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## Nata

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Client: NT

LumCAT: 1-1895-A

Luminaire: 92.70.481.00

Report No: 20260330-B009

Ballast type: DC

Test No: 20260330-C009

Voltage(V): 35.310

LampCAT: CITIZEN CLU028

Current(A): 0.363

Lamp flux(lm): 1607.0

Power (W): 12.810

Number of Lamps: 1

PF: 0.000

Length(mm): 45

Width(mm): 45

Phm Type: C

Height(mm): 19

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## Photometric Results

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Lumens(lm): 1467.84, Efficiency(%): 91.34% , Luminous Efficacy(lm/W): 114.59

Central intensity(cd): 4268.781, Maximum intensity(cd): 4268.781

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

Beam Angle(50%Imax): [C0/180]Total=23.4

[C90/270]Total=23.4

Field angle(10%Imax): [C0/180]Total=75.2

[C90/270]Total=75.2

Maximum s/h(1/2): C0\_180=0.40 C90\_270=0.40

Maximum s/h(1/4): C0\_180=0.43 C90\_270=0.43

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.34%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 99.299%

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Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2026/3/30  
Humidity(%): 60.0%

Operator: 杨泽全  
Distance(m): 9.16

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0                | 4268.781      | 0.000       | 0         | 0.00%       | 0.00%      |
| 1.0                | 4248.749      | 4.075       | 4.075     | 0.25%       | 0.28%      |
| 2.0                | 4186.449      | 12.107      | 16.182    | 0.75%       | 1.10%      |
| 3.0                | 4088.070      | 19.790      | 35.972    | 1.23%       | 2.45%      |
| 4.0                | 3952.457      | 26.914      | 62.887    | 1.67%       | 4.28%      |
| 5.0                | 3773.424      | 33.236      | 96.123    | 2.07%       | 6.55%      |
| 6.0                | 3563.555      | 38.558      | 134.681   | 2.40%       | 9.18%      |
| 7.0                | 3340.576      | 42.854      | 177.535   | 2.67%       | 12.09%     |
| 8.0                | 3102.074      | 46.109      | 223.643   | 2.87%       | 15.24%     |
| 9.0                | 2869.865      | 48.399      | 272.043   | 3.01%       | 18.53%     |
| 10.0               | 2611.960      | 49.609      | 321.651   | 3.09%       | 21.91%     |
| 11.0               | 2380.276      | 49.883      | 371.534   | 3.10%       | 25.31%     |
| 12.0               | 2025.943      | 48.166      | 419.7     | 3.00%       | 28.59%     |
| 13.0               | 1854.450      | 46.050      | 465.751   | 2.87%       | 31.73%     |
| 14.0               | 1708.381      | 45.604      | 511.355   | 2.84%       | 34.84%     |
| 15.0               | 1505.623      | 44.123      | 555.478   | 2.75%       | 37.84%     |
| 16.0               | 1333.721      | 41.604      | 597.082   | 2.59%       | 40.68%     |
| 17.0               | 1182.209      | 39.180      | 636.262   | 2.44%       | 43.35%     |
| 18.0               | 1062.811      | 37.016      | 673.277   | 2.30%       | 45.87%     |
| 19.0               | 952.822       | 35.068      | 708.345   | 2.18%       | 48.26%     |
| 20.0               | 871.800       | 33.396      | 741.741   | 2.08%       | 50.53%     |
| 21.0               | 808.986       | 32.275      | 774.015   | 2.01%       | 52.73%     |
| 22.0               | 752.161       | 31.372      | 805.387   | 1.95%       | 54.87%     |
| 23.0               | 708.289       | 30.644      | 836.032   | 1.91%       | 56.96%     |
| 24.0               | 669.210       | 30.117      | 866.149   | 1.87%       | 59.01%     |
| 25.0               | 639.738       | 29.763      | 895.911   | 1.85%       | 61.04%     |
| 26.0               | 616.937       | 29.664      | 925.575   | 1.85%       | 63.06%     |
| 27.0               | 595.174       | 29.655      | 955.23    | 1.85%       | 65.08%     |
| 28.0               | 579.200       | 29.733      | 984.962   | 1.85%       | 67.10%     |
| 29.0               | 565.157       | 29.940      | 1014.902  | 1.86%       | 69.14%     |
| 30.0               | 553.588       | 30.206      | 1045.108  | 1.88%       | 71.20%     |
| 31.0               | 542.848       | 30.512      | 1075.62   | 1.90%       | 73.28%     |
| 32.0               | 530.567       | 30.752      | 1106.372  | 1.91%       | 75.37%     |
| 33.0               | 517.687       | 30.882      | 1137.254  | 1.92%       | 77.48%     |
| 34.0               | 506.297       | 30.989      | 1168.243  | 1.93%       | 79.59%     |
| 35.0               | 491.330       | 30.983      | 1199.226  | 1.93%       | 81.70%     |
| 36.0               | 471.591       | 30.660      | 1229.885  | 1.91%       | 83.79%     |
| 37.0               | 446.640       | 29.948      | 1259.833  | 1.86%       | 85.83%     |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0               | 413.508       | 28.711      | 1288.543  | 1.79%       | 87.79%     |
| 39.0               | 387.591       | 27.344      | 1315.887  | 1.70%       | 89.65%     |
| 40.0               | 350.694       | 25.749      | 1341.636  | 1.60%       | 91.40%     |
| 41.0               | 290.313       | 22.826      | 1364.462  | 1.42%       | 92.96%     |
| 42.0               | 246.378       | 19.499      | 1383.961  | 1.21%       | 94.29%     |
| 43.0               | 203.167       | 16.652      | 1400.613  | 1.04%       | 95.42%     |
| 44.0               | 161.990       | 13.782      | 1414.395  | 0.86%       | 96.36%     |
| 45.0               | 120.992       | 10.875      | 1425.271  | 0.68%       | 97.10%     |
| 46.0               | 86.150        | 8.101       | 1433.371  | 0.50%       | 97.65%     |
| 47.0               | 58.199        | 5.741       | 1439.113  | 0.36%       | 98.04%     |
| 48.0               | 38.072        | 3.892       | 1443.004  | 0.24%       | 98.31%     |
| 49.0               | 26.755        | 2.662       | 1445.666  | 0.17%       | 98.49%     |
| 50.0               | 21.375        | 2.007       | 1447.673  | 0.12%       | 98.63%     |
| 51.0               | 18.512        | 1.688       | 1449.361  | 0.11%       | 98.74%     |
| 52.0               | 15.911        | 1.477       | 1450.838  | 0.09%       | 98.84%     |
| 53.0               | 13.698        | 1.288       | 1452.126  | 0.08%       | 98.93%     |
| 54.0               | 11.736        | 1.121       | 1453.247  | 0.07%       | 99.01%     |
| 55.0               | 10.037        | 0.972       | 1454.219  | 0.06%       | 99.07%     |
| 56.0               | 8.621         | 0.843       | 1455.062  | 0.05%       | 99.13%     |
| 57.0               | 7.436         | 0.734       | 1455.796  | 0.05%       | 99.18%     |
| 58.0               | 6.471         | 0.643       | 1456.439  | 0.04%       | 99.22%     |
| 59.0               | 5.873         | 0.577       | 1457.016  | 0.04%       | 99.26%     |
| 60.0               | 5.370         | 0.531       | 1457.547  | 0.03%       | 99.30%     |
| 61.0               | 4.950         | 0.493       | 1458.04   | 0.03%       | 99.33%     |
| 62.0               | 4.615         | 0.461       | 1458.501  | 0.03%       | 99.36%     |
| 63.0               | 4.342         | 0.436       | 1458.937  | 0.03%       | 99.39%     |
| 64.0               | 4.111         | 0.415       | 1459.351  | 0.03%       | 99.42%     |
| 65.0               | 3.954         | 0.399       | 1459.75   | 0.02%       | 99.45%     |
| 66.0               | 3.797         | 0.387       | 1460.137  | 0.02%       | 99.48%     |
| 67.0               | 3.723         | 0.378       | 1460.515  | 0.02%       | 99.50%     |
| 68.0               | 3.650         | 0.374       | 1460.889  | 0.02%       | 99.53%     |
| 69.0               | 3.555         | 0.368       | 1461.256  | 0.02%       | 99.55%     |
| 70.0               | 3.514         | 0.363       | 1461.619  | 0.02%       | 99.58%     |
| 71.0               | 3.461         | 0.360       | 1461.98   | 0.02%       | 99.60%     |
| 72.0               | 3.388         | 0.356       | 1462.336  | 0.02%       | 99.63%     |
| 73.0               | 3.314         | 0.350       | 1462.687  | 0.02%       | 99.65%     |
| 74.0               | 3.262         | 0.346       | 1463.032  | 0.02%       | 99.67%     |
| 75.0               | 3.209         | 0.342       | 1463.374  | 0.02%       | 99.70%     |

