



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.cn
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

| | |
|-------------------------------|---------------------|
| LumCAT: 1-0940-N | |
| Luminaire: 92.70.360.00 | |
| Report No: 220511-B009 | Voltage(V): 35.8700 |
| Test No: 220511-C009 | Current(A): 0.2010 |
| LampCAT: LUMILEDS 1202 LES6.5 | Power (W): 7.2090 |
| Lamp flux(lm): 910.1 | PF: 0.0000 |
| Number of Lamps: 1 | Ballast type: DC |
| Length(mm): 43 | Width(mm): 43 |
| Phm Type: C | Height(mm): 0 |

Photometric Results

Lumens(lm): 757.12
Efficiency(%): 83.19%
Lumens(lm)/Power(W): 105.02
Central intensity(cd): 4649.224
Maximum intensity(cd): 4649.224
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=16.9
 [C90/270]Total=16.9
Field angle(10%Imax): [C0/180]Total=43.7
 [C90/270]Total=43.7
Maximum s/h(1/2): C0_180=0.29 C90_270=0.29
Maximum s/h(1/4): C0_180=0.32 C90_270=0.32
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 83.19%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.358%

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 4649.224 | 0.000 | 0 | .000% | .000% |
| 1.0 | 4614.194 | 4.432 | 4.432 | .487% | .585% |
| 2.0 | 4516.049 | 13.105 | 17.537 | 1.440% | 2.316% |
| 3.0 | 4328.127 | 21.152 | 38.689 | 2.324% | 5.110% |
| 4.0 | 4066.334 | 28.099 | 66.788 | 3.087% | 8.821% |
| 5.0 | 3729.627 | 33.538 | 100.326 | 3.685% | 13.251% |
| 6.0 | 3315.539 | 37.024 | 137.35 | 4.068% | 18.141% |
| 7.0 | 2872.173 | 38.407 | 175.757 | 4.220% | 23.214% |
| 8.0 | 2497.447 | 38.429 | 214.187 | 4.223% | 28.290% |
| 9.0 | 2123.618 | 37.451 | 251.638 | 4.115% | 33.236% |
| 10.0 | 1807.675 | 35.577 | 287.215 | 3.909% | 37.935% |
| 11.0 | 1560.201 | 33.652 | 320.867 | 3.698% | 42.380% |
| 12.0 | 1376.528 | 32.103 | 352.969 | 3.527% | 46.620% |
| 13.0 | 1201.168 | 30.591 | 383.56 | 3.361% | 50.660% |
| 14.0 | 1084.403 | 29.255 | 412.815 | 3.215% | 54.524% |
| 15.0 | 978.252 | 28.317 | 441.132 | 3.111% | 58.265% |
| 16.0 | 871.817 | 27.109 | 468.241 | 2.979% | 61.845% |
| 17.0 | 787.334 | 25.837 | 494.078 | 2.839% | 65.258% |
| 18.0 | 711.343 | 24.710 | 518.788 | 2.715% | 68.521% |
| 19.0 | 638.258 | 23.480 | 542.269 | 2.580% | 71.623% |
| 20.0 | 574.240 | 22.192 | 564.461 | 2.438% | 74.554% |
| 21.0 | 514.652 | 20.909 | 585.37 | 2.297% | 77.315% |
| 22.0 | 454.667 | 19.479 | 604.848 | 2.140% | 79.888% |
| 23.0 | 404.744 | 18.033 | 622.881 | 1.981% | 82.270% |
| 24.0 | 356.882 | 16.652 | 639.533 | 1.830% | 84.469% |
| 25.0 | 313.337 | 15.239 | 654.772 | 1.674% | 86.482% |
| 26.0 | 266.528 | 13.688 | 668.46 | 1.504% | 88.290% |
| 27.0 | 231.610 | 12.187 | 680.647 | 1.339% | 89.900% |
| 28.0 | 183.479 | 10.509 | 691.156 | 1.155% | 91.288% |
| 29.0 | 149.584 | 8.714 | 699.87 | .957% | 92.439% |
| 30.0 | 119.446 | 7.264 | 707.134 | .798% | 93.398% |
| 31.0 | 87.097 | 5.748 | 712.882 | .632% | 94.157% |
| 32.0 | 64.234 | 4.335 | 717.217 | .476% | 94.730% |
| 33.0 | 47.645 | 3.296 | 720.513 | .362% | 95.165% |
| 34.0 | 34.164 | 2.476 | 722.989 | .272% | 95.492% |
| 35.0 | 27.957 | 1.929 | 724.918 | .212% | 95.747% |
| 36.0 | 24.461 | 1.669 | 726.587 | .183% | 95.967% |
| 37.0 | 21.937 | 1.513 | 728.101 | .166% | 96.167% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 19.898 | 1.396 | 729.497 | .153% | 96.352% |
| 39.0 | 17.941 | 1.292 | 730.788 | .142% | 96.522% |
| 40.0 | 16.006 | 1.184 | 731.972 | .130% | 96.679% |
| 41.0 | 14.483 | 1.086 | 733.058 | .119% | 96.822% |
| 42.0 | 12.989 | 0.998 | 734.056 | .110% | 96.954% |
| 43.0 | 11.517 | 0.908 | 734.964 | .100% | 97.074% |
| 44.0 | 10.487 | 0.830 | 735.794 | .091% | 97.183% |
| 45.0 | 9.516 | 0.769 | 736.563 | .084% | 97.285% |
| 46.0 | 8.604 | 0.709 | 737.272 | .078% | 97.379% |
| 47.0 | 7.977 | 0.659 | 737.931 | .072% | 97.466% |
| 48.0 | 7.477 | 0.625 | 738.556 | .069% | 97.548% |
| 49.0 | 6.999 | 0.594 | 739.15 | .065% | 97.627% |
| 50.0 | 6.648 | 0.569 | 739.719 | .063% | 97.702% |
| 51.0 | 6.356 | 0.550 | 740.27 | .060% | 97.775% |
| 52.0 | 6.072 | 0.533 | 740.803 | .059% | 97.845% |
| 53.0 | 5.856 | 0.519 | 741.322 | .057% | 97.914% |
| 54.0 | 5.654 | 0.507 | 741.829 | .056% | 97.981% |
| 55.0 | 5.452 | 0.496 | 742.325 | .054% | 98.046% |
| 56.0 | 5.296 | 0.486 | 742.811 | .053% | 98.110% |
| 57.0 | 5.169 | 0.478 | 743.289 | .053% | 98.173% |
| 58.0 | 5.027 | 0.471 | 743.76 | .052% | 98.236% |
| 59.0 | 4.930 | 0.465 | 744.226 | .051% | 98.297% |
| 60.0 | 4.847 | 0.462 | 744.688 | .051% | 98.358% |
| 61.0 | 4.758 | 0.458 | 745.146 | .050% | 98.419% |
| 62.0 | 4.706 | 0.456 | 745.602 | .050% | 98.479% |
| 63.0 | 4.638 | 0.454 | 746.057 | .050% | 98.539% |
| 64.0 | 4.564 | 0.452 | 746.508 | .050% | 98.599% |
| 65.0 | 4.519 | 0.449 | 746.958 | .049% | 98.658% |
| 66.0 | 4.467 | 0.448 | 747.406 | .049% | 98.717% |
| 67.0 | 4.407 | 0.446 | 747.852 | .049% | 98.776% |
| 68.0 | 4.369 | 0.445 | 748.297 | .049% | 98.835% |
| 69.0 | 4.295 | 0.442 | 748.739 | .049% | 98.893% |
| 70.0 | 4.242 | 0.438 | 749.177 | .048% | 98.951% |
| 71.0 | 4.160 | 0.434 | 749.611 | .048% | 99.008% |
| 72.0 | 4.078 | 0.428 | 750.04 | .047% | 99.065% |
| 73.0 | 4.011 | 0.423 | 750.463 | .046% | 99.121% |
| 74.0 | 3.936 | 0.418 | 750.881 | .046% | 99.176% |
| 75.0 | 3.891 | 0.414 | 751.294 | .045% | 99.231% |

