | 3546.371 | 0.09% | 97.74% |
| 59.0 | 38.852 | 3.722 | 3550.093 | 0.09% | 97.84% |
| 60.0 | 37.059 | 3.586 | 3553.679 | 0.08% | 97.94% |
| 61.0 | 35.304 | 3.453 | 3557.132 | 0.08% | 98.03% |
| 62.0 | 33.563 | 3.318 | 3560.451 | 0.08% | 98.12% |
| 63.0 | 31.931 | 3.185 | 3563.636 | 0.08% | 98.21% |
| 64.0 | 30.446 | 3.061 | 3566.697 | 0.07% | 98.30% |
| 65.0 | 29.042 | 2.944 | 3569.641 | 0.07% | 98.38% |
| 66.0 | 27.798 | 2.836 | 3572.477 | 0.07% | 98.46% |
| 67.0 | 26.825 | 2.747 | 3575.223 | 0.06% | 98.53% |
| 68.0 | 26.262 | 2.689 | 3577.913 | 0.06% | 98.61% |
| 69.0 | 25.830 | 2.658 | 3580.57 | 0.06% | 98.68% |
| 70.0 | 25.538 | 2.638 | 3583.208 | 0.06% | 98.75% |
| 71.0 | 25.304 | 2.628 | 3585.836 | 0.06% | 98.82% |
| 72.0 | 25.092 | 2.620 | 3588.456 | 0.06% | 98.90% |
| 73.0 | 24.909 | 2.615 | 3591.071 | 0.06% | 98.97% |
| 74.0 | 24.711 | 2.609 | 3593.68 | 0.06% | 99.04% |
| 75.0 | 24.528 | 2.602 | 3596.281 | 0.06% | 99.11% |

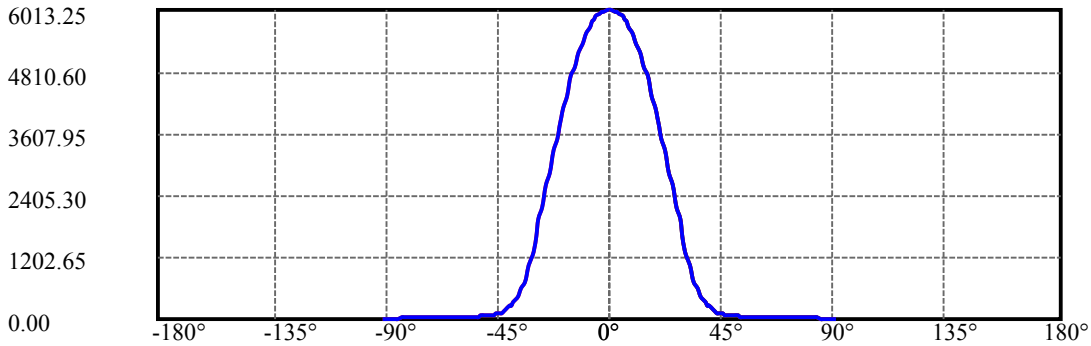
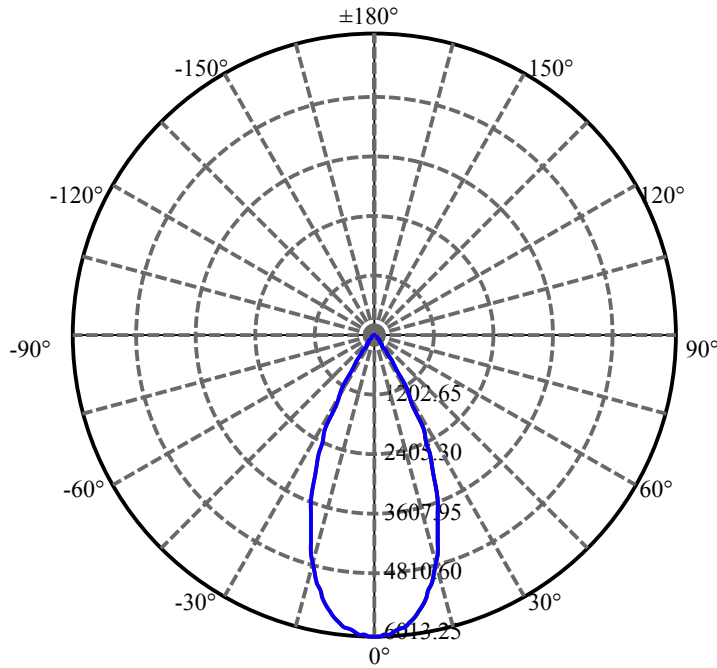
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 24.338 | 2.594 | 3598.875 | 0.06% | 99.18% |
| 77.0 | 24.155 | 2.585 | 3601.461 | 0.06% | 99.26% |
| 78.0 | 23.884 | 2.572 | 3604.032 | 0.06% | 99.33% |
| 79.0 | 23.460 | 2.544 | 3606.576 | 0.06% | 99.40% |
| 80.0 | 22.721 | 2.490 | 3609.066 | 0.06% | 99.46% |
| 81.0 | 21.909 | 2.414 | 3611.479 | 0.06% | 99.53% |
| 82.0 | 20.893 | 2.321 | 3613.801 | 0.05% | 99.60% |
| 83.0 | 19.488 | 2.195 | 3615.996 | 0.05% | 99.66% |
| 84.0 | 18.091 | 2.047 | 3618.043 | 0.05% | 99.71% |
| 85.0 | 16.950 | 1.912 | 3619.955 | 0.05% | 99.76% |
| 86.0 | 16.108 | 1.807 | 3621.762 | 0.04% | 99.81% |
| 87.0 | 15.596 | 1.735 | 3623.497 | 0.04% | 99.86% |
| 88.0 | 15.245 | 1.689 | 3625.187 | 0.04% | 99.91% |
| 89.0 | 15.011 | 1.658 | 3626.845 | 0.04% | 99.95% |
| 90.0 | 14.945 | 1.642 | 3628.488 | 0.04% | 100.00% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 3017.08 | 71.33% | 83.15% |
| 0-40 | 3426.47 | 81.00% | 94.43% |
| 0-60 | 3553.68 | 84.01% | 97.94% |
| 0-90 | 3626.85 | 85.74% | 99.95% |
| 0-120 | 3626.85 | 85.74% | 99.95% |
| 0-180 | 3628.49 | 85.78% | 100.00% |
| 60-90 | 73.17 | 1.73% | 2.02% |
| 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% |
| 0-28.63 | 2902.79 | 68.62% | 80.00% |

