NATA LIGHTING CO.,LTD
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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: 3-2383-LM4
Luminaire: 92.70.121.00 LED HOLDER
Report No: 20251110-B015
Ballast type: DC

| | |
|---|---|
| Test No: 20251110-C015 | Voltage(V): 36.570 |
| LampCAT: CITIZEN CLU038 LES14.5 | Current(A): 0.709 |
| Lamp flux(lm): 3662.0 | Power (W): 25.920 |
| Number of Lamps: 1 | PF: 0.000 |
| Length(mm): 85 | Width(mm): 85 |
| Phm Type: C | Height(mm): 51 |

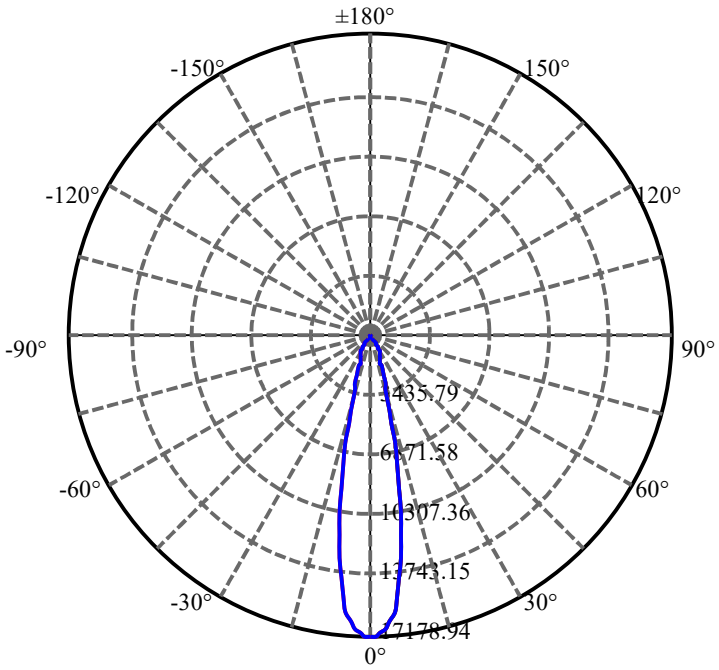
## Photometric Results

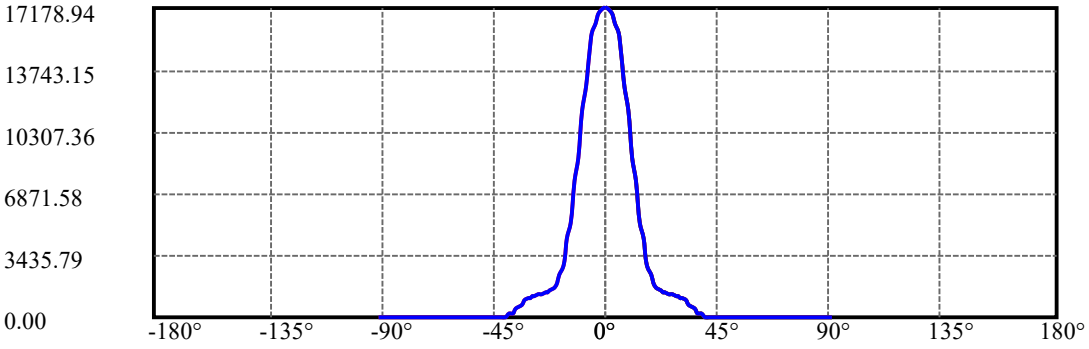
Lumens(lm): 3551.14, Efficiency(%): 96.97% , Luminous Efficacy(lm/W): 137.00
Central intensity(cd): 17178.940, Maximum intensity(cd): 17178.940
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=22.4
[C90/270]Total=22.4
Field angle(10%Imax): [C0/180]Total=39.8
[C90/270]Total=39.8
Maximum s/h(1/2): C0_180=0.38 C90_270=0.38
Maximum s/h(1/4): C0_180=0.37 C90_270=0.37
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 96.97%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.324%

| | | |
|---|---|---|
| Equipment: GMS1980 | Date: 2025/11/10 | Operator: YZQ |
| Temperature(°C): 25.0 | Humidity(%): 60.0% | Distance(m): 9.28 |

Light Distribution Curve [Unit:cd]






C0(Max):

C0/C180:

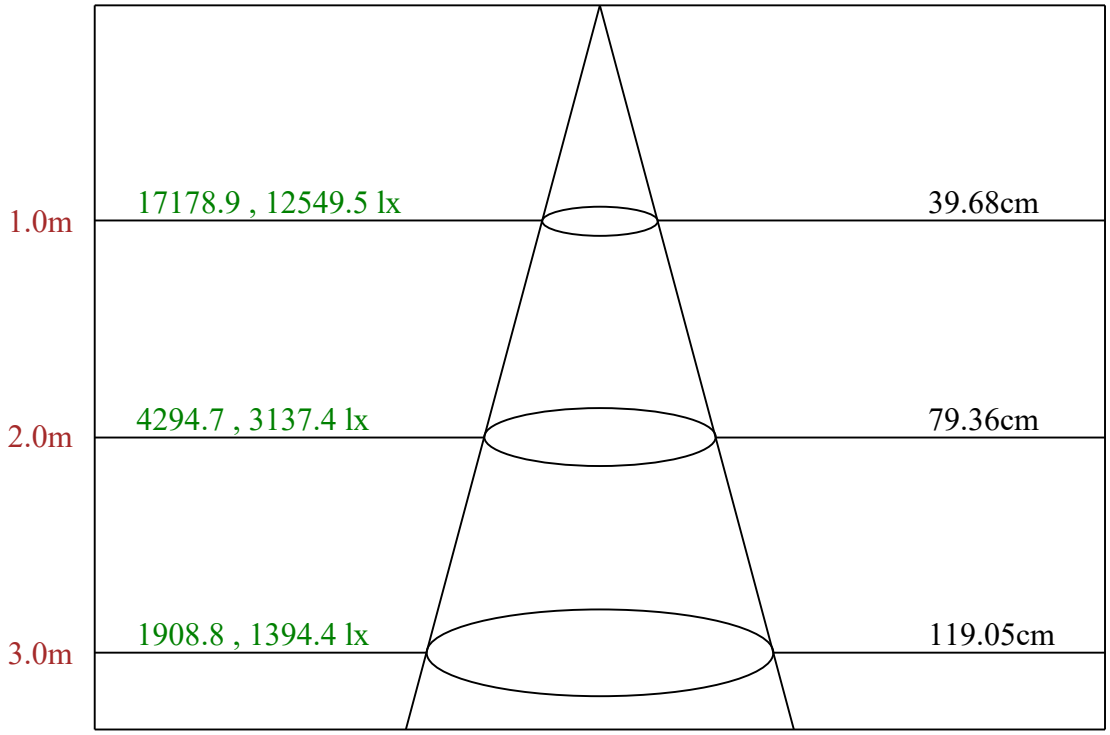
C90/C270:

