NATA LIGHTING CO.,LTD
www.nata.cn
Email:info@nata.cn
Tel:+86 0750-377 0000(10 lines) Fax:+86 0750-377 1111
Address:380JinOu Road,Gaoxin Zone,Jiang Men City,Guangdong,China

## Nata

Client: NT
LumCAT: 1-1723-LM
Luminaire: 92.70.481.00 LED HOLDER
Report No: 20260117-C001
Ballast type: DC

| | |
|---|---|
| Test No: 20260117-C001 | Voltage(V): 34.560 |
| LampCAT: PHILIPS SLM 1203 L09 1313 | Current(A): 0.217 |
| Lamp flux(lm): 1284.8 | Power (W): 7.499 |
| Number of Lamps: 1 | PF: 0.000 |
| Length(mm): 45 | Width(mm): 45 |
| Phm Type: C | Height(mm): 19 |

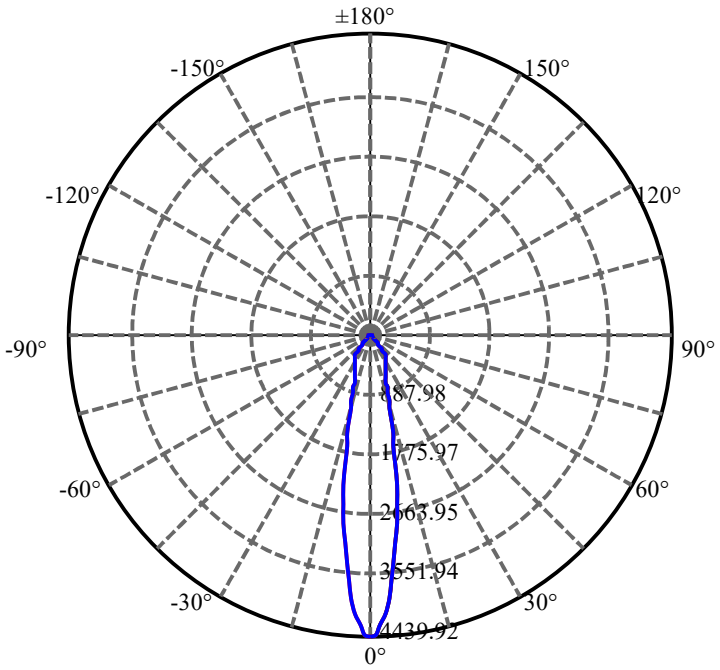
## Photometric Results

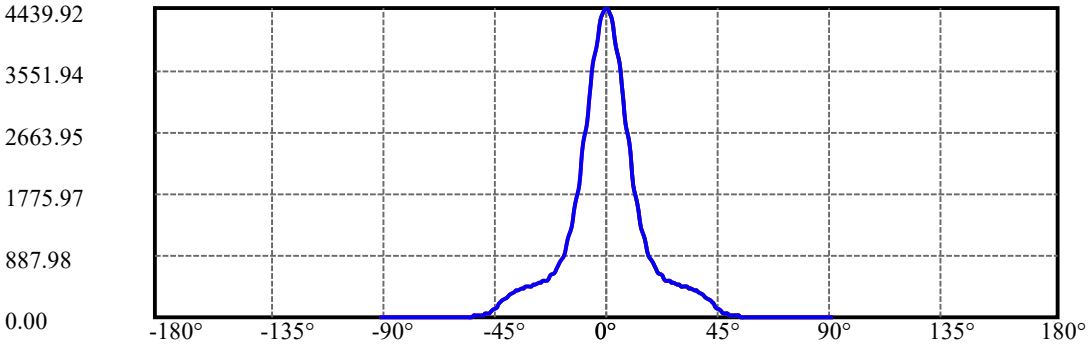
Lumens(lm): 1231.50, Efficiency(%): 95.85% , Luminous Efficacy(lm/W): 164.22
Central intensity(cd): 4439.920, Maximum intensity(cd): 4439.920
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=20.2
[C90/270]Total=20.2
Field angle(10%Imax): [C0/180]Total=61.4
[C90/270]Total=61.4
Maximum s/h(1/2): C0_180=0.34 C90_270=0.34
Maximum s/h(1/4): C0_180=0.36 C90_270=0.36
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 95.85%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.948%

| | | |
|---|---|---|
| Equipment: GMS1980 | Date: 2026/1/17 | Operator: YZQ |
| Temperature(°C): 25.0 | Humidity(%): 60.0% | Distance(m): 9.28 |

Light Distribution Curve [Unit:cd]






C0(Max):

C0/C180:

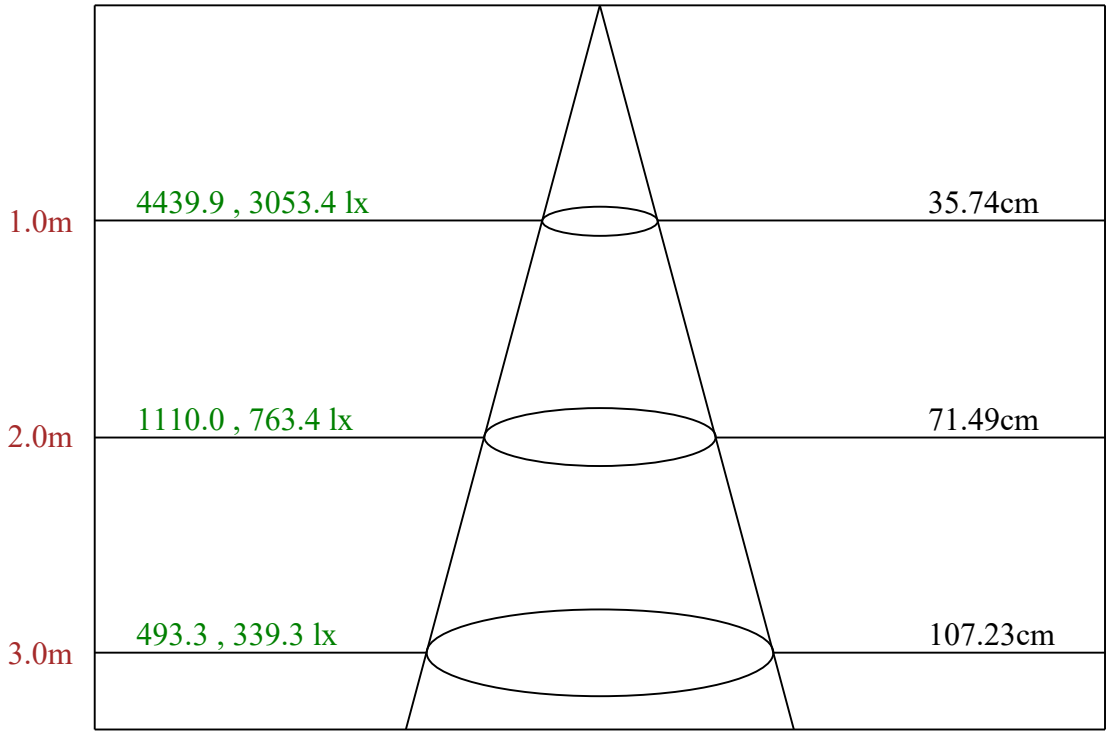
C90/C270:

Field angle(10%Imax):C0/180Left:30.7 Right:30.7
:C90/270Left:30.7 Right:30.7

Beam Angle(50%Imax):C0/180Left:10.1 Right:10.1
:C90/270Left:10.1 Right:10.1

Lux distance Curve



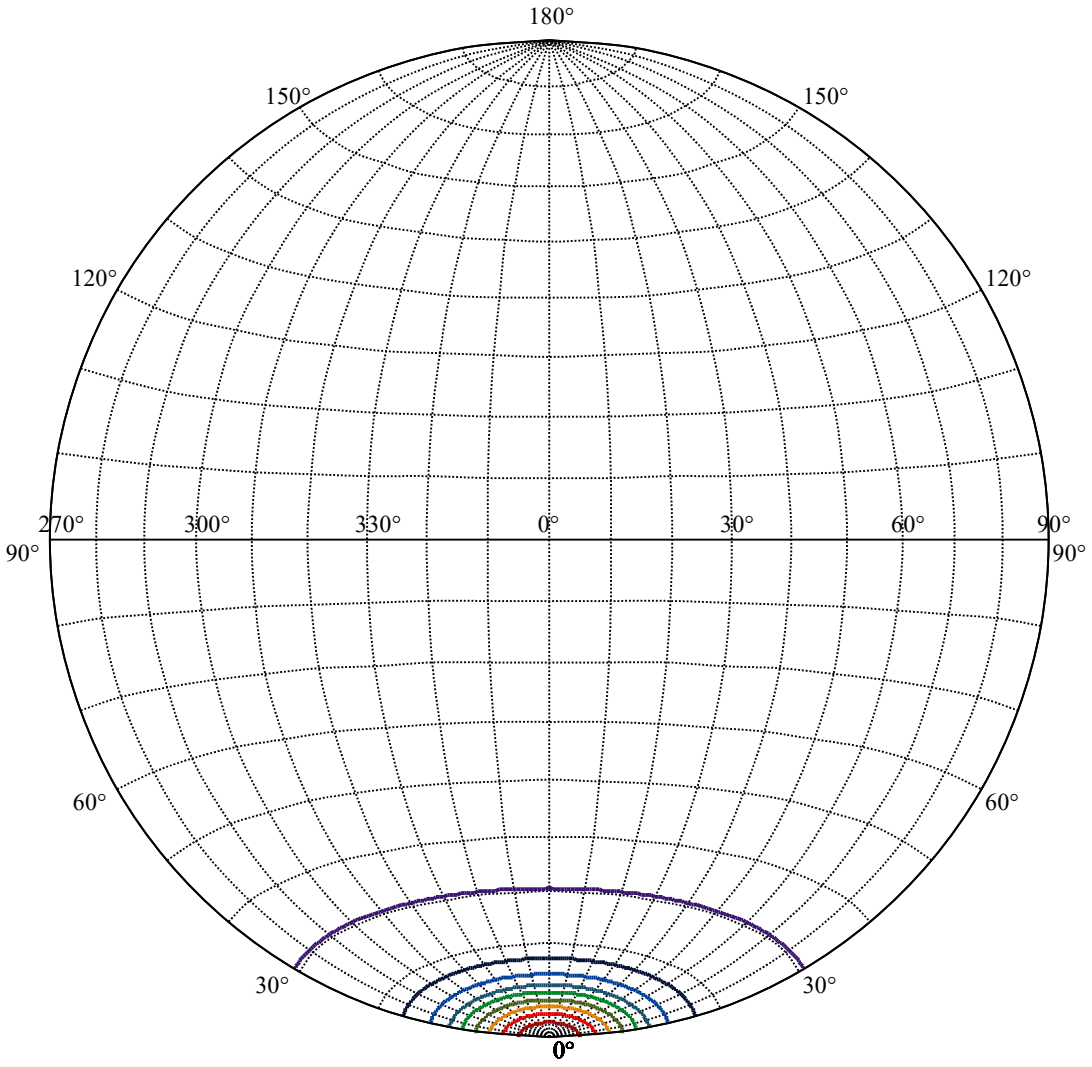



Max , Ave

Beam angle of C0 plane 20.27

ISO candela diagram on circular web






House [Unit:cd] Road

Imax:4439.92

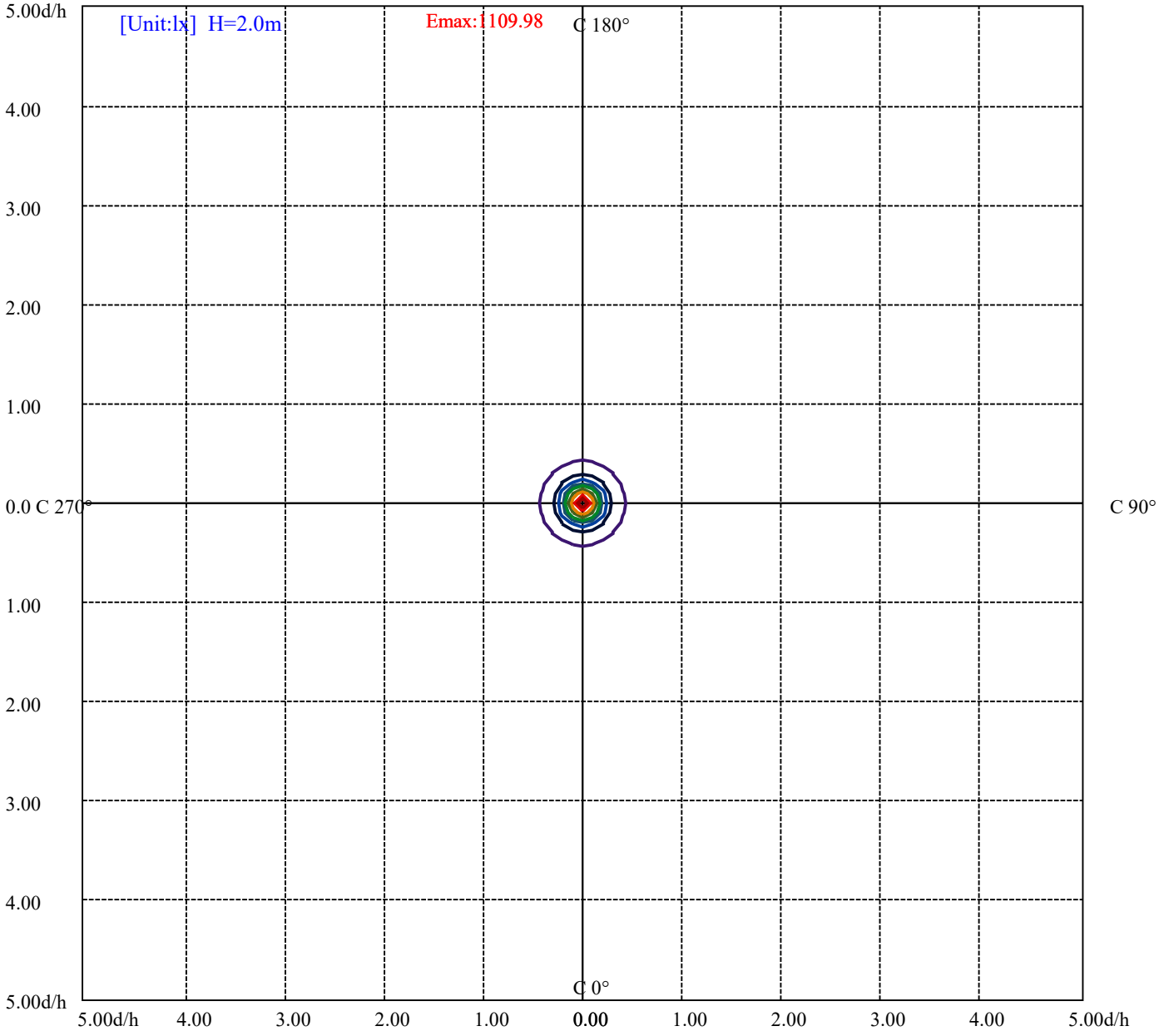
(10%Imax) 443.992
(20%Imax) 887.984
(30%Imax) 1331.98
(40%Imax) 1775.97