ZONAL LUMEN SUMMARY

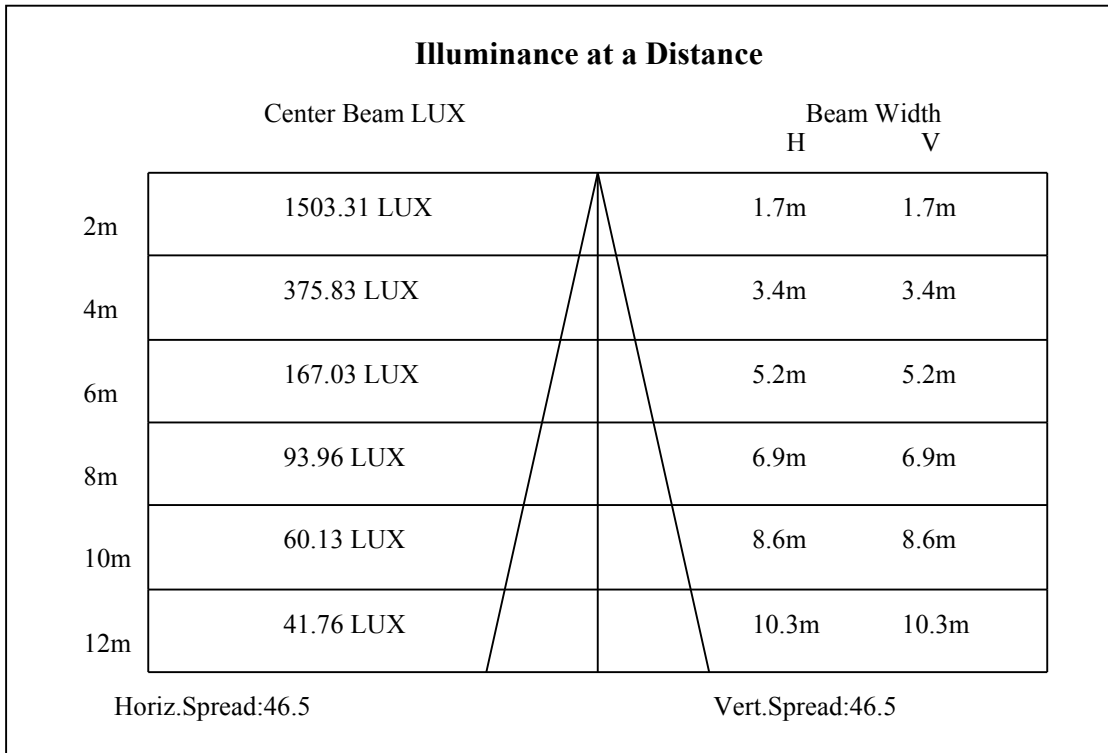
| | |
|---------|---------|
| 0-10 | 549.34 |
| 10-20 | 1298.14 |
| 20-30 | 1169.60 |
| 30-40 | 409.39 |
| 40-50 | 85.32 |
| 50-60 | 41.89 |
| 60-70 | 29.53 |
| 70-80 | 25.86 |
| 80-90 | 17.78 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