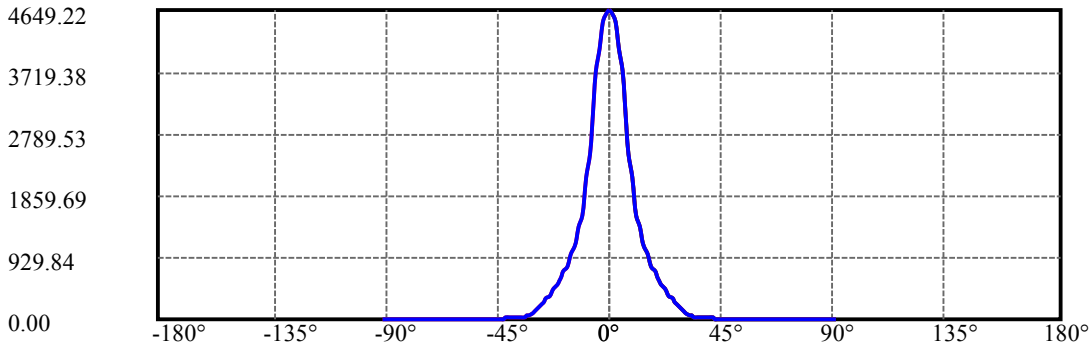
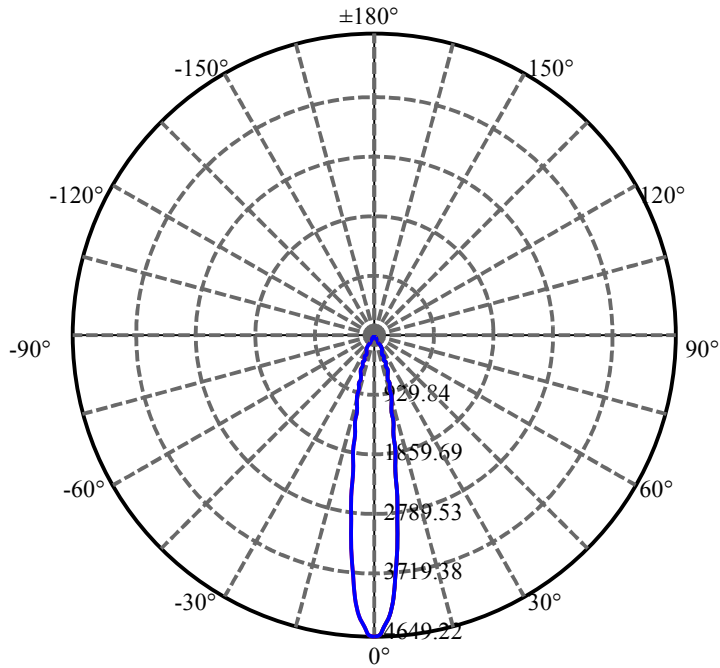
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 3.832 | 0.410 | 751.704 | .045% | 99.285% |
| 77.0 | 3.794 | 0.407 | 752.111 | .045% | 99.339% |
| 78.0 | 3.742 | 0.403 | 752.514 | .044% | 99.392% |
| 79.0 | 3.720 | 0.401 | 752.915 | .044% | 99.445% |
| 80.0 | 3.667 | 0.398 | 753.313 | .044% | 99.497% |
| 81.0 | 3.690 | 0.398 | 753.711 | .044% | 99.550% |
| 82.0 | 3.787 | 0.405 | 754.117 | .045% | 99.603% |
| 83.0 | 3.742 | 0.409 | 754.526 | .045% | 99.658% |
| 84.0 | 3.720 | 0.406 | 754.932 | .045% | 99.711% |
| 85.0 | 3.615 | 0.400 | 755.333 | .044% | 99.764% |
| 86.0 | 3.316 | 0.379 | 755.712 | .042% | 99.814% |
| 87.0 | 3.242 | 0.359 | 756.071 | .039% | 99.862% |
| 88.0 | 3.189 | 0.352 | 756.423 | .039% | 99.908% |
| 89.0 | 3.174 | 0.349 | 756.772 | .038% | 99.954% |
| 90.0 | 3.159 | 0.347 | 757.119 | .038% | 100.000% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|--------|---------|
| 0-30 | 707.13 | 77.70% | 93.40% |
| 0-40 | 731.97 | 80.43% | 96.68% |
| 0-60 | 744.69 | 81.83% | 98.36% |
| 0-90 | 756.77 | 83.15% | 99.95% |
| 0-120 | 756.77 | 83.15% | 99.95% |
| 0-180 | 757.12 | 83.19% | 100.00% |
| 60-90 | 12.55 | 1.38% | 1.66% |
| 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% |
| 0-22.05 | 605.70 | 66.55% | 80.00% |

ZONAL LUMEN SUMMARY

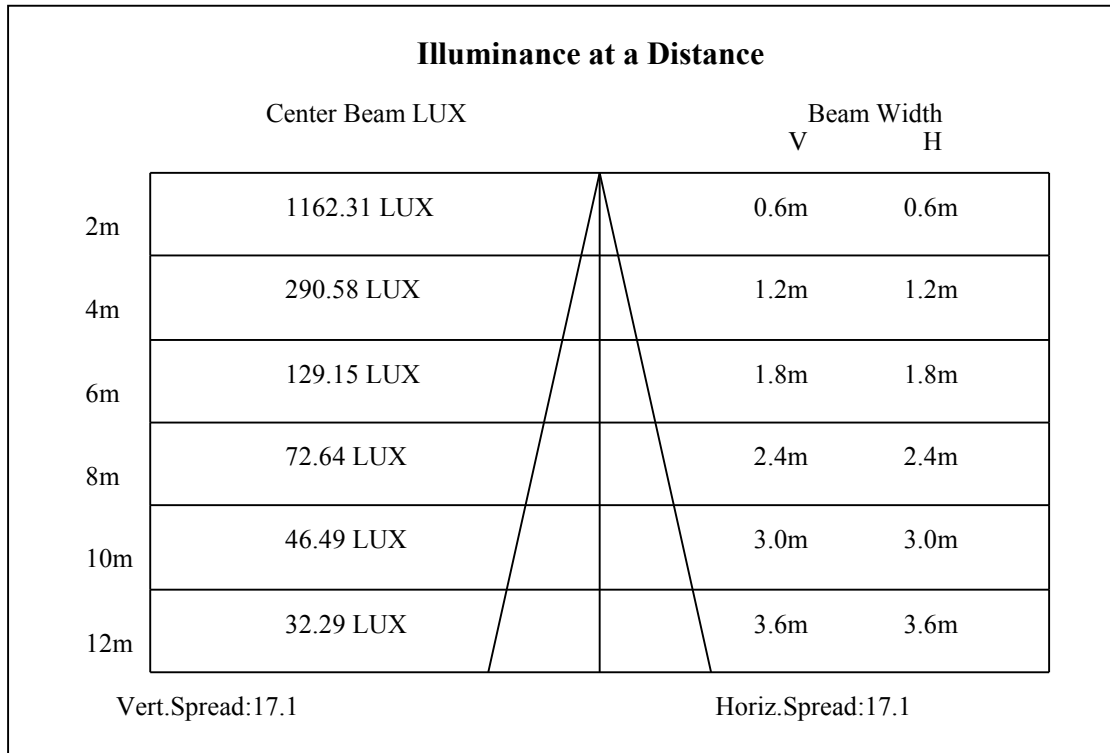
| | |
|---------|--------|
| 0-10 | 287.21 |
| 10-20 | 277.25 |
| 20-30 | 142.67 |
| 30-40 | 24.84 |
| 40-50 | 7.75 |
| 50-60 | 4.97 |
| 60-70 | 4.49 |
| 70-80 | 4.14 |
| 80-90 | 3.46 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