Field angle(10%Imax):C0/180Left:19.9 Right:19.9
:C90/270Left:19.9 Right:19.9

Beam Angle(50%Imax):C0/180Left:11.2 Right:11.2
:C90/270Left:11.2 Right:11.2

Lux distance Curve



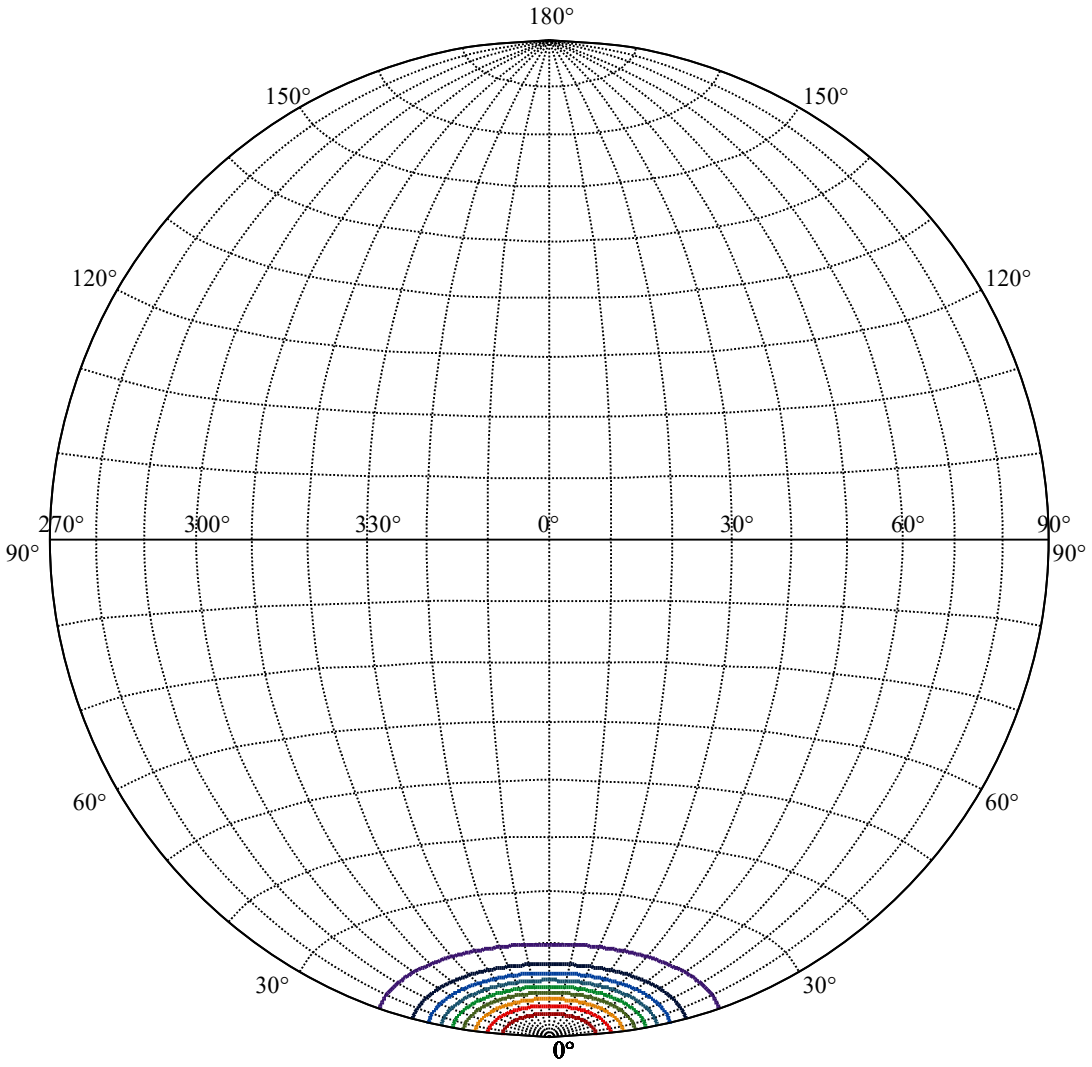



Max , Ave

Beam angle of C0 plane 22.44

ISO candela diagram on circular web






House [Unit:cd] Road

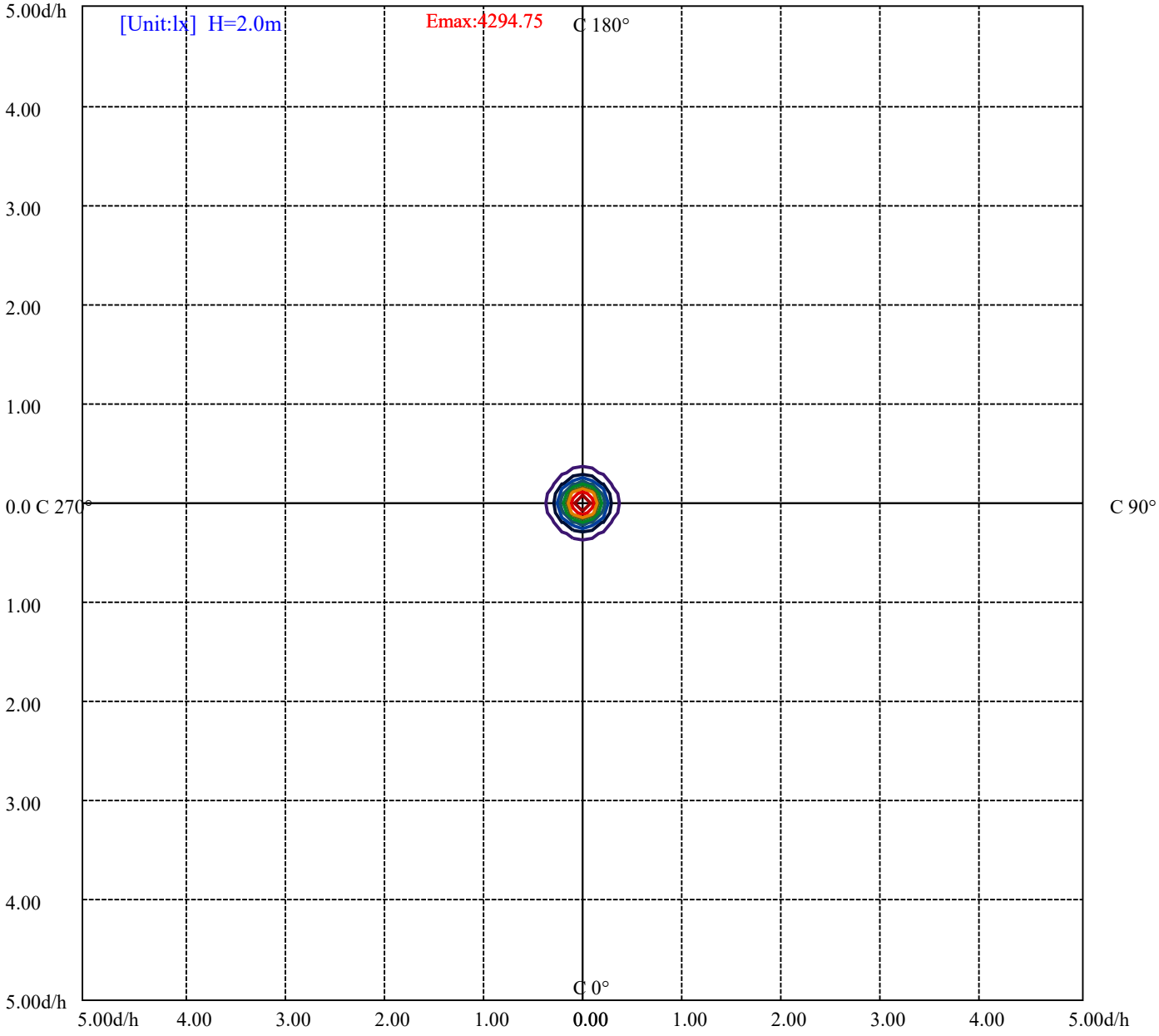
Imax:17178.94

(10%Imax) 1717.89