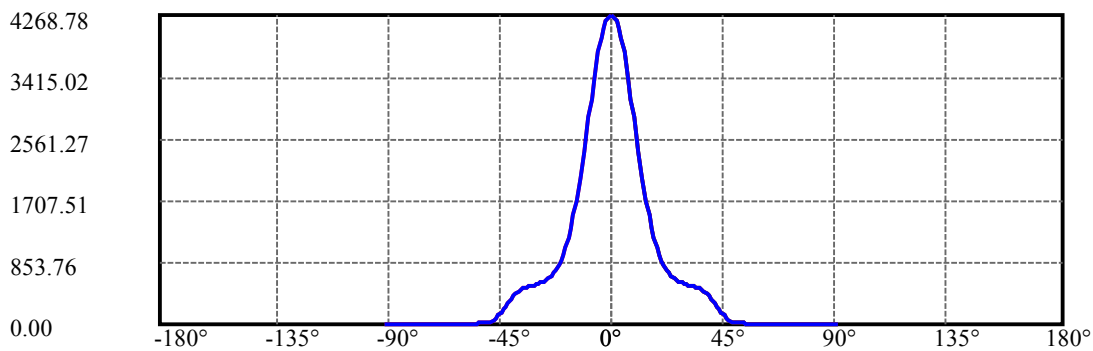
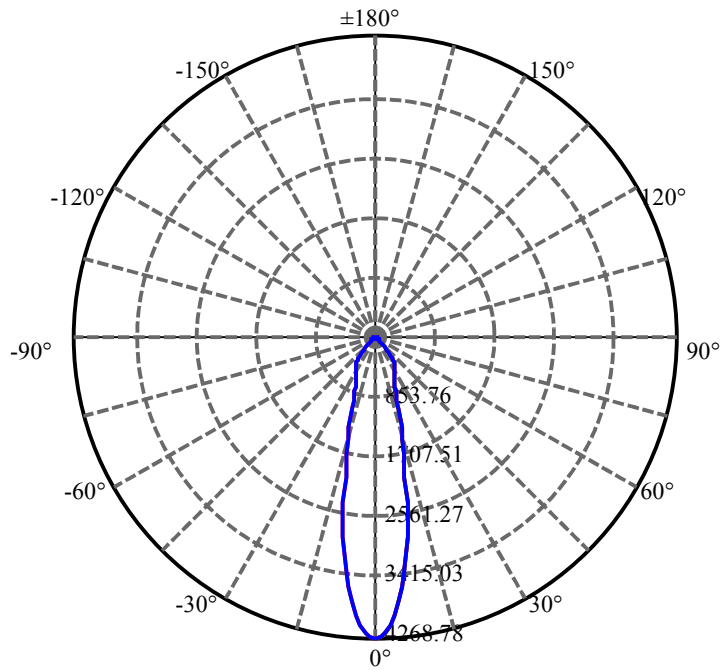
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0               | 3.178         | 0.339       | 1463.713  | 0.02%       | 99.72%     |
| 77.0               | 3.105         | 0.335       | 1464.048  | 0.02%       | 99.74%     |
| 78.0               | 3.063         | 0.330       | 1464.378  | 0.02%       | 99.76%     |
| 79.0               | 3.021         | 0.327       | 1464.705  | 0.02%       | 99.79%     |
| 80.0               | 2.979         | 0.323       | 1465.029  | 0.02%       | 99.81%     |
| 81.0               | 2.916         | 0.319       | 1465.347  | 0.02%       | 99.83%     |
| 82.0               | 2.895         | 0.315       | 1465.662  | 0.02%       | 99.85%     |
| 83.0               | 2.832         | 0.311       | 1465.974  | 0.02%       | 99.87%     |
| 84.0               | 2.727         | 0.303       | 1466.277  | 0.02%       | 99.89%     |
| 85.0               | 2.601         | 0.291       | 1466.567  | 0.02%       | 99.91%     |
| 86.0               | 2.423         | 0.275       | 1466.842  | 0.02%       | 99.93%     |
| 87.0               | 2.349         | 0.261       | 1467.103  | 0.02%       | 99.95%     |
| 88.0               | 2.255         | 0.252       | 1467.355  | 0.02%       | 99.97%     |
| 89.0               | 2.203         | 0.244       | 1467.6    | 0.02%       | 99.98%     |
| 90.0               | 2.161         | 0.239       | 1467.839  | 0.01%       | 100.00%    |

ZONAL LUMEN SUMMARY

| Zone    | Lumens  | %Lamp  | %Fixt   |
|---------|---------|--------|---------|
| 0-30    | 1045.11 | 65.03% | 71.20%  |
| 0-40    | 1341.64 | 83.49% | 91.40%  |
| 0-60    | 1457.55 | 90.70% | 99.30%  |
| 0-90    | 1467.60 | 91.33% | 99.98%  |
| 0-120   | 1467.60 | 91.33% | 99.98%  |
| 0-180   | 1467.84 | 91.34% | 100.00% |
| 60-90   | 10.05   | 0.63%  | 0.68%   |
| 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%   |
| 0-34.19 | 1174.27 | 73.07% | 80.00%  |

ZONAL LUMEN SUMMARY

|         |        |
|---------|--------|
| 0-10    | 321.65 |
| 10-20   | 420.09 |
| 20-30   | 303.37 |
| 30-40   | 296.53 |
| 40-50   | 106.04 |
| 50-60   | 9.87   |
| 60-70   | 4.07   |
| 70-80   | 3.41   |
| 80-90   | 2.57   |
| 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   |