(50%Imax) 2219.96
(60%Imax) 2663.95
(70%Imax) 3107.94
(80%Imax) 3551.94
(90%Imax) 3995.93

Equipment: GMS1980 Date: 2026/1/17 Operator: YZQ
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 9.28

NT Nata 1-1723-LM

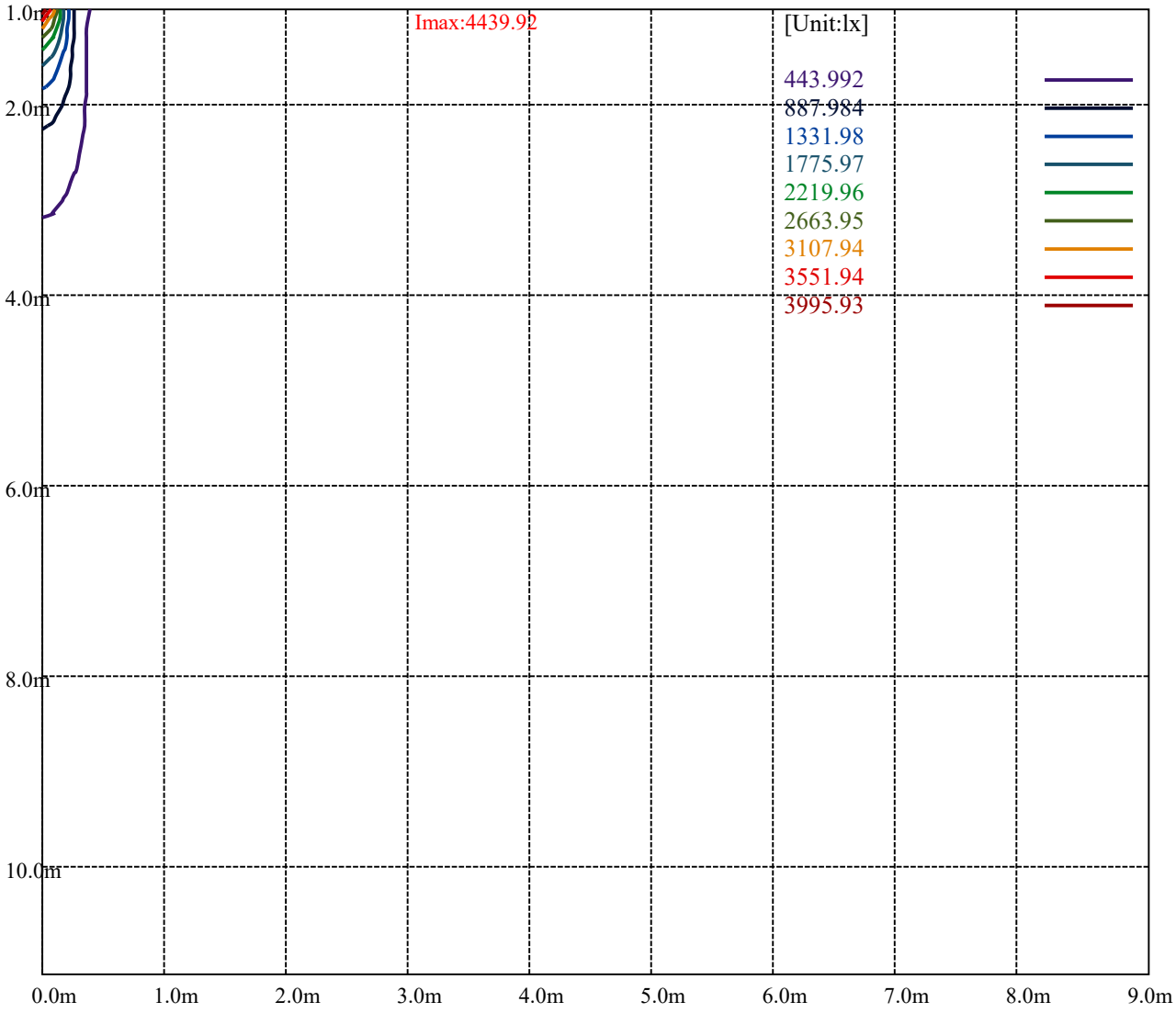
ISO illuminance diagram






(10%Emax) 110.9977
(20%Emax) 221.9957
(30%Emax) 332.9925
(40%Emax) 443.9925
(50%Emax) 554.99
(60%Emax) 665.9875
(70%Emax) 776.985
(80%Emax) 887.9825
(90%Emax) 998.98