(20%Imax) 3435.79
(30%Imax) 5153.68
(40%Imax) 6871.58
(50%Imax) 8589.47
(60%Imax) 10307.4
(70%Imax) 12025.3
(80%Imax) 13743.2
(90%Imax) 15461

NT Nata 3-2383-LM4

ISO illuminance diagram



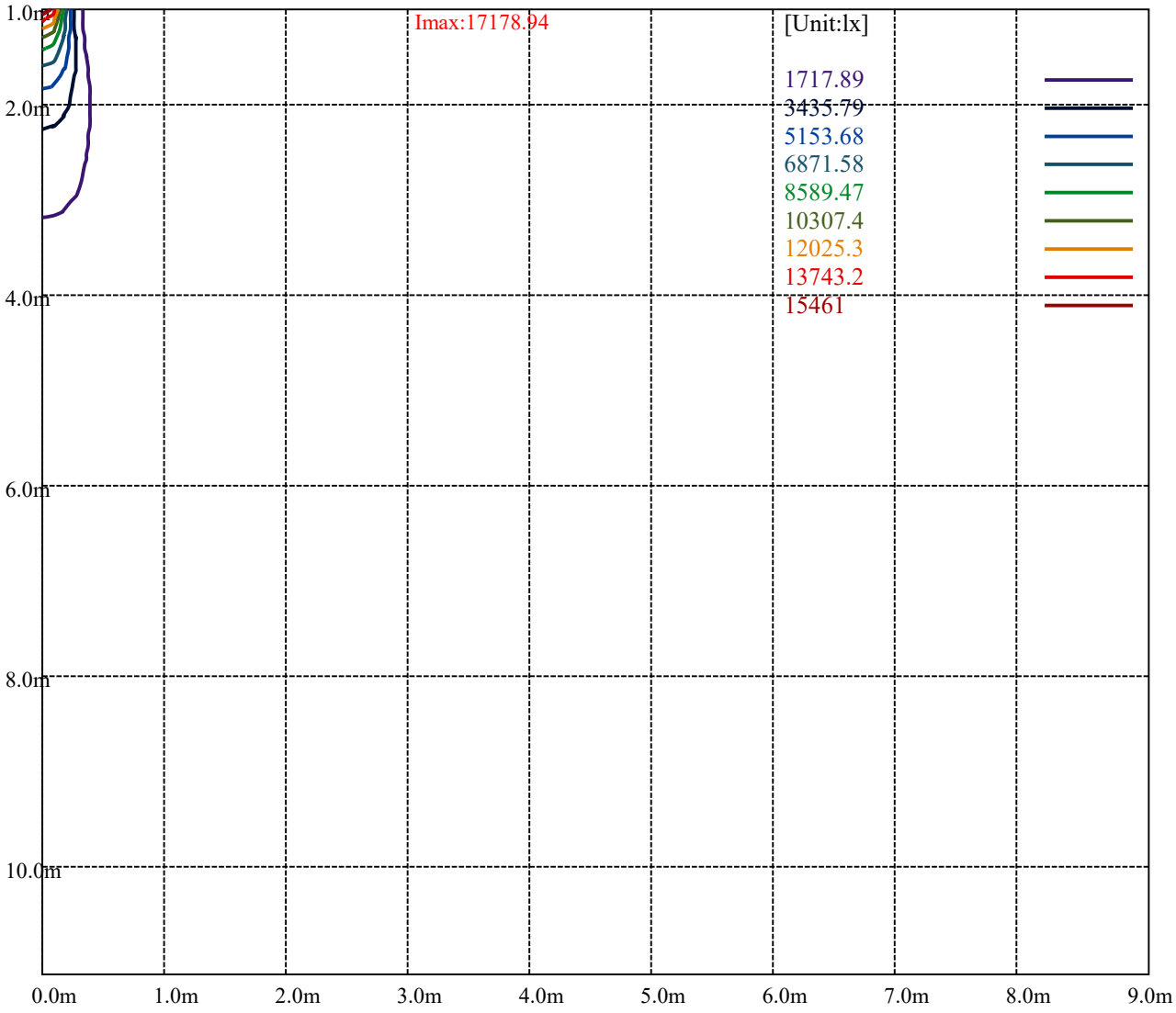



(10%Emax) 429.4725
(20%Emax) 858.9475
(30%Emax) 1288.42
(40%Emax) 1717.892
(50%Emax) 2147.367
(60%Emax) 2576.85
(70%Emax) 3006.325
(80%Emax) 3435.775
(90%Emax) 3865.25