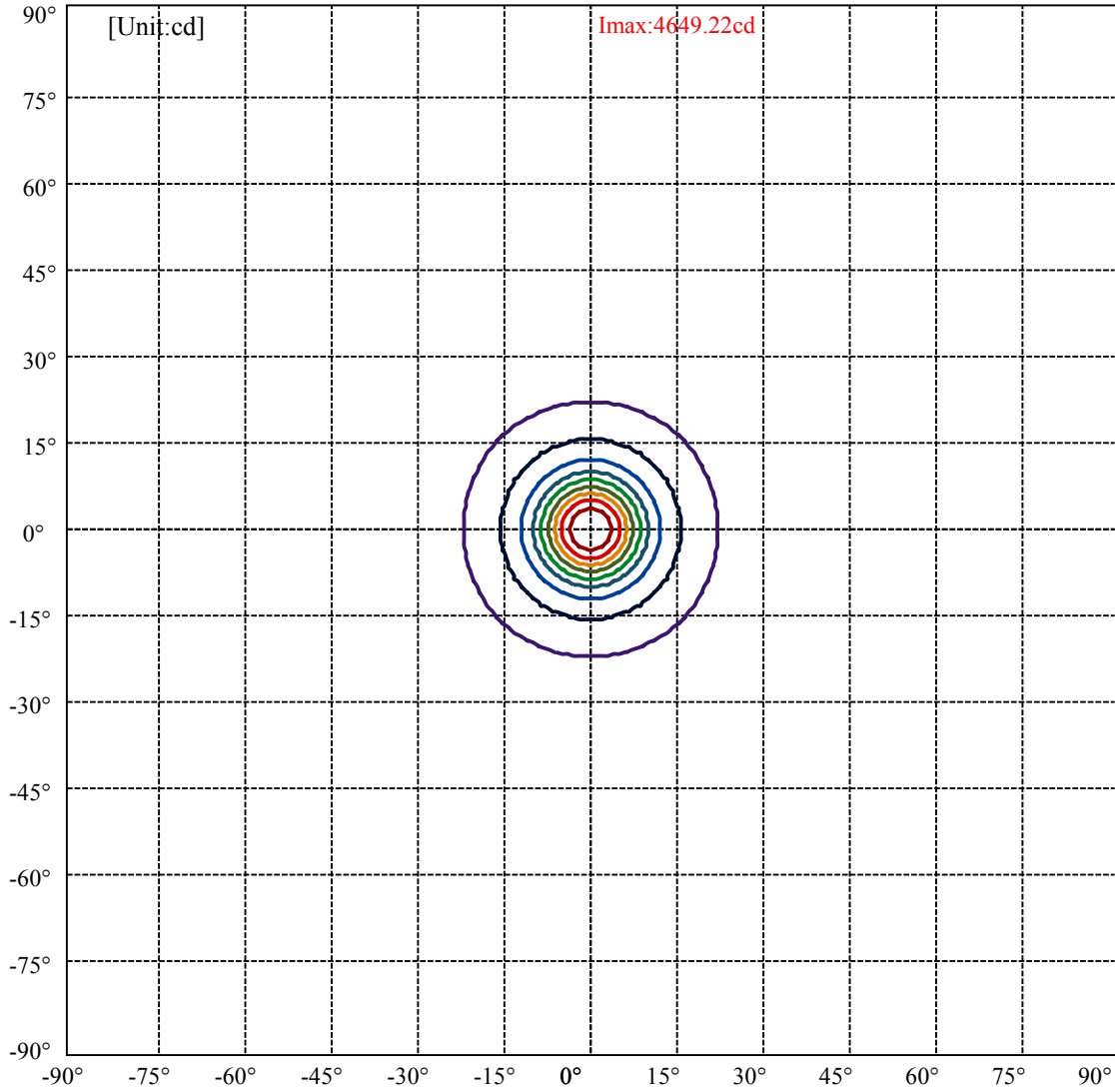


C0(Max): ———
C0/C180: ———
C90/C270: ———

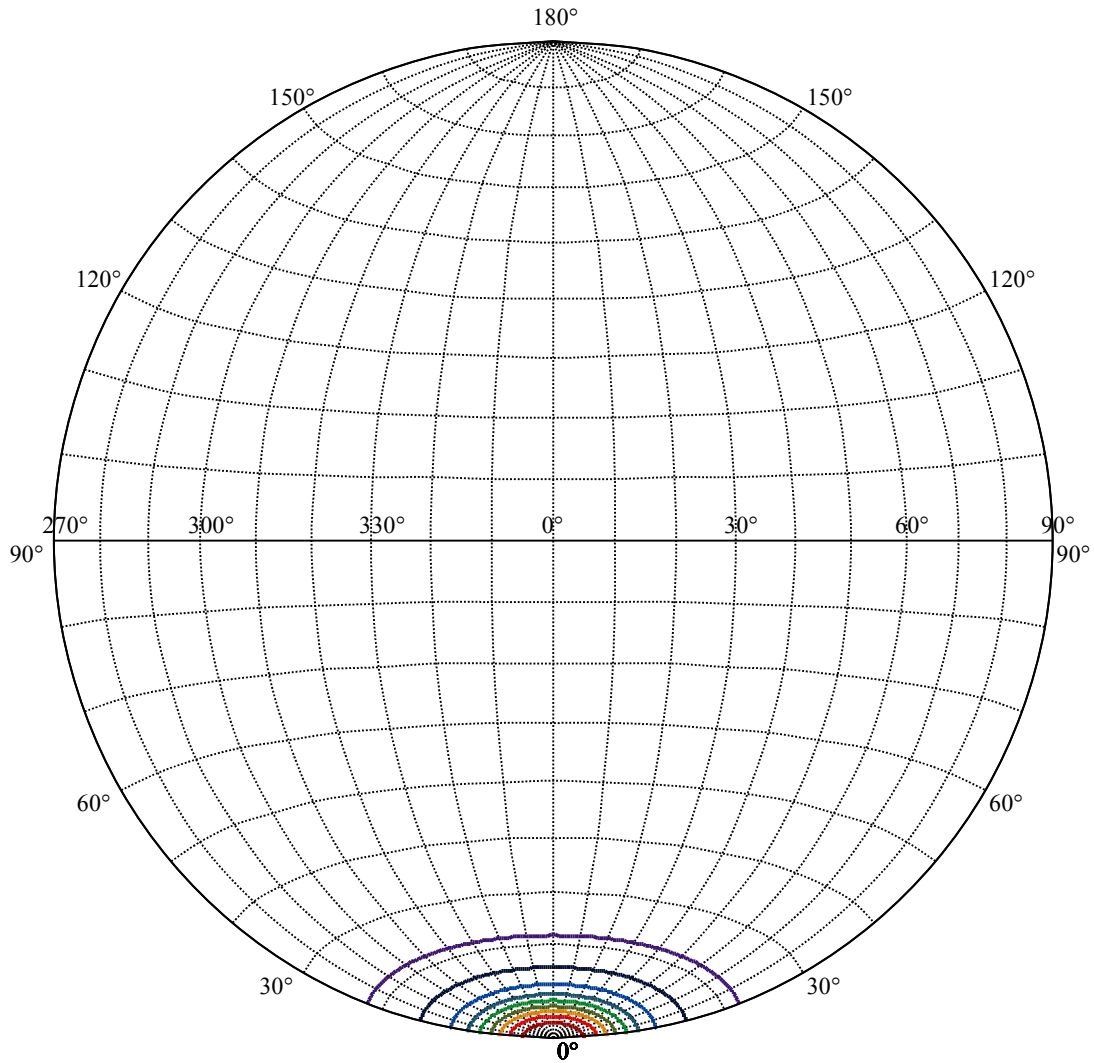
Field angle(10%Imax):C0/180Left:21.8 Right:21.8
:C90/270Left:21.8 Right:21.8

