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NATA

Client:

LumCAT: 1-1375-L

Luminaire: 92.70.410.00

Report No: 2023626-B005

Ballast type: AC

Test No: 2023626-C005

Voltage(V): 35.530

LampCAT: FORTIMO SLM C 1203

Current(A): 0.282

Lamp flux(lm): 1100.8

Power (W): 10.019

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1019.23, Efficiency(%): 92.59% , Luminous Efficacy(lm/W): 101.73

Central intensity(cd): 1950.605, Maximum intensity(cd): 1952.128

Angle of maximum intensity: C=0.0 $\gamma=2.0$

Beam Angle(50%Imax): [C0/180]Total=42.2

[C90/270]Total=42.2

Field angle(10%Imax): [C0/180]Total=63.4

[C90/270]Total=63.4

Maximum s/h(1/2): C0_180=0.70 C90_270=0.70

Maximum s/h(1/4): C0_180=0.65 C90_270=0.65

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.59%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.683%

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 1950.606 | 0.000 | 0 | 0.00% | 0.00% |
| 1.0 | 1950.951 | 1.867 | 1.867 | 0.17% | 0.18% |
| 2.0 | 1952.128 | 5.602 | 7.469 | 0.51% | 0.73% |
| 3.0 | 1949.291 | 9.331 | 16.8 | 0.85% | 1.65% |
| 4.0 | 1946.800 | 13.041 | 29.841 | 1.18% | 2.93% |
| 5.0 | 1942.441 | 16.731 | 46.573 | 1.52% | 4.57% |
| 6.0 | 1932.131 | 20.362 | 66.934 | 1.85% | 6.57% |
| 7.0 | 1918.916 | 23.903 | 90.838 | 2.17% | 8.91% |
| 8.0 | 1901.894 | 27.345 | 118.183 | 2.48% | 11.60% |
| 9.0 | 1877.470 | 30.630 | 148.812 | 2.78% | 14.60% |
| 10.0 | 1845.019 | 33.687 | 182.5 | 3.06% | 17.91% |
| 11.0 | 1802.950 | 36.451 | 218.95 | 3.31% | 21.48% |
| 12.0 | 1758.459 | 38.931 | 257.882 | 3.54% | 25.30% |
| 13.0 | 1698.401 | 41.024 | 298.906 | 3.73% | 29.33% |
| 14.0 | 1632.046 | 42.629 | 341.535 | 3.87% | 33.51% |
| 15.0 | 1561.401 | 43.841 | 385.376 | 3.98% | 37.81% |
| 16.0 | 1463.148 | 44.318 | 429.694 | 4.03% | 42.16% |
| 17.0 | 1387.106 | 44.386 | 474.08 | 4.03% | 46.51% |
| 18.0 | 1285.532 | 44.066 | 518.146 | 4.00% | 50.84% |
| 19.0 | 1169.760 | 42.717 | 560.863 | 3.88% | 55.03% |
| 20.0 | 1096.818 | 41.485 | 602.348 | 3.77% | 59.10% |
| 21.0 | 985.329 | 39.981 | 642.33 | 3.63% | 63.02% |
| 22.0 | 901.177 | 37.910 | 680.24 | 3.44% | 66.74% |
| 23.0 | 802.475 | 35.747 | 715.987 | 3.25% | 70.25% |
| 24.0 | 705.212 | 32.963 | 748.95 | 2.99% | 73.48% |
| 25.0 | 618.438 | 30.097 | 779.047 | 2.73% | 76.43% |
| 26.0 | 534.211 | 27.208 | 806.256 | 2.47% | 79.10% |
| 27.0 | 454.066 | 24.178 | 830.434 | 2.20% | 81.48% |
| 28.0 | 389.503 | 21.357 | 851.791 | 1.94% | 83.57% |
| 29.0 | 332.253 | 18.883 | 870.675 | 1.72% | 85.42% |
| 30.0 | 271.087 | 16.290 | 886.965 | 1.48% | 87.02% |
| 31.0 | 232.229 | 14.007 | 900.971 | 1.27% | 88.40% |
| 32.0 | 176.267 | 11.703 | 912.674 | 1.06% | 89.55% |
| 33.0 | 147.870 | 9.549 | 922.223 | 0.87% | 90.48% |
| 34.0 | 110.181 | 7.809 | 930.033 | 0.71% | 91.25% |
| 35.0 | 90.565 | 6.234 | 936.267 | 0.57% | 91.86% |
| 36.0 | 76.658 | 5.324 | 941.592 | 0.48% | 92.38% |
| 37.0 | 65.269 | 4.629 | 946.22 | 0.42% | 92.84% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 57.353 | 4.093 | 950.313 | 0.37% | 93.24% |
| 39.0 | 51.174 | 3.704 | 954.018 | 0.34% | 93.60% |
| 40.0 | 46.525 | 3.407 | 957.425 | 0.31% | 93.94% |
| 41.0 | 41.972 | 3.151 | 960.576 | 0.29% | 94.24% |
| 42.0 | 38.374 | 2.919 | 963.496 | 0.27% | 94.53% |
| 43.0 | 35.163 | 2.724 | 966.22 | 0.25% | 94.80% |
| 44.0 | 32.320 | 2.547 | 968.767 | 0.23% | 95.05% |
| 45.0 | 29.718 | 2.384 | 971.151 | 0.22% | 95.28% |
| 46.0 | 27.490 | 2.237 | 973.388 | 0.20% | 95.50% |
| 47.0 | 25.435 | 2.105 | 975.493 | 0.19% | 95.71% |
| 48.0 | 23.795 | 1.990 | 977.483 | 0.18% | 95.90% |
| 49.0 | 22.349 | 1.895 | 979.378 | 0.17% | 96.09% |
| 50.0 | 20.944 | 1.805 | 981.183 | 0.16% | 96.27% |
| 51.0 | 19.699 | 1.720 | 982.903 | 0.16% | 96.44% |
| 52.0 | 18.606 | 1.644 | 984.546 | 0.15% | 96.60% |
| 53.0 | 17.637 | 1.577 | 986.123 | 0.14% | 96.75% |
| 54.0 | 16.675 | 1.512 | 987.635 | 0.14% | 96.90% |
| 55.0 | 15.886 | 1.454 | 989.089 | 0.13% | 97.04% |
| 56.0 | 15.105 | 1.400 | 990.489 | 0.13% | 97.18% |
| 57.0 | 14.440 | 1.351 | 991.84 | 0.12% | 97.31% |
| 58.0 | 13.742 | 1.303 | 993.143 | 0.12% | 97.44% |
| 59.0 | 13.181 | 1.259 | 994.402 | 0.11% | 97.56% |
| 60.0 | 12.621 | 1.219 | 995.621 | 0.11% | 97.68% |
| 61.0 | 12.136 | 1.181 | 996.802 | 0.11% | 97.80% |
| 62.0 | 11.659 | 1.147 | 997.949 | 0.10% | 97.91% |
| 63.0 | 11.181 | 1.111 | 999.06 | 0.10% | 98.02% |
| 64.0 | 10.787 | 1.078 | 1000.138 | 0.10% | 98.13% |
| 65.0 | 10.413 | 1.049 | 1001.187 | 0.10% | 98.23% |
| 66.0 | 10.061 | 1.022 | 1002.208 | 0.09% | 98.33% |
| 67.0 | 9.708 | 0.994 | 1003.202 | 0.09% | 98.43% |
| 68.0 | 9.369 | 0.966 | 1004.169 | 0.09% | 98.52% |
| 69.0 | 9.057 | 0.940 | 1005.109 | 0.09% | 98.61% |
| 70.0 | 8.746 | 0.914 | 1006.023 | 0.08% | 98.70% |
| 71.0 | 8.435 | 0.888 | 1006.911 | 0.08% | 98.79% |
| 72.0 | 8.144 | 0.862 | 1007.773 | 0.08% | 98.88% |
| 73.0 | 7.860 | 0.837 | 1008.61 | 0.08% | 98.96% |
| 74.0 | 7.583 | 0.812 | 1009.422 | 0.07% | 99.04% |
| 75.0 | 7.321 | 0.787 | 1010.209 | 0.07% | 99.11% |