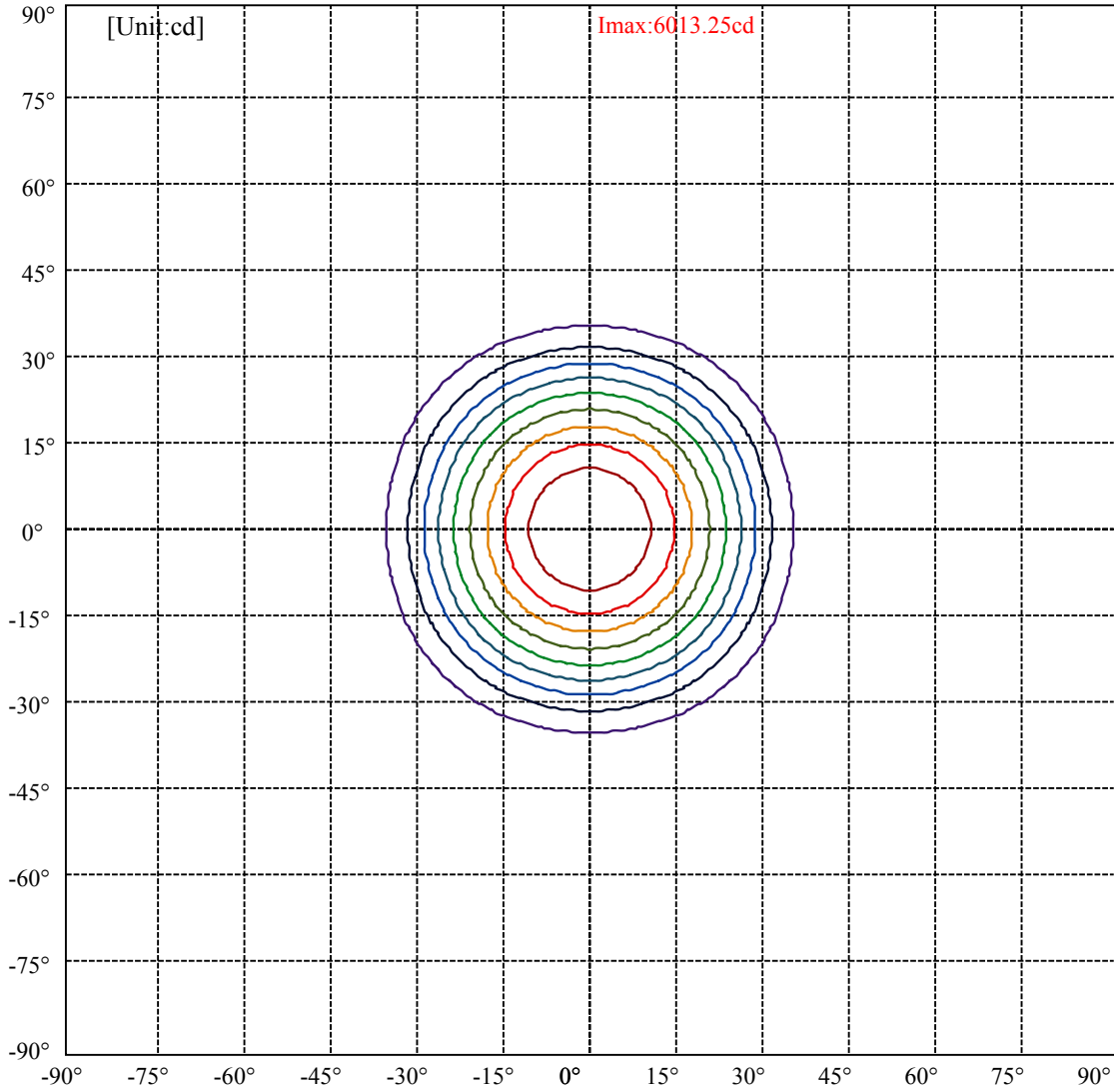


C0(Max): —————
C0/C180: —————
C90/C270: —————

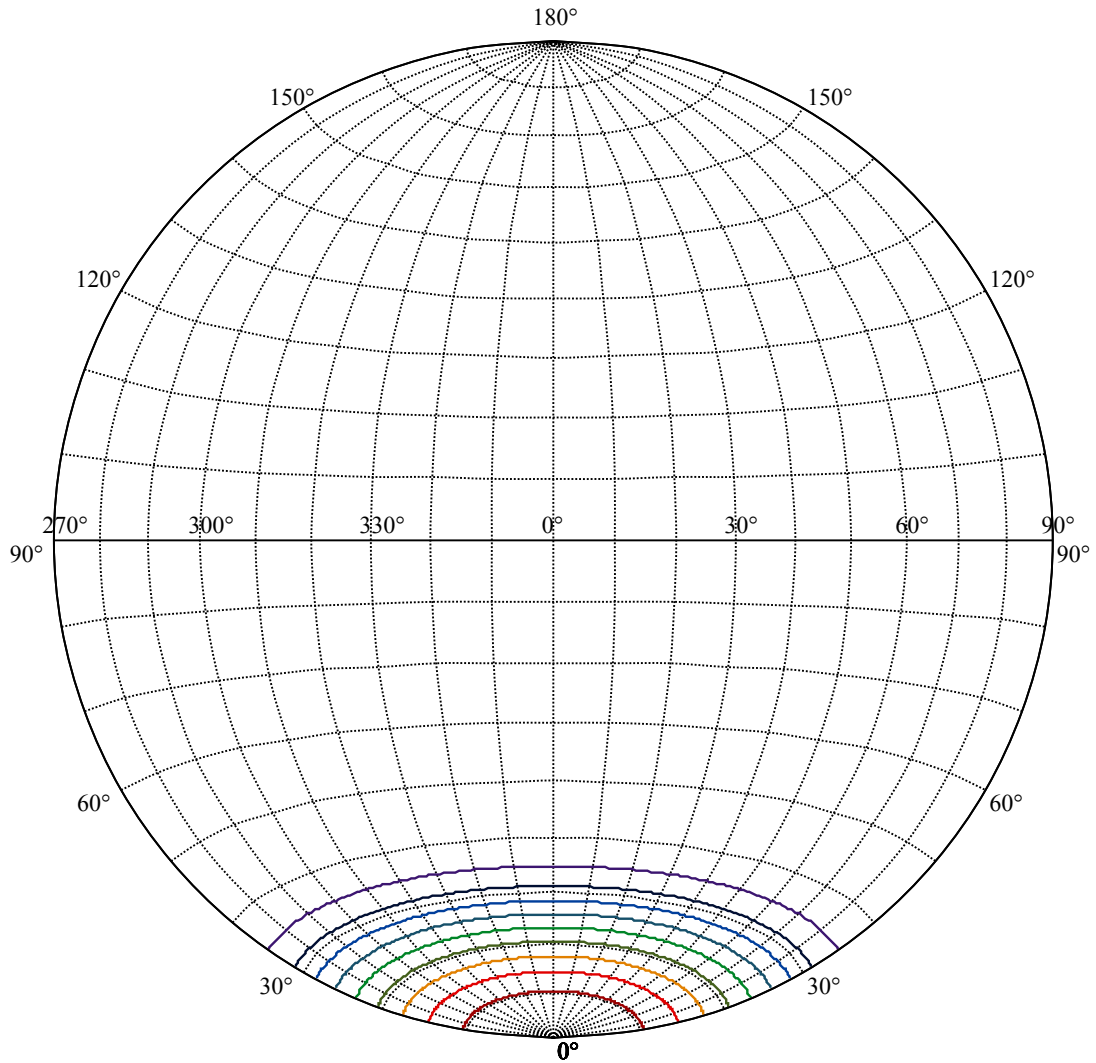
Field angle(10%Imax):C0/180Left:34.9 Right:34.9
:C90/270Left:34.9 Right:34.9

Beam Angle(50%Imax):C0/180Left:23.3 Right:23.3
:C90/270Left:23.3 Right:23.3





| | |
|--------------------------------|---|
| (10%I _{max}) 601.325 | — |
| (20%I _{max}) 1202.65 | — |
| (30%I _{max}) 1803.97 | — |
| (40%I _{max}) 2405.3 | — |
| (50%I _{max}) 3006.62 | — |
| (60%I _{max}) 3607.95 | — |
| (70%I _{max}) 4209.27 | — |
| (80%I _{max}) 4810.6 | — |
| (90%I _{max}) 5411.92 | — |