Beam Angle(50%Imax):C0/180Left:8.5 Right:8.5
:C90/270Left:8.5 Right:8.5





| | |
|-------------------|---|
| (10%Imax) 464.922 | — |
| (20%Imax) 929.845 | — |
| (30%Imax) 1394.77 | — |
| (40%Imax) 1859.69 | — |
| (50%Imax) 2324.61 | — |
| (60%Imax) 2789.53 | — |
| (70%Imax) 3254.46 | — |
| (80%Imax) 3719.38 | — |
| (90%Imax) 4184.3 | — |



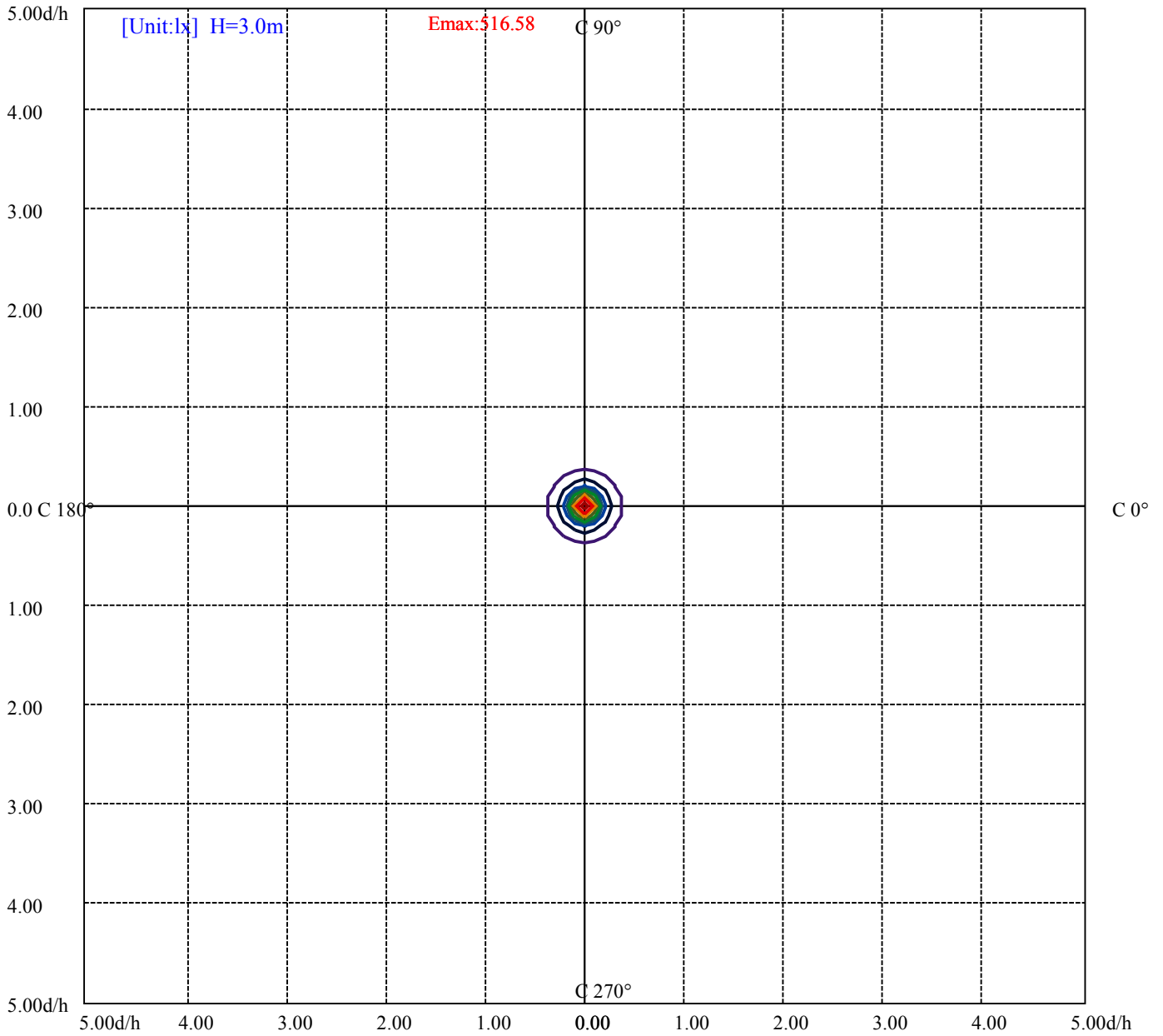
House

[Unit:cd]