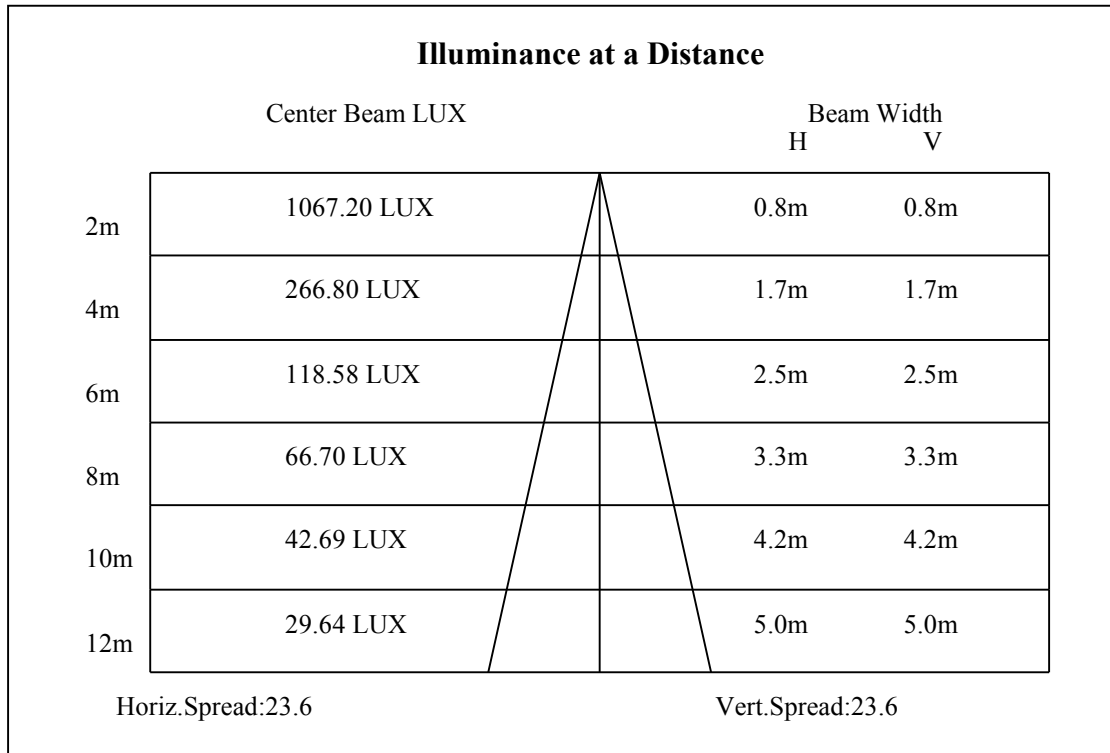
C0(Max): —————

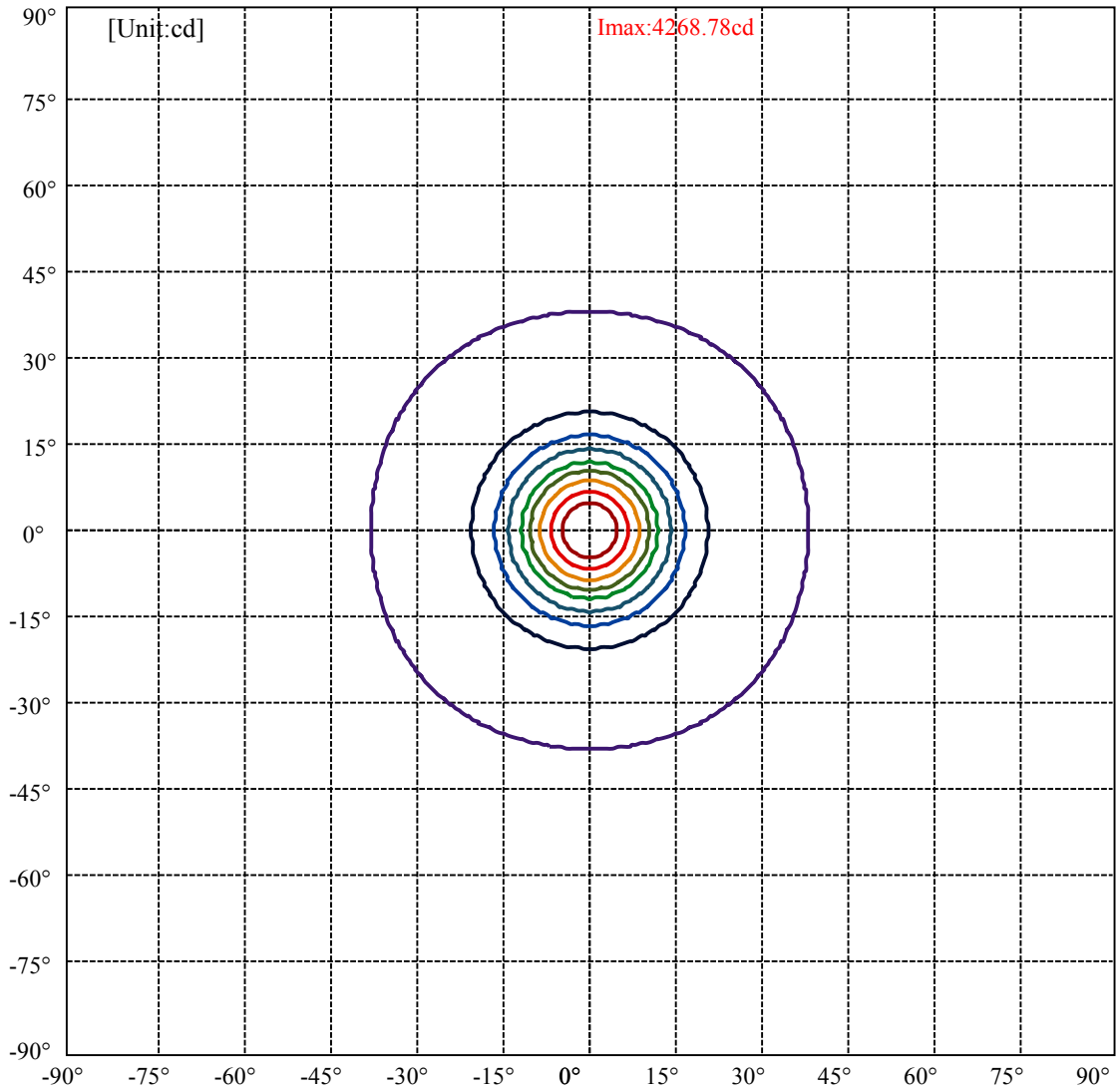
C0/C180: —————

C90/C270: —————

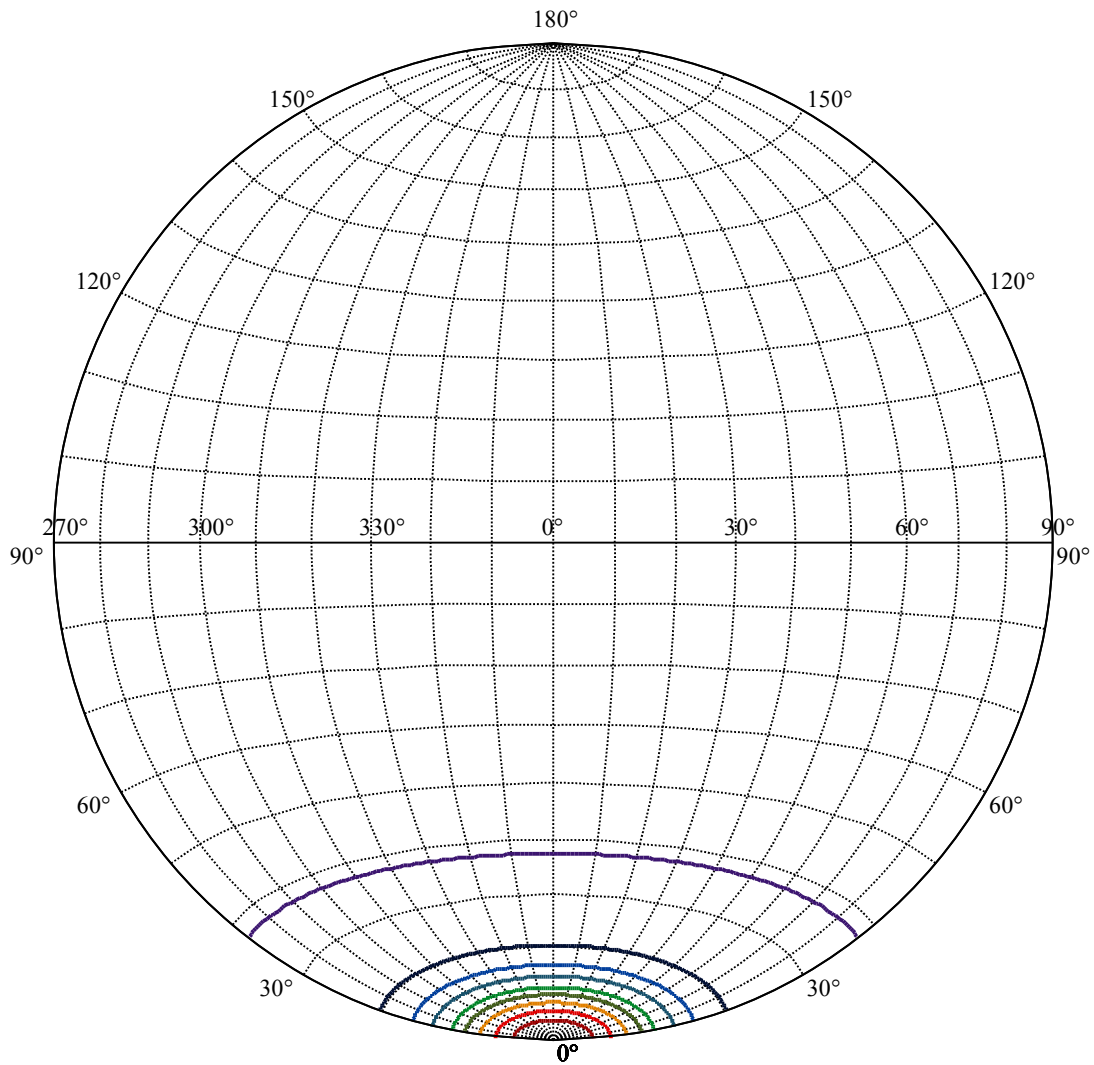
Field angle(10%Imax):C0/180Left:37.6 Right:37.6  
:C90/270Left:37.6 Right:37.6