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2025/11/10
Humidity(%): 60.0%
Operator: YZQ
Distance(m): 9.28

## Space ISO Lux diagram






Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/11/10
Humidity(%): 60.0%

Operator: YZQ
Distance(m): 9.28

NT Nata 3-2383-LM4

## Luminance Limitting Curve(no luminous side)



Luminance Table

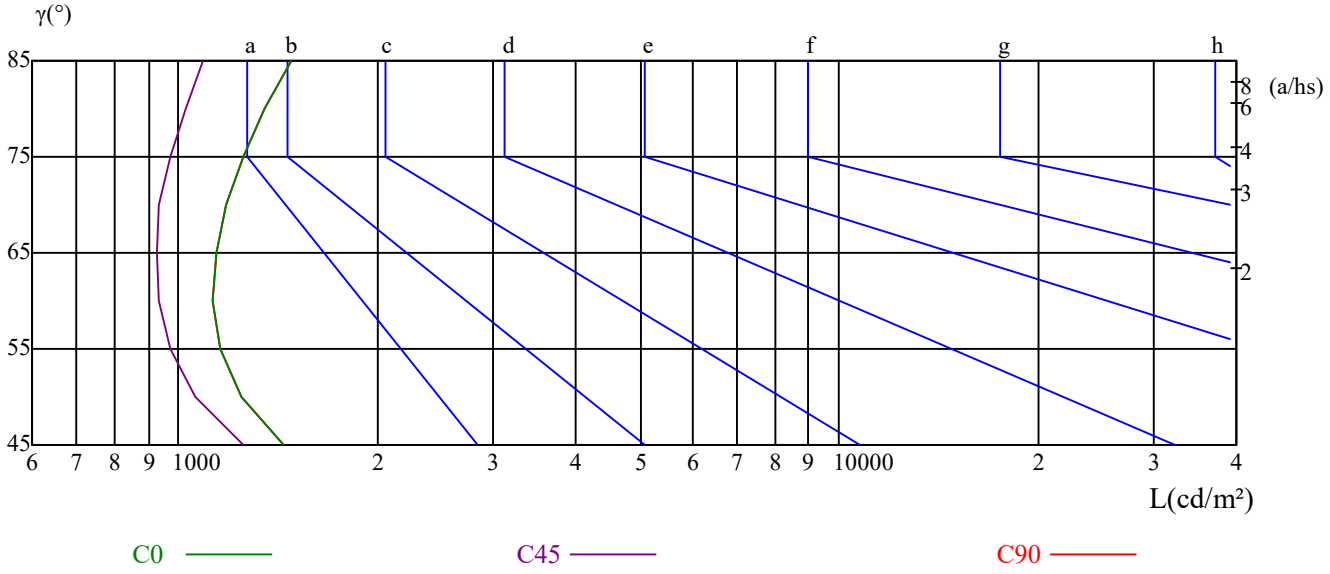
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|---|---|---|---|---|---|---|---|---|---|
| C0 | 1447 | 1243 | 1154 | 1128 | 1141 | 1178 | 1249 | 1352 | 1486 |
| C45 | 1253 | 1060 | 969 | 931 | 925 | 936 | 971 | 1025 | 1091 |
| C90 | 1447 | 1243 | 1154 | 1128 | 1141 | 1178 | 1249 | 1352 | 1486 |

| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|---|---|---|---|---|---|---|---|---|
| 2609 | 2609 | 2609 | 4047 | 4047 | 4047 | 11676 | 11676 | 11676 |