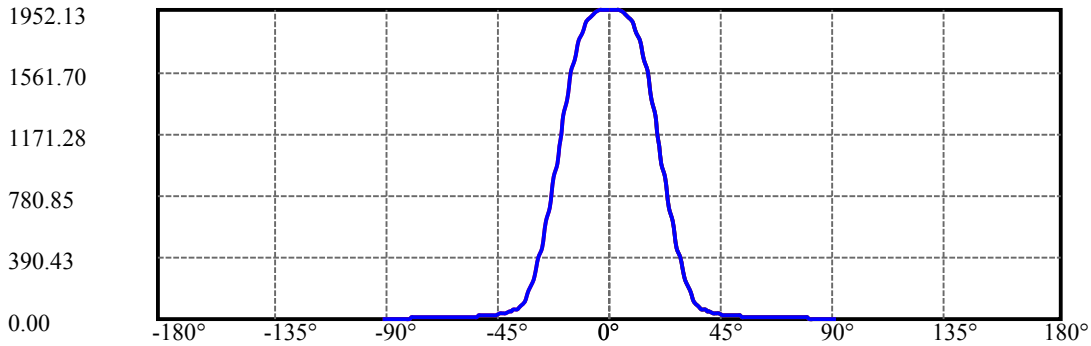
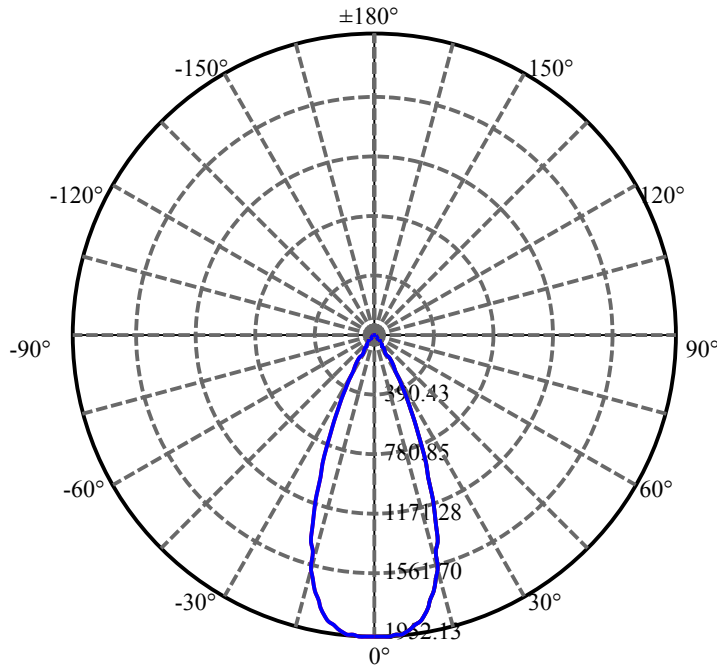
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 7.051 | 0.763 | 1010.972 | 0.07% | 99.19% |
| 77.0 | 6.760 | 0.736 | 1011.709 | 0.07% | 99.26% |
| 78.0 | 6.511 | 0.710 | 1012.419 | 0.06% | 99.33% |
| 79.0 | 6.220 | 0.684 | 1013.103 | 0.06% | 99.40% |
| 80.0 | 5.978 | 0.658 | 1013.761 | 0.06% | 99.46% |
| 81.0 | 5.743 | 0.634 | 1014.395 | 0.06% | 99.53% |
| 82.0 | 5.515 | 0.610 | 1015.005 | 0.06% | 99.59% |
| 83.0 | 5.300 | 0.588 | 1015.593 | 0.05% | 99.64% |
| 84.0 | 5.120 | 0.568 | 1016.161 | 0.05% | 99.70% |
| 85.0 | 4.954 | 0.550 | 1016.71 | 0.05% | 99.75% |
| 86.0 | 4.809 | 0.534 | 1017.244 | 0.05% | 99.80% |
| 87.0 | 4.636 | 0.517 | 1017.761 | 0.05% | 99.86% |
| 88.0 | 4.511 | 0.501 | 1018.262 | 0.05% | 99.90% |
| 89.0 | 4.414 | 0.489 | 1018.751 | 0.04% | 99.95% |
| 90.0 | 4.380 | 0.482 | 1019.233 | 0.04% | 100.00% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 886.96 | 80.58% | 87.02% |
| 0-40 | 957.43 | 86.98% | 93.94% |
| 0-60 | 995.62 | 90.45% | 97.68% |
| 0-90 | 1018.75 | 92.55% | 99.95% |
| 0-120 | 1018.75 | 92.55% | 99.95% |
| 0-180 | 1019.23 | 92.59% | 100.00% |
| 60-90 | 23.13 | 2.10% | 2.27% |
| 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% |
| 0-26.38 | 815.39 | 74.07% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 182.50 |
| 10-20 | 419.85 |
| 20-30 | 284.62 |
| 30-40 | 70.46 |
| 40-50 | 23.76 |
| 50-60 | 14.44 |
| 60-70 | 10.40 |
| 70-80 | 7.74 |
| 80-90 | 4.99 |
| 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: —————