Beam Angle(50%Imax):C0/180Left:11.7 Right:11.7  
:C90/270Left:11.7 Right:11.7





|                   |   |
|-------------------|---|
| (10%Imax) 426.878 | — |
| (20%Imax) 853.756 | — |
| (30%Imax) 1280.63 | — |
| (40%Imax) 1707.51 | — |
| (50%Imax) 2134.39 | — |
| (60%Imax) 2561.27 | — |
| (70%Imax) 2988.15 | — |
| (80%Imax) 3415.02 | — |
| (90%Imax) 3841.9  | — |



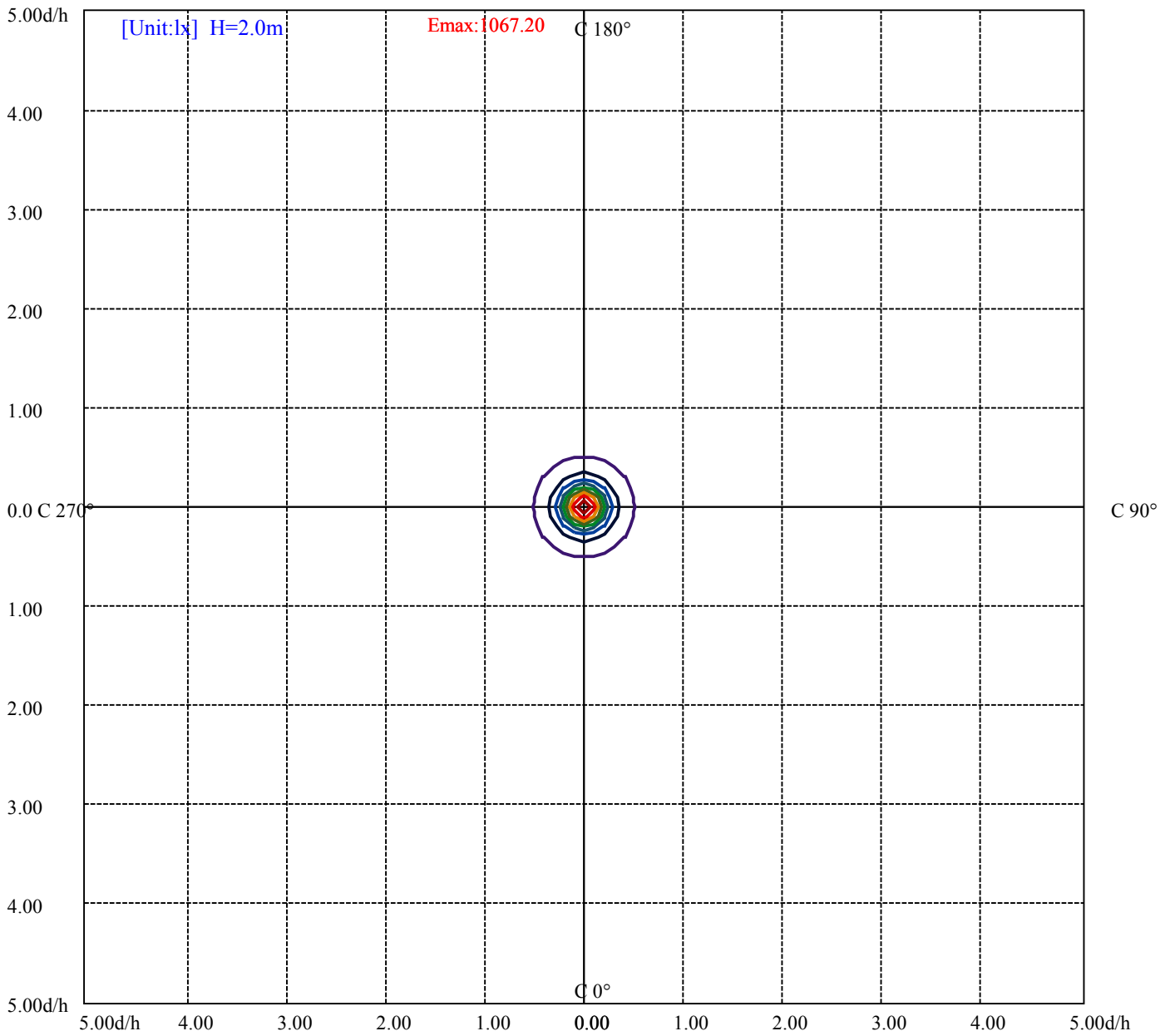
House

[Unit:cd]

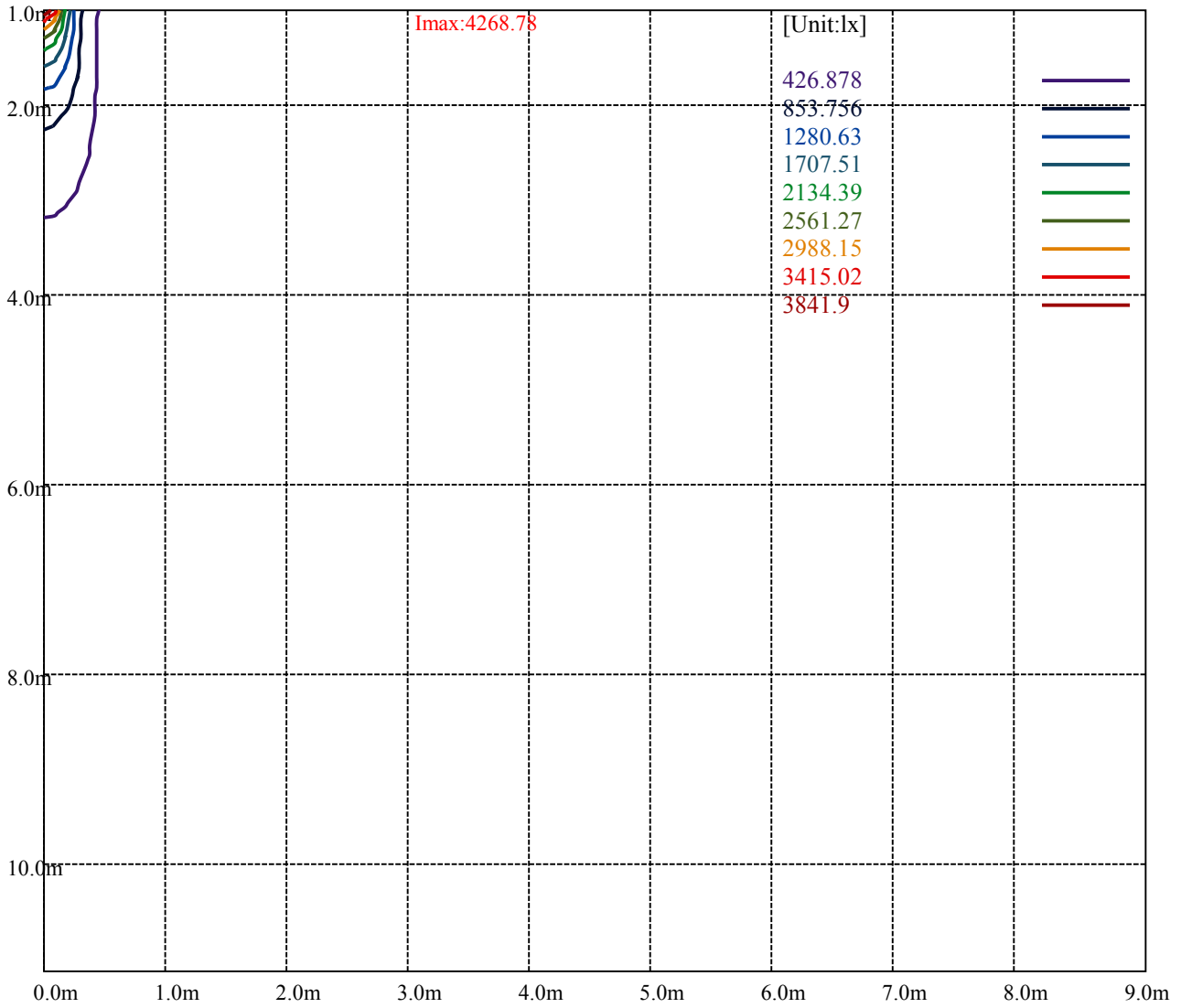
Road

**Imax:4268.78**

|           |         |   |
|-----------|---------|---|
| (10%Imax) | 426.878 | — |
| (20%Imax) | 853.756 | — |
| (30%Imax) | 1280.63 | — |
| (40%Imax) | 1707.51 | — |
| (50%Imax) | 2134.39 | — |
| (60%Imax) | 2561.27 | — |
| (70%Imax) | 2988.15 | — |
| (80%Imax) | 3415.02 | — |
| (90%Imax) | 3841.9  | — |