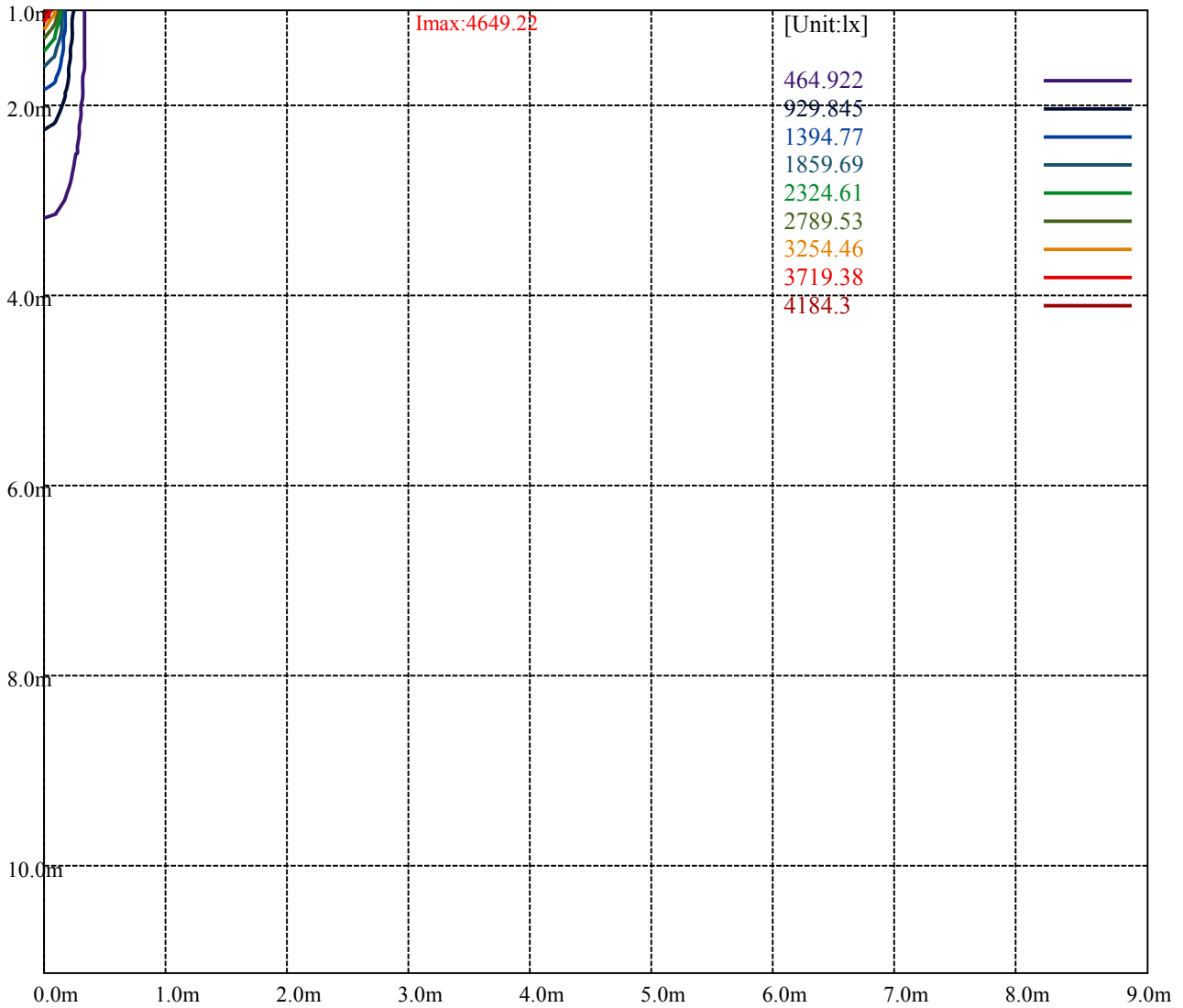
Road

Imax:4649.22

| | |
|-------------------|---|
| (10%Imax) 464.922 | — |
| (20%Imax) 929.845 | — |
| (30%Imax) 1394.77 | — |
| (40%Imax) 1859.69 | — |
| (50%Imax) 2324.61 | — |
| (60%Imax) 2789.53 | — |
| (70%Imax) 3254.46 | — |
| (80%Imax) 3719.38 | — |
| (90%Imax) 4184.3 | — |



- (10%Emax) 51.658
- (20%Emax) 103.316
- (30%Emax) 154.9744
- (40%Emax) 206.6322
- (50%Emax) 258.29
- (60%Emax) 309.9478
- (70%Emax) 361.6056
- (80%Emax) 413.2633
- (90%Emax) 464.9222



Luminance Table

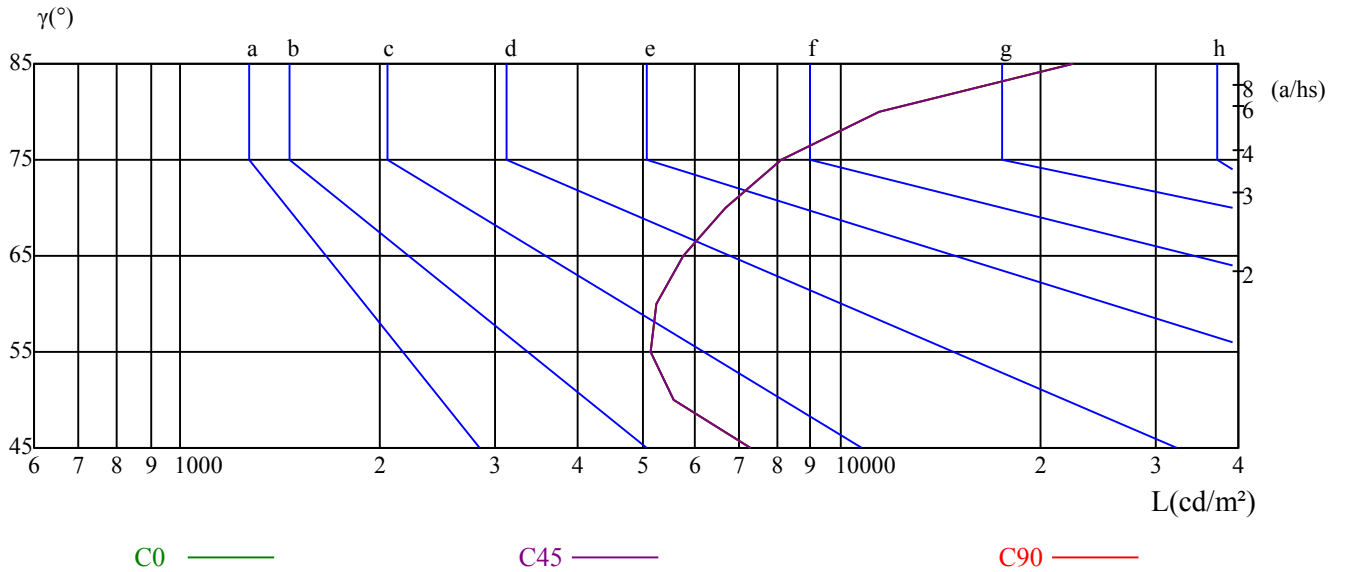
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|------|------|------|------|------|------|------|-------|-------|
| C0 | 7278 | 5593 | 5141 | 5243 | 5783 | 6709 | 8132 | 11422 | 22433 |
| C45 | 7278 | 5593 | 5141 | 5243 | 5783 | 6709 | 8132 | 11422 | 22433 |
| C90 | 7278 | 5593 | 5141 | 5243 | 5783 | 6709 | 8132 | 11422 | 22433 |

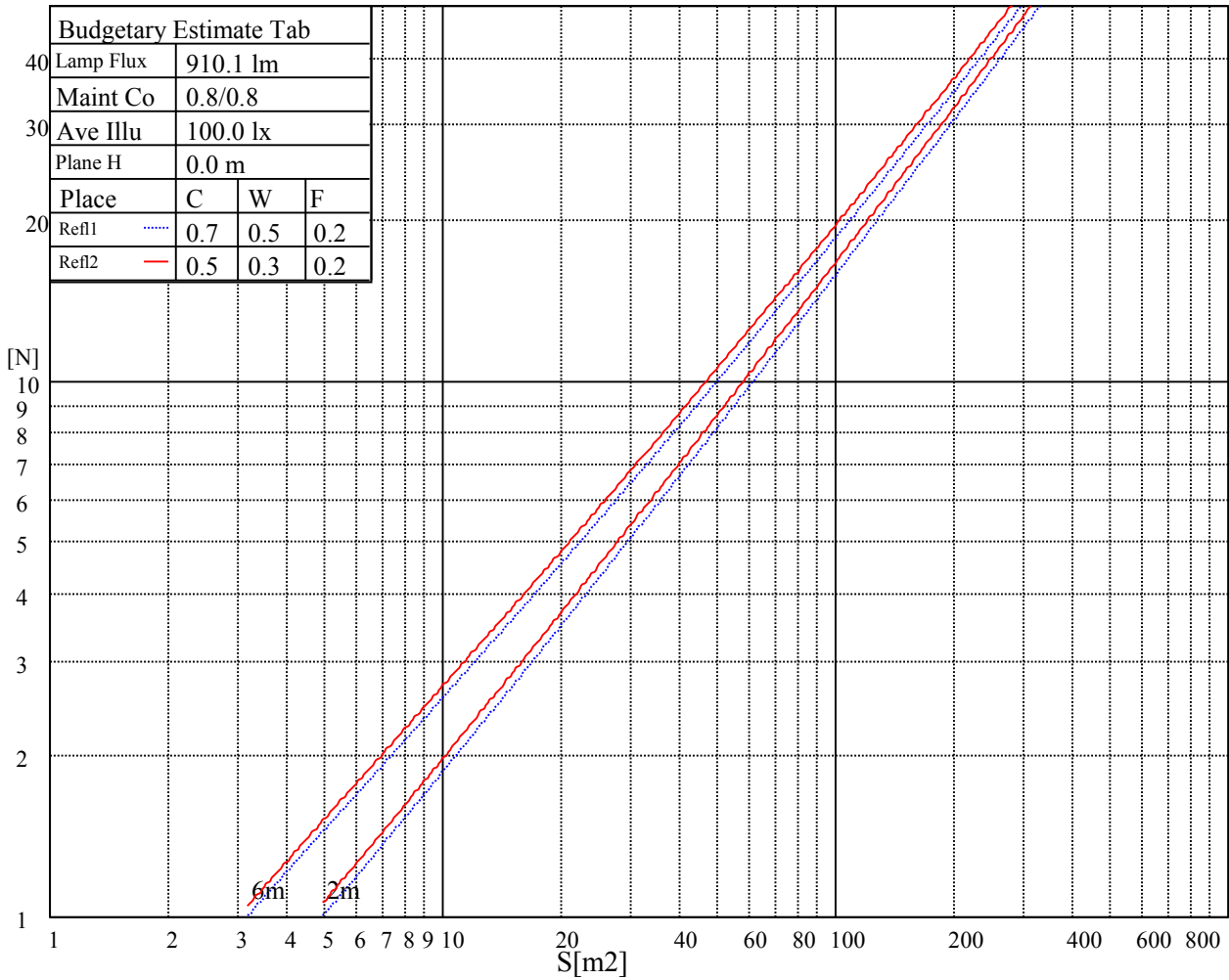
| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 5783 | 5783 | 5783 | 8132 | 8132 | 8132 | 22433 | 22433 | 22433 |