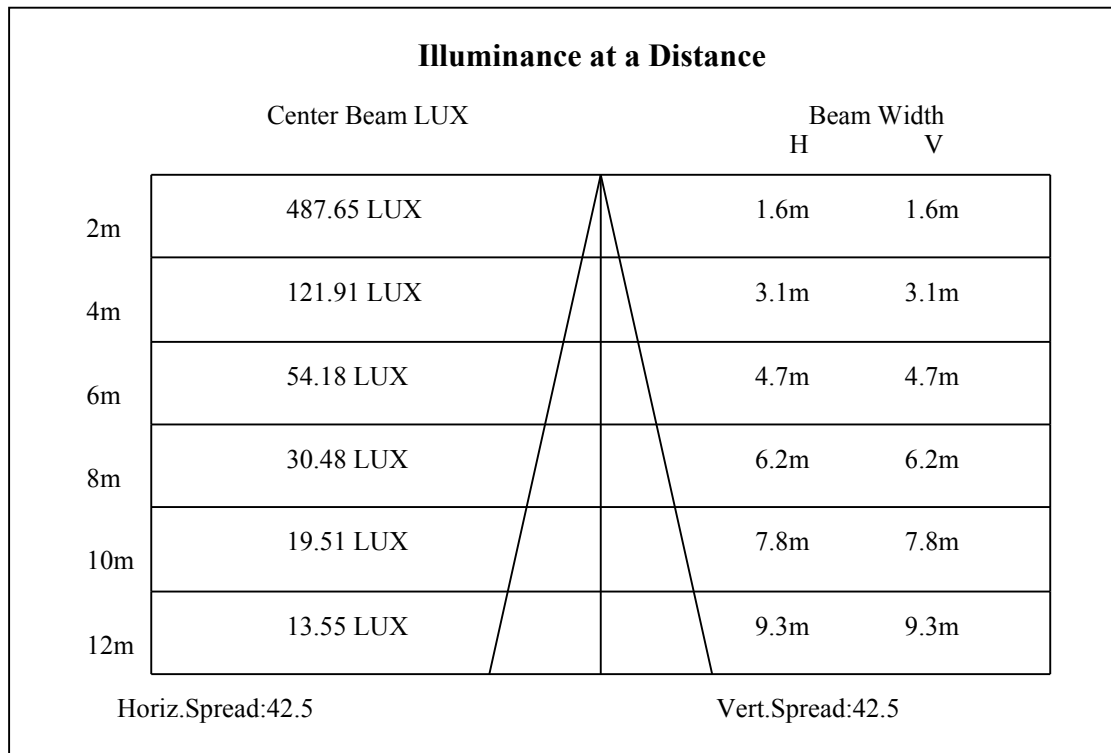
C90/C270: —————

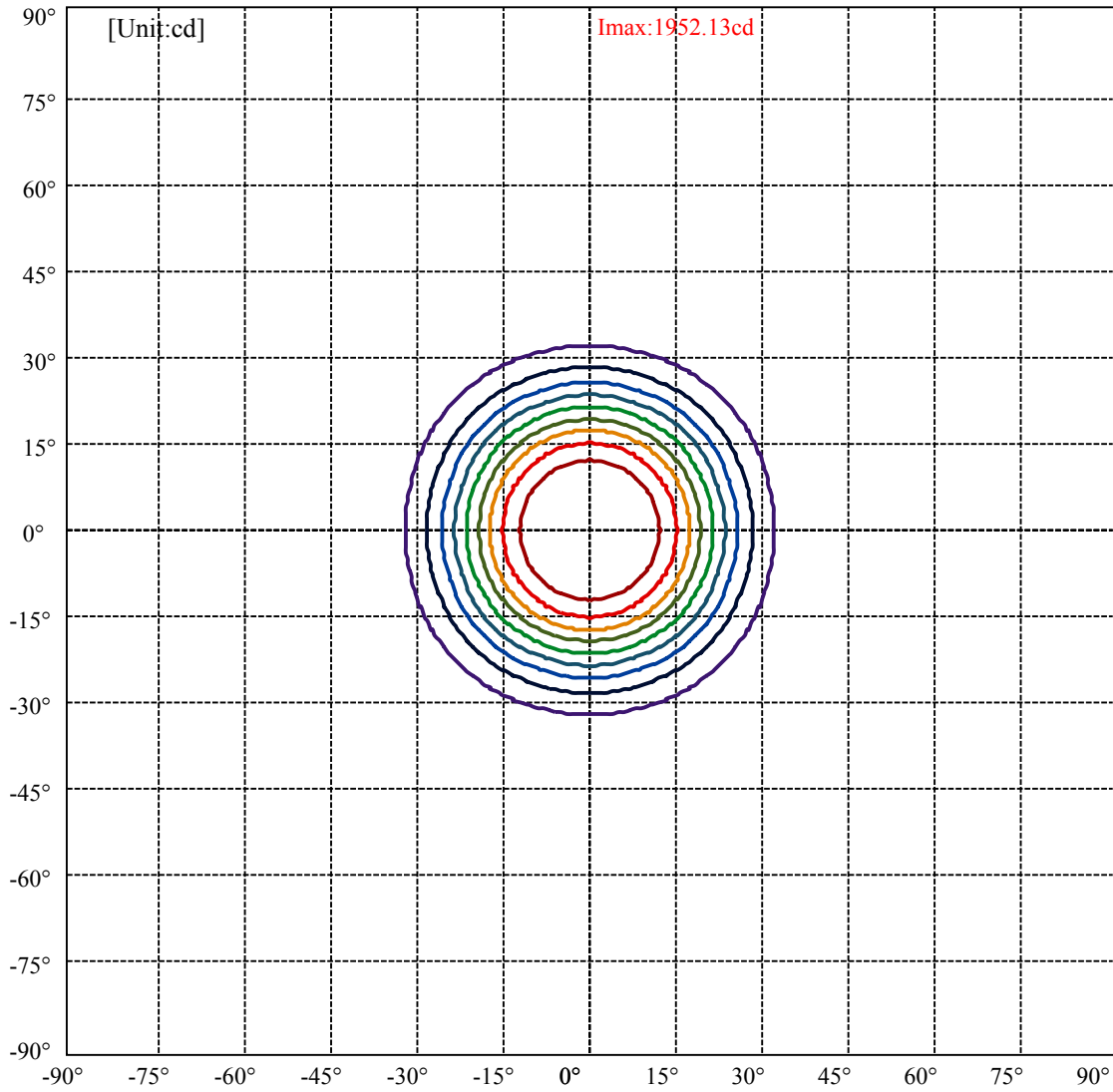
Field angle(10%Imax):C0/180Left:31.7 Right:31.7