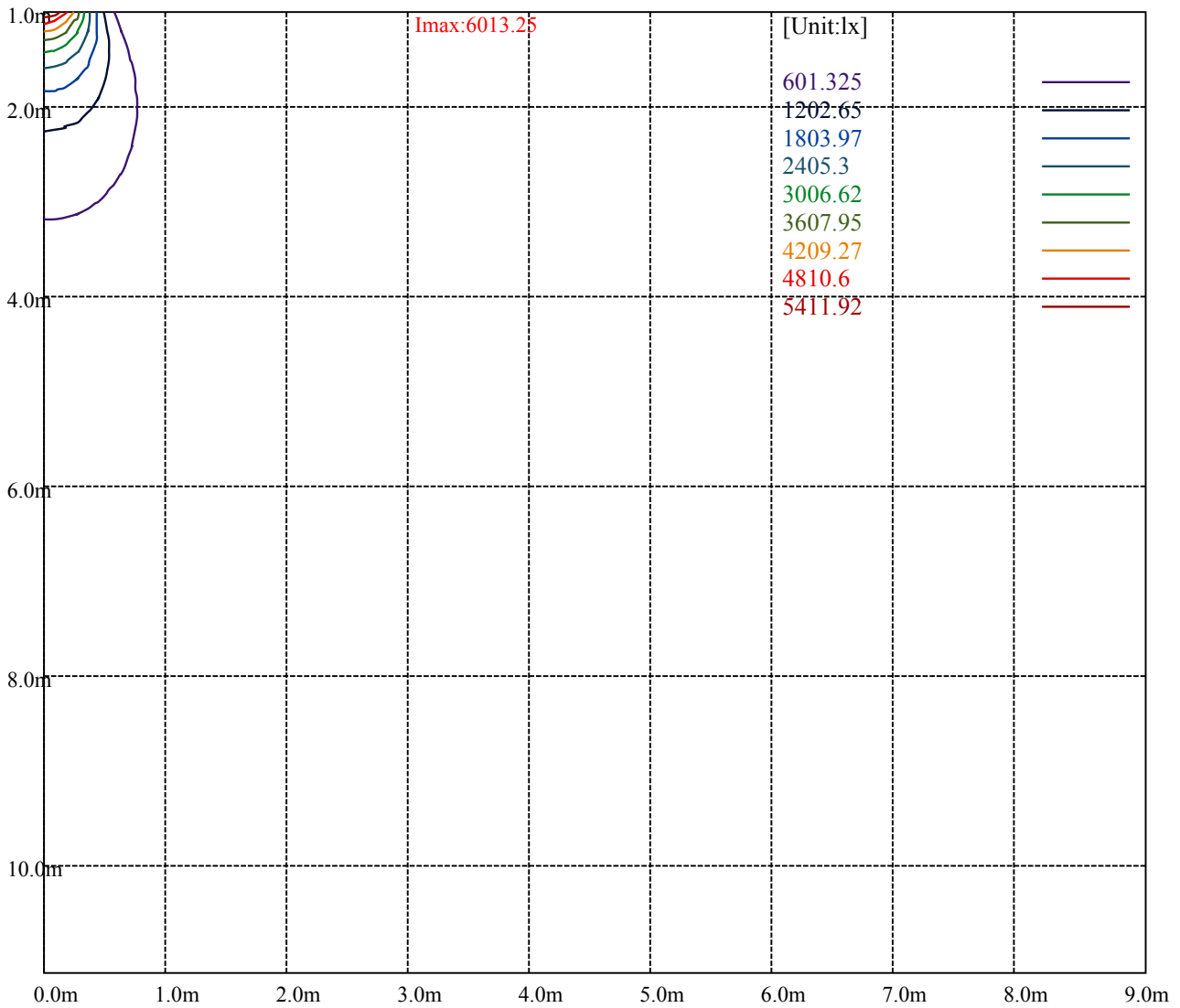
House

[Unit:cd]

Road

Imax:6013.25

| | | |
|-----------|---------|---|
| (10%Imax) | 601.325 | — |
| (20%Imax) | 1202.65 | — |
| (30%Imax) | 1803.97 | — |
| (40%Imax) | 2405.3 | — |
| (50%Imax) | 3006.62 | — |
| (60%Imax) | 3607.95 | — |
| (70%Imax) | 4209.27 | — |
| (80%Imax) | 4810.6 | — |
| (90%Imax) | 5411.92 | — |



Luminance Table