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




Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/11/10
Humidity(%): 60.0%

Operator: YZQ
Distance(m): 9.28

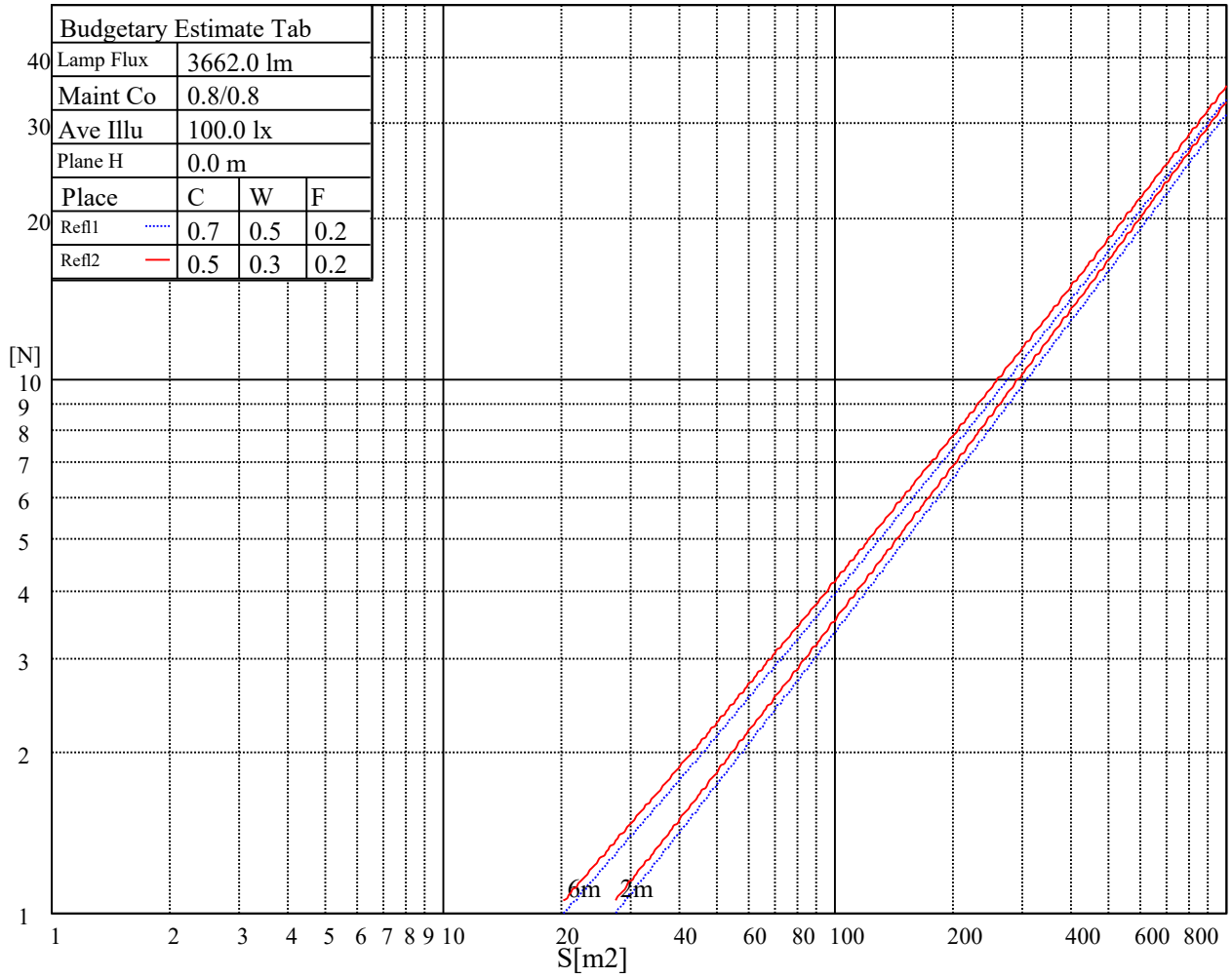
| Illumination assessment according UGR | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Rf of Ceiling | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Rf of Wall | | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Rf of Floor | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X | Y | | | | | | | | | | |
| 2H | 2H | 15.68 | 16.58 | 16.04 | 16.89 | 17.20 | 15.25 | 16.15 | 15.61 | 16.46 | 16.77 |
| | 3H | 15.49 | 16.28 | 15.88 | 16.62 | 16.97 | 15.06 | 15.85 | 15.45 | 16.19 | 16.54 |
| | 4H | 15.40 | 16.14 | 15.81 | 16.49 | 16.86 | 14.98 | 15.71 | 15.38 | 16.07 | 16.44 |
| | 6H | 15.36 | 16.03 | 15.78 | 16.40 | 16.80 | 14.93 | 15.60 | 15.35 | 15.98 | 16.38 |
| | 8H | 15.31 | 15.95 | 15.73 | 16.34 | 16.75 | 14.89 | 15.53 | 15.31 | 15.92 | 16.33 |
| | 12H | 15.28 | 15.88 | 15.71 | 16.28 | 16.70 | 14.86 | 15.47 | 15.29 | 15.86 | 16.28 |
| 4H | 2H | 15.35 | 16.09 | 15.75 | 16.44 | 16.81 | 14.92 | 15.66 | 15.33 | 16.01 | 16.38 |
| | 3H | 15.13 | 15.75 | 15.56 | 16.15 | 16.57 | 14.71 | 15.33 | 15.14 | 15.72 | 16.14 |
| | 4H | 15.10 | 15.63 | 15.54 | 16.05 | 16.50 | 14.67 | 15.21 | 15.11 | 15.63 | 16.08 |
| | 6H | 15.03 | 15.50 | 15.50 | 15.95 | 16.40 | 14.61 | 15.08 | 15.09 | 15.54 | 15.99 |
| | 8H | 15.02 | 15.46 | 15.51 | 15.92 | 16.39 | 14.62 | 15.05 | 15.10 | 15.51 | 15.99 |
| | 12H | 15.05 | 15.45 | 15.54 | 15.90 | 16.42 | 14.65 | 15.04 | 15.14 | 15.50 | 16.02 |
| 8H | 4H | 14.91 | 15.34 | 15.40 | 15.80 | 16.28 | 14.49 | 14.93 | 14.98 | 15.39 | 15.86 |
| | 6H | 14.86 | 15.22 | 15.37 | 15.70 | 16.21 | 14.46 | 14.81 | 14.96 | 15.29 | 15.80 |
| | 8H | 14.94 | 15.23 | 15.47 | 15.75 | 16.25 | 14.54 | 14.83 | 15.08 | 15.36 | 15.85 |
| | 12H | 15.01 | 15.23 | 15.55 | 15.74 | 16.27 | 14.62 | 14.84 | 15.17 | 15.36 | 15.88 |
| 12H | 4H | 14.86 | 15.26 | 15.35 | 15.71 | 16.24 | 14.45 | 14.84 | 14.94 | 15.30 | 15.82 |
| | 6H | 14.86 | 15.16 | 15.40 | 15.68 | 16.18 | 14.46 | 14.75 | 15.00 | 15.28 | 15.77 |
| | 8H | 14.92 | 15.13 | 15.46 | 15.65 | 16.18 | 14.52 | 14.74 | 15.07 | 15.26 | 15.78 |

| Variation with the observer position at spacings: | | |
|---|---|---|
| S = 1.0H | 6.3/-10.7 | 6.3/-10.7 |
| S = 1.5H | 8.9/-8.8 | 8.9/-8.8 |
| S = 2.0H | 10.8/-7.3 | 10.8/-7.3 |
| Standard tables: | BK1 | BK1 |
| Uncorrected UGR | -4.5 | -4.5 |