:C90/270Left:31.7 Right:31.7

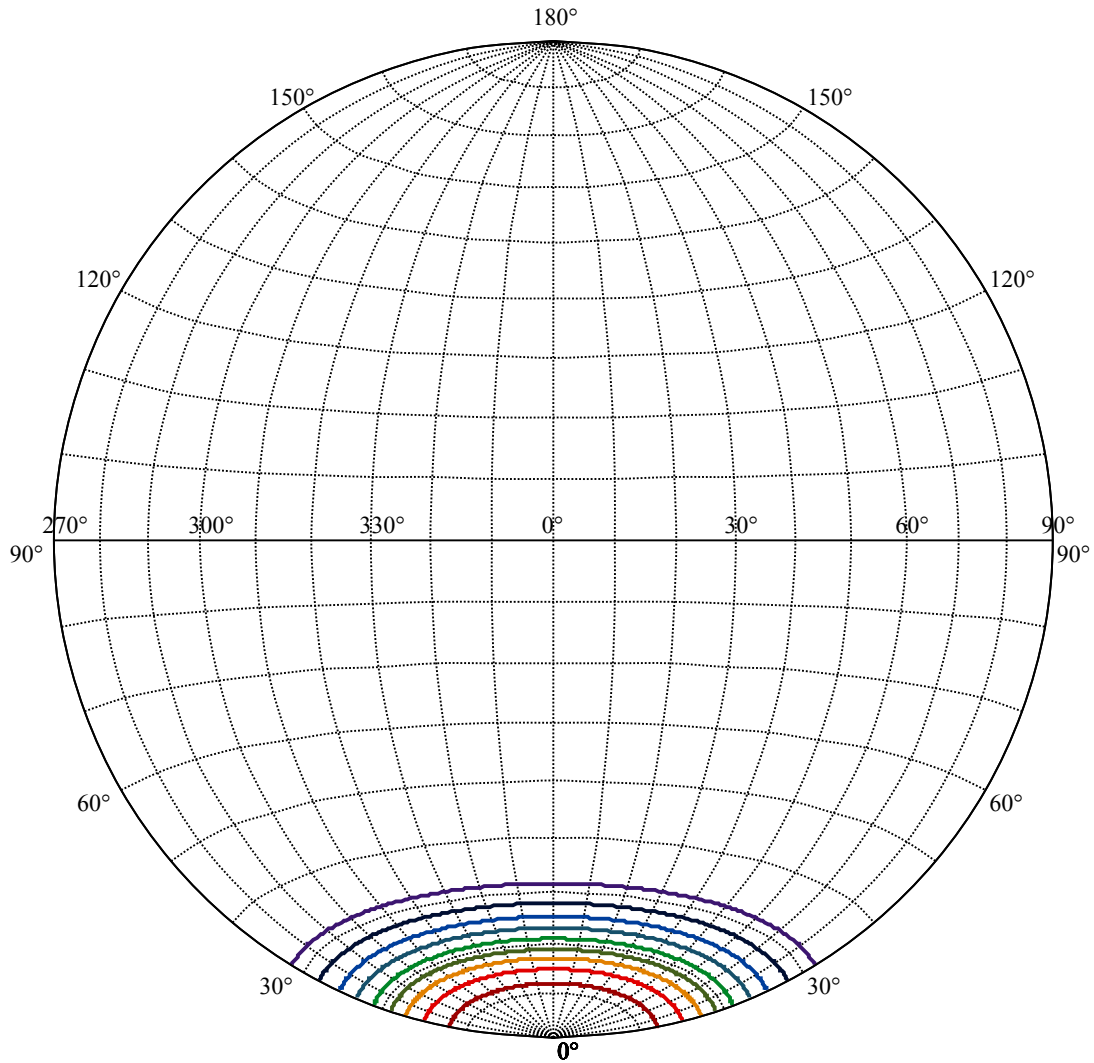
Beam Angle(50%Imax):C0/180Left:21.1 Right:21.1

:C90/270Left:21.1 Right:21.1





| | |
|-------------------|---|
| (10%Imax) 195.213 | — |
| (20%Imax) 390.426 | — |
| (30%Imax) 585.638 | — |
| (40%Imax) 780.851 | — |
| (50%Imax) 976.064 | — |
| (60%Imax) 1171.28 | — |
| (70%Imax) 1366.49 | — |
| (80%Imax) 1561.7 | — |
| (90%Imax) 1756.91 | — |



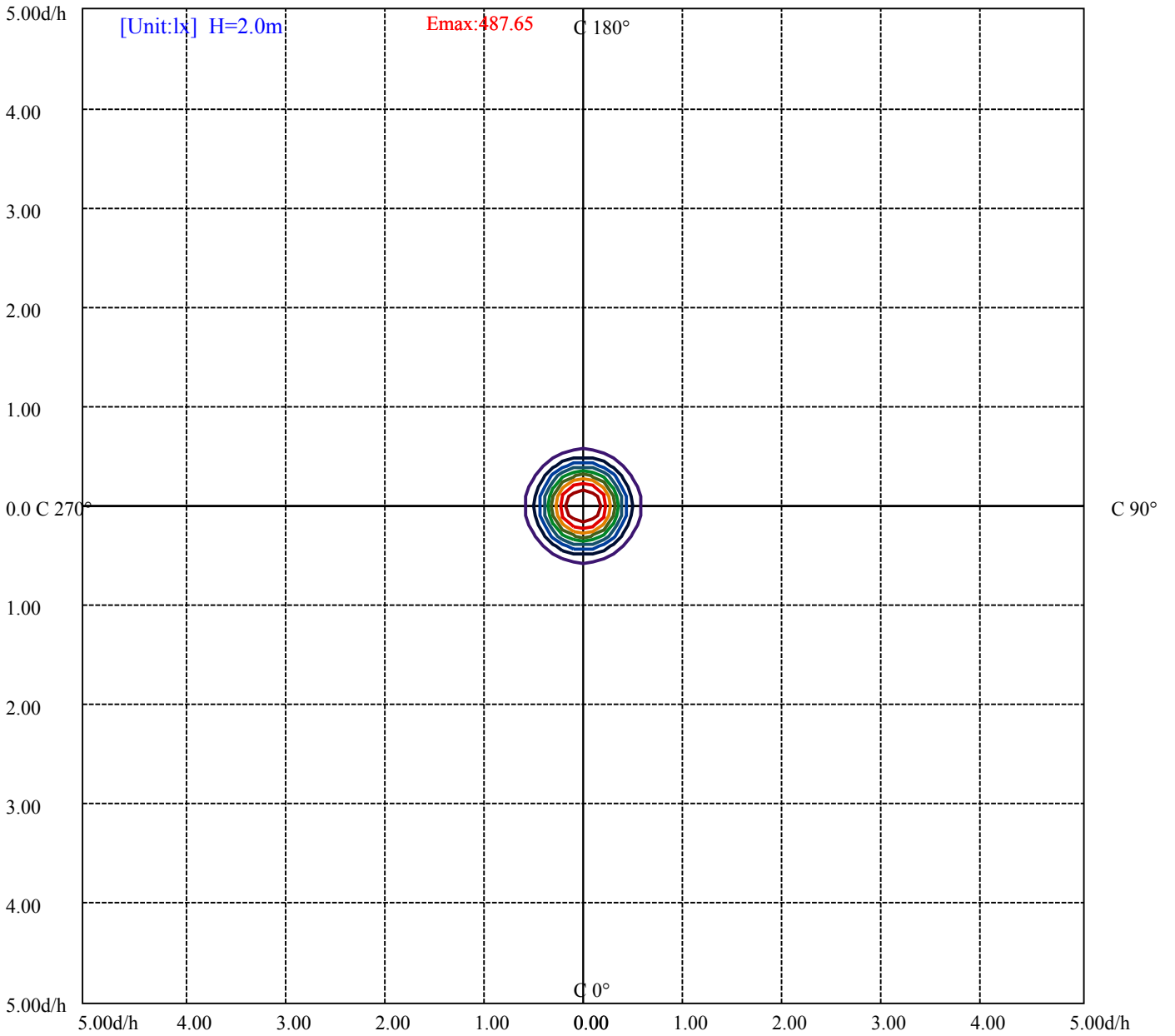
House

[Unit:cd]