Glare Table

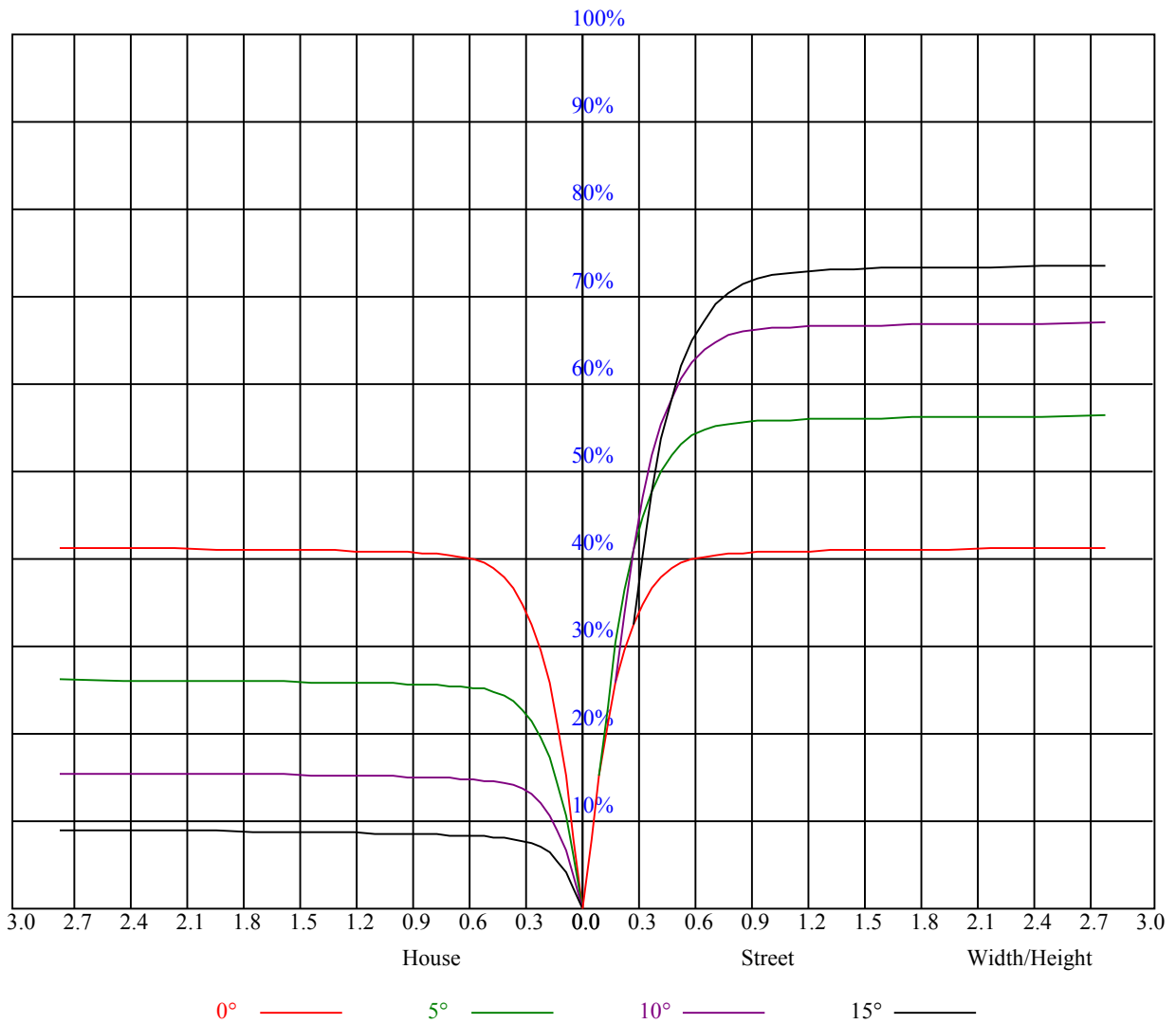
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 |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





| 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 | 0.99 | 0.99 | 0.99 | 0.97 | 0.97 | 0.97 | 0.92 | 0.92 | 0.92 | 0.89 | 0.89 | 0.89 | 0.85 | 0.85 | 0.85 | 0.83 |
| 1 | 0.93 | 0.92 | 0.90 | 0.92 | 0.90 | 0.89 | 0.88 | 0.87 | 0.86 | 0.85 | 0.84 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 |
| 2 | 0.89 | 0.86 | 0.84 | 0.87 | 0.85 | 0.83 | 0.85 | 0.83 | 0.81 | 0.82 | 0.81 | 0.80 | 0.80 | 0.79 | 0.78 | 0.77 |
| 3 | 0.85 | 0.82 | 0.79 | 0.84 | 0.81 | 0.79 | 0.82 | 0.79 | 0.77 | 0.80 | 0.78 | 0.76 | 0.78 | 0.77 | 0.75 | 0.74 |
| 4 | 0.82 | 0.78 | 0.75 | 0.81 | 0.77 | 0.75 | 0.79 | 0.76 | 0.74 | 0.77 | 0.75 | 0.73 | 0.76 | 0.74 | 0.73 | 0.72 |
| 5 | 0.78 | 0.75 | 0.72 | 0.78 | 0.74 | 0.72 | 0.76 | 0.74 | 0.71 | 0.75 | 0.73 | 0.71 | 0.74 | 0.72 | 0.70 | 0.69 |
| 6 | 0.76 | 0.72 | 0.70 | 0.75 | 0.72 | 0.69 | 0.74 | 0.71 | 0.69 | 0.73 | 0.70 | 0.69 | 0.72 | 0.70 | 0.68 | 0.67 |
| 7 | 0.73 | 0.70 | 0.67 | 0.73 | 0.69 | 0.67 | 0.72 | 0.69 | 0.67 | 0.71 | 0.68 | 0.66 | 0.70 | 0.68 | 0.66 | 0.65 |
| 8 | 0.71 | 0.68 | 0.65 | 0.71 | 0.67 | 0.65 | 0.70 | 0.67 | 0.65 | 0.69 | 0.66 | 0.64 | 0.68 | 0.66 | 0.64 | 0.63 |
| 9 | 0.69 | 0.66 | 0.63 | 0.69 | 0.65 | 0.63 | 0.68 | 0.65 | 0.63 | 0.67 | 0.65 | 0.63 | 0.67 | 0.64 | 0.63 | 0.62 |
| 10 | 0.67 | 0.64 | 0.61 | 0.67 | 0.64 | 0.61 | 0.66 | 0.63 | 0.61 | 0.66 | 0.63 | 0.61 | 0.65 | 0.63 | 0.61 | 0.60 |