- (10%Emax) 106.7195
- (20%Emax) 213.439
- (30%Emax) 320.1575
- (40%Emax) 426.8775
- (50%Emax) 533.5975
- (60%Emax) 640.3175
- (70%Emax) 747.035
- (80%Emax) 853.755
- (90%Emax) 960.475



Luminance Table

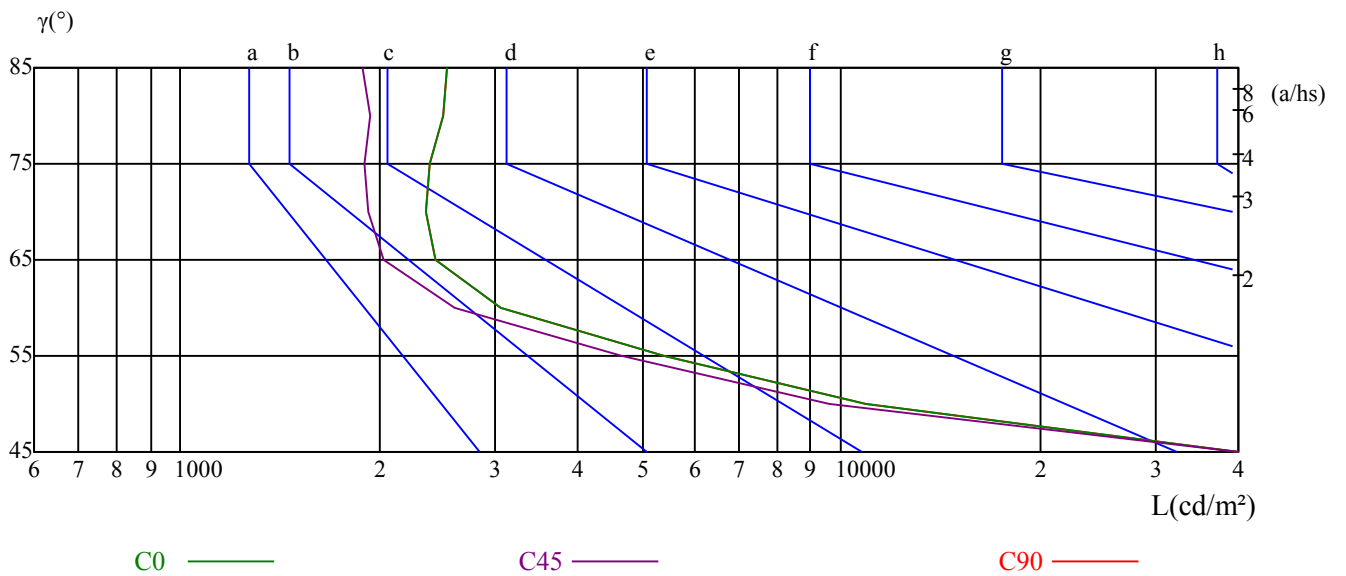
| $\gamma$ | 45    | 50    | 55   | 60   | 65   | 70   | 75   | 80   | 85   |
|----------|-------|-------|------|------|------|------|------|------|------|
| C0       | 59413 | 10924 | 5391 | 3063 | 2425 | 2349 | 2377 | 2495 | 2530 |
| C45      | 52907 | 9594  | 4664 | 2607 | 2026 | 1921 | 1897 | 1931 | 1883 |
| C90      | 59413 | 10924 | 5391 | 3063 | 2425 | 2349 | 2377 | 2495 | 2530 |

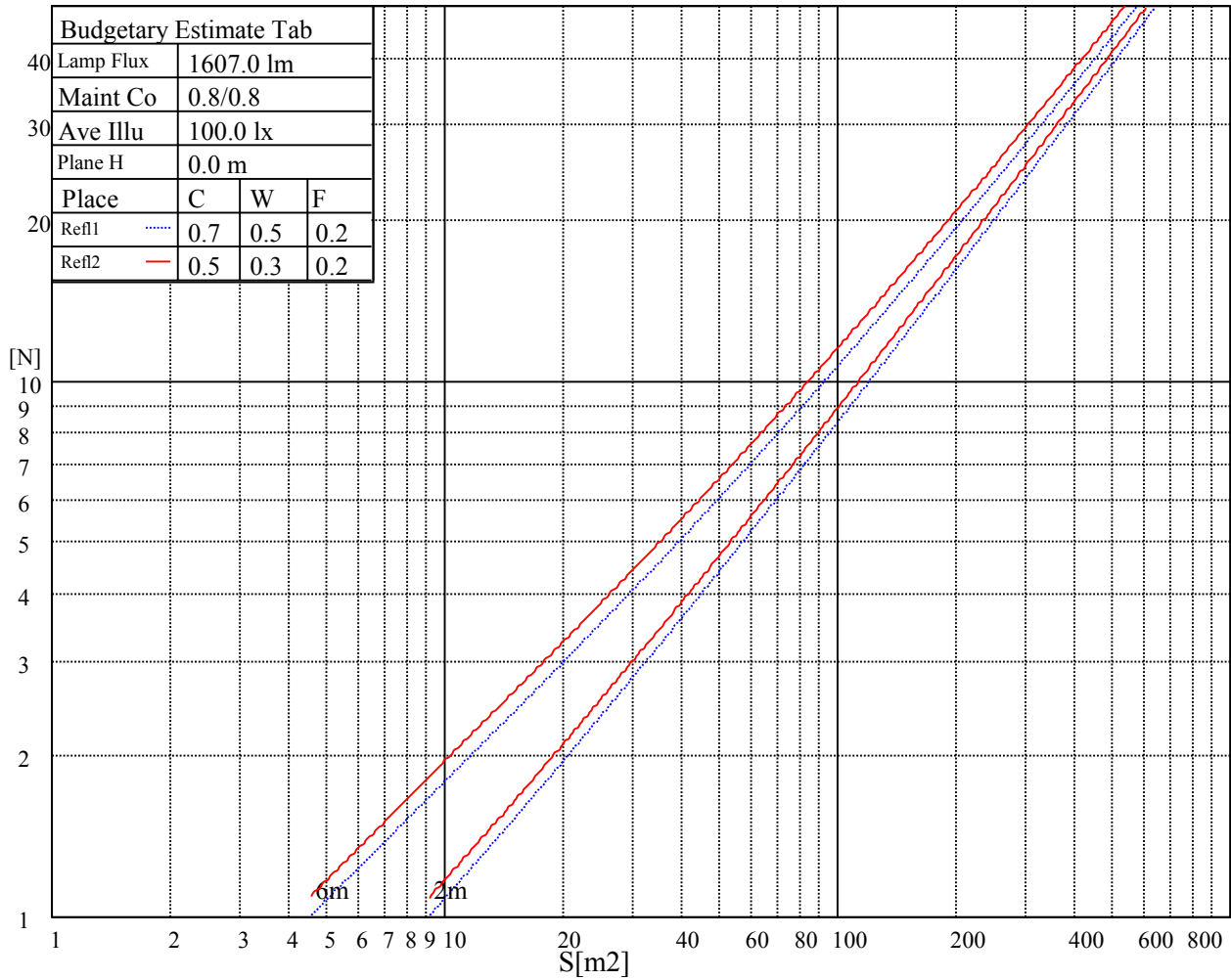
| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 4620       | 4620       | 4620    | 6124       | 6124       | 6124    | 14738      | 14738      | 14738   |