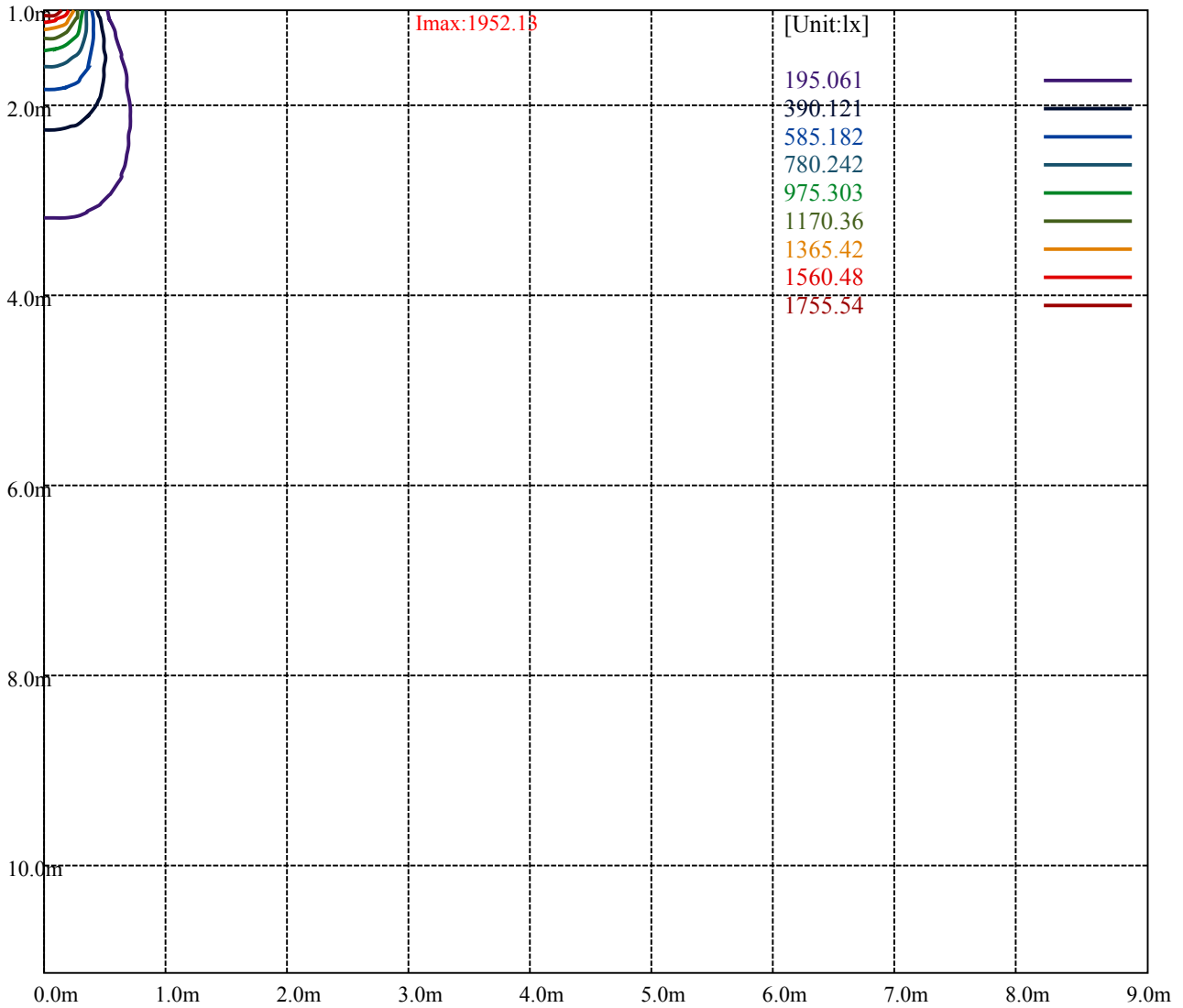
Road

Imax:1952.13

| | |
|-------------------|---|
| (10%Imax) 195.213 | — |
| (20%Imax) 390.426 | — |
| (30%Imax) 585.638 | — |
| (40%Imax) 780.851 | — |
| (50%Imax) 976.064 | — |
| (60%Imax) 1171.28 | — |
| (70%Imax) 1366.49 | — |
| (80%Imax) 1561.7 | — |
| (90%Imax) 1756.91 | — |



| | |
|--------------------|---|
| (10%Emax) 48.76525 | — |
| (20%Emax) 97.53025 | — |
| (30%Emax) 146.2955 | — |
| (40%Emax) 195.0605 | — |
| (50%Emax) 243.8257 | — |
| (60%Emax) 292.59 | — |
| (70%Emax) 341.355 | — |
| (80%Emax) 390.12 | — |
| (90%Emax) 438.885 | — |



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

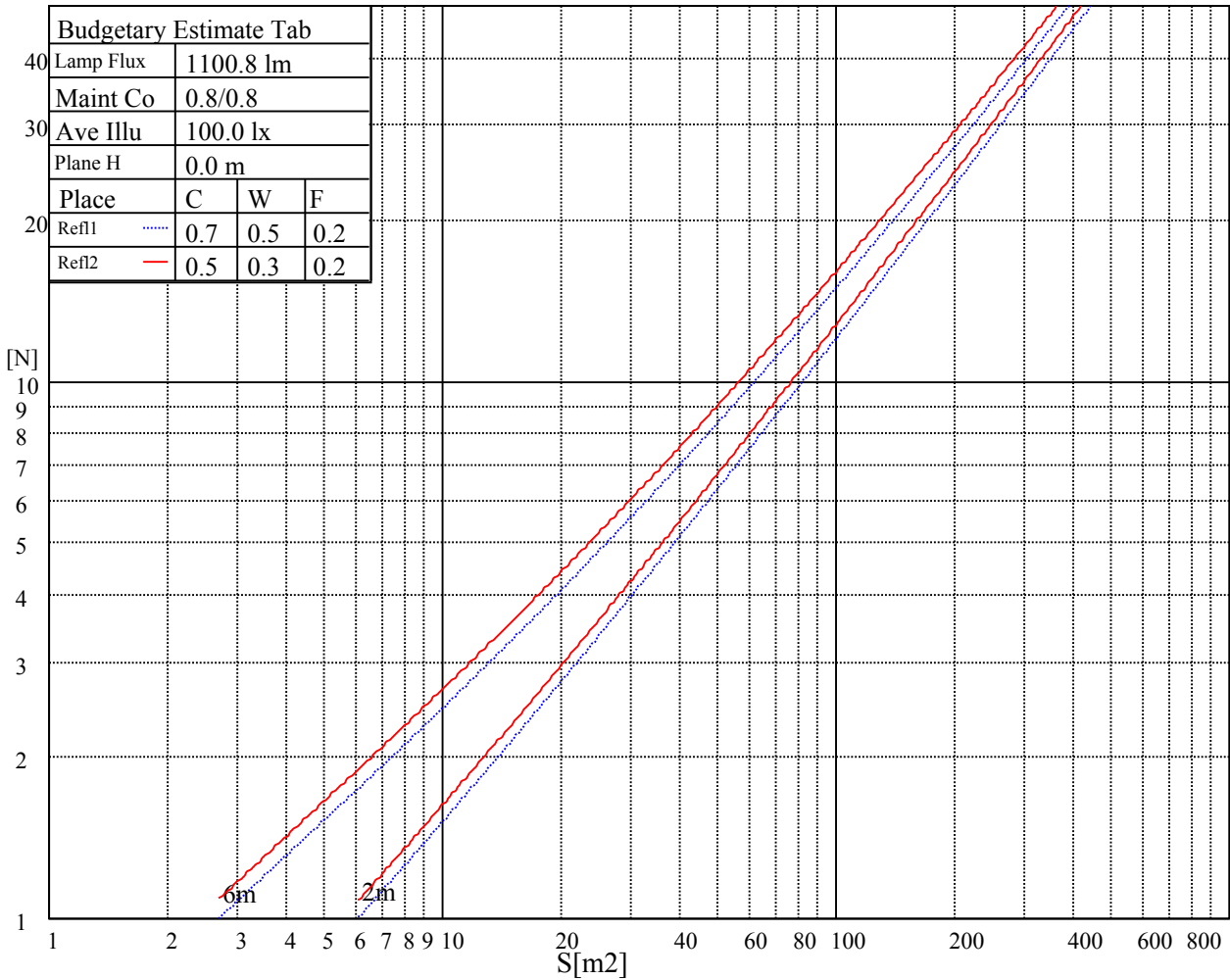
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 |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