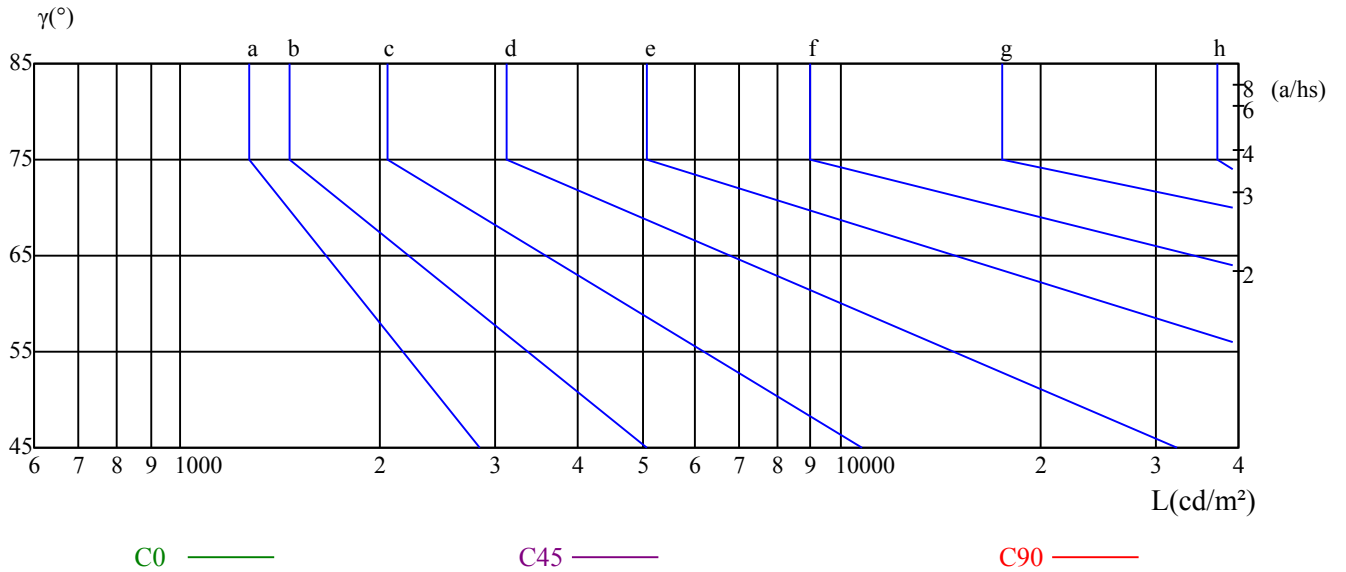
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|----|----|----|----|----|----|----|----|----|
| C0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| 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

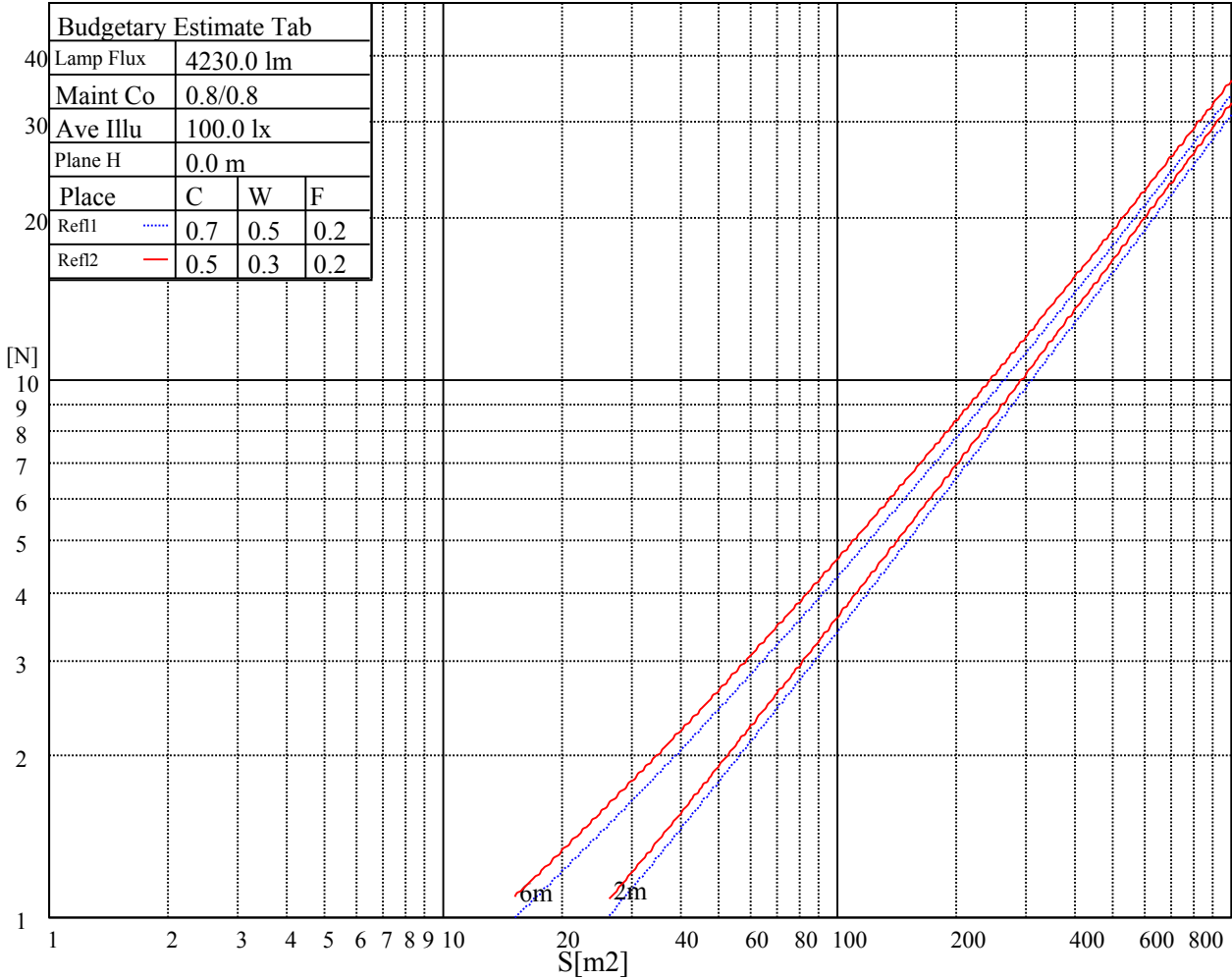
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 |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