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 | 4626.07 | 4669.69 | 4654.75 | 4571.10 | 4399.01 | 4139.08 | 3808.05 | 3371.26 | 2972.11 |
| 45.0 | 4672.68 | 4611.13 | 4474.30 | 4284.28 | 3982.53 | 3622.82 | 3158.54 | 2696.65 | 2326.78 |
| 90.0 | 4634.43 | 4534.05 | 4376.30 | 4038.70 | 3734.56 | 3333.61 | 2872.32 | 2431.35 | 2090.75 |
| 135.0 | 4661.92 | 4590.22 | 4442.03 | 4200.03 | 3906.64 | 3490.76 | 3025.29 | 2617.18 | 2250.29 |
| 180.0 | 4626.07 | 4522.70 | 4342.24 | 4053.64 | 3661.66 | 3267.89 | 2854.40 | 2372.19 | 2034.59 |
| 225.0 | 4672.68 | 4654.15 | 4590.22 | 4440.84 | 4223.33 | 3919.79 | 3391.57 | 3043.81 | 2652.43 |
| 270.0 | 4634.43 | 4669.09 | 4633.84 | 4566.91 | 4372.72 | 4091.88 | 3800.88 | 3321.07 | 2924.90 |
| 315.0 | 4665.51 | 4662.52 | 4614.72 | 4469.52 | 4250.22 | 3971.18 | 3613.26 | 3123.88 | 2727.72 |
| 360.0 | 4626.07 | 4669.69 | 4654.75 | 4571.10 | 4399.01 | 4139.08 | 3808.05 | 3371.26 | 2972.11 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 2537.71 | 2155.29 | 1866.08 | 1609.74 | 1403.00 | 1254.21 | 1143.07 | 991.90 | 895.70 |
| 45.0 | 1963.48 | 1673.08 | 1469.92 | 1307.99 | 1147.26 | 1035.52 | 936.93 | 840.72 | 752.29 |
| 90.0 | 1777.05 | 1533.26 | 1361.17 | 1182.75 | 1079.68 | 964.53 | 872.51 | 783.12 | 711.48 |
| 135.0 | 1900.14 | 1613.93 | 1416.74 | 1243.46 | 1104.23 | 994.89 | 890.92 | 800.09 | 724.80 |
| 180.0 | 1749.56 | 1477.09 | 1182.33 | 1165.90 | 1035.76 | 923.42 | 837.68 | 752.23 | 683.51 |
| 225.0 | 2203.69 | 1892.37 | 1643.20 | 1419.73 | 1189.98 | 1112.72 | 993.51 | 901.55 | 808.04 |
| 270.0 | 2497.07 | 2117.64 | 1830.83 | 1575.68 | 1373.12 | 1224.34 | 1099.45 | 965.61 | 872.39 |
| 315.0 | 2360.24 | 1998.93 | 1711.32 | 1506.97 | 1276.32 | 1165.60 | 1051.95 | 939.32 | 850.46 |
| 360.0 | 2537.71 | 2155.29 | 1866.08 | 1609.74 | 1403.00 | 1254.21 | 1143.07 | 991.90 | 895.70 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 822.80 | 730.18 | 656.09 | 604.10 | 529.41 | 474.44 | 423.65 | 371.07 | 328.04 |
| 45.0 | 681.78 | 612.47 | 548.53 | 494.16 | 437.99 | 390.19 | 341.79 | 305.93 | 251.02 |
| 90.0 | 638.46 | 570.64 | 513.82 | 454.84 | 401.18 | 359.89 | 319.56 | 267.10 | 228.67 |
| 135.0 | 648.32 | 591.55 | 525.83 | 464.28 | 412.30 | 362.70 | 317.29 | 305.93 | 234.53 |
| 180.0 | 611.63 | 545.78 | 489.97 | 432.61 | 379.79 | 338.08 | 295.48 | 245.35 | 209.61 |
| 225.0 | 735.20 | 661.23 | 601.59 | 536.64 | 475.10 | 424.13 | 365.03 | 321.59 | 279.76 |
| 270.0 | 790.53 | 709.27 | 636.37 | 577.21 | 512.68 | 452.93 | 402.73 | 353.74 | 308.92 |
| 315.0 | 762.03 | 684.95 | 621.73 | 553.37 | 488.90 | 435.60 | 389.53 | 335.99 | 291.65 |
| 360.0 | 822.80 | 730.18 | 656.09 | 604.10 | 529.41 | 474.44 | 423.65 | 371.07 | 328.04 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 304.74 | 230.65 | 193.96 | 161.09 | 123.15 | 95.96 | 70.99 | 46.31 | 34.60 |
| 45.0 | 214.33 | 172.75 | 138.45 | 108.93 | 75.29 | 55.33 | 41.05 | 30.59 | 24.86 |
| 90.0 | 193.30 | 156.55 | 122.25 | 93.93 | 66.80 | 45.77 | 34.42 | 27.49 | 24.80 |
| 135.0 | 197.12 | 157.93 | 127.09 | 97.04 | 65.55 | 47.09 | 34.54 | 26.95 | 24.32 |
| 180.0 | 175.73 | 140.36 | 106.54 | 80.25 | 55.27 | 37.70 | 29.46 | 25.81 | 23.54 |
| 225.0 | 239.97 | 193.84 | 160.32 | 129.48 | 97.76 | 70.75 | 52.04 | 36.45 | 28.08 |
| 270.0 | 275.76 | 212.78 | 178.12 | 146.28 | 110.30 | 84.43 | 62.26 | 41.29 | 31.91 |
| 315.0 | 251.92 | 202.98 | 169.94 | 138.57 | 102.66 | 76.84 | 56.41 | 38.42 | 31.55 |
| 360.0 | 304.74 | 230.65 | 193.96 | 161.09 | 123.15 | 95.96 | 70.99 | 46.31 | 34.60 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 27.79 | 24.98 | 22.71 | 20.61 | 18.46 | 16.49 | 14.76 | 13.27 | 12.07 |
| 45.0 | 22.41 | 19.90 | 18.34 | 16.49 | 14.76 | 13.44 | 11.89 | 10.58 | 9.62 |
| 90.0 | 22.35 | 20.08 | 18.05 | 16.13 | 14.04 | 12.79 | 11.53 | 10.34 | 9.38 |
| 135.0 | 22.23 | 19.96 | 17.81 | 16.07 | 14.58 | 13.15 | 11.65 | 10.34 | 9.50 |
| 180.0 | 21.27 | 19.12 | 17.33 | 15.42 | 13.86 | 12.49 | 11.35 | 10.10 | 9.20 |
| 225.0 | 24.86 | 22.47 | 20.50 | 18.46 | 16.55 | 15.06 | 13.68 | 12.01 | 10.88 |
| 270.0 | 27.31 | 24.56 | 22.17 | 20.20 | 18.05 | 16.25 | 14.46 | 12.97 | 11.77 |
| 315.0 | 27.49 | 24.44 | 22.29 | 20.14 | 17.75 | 16.19 | 14.58 | 12.55 | 11.47 |
| 360.0 | 27.79 | 24.98 | 22.71 | 20.61 | 18.46 | 16.49 | 14.76 | 13.27 | 12.07 |