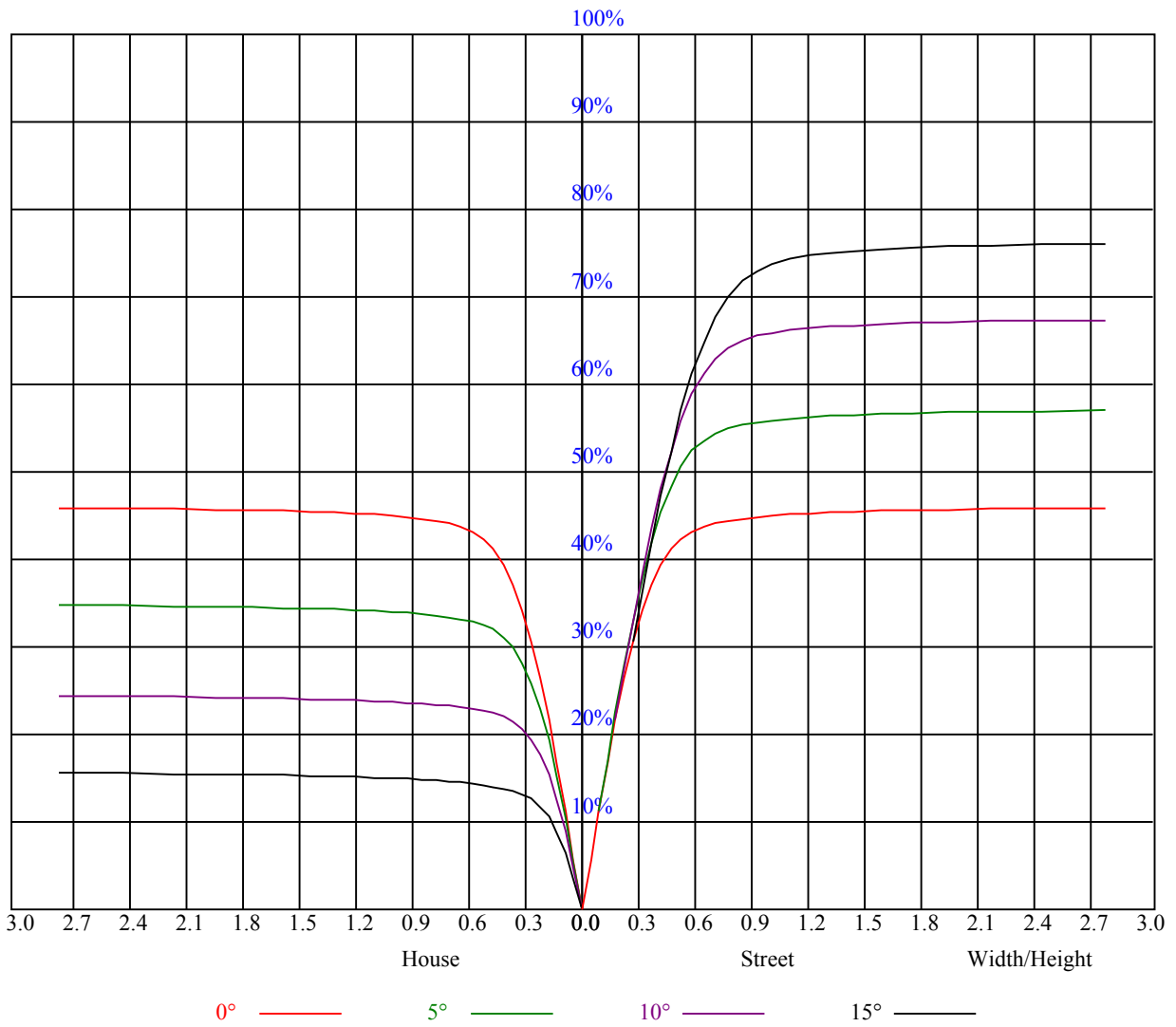


| Illumination assessment according UGR | | | | | | | | | | | |
|---|-----|------------------|-----|-----|-----|-----|----------------|-----|-----|-----|-----|
| Rf of Ceiling | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | |
| Rf of Wall | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | |
| Rf 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 1.10 | 1.10 | 1.10 | 1.08 | 1.08 | 1.08 | 1.03 | 1.03 | 1.03 | 0.99 | 0.99 | 0.99 | 0.94 | 0.94 | 0.94 | 0.93 |
| 1 | 1.03 | 1.01 | 0.99 | 1.01 | 0.99 | 0.97 | 0.97 | 0.96 | 0.94 | 0.94 | 0.93 | 0.91 | 0.91 | 0.90 | 0.89 | 0.87 |
| 2 | 0.97 | 0.93 | 0.90 | 0.95 | 0.92 | 0.89 | 0.92 | 0.90 | 0.87 | 0.89 | 0.87 | 0.86 | 0.87 | 0.85 | 0.84 | 0.82 |
| 3 | 0.91 | 0.87 | 0.84 | 0.90 | 0.86 | 0.83 | 0.88 | 0.84 | 0.82 | 0.85 | 0.83 | 0.81 | 0.83 | 0.81 | 0.79 | 0.78 |
| 4 | 0.86 | 0.82 | 0.78 | 0.85 | 0.81 | 0.78 | 0.83 | 0.80 | 0.77 | 0.82 | 0.79 | 0.76 | 0.80 | 0.77 | 0.75 | 0.74 |
| 5 | 0.82 | 0.77 | 0.74 | 0.81 | 0.77 | 0.73 | 0.80 | 0.76 | 0.73 | 0.78 | 0.75 | 0.72 | 0.77 | 0.74 | 0.72 | 0.70 |
| 6 | 0.78 | 0.73 | 0.70 | 0.77 | 0.73 | 0.70 | 0.76 | 0.72 | 0.69 | 0.75 | 0.71 | 0.69 | 0.74 | 0.71 | 0.68 | 0.67 |
| 7 | 0.75 | 0.70 | 0.66 | 0.74 | 0.69 | 0.66 | 0.73 | 0.69 | 0.66 | 0.72 | 0.68 | 0.65 | 0.71 | 0.68 | 0.65 | 0.64 |
| 8 | 0.71 | 0.66 | 0.63 | 0.71 | 0.66 | 0.63 | 0.70 | 0.66 | 0.63 | 0.69 | 0.65 | 0.63 | 0.68 | 0.65 | 0.62 | 0.61 |
| 9 | 0.68 | 0.64 | 0.60 | 0.68 | 0.63 | 0.60 | 0.67 | 0.63 | 0.60 | 0.66 | 0.63 | 0.60 | 0.66 | 0.62 | 0.60 | 0.59 |
| 10 | 0.65 | 0.61 | 0.58 | 0.65 | 0.61 | 0.58 | 0.64 | 0.60 | 0.58 | 0.64 | 0.60 | 0.57 | 0.63 | 0.60 | 0.57 | 0.56 |