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2026/1/17
Humidity(%): 60.0%
Operator: YZQ
Distance(m): 9.28


Imax:4439.92
[Unit:lx]
443.992
887.984
1331.98
1775.97
2219.96
2663.95
3107.94
3551.94
3995.93
1.0m
2.0m
4.0m
6.0m
8.0m
10.0m
0.0m
1.0m
2.0m
3.0m
4.0m
5.0m
6.0m
7.0m
8.0m
9.0m

NT Nata 1-1723-LM

## Luminance Limitting Curve(no luminous side)



Luminance Table

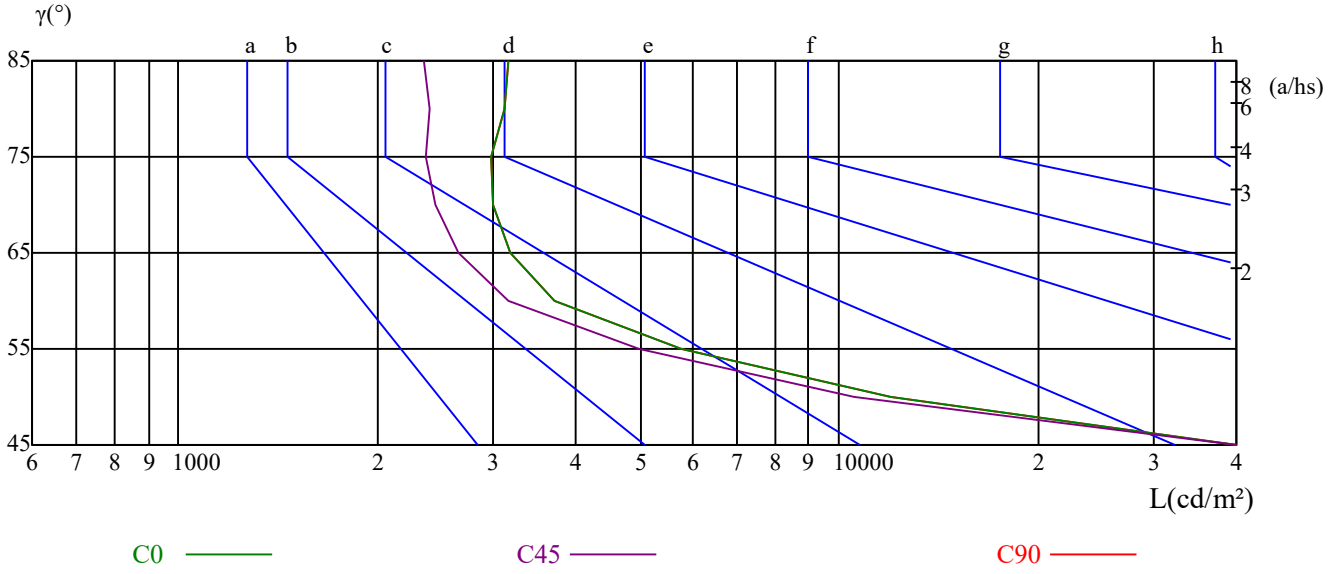
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|---|---|---|---|---|---|---|---|---|---|
| C0 | 55995 | 11983 | 5764 | 3709 | 3182 | 3001 | 2966 | 3111 | 3151 |
| C45 | 49863 | 10524 | 4987 | 3157 | 2659 | 2455 | 2367 | 2408 | 2346 |
| C90 | 55995 | 11983 | 5764 | 3709 | 3182 | 3001 | 2966 | 3111 | 3151 |

| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|---|---|---|---|---|---|---|---|---|
| 6063 | 6063 | 6063 | 7641 | 7641 | 7641 | 18359 | 18359 | 18359 |