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 | 10.88 | 9.68 | 8.90 | 8.25 | 7.59 | 7.17 | 6.81 | 6.51 | 6.21 |
| 45.0 | 8.78 | 8.01 | 7.47 | 7.11 | 6.75 | 6.39 | 6.09 | 5.92 | 5.68 |
| 90.0 | 8.54 | 7.89 | 7.35 | 6.93 | 6.57 | 6.21 | 5.98 | 5.68 | 5.56 |
| 135.0 | 8.72 | 8.01 | 7.53 | 7.11 | 6.69 | 6.45 | 6.21 | 5.98 | 5.74 |
| 180.0 | 8.48 | 7.83 | 7.35 | 6.93 | 6.57 | 6.27 | 6.04 | 5.74 | 5.56 |
| 225.0 | 9.86 | 8.78 | 8.13 | 7.59 | 7.05 | 6.69 | 6.39 | 6.09 | 5.86 |
| 270.0 | 10.58 | 9.44 | 8.66 | 8.01 | 7.41 | 7.05 | 6.69 | 6.39 | 6.15 |
| 315.0 | 10.28 | 9.20 | 8.43 | 7.89 | 7.35 | 6.93 | 6.63 | 6.27 | 6.09 |
| 360.0 | 10.88 | 9.68 | 8.90 | 8.25 | 7.59 | 7.17 | 6.81 | 6.51 | 6.21 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 6.04 | 5.80 | 5.62 | 5.44 | 5.32 | 5.20 | 5.08 | 4.90 | 4.84 |
| 45.0 | 5.50 | 5.32 | 5.20 | 5.02 | 4.90 | 4.84 | 4.78 | 4.72 | 4.66 |
| 90.0 | 5.32 | 5.20 | 5.08 | 4.96 | 4.84 | 4.72 | 4.66 | 4.66 | 4.60 |
| 135.0 | 5.56 | 5.38 | 5.20 | 5.14 | 4.96 | 4.90 | 4.84 | 4.72 | 4.66 |
| 180.0 | 5.38 | 5.20 | 5.08 | 4.96 | 4.84 | 4.78 | 4.72 | 4.66 | 4.60 |
| 225.0 | 5.68 | 5.38 | 5.20 | 5.08 | 4.96 | 4.84 | 4.78 | 4.72 | 4.66 |
| 270.0 | 5.92 | 5.68 | 5.50 | 5.38 | 5.20 | 5.08 | 4.96 | 4.84 | 4.84 |
| 315.0 | 5.86 | 5.68 | 5.50 | 5.38 | 5.20 | 5.08 | 4.96 | 4.84 | 4.78 |
| 360.0 | 6.04 | 5.80 | 5.62 | 5.44 | 5.32 | 5.20 | 5.08 | 4.90 | 4.84 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 4.78 | 4.72 | 4.66 | 4.60 | 4.54 | 4.54 | 4.48 | 4.42 | 4.30 |
| 45.0 | 4.60 | 4.48 | 4.48 | 4.42 | 4.36 | 4.36 | 4.24 | 4.18 | 4.12 |
| 90.0 | 4.54 | 4.48 | 4.42 | 4.42 | 4.30 | 4.30 | 4.18 | 4.12 | 4.06 |
| 135.0 | 4.60 | 4.54 | 4.48 | 4.42 | 4.36 | 4.30 | 4.24 | 4.18 | 4.06 |
| 180.0 | 4.54 | 4.48 | 4.42 | 4.42 | 4.36 | 4.30 | 4.24 | 4.12 | 4.06 |
| 225.0 | 4.60 | 4.54 | 4.48 | 4.42 | 4.36 | 4.30 | 4.30 | 4.24 | 4.18 |
| 270.0 | 4.72 | 4.60 | 4.60 | 4.48 | 4.48 | 4.42 | 4.36 | 4.36 | 4.30 |
| 315.0 | 4.72 | 4.66 | 4.60 | 4.54 | 4.48 | 4.42 | 4.30 | 4.30 | 4.18 |
| 360.0 | 4.78 | 4.72 | 4.66 | 4.60 | 4.54 | 4.54 | 4.48 | 4.42 | 4.30 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 4.24 | 4.18 | 4.06 | 4.00 | 3.94 | 3.88 | 3.82 | 3.76 | 3.70 |
| 45.0 | 4.00 | 3.94 | 3.88 | 3.82 | 3.76 | 3.70 | 3.70 | 3.64 | 3.59 |
| 90.0 | 4.00 | 3.94 | 3.88 | 3.88 | 3.76 | 3.76 | 3.76 | 3.76 | 3.76 |
| 135.0 | 4.00 | 3.94 | 3.88 | 3.82 | 3.76 | 3.70 | 3.64 | 3.64 | 3.59 |
| 180.0 | 4.00 | 3.88 | 3.82 | 3.82 | 3.76 | 3.76 | 3.64 | 3.64 | 3.59 |
| 225.0 | 4.06 | 4.00 | 3.88 | 3.82 | 3.82 | 3.76 | 3.70 | 3.64 | 3.59 |
| 270.0 | 4.18 | 4.12 | 4.06 | 4.00 | 3.94 | 3.94 | 3.88 | 3.88 | 3.82 |
| 315.0 | 4.12 | 4.06 | 4.00 | 3.94 | 3.88 | 3.82 | 3.76 | 3.76 | 3.70 |
| 360.0 | 4.24 | 4.18 | 4.06 | 4.00 | 3.94 | 3.88 | 3.82 | 3.76 | 3.70 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 3.64 | 3.59 | 3.53 | 3.53 | 3.47 | 3.41 | 3.35 | 3.29 | 3.23 |
| 45.0 | 3.53 | 3.47 | 3.47 | 3.41 | 3.35 | 3.23 | 3.23 | 3.17 | 3.17 |
| 90.0 | 4.18 | 5.32 | 4.96 | 4.24 | 3.29 | 3.23 | 3.17 | 3.11 | 3.17 |
| 135.0 | 3.59 | 3.53 | 3.53 | 3.47 | 3.29 | 3.23 | 3.23 | 3.17 | 3.17 |
| 180.0 | 3.53 | 3.47 | 3.41 | 3.41 | 3.29 | 3.29 | 3.23 | 3.17 | 3.17 |
| 225.0 | 3.59 | 3.53 | 3.47 | 3.41 | 3.35 | 3.35 | 3.23 | 3.23 | 3.17 |
| 270.0 | 3.76 | 3.76 | 4.00 | 4.78 | 5.44 | 3.47 | 3.29 | 3.23 | 3.17 |
| 315.0 | 3.70 | 3.64 | 3.59 | 3.53 | 3.47 | 3.35 | 3.23 | 3.17 | 3.17 |
| 360.0 | 3.64 | 3.59 | 3.53 | 3.53 | 3.47 | 3.41 | 3.35 | 3.29 | 3.23 |

Intensity data(cd)

| | |
|---------------|-------------|
| C/γ(°) | 90.0 |
| 0.0 | 3.23 |
| 45.0 | 3.17 |
| 90.0 | 3.17 |
| 135.0 | 3.17 |
| 180.0 | 3.17 |
| 225.0 | 3.17 |
| 270.0 | 3.11 |
| 315.0 | 3.11 |
| 360.0 | 3.23 |