NATA 1-1375-L

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 | 1955.03 | 1954.48 | 1947.84 | 1940.09 | 1931.79 | 1920.16 | 1907.43 | 1892.48 | 1873.66 |
| 45.0 | 1953.37 | 1945.07 | 1936.77 | 1931.23 | 1922.93 | 1911.30 | 1892.48 | 1876.99 | 1853.18 |
| 90.0 | 1941.20 | 1931.79 | 1927.91 | 1916.84 | 1905.22 | 1890.27 | 1861.49 | 1832.70 | 1804.47 |
| 135.0 | 1952.82 | 1946.73 | 1946.18 | 1938.43 | 1932.34 | 1923.48 | 1910.20 | 1885.29 | 1854.29 |
| 180.0 | 1955.03 | 1957.80 | 1960.57 | 1958.36 | 1955.59 | 1952.27 | 1942.86 | 1932.89 | 1912.97 |
| 225.0 | 1953.37 | 1958.91 | 1966.66 | 1970.53 | 1977.18 | 1981.60 | 1976.62 | 1965.00 | 1955.03 |
| 270.0 | 1941.20 | 1953.93 | 1963.89 | 1967.77 | 1978.28 | 1988.25 | 1993.78 | 1998.21 | 1998.76 |
| 315.0 | 1952.82 | 1958.91 | 1967.21 | 1971.09 | 1971.09 | 1972.19 | 1972.19 | 1967.77 | 1962.78 |
| 360.0 | 1955.03 | 1954.48 | 1947.84 | 1940.09 | 1931.79 | 1920.16 | 1907.43 | 1892.48 | 1873.66 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 1834.36 | 1803.36 | 1765.17 | 1721.44 | 1656.12 | 1597.45 | 1525.49 | 1441.91 | 1357.21 |
| 45.0 | 1815.54 | 1783.44 | 1743.58 | 1679.93 | 1622.36 | 1560.36 | 1491.72 | 1386.00 | 1304.63 |
| 90.0 | 1765.17 | 1703.73 | 1645.05 | 1579.74 | 1485.64 | 1401.50 | 1317.36 | 1103.14 | 1103.14 |
| 135.0 | 1824.40 | 1773.47 | 1714.80 | 1662.77 | 1574.75 | 1496.71 | 1408.69 | 1318.47 | 1209.42 |
| 180.0 | 1894.70 | 1867.02 | 1817.76 | 1772.37 | 1705.39 | 1643.39 | 1569.77 | 1487.85 | 1386.00 |
| 225.0 | 1933.45 | 1905.22 | 1856.50 | 1816.65 | 1771.26 | 1689.34 | 1616.82 | 1534.90 | 1447.99 |
| 270.0 | 1998.76 | 1989.91 | 1973.30 | 1950.61 | 1924.59 | 1879.20 | 1822.74 | 1759.08 | 1689.89 |
| 315.0 | 1953.37 | 1934.00 | 1907.43 | 1884.18 | 1847.09 | 1788.42 | 1738.60 | 1673.84 | 1598.56 |
| 360.0 | 1834.36 | 1803.36 | 1765.17 | 1721.44 | 1656.12 | 1597.45 | 1525.49 | 1441.91 | 1357.21 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 1199.46 | 1085.48 | 1085.48 | 977.99 | 886.54 | 778.05 | 692.47 | 613.48 | 515.01 |
| 45.0 | 1224.37 | 1142.44 | 1040.59 | 955.35 | 867.89 | 764.38 | 684.67 | 588.91 | 516.95 |
| 90.0 | 1038.38 | 925.51 | 838.50 | 754.03 | 670.17 | 574.40 | 502.61 | 435.13 | 374.08 |
| 135.0 | 1118.09 | 1028.41 | 935.97 | 817.52 | 728.40 | 644.81 | 546.28 | 472.66 | 402.92 |
| 180.0 | 1301.86 | 1212.19 | 1120.86 | 1000.74 | 909.40 | 814.20 | 722.86 | 618.24 | 537.98 |
| 225.0 | 1333.97 | 1079.12 | 1079.12 | 1027.58 | 898.89 | 800.58 | 705.92 | 621.40 | 523.15 |
| 270.0 | 1583.61 | 1490.62 | 1368.29 | 1265.88 | 1164.58 | 1056.64 | 917.71 | 823.61 | 722.86 |
| 315.0 | 1484.53 | 1394.30 | 1305.74 | 1083.55 | 1083.55 | 986.73 | 869.16 | 774.06 | 680.74 |
| 360.0 | 1199.46 | 1085.48 | 1085.48 | 977.99 | 886.54 | 778.05 | 692.47 | 613.48 | 515.01 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 445.87 | 381.16 | 323.04 | 254.90 | 208.07 | 167.78 | 135.89 | 105.06 | 86.57 |
| 45.0 | 448.86 | 387.97 | 317.67 | 291.66 | 291.66 | 173.75 | 131.91 | 105.73 | 87.35 |
| 90.0 | 301.46 | 251.53 | 205.69 | 165.34 | 124.66 | 99.19 | 78.05 | 67.37 | 60.11 |
| 135.0 | 325.42 | 285.02 | 285.02 | 169.94 | 136.17 | 108.94 | 85.69 | 73.07 | 65.10 |
| 180.0 | 447.20 | 383.55 | 321.00 | 281.69 | 281.69 | 161.91 | 129.20 | 99.53 | 82.48 |
| 225.0 | 451.13 | 368.82 | 311.36 | 259.72 | 203.09 | 164.29 | 132.07 | 106.00 | 83.53 |
| 270.0 | 635.96 | 557.91 | 465.47 | 396.83 | 319.89 | 291.66 | 291.66 | 172.37 | 137.22 |
| 315.0 | 576.62 | 500.06 | 428.77 | 348.62 | 292.60 | 242.61 | 198.50 | 152.33 | 122.17 |
| 360.0 | 445.87 | 381.16 | 323.04 | 254.90 | 208.07 | 167.78 | 135.89 | 105.06 | 86.57 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 74.23 | 64.15 | 57.96 | 52.59 | 46.94 | 43.18 | 39.91 | 36.26 | 33.60 |
| 45.0 | 74.01 | 63.32 | 56.57 | 49.49 | 45.00 | 41.24 | 37.14 | 34.21 | 31.66 |
| 90.0 | 52.59 | 47.27 | 42.79 | 38.30 | 35.15 | 32.38 | 29.84 | 27.07 | 25.08 |
| 135.0 | 58.84 | 51.98 | 47.16 | 43.18 | 39.69 | 35.92 | 33.21 | 30.83 | 28.12 |
| 180.0 | 70.58 | 63.10 | 55.58 | 50.10 | 45.56 | 40.74 | 37.42 | 34.43 | 31.05 |
| 225.0 | 71.46 | 63.93 | 58.01 | 51.20 | 46.61 | 42.73 | 38.36 | 35.43 | 32.66 |
| 270.0 | 113.25 | 87.46 | 74.06 | 65.37 | 59.73 | 52.36 | 48.10 | 44.39 | 40.80 |
| 315.0 | 98.31 | 80.93 | 66.70 | 59.17 | 53.53 | 47.22 | 43.01 | 38.69 | 35.59 |
| 360.0 | 74.23 | 64.15 | 57.96 | 52.59 | 46.94 | 43.18 | 39.91 | 36.26 | 33.60 |