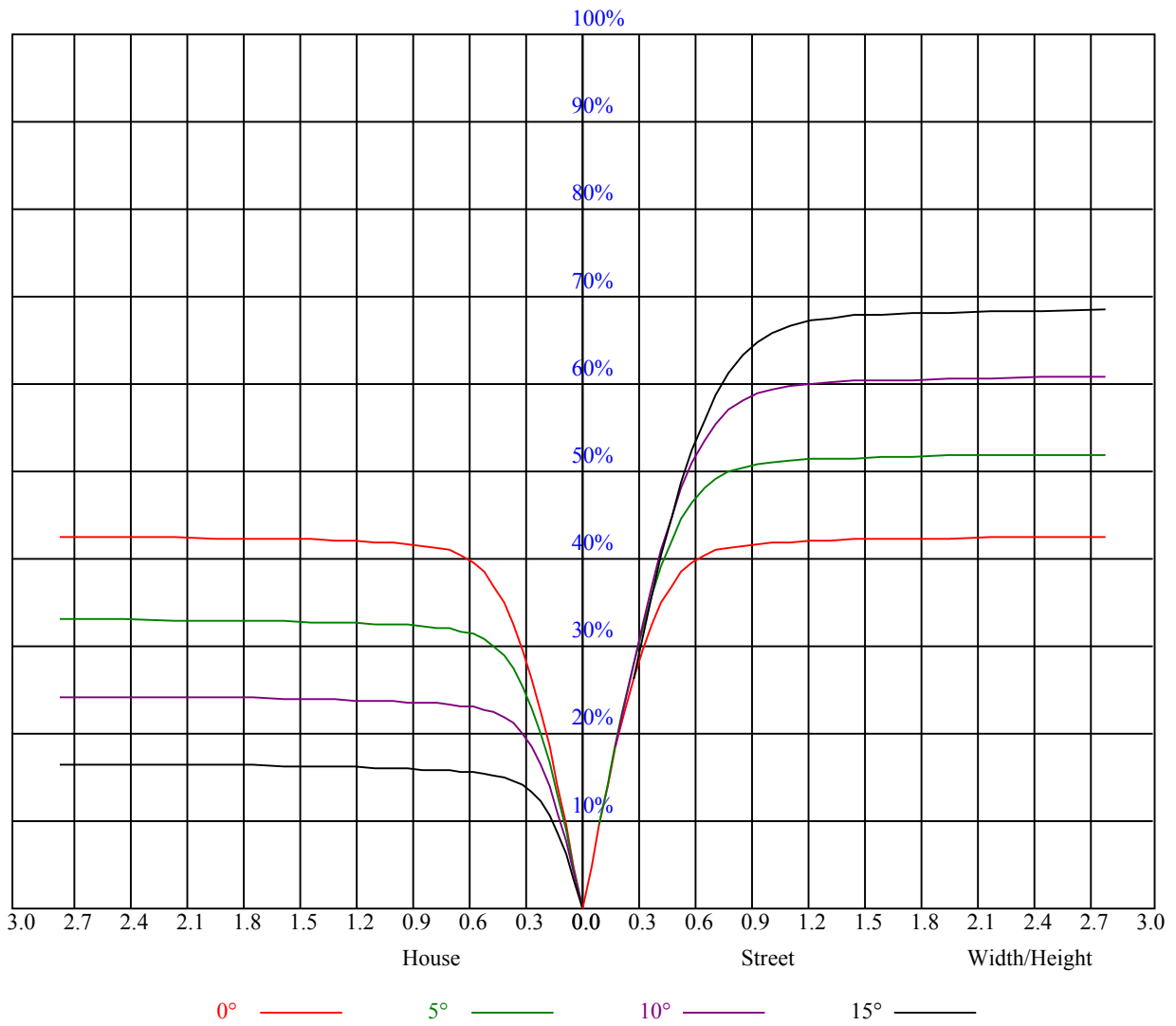


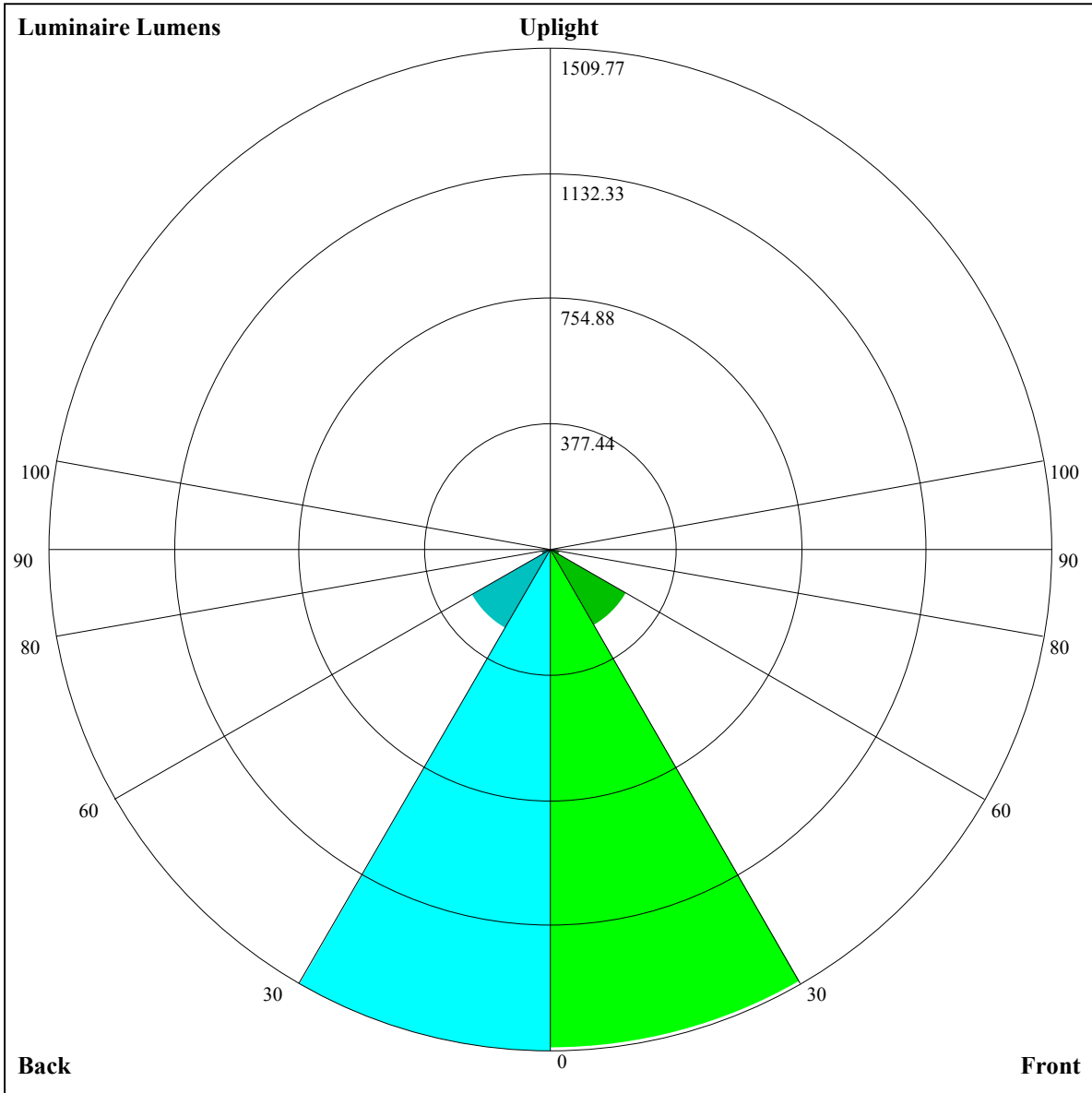
| Illumination assessment according UGR | | | | | | | | | | | |
|---|-----|------------------|-----|-----|-----|-----|----------------|-----|-----|-----|--|
| Rf of Ceiling | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | |
| Rf of Wall | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | |
| Rf of 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 RHOFC=20 CU | | | | | | | | | | | | | | | |
| 0 | 1.02 | 1.02 | 1.02 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 | 0.95 | 0.91 | 0.91 | 0.91 | 0.88 | 0.88 | 0.88 | 0.86 |
| 1 | 0.95 | 0.93 | 0.91 | 0.93 | 0.91 | 0.90 | 0.90 | 0.88 | 0.87 | 0.87 | 0.85 | 0.84 | 0.84 | 0.83 | 0.82 | 0.80 |
| 2 | 0.89 | 0.86 | 0.83 | 0.88 | 0.85 | 0.82 | 0.85 | 0.82 | 0.80 | 0.82 | 0.80 | 0.79 | 0.80 | 0.78 | 0.77 | 0.76 |
| 3 | 0.84 | 0.80 | 0.77 | 0.83 | 0.79 | 0.76 | 0.80 | 0.77 | 0.75 | 0.78 | 0.76 | 0.74 | 0.76 | 0.74 | 0.72 | 0.71 |
| 4 | 0.79 | 0.75 | 0.71 | 0.78 | 0.74 | 0.71 | 0.76 | 0.73 | 0.70 | 0.75 | 0.72 | 0.69 | 0.73 | 0.70 | 0.68 | 0.67 |
| 5 | 0.75 | 0.70 | 0.67 | 0.74 | 0.70 | 0.66 | 0.72 | 0.69 | 0.66 | 0.71 | 0.68 | 0.65 | 0.70 | 0.67 | 0.65 | 0.63 |
| 6 | 0.71 | 0.66 | 0.63 | 0.70 | 0.66 | 0.63 | 0.69 | 0.65 | 0.62 | 0.68 | 0.64 | 0.62 | 0.67 | 0.64 | 0.61 | 0.60 |
| 7 | 0.67 | 0.63 | 0.59 | 0.67 | 0.62 | 0.59 | 0.66 | 0.62 | 0.59 | 0.65 | 0.61 | 0.58 | 0.64 | 0.61 | 0.58 | 0.57 |
| 8 | 0.64 | 0.59 | 0.56 | 0.64 | 0.59 | 0.56 | 0.63 | 0.59 | 0.56 | 0.62 | 0.58 | 0.56 | 0.61 | 0.58 | 0.55 | 0.54 |
| 9 | 0.61 | 0.56 | 0.53 | 0.61 | 0.56 | 0.53 | 0.60 | 0.56 | 0.53 | 0.59 | 0.55 | 0.53 | 0.58 | 0.55 | 0.53 | 0.52 |
| 10 | 0.58 | 0.54 | 0.51 | 0.58 | 0.54 | 0.51 | 0.57 | 0.53 | 0.51 | 0.57 | 0.53 | 0.50 | 0.56 | 0.53 | 0.50 | 0.49 |





Luminaire Lumens:

FL=1502.24,FM=264.91,FH=27.7,FVH=9.72

BL=1509.77,BM=274.08,BH=27.72,BVH=9.74

UL=0,UH=0

BUG Rating:B3-U0-G0

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 | 6020.85 | 6007.98 | 5987.50 | 5959.99 | 5926.05 | 5879.23 | 5828.31 | 5765.70 | 5673.23 |
| 45.0 | 6010.90 | 6020.27 | 6023.19 | 6012.07 | 5989.84 | 5959.99 | 5923.71 | 5875.72 | 5796.71 |
| 90.0 | 6018.51 | 6021.44 | 6012.07 | 5988.08 | 5954.14 | 5919.02 | 5878.06 | 5806.08 | 5733.51 |
| 135.0 | 6002.71 | 6008.56 | 6006.81 | 5991.59 | 5963.50 | 5930.73 | 5885.67 | 5840.60 | 5771.55 |
| 180.0 | 6020.85 | 6013.25 | 6002.71 | 5970.52 | 5938.34 | 5901.47 | 5847.04 | 5795.54 | 5722.97 |
| 225.0 | 6010.90 | 5991.59 | 5959.99 | 5924.29 | 5879.81 | 5825.39 | 5766.28 | 5681.42 | 5582.52 |
| 270.0 | 6018.51 | 6009.73 | 5991.01 | 5961.75 | 5919.02 | 5878.06 | 5831.83 | 5773.30 | 5674.99 |
| 315.0 | 6002.71 | 5978.13 | 5948.87 | 5913.17 | 5868.11 | 5809.00 | 5748.14 | 5665.62 | 5567.30 |
| 360.0 | 6020.85 | 6007.98 | 5987.50 | 5959.99 | 5926.05 | 5879.23 | 5828.31 | 5765.70 | 5673.23 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 5552.67 | 5430.95 | 5308.05 | 5150.04 | 5008.41 | 4822.90 | 4654.35 | 4466.50 | 4230.65 |
| 45.0 | 5725.90 | 5636.36 | 5518.73 | 5404.03 | 5244.26 | 5111.41 | 4927.07 | 4767.30 | 4590.56 |
| 90.0 | 5635.19 | 5485.96 | 5363.06 | 5231.97 | 5098.54 | 4921.80 | 4761.45 | 4580.61 | 4383.39 |
| 135.0 | 5694.30 | 5595.98 | 5480.11 | 5322.68 | 5193.93 | 5059.91 | 4915.95 | 4721.07 | 4540.23 |
| 180.0 | 5608.27 | 5500.59 | 5377.69 | 5246.60 | 5081.57 | 4943.45 | 4790.13 | 4622.75 | 4388.08 |
| 225.0 | 5433.87 | 5312.73 | 5188.08 | 5052.89 | 4868.55 | 4708.78 | 4527.94 | 4345.35 | 4107.17 |
| 270.0 | 5581.35 | 5437.97 | 5319.17 | 5193.93 | 5024.80 | 4876.15 | 4714.05 | 4534.97 | 4304.97 |
| 315.0 | 5430.95 | 5318.00 | 5167.01 | 5034.16 | 4891.95 | 4690.64 | 4515.65 | 4331.31 | 4141.70 |
| 360.0 | 5552.67 | 5430.95 | 5308.05 | 5150.04 | 5008.41 | 4822.90 | 4654.35 | 4466.50 | 4230.65 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 4040.45 | 3858.45 | 3667.66 | 3471.61 | 3214.70 | 3003.43 | 2793.92 | 2579.73 | 2316.38 |
| 45.0 | 4349.45 | 4157.50 | 3966.13 | 3723.26 | 3528.97 | 3329.40 | 3122.23 | 2857.13 | 2643.52 |
| 90.0 | 4144.04 | 3956.76 | 3766.57 | 3515.51 | 3309.51 | 3048.50 | 2834.89 | 2618.36 | 2343.88 |
| 135.0 | 4346.52 | 4120.04 | 3938.62 | 3751.35 | 3502.04 | 3301.31 | 3094.73 | 2826.11 | 2606.07 |
| 180.0 | 4199.63 | 4004.17 | 3785.88 | 3585.15 | 3332.33 | 3139.21 | 2917.99 | 2663.42 | 2440.45 |
| 225.0 | 3919.90 | 3679.37 | 3483.32 | 3286.68 | 3030.35 | 2821.43 | 2614.26 | 2398.90 | 2133.79 |
| 270.0 | 4107.75 | 3911.12 | 3733.21 | 3489.76 | 3272.64 | 3080.10 | 2817.33 | 2613.67 | 2400.65 |
| 315.0 | 3901.17 | 3706.87 | 3510.82 | 3306.58 | 3051.42 | 2850.69 | 2648.79 | 2439.28 | 2182.95 |
| 360.0 | 4040.45 | 3858.45 | 3667.66 | 3471.61 | 3214.70 | 3003.43 | 2793.92 | 2579.73 | 2316.38 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 2102.19 | 1838.25 | 1635.76 | 1121.17 | 1121.17 | 981.42 | 813.17 | 646.50 | 538.00 |
| 45.0 | 2422.30 | 2203.43 | 1938.91 | 1728.81 | 1523.98 | 1269.41 | 1075.12 | 856.24 | 713.45 |
| 90.0 | 2123.25 | 1907.31 | 1696.04 | 1144.06 | 1144.06 | 1053.70 | 875.67 | 690.16 | 576.04 |
| 135.0 | 2385.44 | 2165.98 | 1899.11 | 1690.77 | 1489.46 | 1289.89 | 1053.46 | 875.56 | 724.57 |
| 180.0 | 2236.20 | 2025.52 | 1805.48 | 1542.13 | 1337.88 | 1137.74 | 946.37 | 746.81 | 624.49 |
| 225.0 | 1920.77 | 1704.82 | 1125.45 | 1125.45 | 1030.00 | 855.89 | 679.80 | 568.43 | 475.96 |
| 270.0 | 2134.96 | 1927.20 | 1658.59 | 1431.52 | 1226.10 | 1041.17 | 828.74 | 683.02 | 569.48 |
| 315.0 | 1974.61 | 1709.50 | 1137.21 | 1137.21 | 1043.57 | 869.70 | 724.27 | 603.25 | 478.48 |
| 360.0 | 2102.19 | 1838.25 | 1635.76 | 1121.17 | 1121.17 | 981.42 | 813.17 | 646.50 | 538.00 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 447.70 | 371.73 | 292.50 | 242.22 | 202.84 | 169.95 | 137.88 | 117.75 | 101.71 |
| 45.0 | 600.50 | 503.35 | 399.18 | 328.95 | 298.52 | 298.52 | 177.56 | 149.93 | 127.52 |
| 90.0 | 483.34 | 404.57 | 321.70 | 267.27 | 223.44 | 179.66 | 151.92 | 124.54 | 107.21 |
| 135.0 | 581.77 | 487.55 | 388.65 | 322.52 | 307.89 | 307.89 | 177.32 | 149.93 | 127.64 |
| 180.0 | 502.77 | 420.84 | 351.19 | 307.30 | 307.30 | 193.18 | 156.08 | 132.55 | 113.53 |
| 225.0 | 379.58 | 316.08 | 252.52 | 211.97 | 177.73 | 150.46 | 128.16 | 106.51 | 93.23 |
| 270.0 | 480.53 | 376.36 | 311.98 | 297.94 | 297.94 | 169.66 | 143.67 | 123.31 | 103.64 |
| 315.0 | 394.79 | 325.09 | 267.39 | 211.44 | 176.33 | 148.82 | 126.53 | 105.52 | 92.52 |
| 360.0 | 447.70 | 371.73 | 292.50 | 242.22 | 202.84 | 169.95 | 137.88 | 117.75 | 101.71 |