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 Limitting Curve



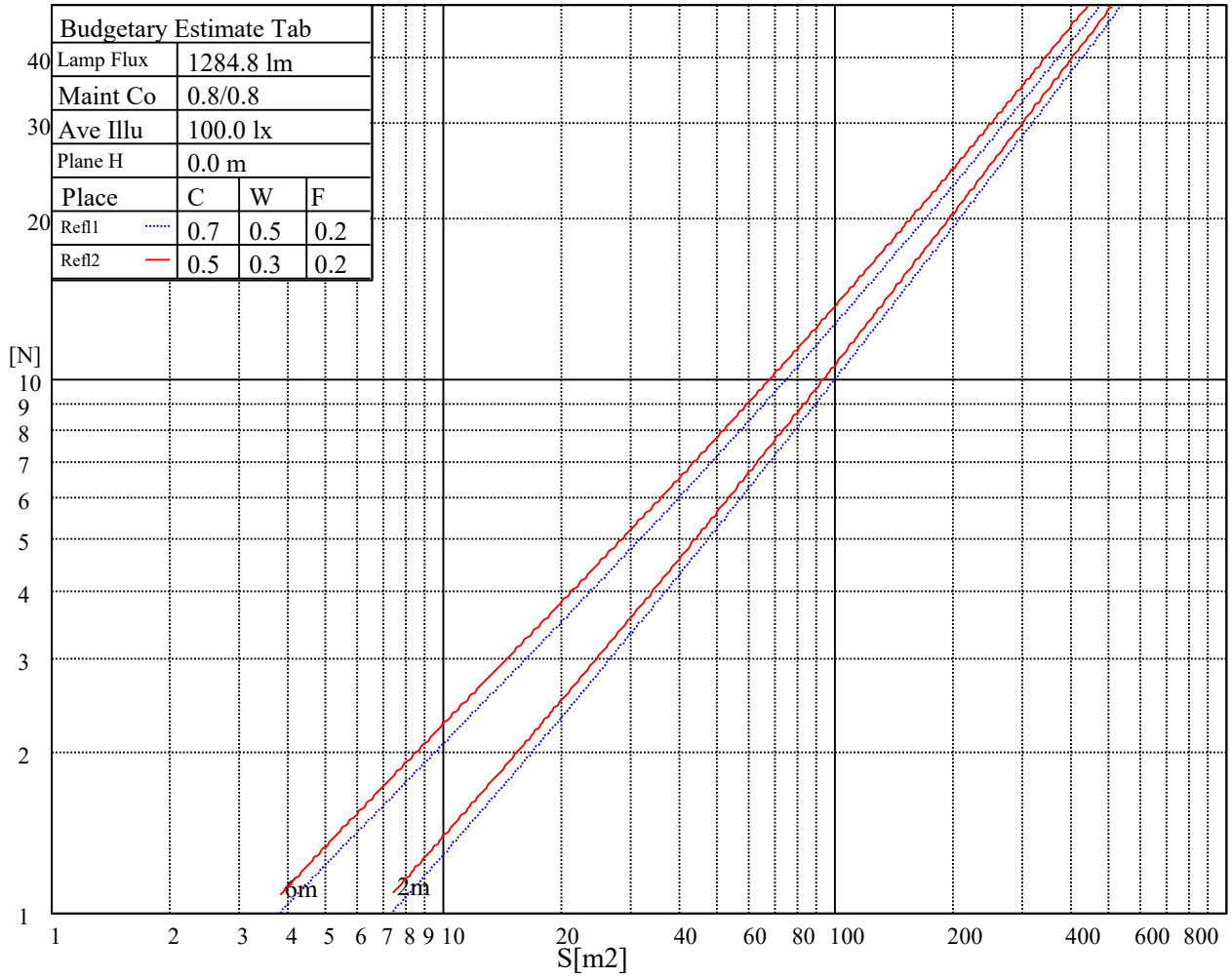
| Illumination assessment according UGR | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Rf of Ceiling | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Rf of Wall | | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Rf of Floor | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X | Y | | | | | | | | | | |
| 2H | 2H | 22.79 | 23.80 | 23.15 | 24.11 | 24.43 | 22.20 | 23.21 | 22.56 | 23.52 | 23.83 |
| | 3H | 22.60 | 23.50 | 22.99 | 23.84 | 24.18 | 22.01 | 22.91 | 22.40 | 23.25 | 23.59 |
| | 4H | 22.51 | 23.34 | 22.91 | 23.70 | 24.06 | 21.93 | 22.76 | 22.33 | 23.11 | 23.48 |
| | 6H | 22.44 | 23.20 | 22.86 | 23.58 | 23.98 | 21.87 | 22.62 | 22.28 | 23.00 | 23.40 |
| | 8H | 22.38 | 23.10 | 22.80 | 23.49 | 23.89 | 21.81 | 22.53 | 22.23 | 22.92 | 23.33 |
| | 12H | 22.32 | 23.01 | 22.75 | 23.40 | 23.82 | 21.76 | 22.44 | 22.18 | 22.84 | 23.25 |
| 4H | 2H | 22.49 | 23.32 | 22.89 | 23.68 | 24.04 | 21.90 | 22.73 | 22.30 | 23.08 | 23.45 |
| | 3H | 22.28 | 22.97 | 22.70 | 23.36 | 23.78 | 21.69 | 22.38 | 22.12 | 22.78 | 23.19 |
| | 4H | 22.22 | 22.81 | 22.66 | 23.24 | 23.69 | 21.64 | 22.24 | 22.08 | 22.66 | 23.11 |
| | 6H | 22.11 | 22.63 | 22.58 | 23.09 | 23.54 | 21.54 | 22.07 | 22.02 | 22.52 | 22.97 |
| | 8H | 22.07 | 22.56 | 22.55 | 23.01 | 23.49 | 21.52 | 22.00 | 22.00 | 22.46 | 22.93 |
| | 12H | 22.04 | 22.49 | 22.53 | 22.94 | 23.46 | 21.50 | 21.95 | 21.99 | 22.40 | 22.92 |
| 8H | 4H | 22.03 | 22.52 | 22.51 | 22.97 | 23.45 | 21.45 | 21.94 | 21.94 | 22.40 | 22.87 |
| | 6H | 21.92 | 22.32 | 22.42 | 22.79 | 23.31 | 21.36 | 21.76 | 21.86 | 22.24 | 22.75 |
| | 8H | 21.93 | 22.27 | 22.46 | 22.79 | 23.29 | 21.39 | 21.73 | 21.92 | 22.25 | 22.75 |
| | 12H | 21.92 | 22.18 | 22.46 | 22.70 | 23.22 | 21.39 | 21.65 | 21.93 | 22.17 | 22.69 |
| 12H | 4H | 21.98 | 22.43 | 22.47 | 22.88 | 23.40 | 21.40 | 21.85 | 21.89 | 22.31 | 22.83 |
| | 6H | 21.91 | 22.24 | 22.44 | 22.77 | 23.26 | 21.35 | 21.69 | 21.88 | 22.21 | 22.71 |
| | 8H | 21.89 | 22.15 | 22.43 | 22.67 | 23.19 | 21.35 | 21.61 | 21.89 | 22.13 | 22.65 |

| Variation with the observer position at spacings: | | |
|---|---|---|
| S = 1.0H | 3.4/-11.3 | 3.4/-11.3 |
| S = 1.5H | 5.6/-10.7 | 5.6/-10.7 |
| S = 2.0H | 7.6/-9.8 | 7.6/-9.8 |
| Standard tables: | BK0 | BK0 |
| Uncorrected UGR | 2.5 | 2.5 |