Glare Table

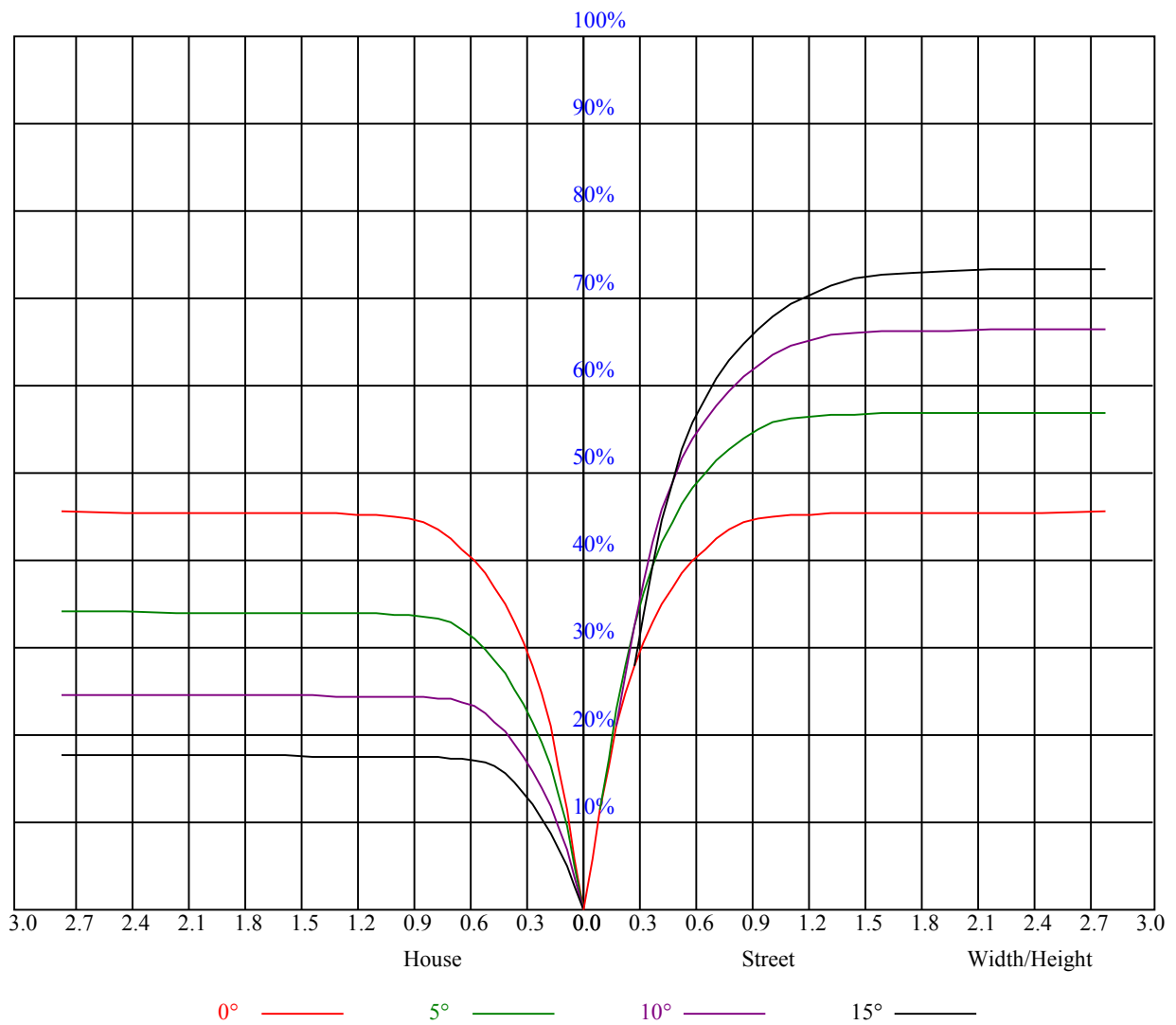
| Glare | Quality | Service Values Illuminance(lx) |      |      |       |       |       |       |       |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15  | A       | 2000                           | 1000 | 500  | <=300 |       |    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