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

## Budgetary Estimate Table



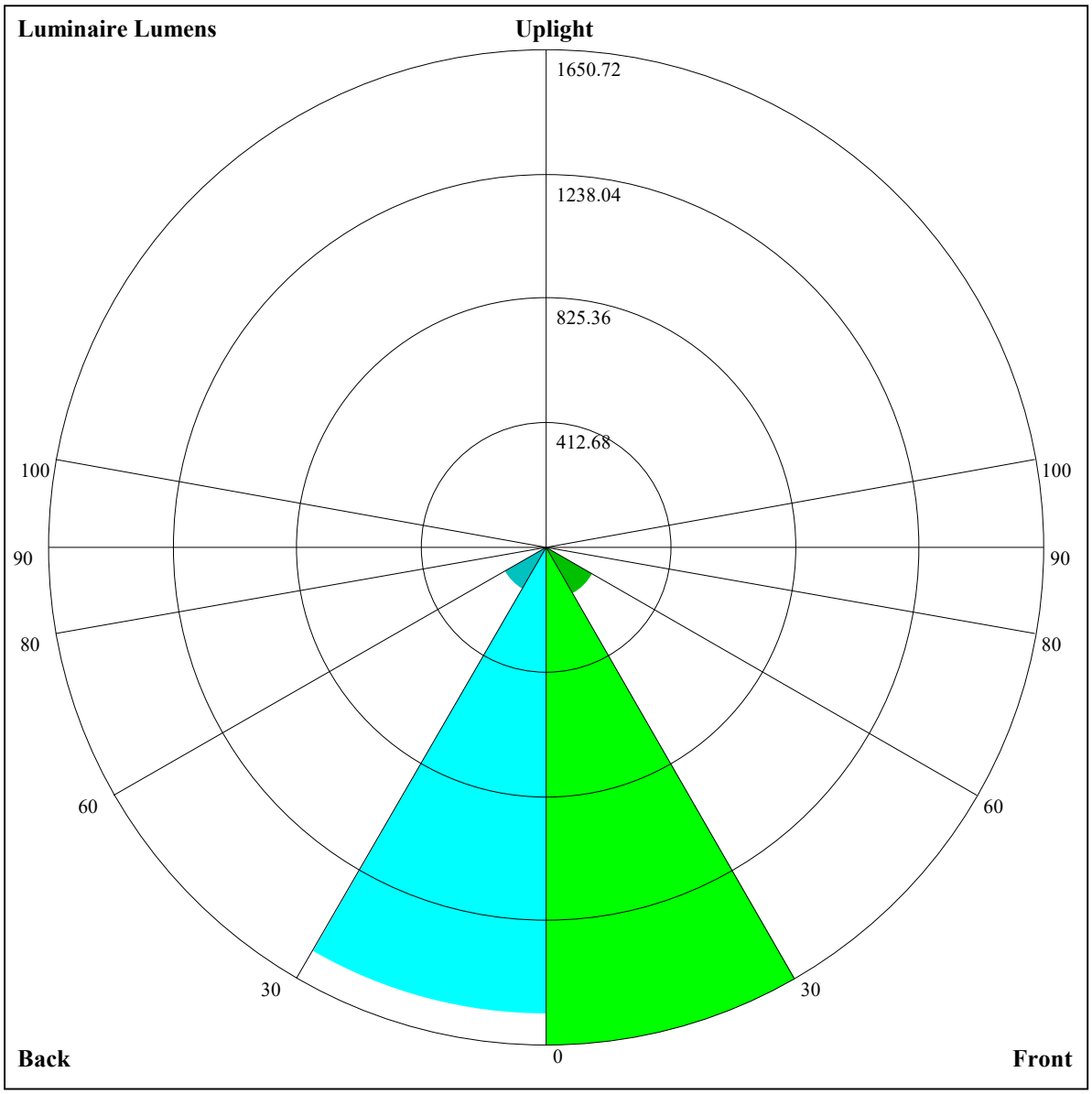



Equipment: GMS1980 Date: 2025/11/10 Operator: YZQ
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 9.28

## 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 | 1.15 | 1.15 | 1.15 | 1.13 | 1.13 | 1.13 | 1.08 | 1.08 | 1.08 | 1.03 | 1.03 | 1.03 | 0.99 | 0.99 | 0.99 | 0.97 |
| 1 | 1.09 | 1.07 | 1.05 | 1.07 | 1.05 | 1.04 | 1.03 | 1.02 | 1.01 | 1.00 | 0.99 | 0.98 | 0.96 | 0.96 | 0.95 | 0.93 |
| 2 | 1.04 | 1.01 | 0.98 | 1.02 | 0.99 | 0.97 | 0.99 | 0.97 | 0.95 | 0.96 | 0.95 | 0.93 | 0.94 | 0.92 | 0.91 | 0.90 |
| 3 | 0.99 | 0.95 | 0.93 | 0.98 | 0.94 | 0.92 | 0.95 | 0.93 | 0.90 | 0.93 | 0.91 | 0.89 | 0.91 | 0.89 | 0.88 | 0.86 |
| 4 | 0.95 | 0.91 | 0.88 | 0.94 | 0.90 | 0.87 | 0.92 | 0.89 | 0.86 | 0.90 | 0.88 | 0.85 | 0.89 | 0.86 | 0.85 | 0.83 |
| 5 | 0.91 | 0.87 | 0.84 | 0.90 | 0.87 | 0.84 | 0.89 | 0.86 | 0.83 | 0.87 | 0.85 | 0.82 | 0.86 | 0.84 | 0.82 | 0.81 |
| 6 | 0.88 | 0.84 | 0.81 | 0.87 | 0.83 | 0.80 | 0.86 | 0.83 | 0.80 | 0.85 | 0.82 | 0.79 | 0.84 | 0.81 | 0.79 | 0.78 |
| 7 | 0.85 | 0.81 | 0.78 | 0.84 | 0.80 | 0.78 | 0.83 | 0.80 | 0.77 | 0.82 | 0.79 | 0.77 | 0.81 | 0.79 | 0.77 | 0.75 |
| 8 | 0.82 | 0.78 | 0.75 | 0.82 | 0.78 | 0.75 | 0.81 | 0.77 | 0.75 | 0.80 | 0.77 | 0.74 | 0.79 | 0.76 | 0.74 | 0.73 |
| 9 | 0.80 | 0.76 | 0.73 | 0.79 | 0.75 | 0.73 | 0.79 | 0.75 | 0.72 | 0.78 | 0.75 | 0.72 | 0.77 | 0.74 | 0.72 | 0.71 |
| 10 | 0.77 | 0.73 | 0.71 | 0.77 | 0.73 | 0.71 | 0.76 | 0.73 | 0.70 | 0.76 | 0.73 | 0.70 | 0.75 | 0.72 | 0.70 | 0.69 |




Luminaire Lumens:
FL=1650.72,FM=179.32,FH=7.99,FVH=4.02
BL=1546.33,BM=160.67,BH=7.92,BVH=4.02
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 | 17237.46 | 17556.10 | 17178.98 | 17178.98 | 16974.02 | 16600.27 | 16068.06 | 15346.38 | 14377.55 |
| 45.0 | 17093.73 | 17171.23 | 17171.23 | 17246.07 | 17159.95 | 16901.60 | 16582.96 | 16049.03 | 15015.60 |
| 90.0 | 17228.85 | 17185.87 | 17185.87 | 17037.75 | 16795.76 | 16388.42 | 15497.09 | 14502.42 | 13343.27 |
| 135.0 | 17155.73 | 17155.73 | 17237.46 | 17159.95 | 16979.10 | 16712.14 | 16290.16 | 15368.69 | 14361.10 |
| 180.0 | 17237.46 | 17082.45 | 16849.93 | 16462.39 | 15911.24 | 15093.11 | 13792.72 | 12630.12 | 11424.47 |
| 225.0 | 17093.73 | 16849.15 | 16430.62 | 15975.91 | 15294.71 | 14362.05 | 12979.85 | 11744.05 | 10465.19 |
| 270.0 | 17228.85 | 17082.45 | 16910.21 | 16539.90 | 16143.76 | 15609.82 | 14757.25 | 13465.47 | 12302.87 |
| 315.0 | 17155.73 | 17042.92 | 16732.89 | 16348.80 | 15648.66 | 14777.14 | 13697.22 | 12222.01 | 11000.85 |
| 360.0 | 17237.46 | 17556.10 | 17178.98 | 17178.98 | 16974.02 | 16600.27 | 16068.06 | 15346.38 | 14377.55 |

| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 12985.88 | 11768.17 | 10499.64 | 8855.64 | 7540.61 | 6000.82 | 4894.19 | 3915.89 | 3127.05 |
| 45.0 | 13973.57 | 12819.59 | 11596.70 | 10003.51 | 8737.57 | 7437.19 | 6197.08 | 4767.51 | 4509.16 |
| 90.0 | 12153.98 | 10931.96 | 9369.77 | 8086.60 | 6831.00 | 5615.87 | 4247.45 | 3338.04 | 2559.52 |
| 135.0 | 13207.12 | 12010.07 | 10503.00 | 9254.28 | 8005.57 | 6464.05 | 5292.84 | 4483.32 | 4483.32 |
| 180.0 | 9848.50 | 8556.72 | 7273.56 | 6050.68 | 4681.40 | 4431.65 | 4431.65 | 2492.35 | 2072.09 |
| 225.0 | 9163.08 | 7613.81 | 6421.07 | 5306.70 | 4050.23 | 3200.25 | 2572.44 | 1927.42 | 1718.41 |
| 270.0 | 11079.99 | 9831.28 | 8289.76 | 7058.26 | 5887.05 | 4784.74 | 4526.38 | 3449.13 | 2298.59 |
| 315.0 | 9734.05 | 8479.30 | 6944.67 | 5776.91 | 4679.76 | 3477.55 | 2756.74 | 2287.39 | 1711.34 |
| 360.0 | 12985.88 | 11768.17 | 10499.64 | 8855.64 | 7540.61 | 6000.82 | 4894.19 | 3915.89 | 3127.05 |

| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 2469.96 | 2142.71 | 1687.92 | 1687.92 | 1601.03 | 1505.26 | 1431.03 | 1373.33 | 1319.25 |
| 45.0 | 4509.16 | 2391.59 | 2090.18 | 1843.02 | 1698.34 | 1584.66 | 1475.29 | 1407.26 | 1355.59 |
| 90.0 | 2201.27 | 1689.38 | 1689.38 | 1628.41 | 1526.97 | 1430.08 | 1371.00 | 1324.16 | 1288.59 |
| 135.0 | 2580.19 | 2210.75 | 1930.00 | 1770.68 | 1642.36 | 1539.02 | 1439.12 | 1379.70 | 1335.78 |
| 180.0 | 1867.99 | 1719.87 | 1573.47 | 1483.04 | 1413.29 | 1345.26 | 1306.50 | 1266.89 | 1238.47 |
| 225.0 | 1718.41 | 1568.30 | 1476.16 | 1405.19 | 1349.04 | 1307.11 | 1266.97 | 1239.59 | 1213.24 |
| 270.0 | 1959.28 | 1787.90 | 1621.70 | 1514.05 | 1433.10 | 1368.51 | 1313.39 | 1280.67 | 1253.11 |
| 315.0 | 1711.34 | 1644.43 | 1534.54 | 1431.63 | 1369.45 | 1323.47 | 1276.79 | 1247.51 | 1223.31 |
| 360.0 | 2469.96 | 2142.71 | 1687.92 | 1687.92 | 1601.03 | 1505.26 | 1431.03 | 1373.33 | 1319.25 |

| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 1285.75 | 1259.48 | 1224.69 | 1201.78 | 1140.98 | 1057.53 | 946.10 | 780.75 | 634.00 |
| 45.0 | 1315.11 | 1274.64 | 1247.94 | 1220.38 | 1194.55 | 1122.21 | 1026.62 | 909.50 | 780.32 |
| 90.0 | 1253.02 | 1228.22 | 1203.25 | 1170.44 | 1077.60 | 972.79 | 849.90 | 685.24 | 547.71 |
| 135.0 | 1297.89 | 1261.72 | 1234.16 | 1207.47 | 1168.71 | 1096.37 | 962.89 | 838.88 | 703.67 |
| 180.0 | 1212.63 | 1186.80 | 1121.35 | 1033.51 | 925.86 | 802.71 | 617.56 | 469.43 | 435.85 |
| 225.0 | 1181.72 | 1143.39 | 1059.51 | 920.43 | 789.36 | 660.44 | 497.85 | 372.63 | 226.06 |
| 270.0 | 1228.13 | 1197.13 | 1166.99 | 1097.23 | 996.48 | 848.35 | 723.48 | 564.16 | 436.71 |
| 315.0 | 1196.70 | 1162.08 | 1100.16 | 1001.21 | 849.99 | 716.51 | 581.64 | 448.68 | 295.56 |
| 360.0 | 1285.75 | 1259.48 | 1224.69 | 1201.78 | 1140.98 | 1057.53 | 946.10 | 780.75 | 634.00 |

| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 487.17 | 349.64 | 204.01 | 113.85 | 55.89 | 34.71 | 29.02 | 20.75 | 15.76 |
| 45.0 | 612.39 | 475.46 | 442.73 | 289.62 | 100.24 | 40.65 | 31.00 | 24.46 | 17.91 |
| 90.0 | 416.30 | 263.69 | 161.04 | 79.14 | 35.31 | 29.02 | 22.05 | 16.02 | 12.14 |
| 135.0 | 526.27 | 457.37 | 457.37 | 151.22 | 61.32 | 35.22 | 29.28 | 22.39 | 15.07 |
| 180.0 | 435.85 | 104.55 | 53.14 | 33.50 | 25.92 | 19.38 | 13.95 | 12.75 | 12.23 |
| 225.0 | 127.54 | 61.57 | 34.79 | 28.16 | 20.15 | 14.90 | 12.06 | 11.45 | 11.02 |
| 270.0 | 436.71 | 168.28 | 86.03 | 42.28 | 29.19 | 22.56 | 16.62 | 12.83 | 11.71 |
| 315.0 | 186.79 | 99.98 | 43.58 | 30.57 | 22.65 | 16.79 | 12.92 | 11.80 | 11.28 |
| 360.0 | 487.17 | 349.64 | 204.01 | 113.85 | 55.89 | 34.71 | 29.02 | 20.75 | 15.76 |