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

## Budgetary Estimate Table



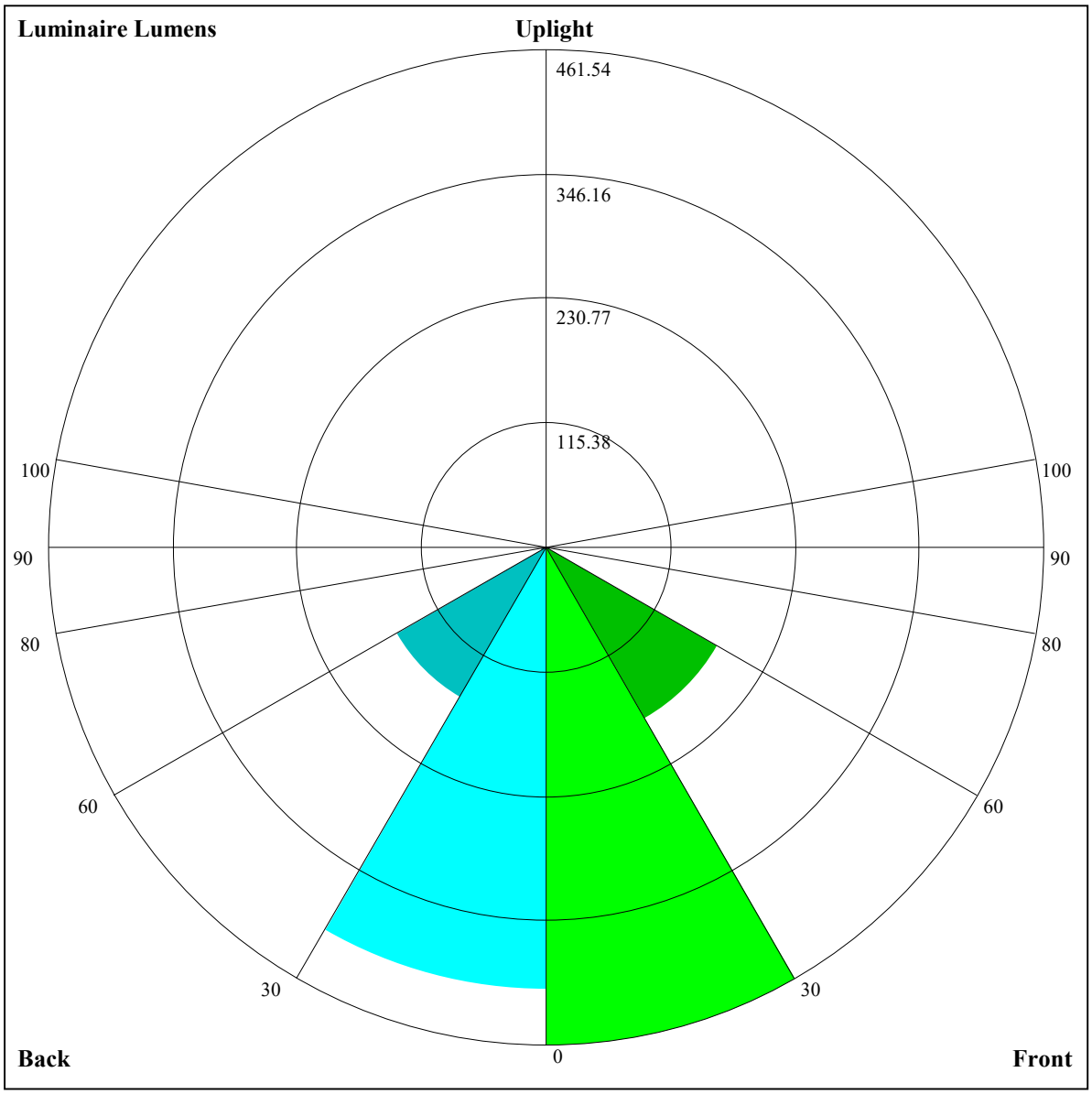



Equipment: GMS1980 Date: 2026/1/17 Operator: YZQ
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 9.28

## Utilization factor table for indoor luminaire



| 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 | COEFFCIENTS OF UTILIZATION RHOFC=20 CU | | | | | | | | | | | | | | | |
| 0 | 1.14 | 1.14 | 1.14 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 0.98 | 0.98 | 0.98 | 0.96 |
| 1 | 1.07 | 1.04 | 1.02 | 1.04 | 1.02 | 1.01 | 1.01 | 0.99 | 0.97 | 0.97 | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 | 0.90 |
| 2 | 1.00 | 0.96 | 0.93 | 0.98 | 0.95 | 0.92 | 0.95 | 0.92 | 0.90 | 0.92 | 0.90 | 0.88 | 0.90 | 0.88 | 0.86 | 0.85 |
| 3 | 0.94 | 0.89 | 0.86 | 0.92 | 0.88 | 0.85 | 0.90 | 0.86 | 0.84 | 0.88 | 0.85 | 0.82 | 0.85 | 0.83 | 0.81 | 0.80 |
| 4 | 0.88 | 0.83 | 0.80 | 0.87 | 0.83 | 0.79 | 0.85 | 0.81 | 0.78 | 0.83 | 0.80 | 0.77 | 0.81 | 0.79 | 0.76 | 0.75 |
| 5 | 0.83 | 0.78 | 0.74 | 0.82 | 0.78 | 0.74 | 0.81 | 0.77 | 0.73 | 0.79 | 0.76 | 0.73 | 0.78 | 0.75 | 0.72 | 0.71 |
| 6 | 0.79 | 0.74 | 0.70 | 0.78 | 0.73 | 0.70 | 0.77 | 0.72 | 0.69 | 0.76 | 0.72 | 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 | 0.72 | 0.66 | 0.63 | 0.71 | 0.66 | 0.63 | 0.70 | 0.66 | 0.62 | 0.69 | 0.65 | 0.62 | 0.68 | 0.65 | 0.62 | 0.61 |
| 9 | 0.68 | 0.63 | 0.60 | 0.68 | 0.63 | 0.60 | 0.67 | 0.63 | 0.59 | 0.66 | 0.62 | 0.59 | 0.65 | 0.62 | 0.59 | 0.58 |
| 10 | 0.65 | 0.60 | 0.57 | 0.65 | 0.60 | 0.57 | 0.64 | 0.60 | 0.57 | 0.64 | 0.60 | 0.57 | 0.63 | 0.59 | 0.56 | 0.55 |




Luminaire Lumens:
FL=461.54,FM=182.88,FH=4.72,FVH=1.77
BL=409.51,BM=160.05,BH=4.9,BVH=1.76
UL=0,UH=0

BUG Rating:B1-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 | 4417.96 | 4556.61 | 4595.36 | 4501.49 | 4330.12 | 4049.37 | 3812.55 | 3566.25 | 3254.50 |
| 45.0 | 4262.95 | 4406.76 | 4505.80 | 4480.83 | 4358.54 | 4131.19 | 3915.03 | 3606.72 | 3367.32 |
| 90.0 | 4473.08 | 4398.15 | 4256.92 | 4026.12 | 3808.24 | 3570.55 | 3276.03 | 3034.90 | 2778.27 |
| 135.0 | 4605.70 | 4539.39 | 4394.71 | 4149.27 | 3928.81 | 3696.29 | 3454.30 | 3145.99 | 2885.91 |
| 180.0 | 4417.96 | 4221.61 | 3936.56 | 3708.34 | 3480.99 | 3242.44 | 2929.83 | 2670.62 | 2404.51 |
| 225.0 | 4262.95 | 4070.04 | 3852.16 | 3562.80 | 3320.81 | 3070.21 | 2808.41 | 2481.16 | 2006.64 |
| 270.0 | 4473.08 | 4454.13 | 4346.48 | 4123.44 | 3902.97 | 3659.26 | 3412.96 | 3105.52 | 2848.88 |
| 315.0 | 4605.70 | 4574.70 | 4407.63 | 4204.39 | 3964.12 | 3703.18 | 3373.34 | 3111.54 | 2776.54 |
| 360.0 | 4417.96 | 4556.61 | 4595.36 | 4501.49 | 4330.12 | 4049.37 | 3812.55 | 3566.25 | 3254.50 |

| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 2998.73 | 2736.07 | 2396.76 | 1670.61 | 1670.61 | 1612.91 | 1347.93 | 1173.28 | 1032.13 |
| 45.0 | 3127.91 | 2880.75 | 2550.05 | 2281.36 | 2014.40 | 1761.21 | 1479.60 | 1287.56 | 1127.38 |
| 90.0 | 2513.88 | 1975.64 | 1669.23 | 1669.23 | 1451.61 | 1225.12 | 1083.20 | 971.07 | 876.86 |
| 135.0 | 2554.36 | 2280.50 | 2006.64 | 1700.06 | 1484.77 | 1294.45 | 1132.54 | 980.11 | 887.97 |
| 180.0 | 2069.51 | 1812.88 | 1584.66 | 1326.31 | 1155.80 | 1020.59 | 897.44 | 820.79 | 756.21 |
| 225.0 | 1704.11 | 1704.11 | 1440.07 | 1254.06 | 1098.35 | 948.77 | 859.98 | 774.03 | 714.44 |
| 270.0 | 2592.25 | 2333.03 | 2008.37 | 1760.35 | 1536.44 | 1290.14 | 1129.10 | 999.06 | 875.91 |
| 315.0 | 2506.13 | 2237.44 | 1671.73 | 1671.73 | 1454.97 | 1222.02 | 1069.59 | 951.61 | 858.69 |
| 360.0 | 2998.73 | 2736.07 | 2396.76 | 1670.61 | 1670.61 | 1612.91 | 1347.93 | 1173.28 | 1032.13 |

| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 928.96 | 830.70 | 764.82 | 708.15 | 651.74 | 615.66 | 583.97 | 553.40 | 533.85 |
| 45.0 | 1000.78 | 881.08 | 804.43 | 724.34 | 671.81 | 631.33 | 588.27 | 561.58 | 538.33 |
| 90.0 | 781.09 | 719.17 | 657.17 | 615.66 | 579.75 | 540.48 | 518.00 | 498.97 | 483.99 |
| 135.0 | 810.46 | 743.29 | 676.12 | 633.92 | 600.33 | 563.30 | 539.19 | 520.24 | 503.02 |
| 180.0 | 700.23 | 644.25 | 608.94 | 580.52 | 557.27 | 530.58 | 514.21 | 501.30 | 487.52 |
| 225.0 | 662.25 | 610.75 | 576.73 | 548.40 | 525.67 | 505.00 | 491.82 | 479.94 | 468.57 |
| 270.0 | 801.85 | 739.84 | 671.81 | 627.03 | 589.14 | 557.27 | 523.69 | 503.02 | 486.66 |
| 315.0 | 765.25 | 705.48 | 655.53 | 615.75 | 581.90 | 547.45 | 525.41 | 505.00 | 491.31 |
| 360.0 | 928.96 | 830.70 | 764.82 | 708.15 | 651.74 | 615.66 | 583.97 | 553.40 | 533.85 |

| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 516.45 | 498.63 | 486.22 | 474.51 | 464.69 | 453.76 | 444.80 | 434.21 | 421.98 |
| 45.0 | 520.24 | 501.30 | 487.52 | 476.32 | 465.99 | 456.51 | 448.76 | 441.87 | 434.12 |
| 90.0 | 467.02 | 454.45 | 443.85 | 433.86 | 423.44 | 416.04 | 406.74 | 394.68 | 385.55 |
| 135.0 | 491.82 | 476.32 | 466.85 | 458.24 | 451.35 | 441.01 | 435.85 | 435.85 | 411.13 |
| 180.0 | 477.18 | 467.71 | 455.65 | 445.32 | 434.12 | 434.12 | 408.55 | 395.63 | 377.54 |
| 225.0 | 456.34 | 448.59 | 437.83 | 427.41 | 417.33 | 407.00 | 396.58 | 381.16 | 360.75 |
| 270.0 | 472.01 | 456.51 | 444.46 | 434.12 | 434.12 | 407.34 | 393.82 | 384.35 | 374.10 |
| 315.0 | 478.30 | 464.52 | 454.96 | 446.44 | 437.40 | 429.21 | 421.03 | 412.94 | 400.71 |
| 360.0 | 516.45 | 498.63 | 486.22 | 474.51 | 464.69 | 453.76 | 444.80 | 434.21 | 421.98 |

| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 408.80 | 399.16 | 384.26 | 356.62 | 331.73 | 296.85 | 267.14 | 234.93 | 201.69 |
| 45.0 | 434.12 | 421.38 | 400.45 | 383.05 | 361.96 | 329.14 | 298.83 | 269.64 | 230.02 |
| 90.0 | 374.87 | 353.95 | 335.35 | 304.34 | 277.82 | 246.82 | 213.92 | 173.01 | 140.37 |
| 135.0 | 399.93 | 379.61 | 358.08 | 331.81 | 295.64 | 266.11 | 227.44 | 194.20 | 162.16 |
| 180.0 | 349.81 | 325.18 | 298.06 | 270.15 | 230.11 | 198.76 | 166.90 | 126.94 | 100.07 |
| 225.0 | 329.49 | 301.59 | 272.65 | 243.28 | 204.96 | 174.73 | 145.37 | 108.08 | 80.52 |
| 270.0 | 360.15 | 336.90 | 314.76 | 288.84 | 260.77 | 221.41 | 190.58 | 159.32 | 129.09 |
| 315.0 | 386.67 | 366.35 | 341.80 | 306.58 | 276.96 | 246.21 | 205.74 | 172.41 | 132.45 |
| 360.0 | 408.80 | 399.16 | 384.26 | 356.62 | 331.73 | 296.85 | 267.14 | 234.93 | 201.69 |