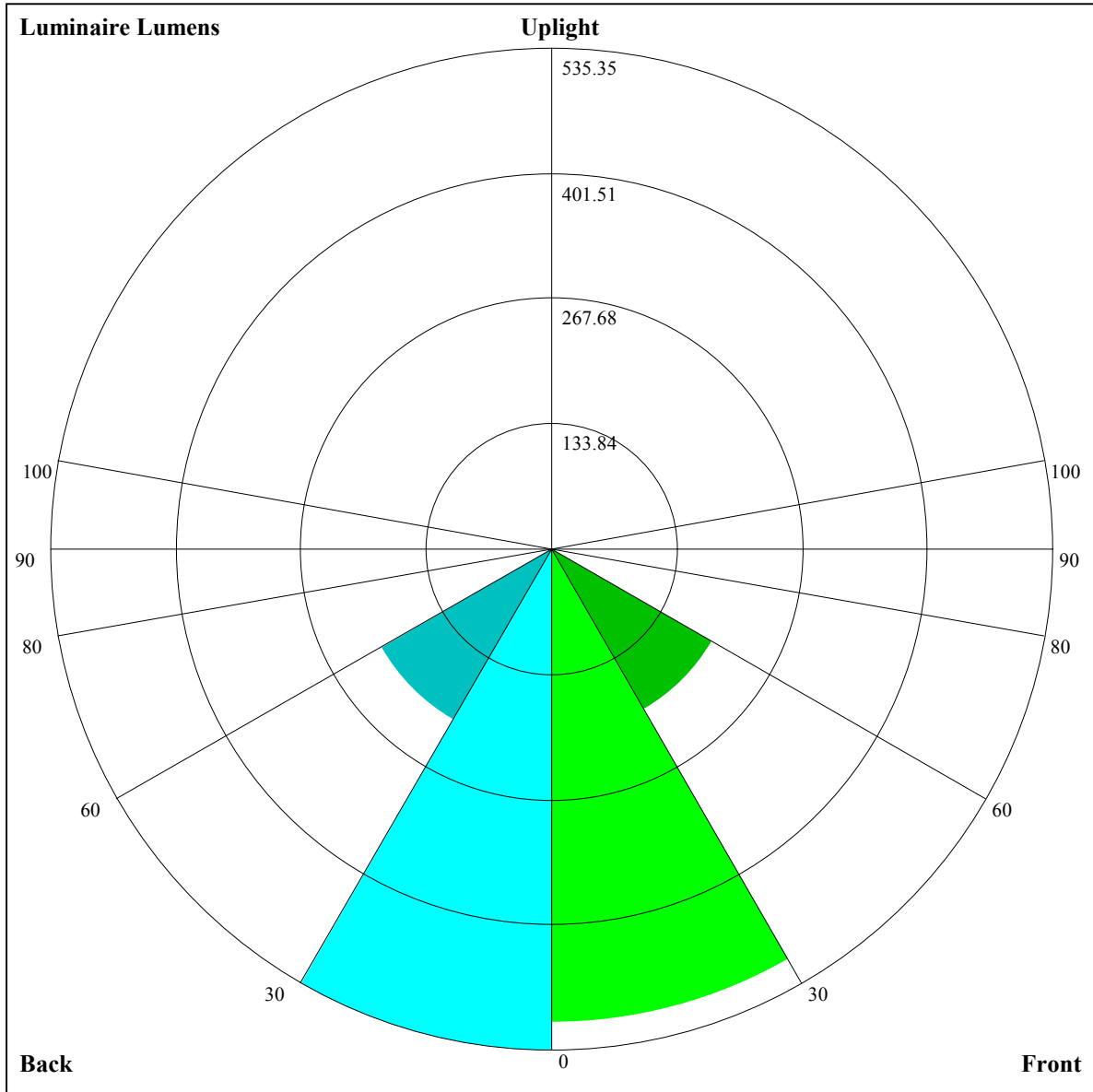
Luminance Limiting Curve





| 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     | 1.09                                    | 1.09 | 1.09 | 1.06 | 1.06 | 1.06 | 1.01 | 1.01 | 1.01 | 0.97 | 0.97 | 0.97 | 0.93 | 0.93 | 0.93 | 0.91 |
| 1     | 1.02                                    | 0.99 | 0.97 | 1.00 | 0.98 | 0.96 | 0.96 | 0.94 | 0.93 | 0.93 | 0.91 | 0.90 | 0.89 | 0.88 | 0.88 | 0.86 |
| 2     | 0.95                                    | 0.92 | 0.89 | 0.93 | 0.90 | 0.88 | 0.91 | 0.88 | 0.86 | 0.88 | 0.86 | 0.84 | 0.85 | 0.84 | 0.82 | 0.81 |
| 3     | 0.89                                    | 0.85 | 0.82 | 0.88 | 0.84 | 0.81 | 0.86 | 0.82 | 0.80 | 0.83 | 0.81 | 0.78 | 0.81 | 0.79 | 0.77 | 0.76 |
| 4     | 0.84                                    | 0.79 | 0.76 | 0.83 | 0.79 | 0.75 | 0.81 | 0.77 | 0.74 | 0.79 | 0.76 | 0.74 | 0.78 | 0.75 | 0.73 | 0.71 |
| 5     | 0.79                                    | 0.74 | 0.71 | 0.78 | 0.74 | 0.70 | 0.77 | 0.73 | 0.70 | 0.75 | 0.72 | 0.69 | 0.74 | 0.71 | 0.69 | 0.67 |
| 6     | 0.75                                    | 0.70 | 0.66 | 0.74 | 0.70 | 0.66 | 0.73 | 0.69 | 0.66 | 0.72 | 0.68 | 0.65 | 0.71 | 0.67 | 0.65 | 0.64 |
| 7     | 0.71                                    | 0.66 | 0.63 | 0.71 | 0.66 | 0.63 | 0.70 | 0.65 | 0.62 | 0.68 | 0.65 | 0.62 | 0.67 | 0.64 | 0.62 | 0.60 |
| 8     | 0.68                                    | 0.63 | 0.59 | 0.67 | 0.63 | 0.59 | 0.66 | 0.62 | 0.59 | 0.65 | 0.62 | 0.59 | 0.65 | 0.61 | 0.58 | 0.57 |
| 9     | 0.65                                    | 0.60 | 0.56 | 0.64 | 0.60 | 0.56 | 0.63 | 0.59 | 0.56 | 0.63 | 0.59 | 0.56 | 0.62 | 0.58 | 0.56 | 0.55 |
| 10    | 0.62                                    | 0.57 | 0.54 | 0.61 | 0.57 | 0.54 | 0.61 | 0.56 | 0.54 | 0.60 | 0.56 | 0.53 | 0.59 | 0.56 | 0.53 | 0.52 |





Luminaire Lumens:

FL=506.74,FM=197.95,FH=3.81,FVH=1.42

BL=535.35,BM=211.73,BH=3.87,BVH=1.41

UL=0,UH=0

BUG Rating:B2-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    | 4259.13 | 4193.69 | 4101.39 | 3977.21 | 3826.18 | 3585.37 | 3384.00 | 3159.97 | 2935.94 |
| 45.0   | 4276.75 | 4271.72 | 4227.25 | 4144.18 | 3980.57 | 3821.14 | 3631.52 | 3368.89 | 3142.35 |
| 90.0   | 4285.14 | 4253.26 | 4150.89 | 4034.27 | 3885.75 | 3651.66 | 3437.70 | 3216.19 | 2945.17 |
| 135.0  | 4254.10 | 4297.73 | 4293.53 | 4235.64 | 4133.27 | 3960.43 | 3792.62 | 3606.35 | 3345.40 |
| 180.0  | 4259.13 | 4271.72 | 4238.16 | 4164.32 | 4052.72 | 3920.15 | 3708.71 | 3514.89 | 3249.75 |
| 225.0  | 4276.75 | 4238.16 | 4171.87 | 4062.79 | 3933.58 | 3771.64 | 3523.28 | 3302.61 | 3080.26 |
| 270.0  | 4285.14 | 4274.24 | 4243.19 | 4159.28 | 4048.53 | 3910.08 | 3735.56 | 3493.91 | 3284.15 |
| 315.0  | 4254.10 | 4189.49 | 4065.31 | 3926.87 | 3759.05 | 3566.91 | 3295.06 | 3061.80 | 2833.58 |
| 360.0  | 4259.13 | 4193.69 | 4101.39 | 3977.21 | 3826.18 | 3585.37 | 3384.00 | 3159.97 | 2935.94 |
| C/γ(°) | 9.0     | 10.0    | 11.0    | 12.0    | 13.0    | 14.0    | 15.0    | 16.0    | 17.0    |
| 0.0    | 2648.98 | 2421.60 | 2200.09 | 1636.24 | 1636.24 | 1546.46 | 1342.15 | 1199.26 | 1085.07 |
| 45.0   | 2920.84 | 2684.22 | 2404.82 | 2184.99 | 1976.90 | 1767.14 | 1529.68 | 1362.71 | 1183.15 |
| 90.0   | 2721.14 | 2425.79 | 2205.12 | 1633.05 | 1633.05 | 1585.31 | 1374.54 | 1229.30 | 1103.36 |
| 135.0  | 3118.02 | 2893.99 | 2670.80 | 2388.88 | 2169.88 | 1953.41 | 1746.16 | 1510.38 | 1340.90 |
| 180.0  | 3034.95 | 2811.76 | 2580.18 | 2294.90 | 2083.46 | 1870.34 | 1673.16 | 1493.60 | 1295.59 |
| 225.0  | 2853.71 | 2566.76 | 2335.18 | 2115.34 | 1652.10 | 1652.10 | 1472.12 | 1312.20 | 1144.30 |
| 270.0  | 3056.76 | 2772.32 | 2542.42 | 2310.01 | 2039.83 | 1825.03 | 1630.37 | 1417.25 | 1267.90 |
| 315.0  | 2604.51 | 2319.23 | 2103.60 | 1644.13 | 1644.13 | 1467.26 | 1276.79 | 1145.06 | 1037.41 |
| 360.0  | 2648.98 | 2421.60 | 2200.09 | 1636.24 | 1636.24 | 1546.46 | 1342.15 | 1199.26 | 1085.07 |
| C/γ(°) | 18.0    | 19.0    | 20.0    | 21.0    | 22.0    | 23.0    | 24.0    | 25.0    | 26.0    |
| 0.0    | 968.52  | 897.71  | 835.62  | 783.43  | 733.00  | 700.11  | 671.16  | 646.91  | 622.75  |
| 45.0   | 1066.52 | 968.35  | 875.22  | 814.81  | 764.46  | 721.67  | 677.20  | 647.84  | 626.86  |
| 90.0   | 1000.74 | 893.43  | 825.72  | 767.57  | 710.68  | 672.76  | 635.17  | 608.15  | 588.43  |
| 135.0  | 1198.26 | 1052.26 | 959.96  | 881.93  | 808.09  | 755.23  | 700.70  | 668.81  | 640.28  |
| 180.0  | 1162.18 | 1022.05 | 935.63  | 862.63  | 792.15  | 746.84  | 709.09  | 673.01  | 648.67  |
| 225.0  | 1030.86 | 916.08  | 843.50  | 786.36  | 736.52  | 687.69  | 654.13  | 626.36  | 605.71  |
| 270.0  | 1132.81 | 1024.57 | 911.30  | 835.78  | 773.69  | 722.51  | 671.33  | 635.25  | 608.40  |
| 315.0  | 942.60  | 848.12  | 787.45  | 739.38  | 698.68  | 659.50  | 634.91  | 611.59  | 594.39  |
| 360.0  | 968.52  | 897.71  | 835.62  | 783.43  | 733.00  | 700.11  | 671.16  | 646.91  | 622.75  |
| C/γ(°) | 27.0    | 28.0    | 29.0    | 30.0    | 31.0    | 32.0    | 33.0    | 34.0    | 35.0    |
| 0.0    | 604.54  | 589.60  | 574.84  | 563.59  | 549.33  | 534.98  | 520.55  | 509.64  | 488.58  |
| 45.0   | 608.40  | 589.10  | 577.35  | 566.45  | 558.06  | 546.31  | 536.24  | 524.49  | 511.91  |
| 90.0   | 563.51  | 550.34  | 540.02  | 529.44  | 515.35  | 499.41  | 486.82  | 475.33  | 452.59  |
| 135.0  | 616.79  | 594.14  | 580.71  | 568.12  | 558.90  | 548.83  | 537.92  | 527.01  | 516.94  |
| 180.0  | 629.38  | 613.43  | 595.81  | 580.71  | 570.64  | 560.57  | 543.79  | 529.53  | 518.62  |
| 225.0  | 583.14  | 569.13  | 556.97  | 546.39  | 538.51  | 527.93  | 514.59  | 506.62  | 496.81  |
| 270.0  | 578.19  | 561.41  | 541.28  | 527.85  | 515.26  | 504.36  | 491.77  | 480.02  | 469.12  |
| 315.0  | 577.44  | 566.45  | 554.28  | 546.14  | 536.74  | 522.14  | 509.81  | 497.73  | 476.08  |
| 360.0  | 604.54  | 589.60  | 574.84  | 563.59  | 549.33  | 534.98  | 520.55  | 509.64  | 488.58  |
| C/γ(°) | 36.0    | 37.0    | 38.0    | 39.0    | 40.0    | 41.0    | 42.0    | 43.0    | 44.0    |
| 0.0    | 463.83  | 433.96  | 396.79  | 348.21  | 308.69  | 265.81  | 214.04  | 172.34  | 134.58  |
| 45.0   | 492.61  | 459.89  | 424.65  | 424.65  | 377.41  | 297.45  | 255.74  | 213.88  | 175.87  |
| 90.0   | 429.09  | 400.40  | 355.93  | 322.11  | 275.63  | 239.80  | 202.21  | 166.22  | 124.35  |
| 135.0  | 503.52  | 485.06  | 452.34  | 427.16  | 427.16  | 328.49  | 288.13  | 246.01  | 202.46  |
| 180.0  | 501.84  | 480.02  | 444.78  | 428.00  | 428.00  | 331.09  | 274.79  | 232.67  | 190.30  |
| 225.0  | 474.23  | 450.66  | 420.53  | 385.63  | 336.04  | 295.18  | 252.64  | 211.61  | 162.69  |
| 270.0  | 455.69  | 438.91  | 422.97  | 422.97  | 351.90  | 307.01  | 269.84  | 221.01  | 182.91  |
| 315.0  | 451.92  | 424.23  | 390.08  | 342.00  | 300.72  | 257.67  | 213.62  | 161.60  | 122.75  |
| 360.0  | 463.83  | 433.96  | 396.79  | 348.21  | 308.69  | 265.81  | 214.04  | 172.34  | 134.58  |