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 | 87.02 | 78.48 | 70.87 | 66.19 | 62.09 | 57.64 | 54.66 | 52.09 | 49.80 |
| 45.0 | 109.85 | 92.82 | 82.93 | 74.09 | 68.76 | 64.14 | 59.34 | 56.12 | 53.49 |
| 90.0 | 93.40 | 82.98 | 73.62 | 68.18 | 63.79 | 59.99 | 56.06 | 53.37 | 50.91 |
| 135.0 | 109.79 | 92.23 | 81.93 | 74.27 | 68.47 | 62.85 | 59.11 | 55.95 | 52.67 |
| 180.0 | 97.91 | 84.16 | 76.31 | 70.29 | 65.66 | 60.69 | 57.47 | 54.48 | 51.27 |
| 225.0 | 83.57 | 76.25 | 69.23 | 64.67 | 59.93 | 56.77 | 53.84 | 50.68 | 48.57 |
| 270.0 | 91.76 | 81.00 | 74.32 | 68.82 | 64.02 | 59.05 | 55.71 | 52.85 | 50.27 |
| 315.0 | 81.05 | 74.03 | 68.53 | 62.79 | 58.87 | 55.54 | 52.09 | 49.69 | 47.58 |
| 360.0 | 87.02 | 78.48 | 70.87 | 66.19 | 62.09 | 57.64 | 54.66 | 52.09 | 49.80 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 47.87 | 45.65 | 43.95 | 42.25 | 40.56 | 38.45 | 36.81 | 34.70 | 33.18 |
| 45.0 | 50.45 | 48.34 | 46.47 | 44.77 | 42.66 | 40.97 | 39.27 | 37.45 | 35.29 |
| 90.0 | 48.22 | 46.41 | 44.77 | 42.60 | 40.85 | 39.03 | 36.93 | 35.29 | 33.71 |
| 135.0 | 50.27 | 48.11 | 45.82 | 44.13 | 42.08 | 40.44 | 38.74 | 36.93 | 34.88 |
| 180.0 | 48.92 | 46.53 | 44.83 | 43.13 | 41.38 | 39.21 | 37.51 | 35.76 | 34.12 |
| 225.0 | 46.70 | 44.59 | 42.78 | 41.08 | 39.33 | 37.22 | 35.41 | 33.77 | 32.30 |
| 270.0 | 48.16 | 45.88 | 44.18 | 42.49 | 40.38 | 38.68 | 36.64 | 34.94 | 33.30 |
| 315.0 | 45.76 | 43.66 | 42.08 | 40.44 | 38.86 | 36.81 | 35.17 | 33.59 | 31.72 |
| 360.0 | 47.87 | 45.65 | 43.95 | 42.25 | 40.56 | 38.45 | 36.81 | 34.70 | 33.18 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 31.84 | 30.08 | 28.62 | 27.56 | 26.69 | 26.16 | 25.81 | 25.57 | 25.34 |
| 45.0 | 33.65 | 32.19 | 30.61 | 29.14 | 27.62 | 26.92 | 26.39 | 25.98 | 25.63 |
| 90.0 | 31.95 | 30.72 | 29.26 | 27.92 | 26.92 | 26.39 | 25.93 | 25.63 | 25.34 |
| 135.0 | 33.30 | 31.89 | 30.55 | 28.73 | 27.45 | 26.69 | 25.98 | 25.63 | 25.34 |
| 180.0 | 32.19 | 30.84 | 29.38 | 27.92 | 26.80 | 26.22 | 25.69 | 25.40 | 25.22 |
| 225.0 | 30.61 | 29.14 | 27.86 | 26.92 | 26.34 | 25.93 | 25.63 | 25.40 | 25.22 |
| 270.0 | 31.54 | 30.14 | 28.68 | 27.51 | 26.63 | 26.10 | 25.75 | 25.46 | 25.22 |
| 315.0 | 30.37 | 28.56 | 27.39 | 26.69 | 26.16 | 25.69 | 25.46 | 25.22 | 25.11 |
| 360.0 | 31.84 | 30.08 | 28.62 | 27.56 | 26.69 | 26.16 | 25.81 | 25.57 | 25.34 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 25.11 | 24.93 | 24.76 | 24.58 | 24.40 | 24.23 | 23.94 | 23.58 | 22.36 |
| 45.0 | 25.40 | 25.16 | 24.99 | 24.76 | 24.58 | 24.46 | 24.29 | 23.99 | 23.64 |
| 90.0 | 25.16 | 24.93 | 24.76 | 24.64 | 24.40 | 24.29 | 23.99 | 23.64 | 22.82 |
| 135.0 | 25.11 | 24.93 | 24.70 | 24.52 | 24.35 | 24.23 | 23.99 | 23.70 | 23.47 |
| 180.0 | 24.93 | 24.76 | 24.58 | 24.35 | 24.17 | 23.94 | 23.70 | 23.41 | 22.82 |
| 225.0 | 25.05 | 24.87 | 24.70 | 24.52 | 24.23 | 23.99 | 23.64 | 23.00 | 22.06 |
| 270.0 | 25.11 | 24.93 | 24.70 | 24.52 | 24.35 | 24.11 | 23.88 | 23.47 | 22.53 |
| 315.0 | 24.87 | 24.76 | 24.52 | 24.35 | 24.23 | 23.99 | 23.64 | 22.88 | 22.06 |
| 360.0 | 25.11 | 24.93 | 24.76 | 24.58 | 24.40 | 24.23 | 23.94 | 23.58 | 22.36 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 21.71 | 20.78 | 19.14 | 17.67 | 16.68 | 15.92 | 15.51 | 15.22 | 14.92 |
| 45.0 | 22.65 | 21.95 | 20.72 | 19.31 | 17.85 | 16.80 | 16.04 | 15.57 | 15.27 |
| 90.0 | 22.06 | 21.24 | 19.72 | 18.32 | 17.32 | 16.27 | 15.63 | 15.33 | 14.98 |
| 135.0 | 22.65 | 21.77 | 21.01 | 19.25 | 17.85 | 16.85 | 16.04 | 15.51 | 15.16 |
| 180.0 | 21.95 | 21.24 | 19.78 | 18.20 | 17.03 | 16.09 | 15.63 | 15.22 | 14.98 |
| 225.0 | 21.30 | 19.66 | 18.20 | 17.15 | 16.09 | 15.51 | 15.27 | 14.98 | 14.92 |
| 270.0 | 21.89 | 20.72 | 19.08 | 17.91 | 16.68 | 15.92 | 15.45 | 15.16 | 14.92 |
| 315.0 | 21.07 | 19.78 | 18.26 | 16.91 | 16.09 | 15.51 | 15.22 | 14.98 | 14.92 |
| 360.0 | 21.71 | 20.78 | 19.14 | 17.67 | 16.68 | 15.92 | 15.51 | 15.22 | 14.92 |

Intensity data(cd)

| | |
|-----------------|-------|
| C/ γ (°) | 90.0 |
| 0.0 | 14.98 |
| 45.0 | 14.98 |
| 90.0 | 14.92 |
| 135.0 | 14.92 |
| 180.0 | 14.98 |
| 225.0 | 14.92 |
| 270.0 | 14.92 |
| 315.0 | 14.92 |
| 360.0 | 14.98 |