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 | 31.11 | 28.84 | 26.46 | 24.85 | 23.41 | 22.09 | 20.65 | 19.60 | 18.60 |
| 45.0 | 28.78 | 26.79 | 24.85 | 23.36 | 21.92 | 20.37 | 19.32 | 18.32 | 17.16 |
| 90.0 | 23.36 | 21.86 | 20.31 | 19.26 | 18.21 | 17.10 | 16.33 | 15.39 | 14.72 |
| 135.0 | 26.18 | 24.13 | 22.81 | 21.53 | 20.37 | 19.04 | 18.10 | 17.21 | 16.44 |
| 180.0 | 28.62 | 26.02 | 24.30 | 22.81 | 21.48 | 19.98 | 18.93 | 17.93 | 17.05 |
| 225.0 | 29.67 | 27.46 | 25.19 | 23.64 | 22.25 | 20.98 | 19.82 | 18.49 | 17.55 |
| 270.0 | 37.09 | 34.37 | 31.77 | 29.06 | 27.07 | 25.35 | 23.47 | 22.14 | 20.87 |
| 315.0 | 32.94 | 30.44 | 27.79 | 25.85 | 24.08 | 22.64 | 20.98 | 19.76 | 18.71 |
| 360.0 | 31.11 | 28.84 | 26.46 | 24.85 | 23.41 | 22.09 | 20.65 | 19.60 | 18.60 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 17.49 | 16.66 | 15.72 | 15.06 | 14.39 | 13.67 | 13.12 | 12.62 | 12.18 |
| 45.0 | 16.38 | 15.67 | 14.78 | 14.17 | 13.45 | 12.90 | 12.40 | 11.96 | 11.35 |
| 90.0 | 14.12 | 13.56 | 12.90 | 12.40 | 11.96 | 11.57 | 11.07 | 10.68 | 10.35 |
| 135.0 | 15.61 | 14.95 | 14.34 | 13.73 | 13.06 | 12.57 | 12.01 | 11.57 | 11.13 |
| 180.0 | 16.05 | 15.39 | 14.72 | 14.12 | 13.45 | 12.95 | 12.34 | 11.90 | 11.57 |
| 225.0 | 16.77 | 15.78 | 15.06 | 14.45 | 13.67 | 13.17 | 12.68 | 12.12 | 11.68 |
| 270.0 | 19.48 | 18.49 | 17.55 | 16.72 | 15.72 | 15.00 | 14.39 | 13.78 | 13.06 |
| 315.0 | 17.49 | 16.61 | 15.78 | 14.89 | 14.23 | 13.62 | 12.95 | 12.45 | 11.96 |
| 360.0 | 17.49 | 16.66 | 15.72 | 15.06 | 14.39 | 13.67 | 13.12 | 12.62 | 12.18 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 11.62 | 11.18 | 10.79 | 10.46 | 10.07 | 9.74 | 9.41 | 9.02 | 8.75 |
| 45.0 | 11.02 | 10.63 | 10.24 | 9.91 | 9.52 | 9.24 | 8.97 | 8.58 | 8.30 |
| 90.0 | 9.91 | 9.63 | 9.35 | 9.02 | 8.75 | 8.41 | 8.14 | 7.86 | 7.64 |
| 135.0 | 10.68 | 10.35 | 10.02 | 9.69 | 9.30 | 8.97 | 8.69 | 8.41 | 8.03 |
| 180.0 | 11.02 | 10.68 | 10.35 | 10.02 | 9.69 | 9.35 | 9.02 | 8.80 | 8.41 |
| 225.0 | 11.24 | 10.74 | 10.41 | 10.07 | 9.80 | 9.41 | 9.08 | 8.80 | 8.52 |
| 270.0 | 12.57 | 12.07 | 11.51 | 11.07 | 10.63 | 10.30 | 9.91 | 9.52 | 9.19 |
| 315.0 | 11.40 | 11.02 | 10.63 | 10.24 | 9.91 | 9.52 | 9.24 | 8.97 | 8.64 |
| 360.0 | 11.62 | 11.18 | 10.79 | 10.46 | 10.07 | 9.74 | 9.41 | 9.02 | 8.75 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 8.47 | 8.14 | 7.86 | 7.58 | 7.31 | 7.03 | 6.75 | 6.48 | 6.20 |
| 45.0 | 7.97 | 7.75 | 7.47 | 7.25 | 6.97 | 6.75 | 6.53 | 6.20 | 5.98 |
| 90.0 | 7.42 | 7.09 | 6.86 | 6.64 | 6.42 | 6.14 | 5.87 | 5.59 | 5.42 |
| 135.0 | 7.80 | 7.53 | 7.20 | 6.97 | 6.70 | 6.37 | 6.14 | 5.81 | 5.59 |
| 180.0 | 8.14 | 7.86 | 7.58 | 7.31 | 7.09 | 6.75 | 6.48 | 6.14 | 5.92 |
| 225.0 | 8.14 | 7.92 | 7.64 | 7.31 | 7.03 | 6.70 | 6.48 | 6.20 | 5.92 |
| 270.0 | 8.86 | 8.58 | 8.25 | 7.97 | 7.69 | 7.42 | 7.09 | 6.86 | 6.59 |
| 315.0 | 8.36 | 8.03 | 7.80 | 7.53 | 7.20 | 6.92 | 6.75 | 6.48 | 6.20 |
| 360.0 | 8.47 | 8.14 | 7.86 | 7.58 | 7.31 | 7.03 | 6.75 | 6.48 | 6.20 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 5.98 | 5.76 | 5.54 | 5.31 | 5.20 | 4.98 | 4.82 | 4.65 | 4.54 |
| 45.0 | 5.70 | 5.48 | 5.31 | 5.09 | 4.93 | 4.76 | 4.65 | 4.54 | 4.37 |
| 90.0 | 5.20 | 5.04 | 4.87 | 4.76 | 4.59 | 4.48 | 4.37 | 4.32 | 4.26 |
| 135.0 | 5.42 | 5.15 | 4.93 | 4.76 | 4.65 | 4.54 | 4.43 | 4.26 | 4.26 |
| 180.0 | 5.70 | 5.48 | 5.26 | 5.09 | 4.93 | 4.82 | 4.59 | 4.48 | 4.37 |
| 225.0 | 5.70 | 5.48 | 5.31 | 5.09 | 4.93 | 4.76 | 4.59 | 4.54 | 4.43 |
| 270.0 | 6.25 | 6.03 | 5.70 | 5.54 | 5.31 | 5.15 | 4.93 | 4.71 | 4.59 |
| 315.0 | 5.98 | 5.70 | 5.48 | 5.31 | 5.09 | 4.98 | 4.71 | 4.59 | 4.48 |
| 360.0 | 5.98 | 5.76 | 5.54 | 5.31 | 5.20 | 4.98 | 4.82 | 4.65 | 4.54 |

Intensity data(cd)

| | |
|---------------|-------------|
| C/γ(°) | 90.0 |
| 0.0 | 4.48 |
| 45.0 | 4.37 |
| 90.0 | 4.32 |
| 135.0 | 4.26 |
| 180.0 | 4.37 |
| 225.0 | 4.37 |
| 270.0 | 4.48 |
| 315.0 | 4.37 |
| 360.0 | 4.48 |