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 | 13.35 | 12.75 | 12.23 | 11.80 | 11.37 | 11.02 | 10.59 | 10.33 | 10.08 |
| 45.0 | 12.75 | 11.97 | 11.45 | 11.02 | 10.51 | 10.16 | 9.90 | 9.47 | 9.30 |
| 90.0 | 11.54 | 11.11 | 10.59 | 10.25 | 9.90 | 9.65 | 9.30 | 9.13 | 8.96 |
| 135.0 | 12.23 | 11.63 | 11.02 | 10.68 | 10.33 | 9.90 | 9.56 | 9.39 | 9.04 |
| 180.0 | 11.88 | 11.37 | 10.94 | 10.68 | 10.42 | 10.08 | 9.90 | 9.65 | 9.47 |
| 225.0 | 10.59 | 10.16 | 9.90 | 9.65 | 9.30 | 9.21 | 9.04 | 8.87 | 8.70 |
| 270.0 | 11.37 | 10.94 | 10.59 | 10.16 | 9.99 | 9.73 | 9.47 | 9.30 | 9.13 |
| 315.0 | 10.94 | 10.59 | 10.25 | 9.90 | 9.73 | 9.47 | 9.30 | 9.13 | 8.96 |
| 360.0 | 13.35 | 12.75 | 12.23 | 11.80 | 11.37 | 11.02 | 10.59 | 10.33 | 10.08 |

| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 9.90 | 9.65 | 9.47 | 9.30 | 9.13 | 8.96 | 8.87 | 8.70 | 8.53 |
| 45.0 | 9.13 | 8.87 | 8.78 | 8.61 | 8.53 | 8.44 | 8.35 | 8.27 | 8.18 |
| 90.0 | 8.70 | 8.61 | 8.53 | 8.35 | 8.27 | 8.18 | 8.10 | 8.01 | 8.01 |
| 135.0 | 8.96 | 8.78 | 8.61 | 8.44 | 8.35 | 8.27 | 8.18 | 8.18 | 8.01 |
| 180.0 | 9.21 | 9.04 | 8.87 | 8.78 | 8.61 | 8.44 | 8.44 | 8.27 | 8.18 |
| 225.0 | 8.61 | 8.53 | 8.44 | 8.35 | 8.27 | 8.27 | 8.10 | 8.10 | 8.01 |
| 270.0 | 8.96 | 8.87 | 8.70 | 8.61 | 8.44 | 8.35 | 8.27 | 8.18 | 8.10 |
| 315.0 | 8.78 | 8.70 | 8.61 | 8.44 | 8.44 | 8.27 | 8.18 | 8.18 | 8.10 |
| 360.0 | 9.90 | 9.65 | 9.47 | 9.30 | 9.13 | 8.96 | 8.87 | 8.70 | 8.53 |

| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 8.44 | 8.35 | 8.27 | 8.18 | 8.10 | 8.01 | 8.01 | 7.92 | 7.92 |
| 45.0 | 8.18 | 8.10 | 8.01 | 8.01 | 7.92 | 7.92 | 7.84 | 7.84 | 7.75 |
| 90.0 | 7.92 | 7.92 | 7.84 | 7.84 | 7.75 | 7.66 | 7.66 | 7.58 | 7.58 |
| 135.0 | 8.01 | 7.92 | 7.84 | 7.84 | 7.84 | 7.75 | 7.75 | 7.58 | 7.58 |
| 180.0 | 8.18 | 8.10 | 8.01 | 7.92 | 7.92 | 7.84 | 7.75 | 7.66 | 7.66 |
| 225.0 | 7.92 | 7.92 | 7.92 | 7.84 | 7.84 | 7.75 | 7.66 | 7.66 | 7.66 |
| 270.0 | 8.10 | 8.01 | 7.92 | 7.92 | 7.84 | 7.75 | 7.75 | 7.75 | 7.66 |
| 315.0 | 8.10 | 8.01 | 7.92 | 7.84 | 7.84 | 7.75 | 7.66 | 7.66 | 7.66 |
| 360.0 | 8.44 | 8.35 | 8.27 | 8.18 | 8.10 | 8.01 | 8.01 | 7.92 | 7.92 |

| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 7.84 | 7.75 | 7.75 | 7.75 | 7.66 | 7.66 | 7.66 | 7.58 | 7.58 |
| 45.0 | 7.75 | 7.66 | 7.66 | 7.66 | 7.66 | 7.66 | 7.58 | 7.66 | 7.58 |
| 90.0 | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.41 | 7.41 | 7.41 |
| 135.0 | 7.58 | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.41 | 7.41 |
| 180.0 | 7.66 | 7.66 | 7.58 | 7.58 | 7.58 | 7.58 | 7.49 | 7.49 | 7.49 |
| 225.0 | 7.66 | 7.58 | 7.58 | 7.58 | 7.58 | 7.58 | 7.58 | 7.49 | 7.49 |
| 270.0 | 7.58 | 7.58 | 7.58 | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.41 |
| 315.0 | 7.58 | 7.49 | 7.58 | 7.49 | 7.49 | 7.41 | 7.41 | 7.41 | 7.41 |
| 360.0 | 7.84 | 7.75 | 7.75 | 7.75 | 7.66 | 7.66 | 7.66 | 7.58 | 7.58 |

| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 7.58 | 7.49 | 7.58 | 7.49 | 7.41 | 7.41 | 7.49 | 7.41 | 7.41 |
| 45.0 | 7.58 | 7.49 | 7.49 | 7.49 | 7.41 | 7.41 | 7.32 | 7.41 | 7.32 |
| 90.0 | 7.41 | 7.41 | 7.41 | 7.41 | 7.41 | 7.32 | 7.32 | 7.32 | 7.23 |
| 135.0 | 7.41 | 7.41 | 7.32 | 7.32 | 7.32 | 7.32 | 7.32 | 7.32 | 7.32 |
| 180.0 | 7.41 | 7.49 | 7.49 | 7.41 | 7.41 | 7.41 | 7.41 | 7.41 | 7.41 |
| 225.0 | 7.49 | 7.49 | 7.41 | 7.32 | 7.32 | 7.32 | 7.32 | 7.32 | 7.32 |
| 270.0 | 7.41 | 7.41 | 7.41 | 7.32 | 7.32 | 7.32 | 7.32 | 7.23 | 7.32 |
| 315.0 | 7.41 | 7.32 | 7.32 | 7.32 | 7.23 | 7.23 | 7.23 | 7.23 | 7.23 |
| 360.0 | 7.58 | 7.49 | 7.58 | 7.49 | 7.41 | 7.41 | 7.49 | 7.41 | 7.41 |

## Intensity data(cd)

| C/γ(°) | 90.0 |
|---|---|
| 0.0 | 7.49 |
| 45.0 | 7.32 |
| 90.0 | 7.23 |
| 135.0 | 7.23 |
| 180.0 | 7.32 |
| 225.0 | 7.32 |
| 270.0 | 7.23 |
| 315.0 | 7.23 |
| 360.0 | 7.49 |