Intensity data(cd)



| C/γ(°) | 45.0 | 46.0 | 47.0 | 48.0 | 49.0 | 50.0 | 51.0 | 52.0 | 53.0 |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 163.62 | 130.73 | 104.20 | 77.33 | 49.95 | 33.16 | 23.94 | 20.67 | 18.52 |
| 45.0 | 196.01 | 162.25 | 129.01 | 88.87 | 62.18 | 40.39 | 26.70 | 18.43 | 16.28 |
| 90.0 | 109.54 | 81.47 | 58.30 | 37.20 | 25.58 | 19.12 | 16.36 | 14.30 | 12.06 |
| 135.0 | 122.55 | 92.06 | 65.45 | 43.06 | 26.44 | 19.81 | 17.91 | 16.36 | 14.73 |
| 180.0 | 68.81 | 48.23 | 33.33 | 23.34 | 21.19 | 18.86 | 16.36 | 13.43 | 11.45 |
| 225.0 | 56.15 | 34.45 | 24.54 | 20.24 | 18.43 | 17.05 | 16.02 | 14.73 | 13.52 |
| 270.0 | 93.09 | 70.19 | 46.93 | 32.98 | 24.63 | 20.93 | 19.12 | 17.14 | 14.73 |
| 315.0 | 102.48 | 74.84 | 51.33 | 30.57 | 21.44 | 18.26 | 16.10 | 13.61 | 11.80 |
| 360.0 | 163.62 | 130.73 | 104.20 | 77.33 | 49.95 | 33.16 | 23.94 | 20.67 | 18.52 |

| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 16.36 | 13.87 | 12.06 | 10.59 | 8.96 | 8.10 | 7.23 | 6.11 | 5.43 |
| 45.0 | 14.12 | 11.54 | 9.99 | 8.35 | 7.32 | 6.54 | 6.11 | 5.60 | 5.25 |
| 90.0 | 10.42 | 8.96 | 7.49 | 6.72 | 6.46 | 6.11 | 5.77 | 5.60 | 5.43 |
| 135.0 | 13.43 | 12.06 | 10.59 | 9.47 | 8.61 | 7.75 | 7.15 | 6.80 | 6.37 |
| 180.0 | 9.90 | 8.70 | 7.66 | 7.15 | 6.63 | 6.03 | 5.77 | 5.51 | 5.25 |
| 225.0 | 12.06 | 10.59 | 9.73 | 8.61 | 8.01 | 7.58 | 7.06 | 6.72 | 6.46 |
| 270.0 | 12.92 | 11.37 | 9.99 | 8.87 | 8.18 | 7.66 | 7.23 | 6.80 | 6.46 |
| 315.0 | 10.25 | 8.78 | 7.75 | 7.15 | 6.54 | 6.11 | 5.68 | 5.43 | 5.25 |
| 360.0 | 16.36 | 13.87 | 12.06 | 10.59 | 8.96 | 8.10 | 7.23 | 6.11 | 5.43 |

| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 4.99 | 4.82 | 4.74 | 4.65 | 4.56 | 4.48 | 4.39 | 4.31 | 4.13 |
| 45.0 | 4.99 | 4.82 | 4.65 | 4.56 | 4.48 | 4.39 | 4.39 | 4.39 | 4.22 |
| 90.0 | 5.34 | 5.25 | 5.25 | 5.17 | 5.08 | 4.99 | 4.99 | 4.82 | 4.65 |
| 135.0 | 6.20 | 5.94 | 5.77 | 5.60 | 5.43 | 5.17 | 4.91 | 4.74 | 4.48 |
| 180.0 | 5.08 | 4.91 | 4.74 | 4.48 | 4.39 | 4.31 | 4.22 | 4.13 | 4.05 |
| 225.0 | 6.20 | 6.03 | 5.68 | 5.43 | 5.17 | 4.99 | 4.65 | 4.39 | 4.31 |
| 270.0 | 6.20 | 6.03 | 5.77 | 5.60 | 5.43 | 5.25 | 4.99 | 4.82 | 4.56 |
| 315.0 | 5.08 | 4.91 | 4.91 | 4.82 | 4.74 | 4.65 | 4.48 | 4.31 | 4.13 |
| 360.0 | 4.99 | 4.82 | 4.74 | 4.65 | 4.56 | 4.48 | 4.39 | 4.31 | 4.13 |

| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 3.96 | 3.88 | 3.79 | 3.70 | 3.70 | 3.70 | 3.62 | 3.53 | 3.53 |
| 45.0 | 4.22 | 4.13 | 4.05 | 3.96 | 3.96 | 3.88 | 3.88 | 3.79 | 3.79 |
| 90.0 | 4.56 | 4.39 | 4.31 | 4.31 | 4.22 | 4.13 | 4.05 | 4.05 | 3.96 |
| 135.0 | 4.22 | 4.05 | 3.96 | 3.96 | 3.88 | 3.79 | 3.70 | 3.62 | 3.53 |
| 180.0 | 3.96 | 3.96 | 3.88 | 3.79 | 3.70 | 3.70 | 3.70 | 3.70 | 3.62 |
| 225.0 | 4.31 | 4.31 | 4.22 | 4.13 | 3.96 | 3.88 | 3.79 | 3.70 | 3.70 |
| 270.0 | 4.48 | 4.48 | 4.48 | 4.39 | 4.31 | 4.31 | 4.22 | 4.22 | 4.13 |
| 315.0 | 3.96 | 3.88 | 3.79 | 3.79 | 3.70 | 3.62 | 3.62 | 3.53 | 3.44 |
| 360.0 | 3.96 | 3.88 | 3.79 | 3.70 | 3.70 | 3.70 | 3.62 | 3.53 | 3.53 |

| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 3.44 | 3.36 | 3.36 | 3.27 | 3.19 | 3.10 | 3.10 | 3.01 | 2.93 |
| 45.0 | 3.70 | 3.62 | 3.53 | 3.44 | 3.36 | 3.01 | 2.93 | 2.84 | 2.76 |
| 90.0 | 3.88 | 3.79 | 3.70 | 3.53 | 3.36 | 3.10 | 2.93 | 2.76 | 2.67 |
| 135.0 | 3.44 | 3.36 | 3.36 | 3.27 | 3.27 | 3.27 | 3.01 | 2.76 | 2.58 |
| 180.0 | 3.62 | 3.53 | 3.53 | 3.44 | 3.36 | 3.10 | 2.84 | 2.76 | 2.58 |
| 225.0 | 3.62 | 3.62 | 3.62 | 3.36 | 2.93 | 2.84 | 2.67 | 2.58 | 2.58 |
| 270.0 | 4.13 | 4.05 | 3.88 | 3.70 | 3.53 | 3.10 | 2.93 | 2.76 | 2.58 |
| 315.0 | 3.36 | 3.36 | 3.19 | 3.01 | 2.93 | 2.84 | 2.76 | 2.67 | 2.58 |
| 360.0 | 3.44 | 3.36 | 3.36 | 3.27 | 3.19 | 3.10 | 3.10 | 3.01 | 2.93 |

## Intensity data(cd)

| C/γ(°) | 90.0 |
|---|---|
| 0.0 | 2.93 |
| 45.0 | 2.76 |
| 90.0 | 2.84 |
| 135.0 | 2.50 |
| 180.0 | 2.67 |
| 225.0 | 2.50 |
| 270.0 | 2.50 |
| 315.0 | 2.50 |
| 360.0 | 2.93 |