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    | 89.02  | 59.07  | 32.64 | 22.23 | 17.79 | 15.61 | 12.84 | 10.91 | 9.15  |
| 45.0   | 130.14 | 94.98  | 64.52 | 37.17 | 26.09 | 21.40 | 18.12 | 15.69 | 13.68 |
| 90.0   | 94.73  | 67.88  | 47.91 | 31.80 | 26.18 | 23.07 | 20.14 | 17.20 | 15.10 |
| 135.0  | 151.79 | 113.44 | 80.97 | 54.29 | 32.97 | 24.25 | 20.47 | 17.54 | 15.27 |
| 180.0  | 150.11 | 104.38 | 72.24 | 46.57 | 30.04 | 19.21 | 16.78 | 14.60 | 11.91 |
| 225.0  | 125.44 | 91.37  | 57.14 | 37.34 | 26.18 | 22.07 | 19.63 | 16.61 | 14.60 |
| 270.0  | 146.42 | 104.21 | 74.93 | 51.77 | 34.32 | 27.44 | 24.58 | 21.90 | 18.88 |
| 315.0  | 80.30  | 53.87  | 35.24 | 23.41 | 20.47 | 17.96 | 15.52 | 12.84 | 10.99 |
| 360.0  | 89.02  | 59.07  | 32.64 | 22.23 | 17.79 | 15.61 | 12.84 | 10.91 | 9.15  |
| C/γ(°) | 54.0   | 55.0   | 56.0  | 57.0  | 58.0  | 59.0  | 60.0  | 61.0  | 62.0  |
| 0.0    | 7.72   | 6.21   | 5.45  | 5.03  | 4.78  | 4.53  | 4.36  | 4.11  | 3.94  |
| 45.0   | 11.24  | 9.65   | 8.31  | 7.13  | 6.54  | 5.96  | 5.54  | 5.03  | 4.70  |
| 90.0   | 12.67  | 11.16  | 9.65  | 8.22  | 7.30  | 6.38  | 5.79  | 5.29  | 5.03  |
| 135.0  | 13.17  | 10.99  | 9.40  | 8.22  | 7.05  | 6.54  | 5.87  | 5.45  | 4.95  |
| 180.0  | 10.07  | 8.22   | 6.88  | 5.87  | 5.20  | 4.95  | 4.70  | 4.45  | 4.28  |
| 225.0  | 12.84  | 11.33  | 9.57  | 7.89  | 6.54  | 5.96  | 5.37  | 5.03  | 4.61  |
| 270.0  | 16.87  | 14.68  | 12.84 | 10.74 | 8.56  | 7.38  | 6.38  | 5.71  | 5.20  |
| 315.0  | 9.31   | 8.05   | 6.88  | 6.38  | 5.79  | 5.29  | 4.95  | 4.53  | 4.20  |
| 360.0  | 7.72   | 6.21   | 5.45  | 5.03  | 4.78  | 4.53  | 4.36  | 4.11  | 3.94  |
| C/γ(°) | 63.0   | 64.0   | 65.0  | 66.0  | 67.0  | 68.0  | 69.0  | 70.0  | 71.0  |
| 0.0    | 3.86   | 3.69   | 3.61  | 3.44  | 3.44  | 3.36  | 3.27  | 3.19  | 3.19  |
| 45.0   | 4.36   | 4.11   | 3.86  | 3.78  | 3.69  | 3.61  | 3.52  | 3.44  | 3.44  |
| 90.0   | 4.70   | 4.45   | 4.36  | 4.20  | 4.20  | 4.11  | 4.03  | 4.03  | 3.94  |
| 135.0  | 4.61   | 4.28   | 4.03  | 3.86  | 3.69  | 3.61  | 3.52  | 3.44  | 3.44  |
| 180.0  | 4.11   | 3.94   | 3.78  | 3.61  | 3.52  | 3.44  | 3.36  | 3.27  | 3.19  |
| 225.0  | 4.20   | 4.03   | 3.94  | 3.69  | 3.61  | 3.61  | 3.44  | 3.44  | 3.36  |
| 270.0  | 4.87   | 4.53   | 4.36  | 4.20  | 4.11  | 4.03  | 3.94  | 3.94  | 3.86  |
| 315.0  | 4.03   | 3.86   | 3.69  | 3.61  | 3.52  | 3.44  | 3.36  | 3.36  | 3.27  |
| 360.0  | 3.86   | 3.69   | 3.61  | 3.44  | 3.44  | 3.36  | 3.27  | 3.19  | 3.19  |
| C/γ(°) | 72.0   | 73.0   | 74.0  | 75.0  | 76.0  | 77.0  | 78.0  | 79.0  | 80.0  |
| 0.0    | 3.10   | 3.10   | 3.02  | 3.02  | 3.02  | 2.94  | 2.94  | 2.85  | 2.85  |
| 45.0   | 3.36   | 3.27   | 3.19  | 3.19  | 3.19  | 3.10  | 3.10  | 3.10  | 3.02  |
| 90.0   | 3.86   | 3.78   | 3.78  | 3.69  | 3.61  | 3.52  | 3.44  | 3.44  | 3.36  |
| 135.0  | 3.36   | 3.27   | 3.19  | 3.10  | 3.10  | 3.02  | 3.02  | 2.94  | 2.94  |
| 180.0  | 3.19   | 3.10   | 3.10  | 3.02  | 2.94  | 2.94  | 2.85  | 2.85  | 2.85  |
| 225.0  | 3.27   | 3.19   | 3.10  | 3.10  | 3.02  | 2.94  | 2.94  | 2.85  | 2.85  |
| 270.0  | 3.78   | 3.69   | 3.61  | 3.52  | 3.52  | 3.44  | 3.36  | 3.27  | 3.19  |
| 315.0  | 3.19   | 3.10   | 3.10  | 3.02  | 3.02  | 2.94  | 2.85  | 2.85  | 2.77  |
| 360.0  | 3.10   | 3.10   | 3.02  | 3.02  | 3.02  | 2.94  | 2.94  | 2.85  | 2.85  |
| C/γ(°) | 81.0   | 82.0   | 83.0  | 84.0  | 85.0  | 86.0  | 87.0  | 88.0  | 89.0  |
| 0.0    | 2.85   | 2.85   | 2.85  | 2.85  | 2.68  | 2.35  | 2.35  | 2.35  | 2.18  |
| 45.0   | 3.02   | 3.02   | 2.94  | 2.94  | 2.85  | 2.68  | 2.35  | 2.27  | 2.18  |
| 90.0   | 3.27   | 3.19   | 3.10  | 2.94  | 2.77  | 2.35  | 2.27  | 2.10  | 2.10  |
| 135.0  | 2.85   | 2.85   | 2.85  | 2.77  | 2.68  | 2.43  | 2.35  | 2.27  | 2.27  |
| 180.0  | 2.77   | 2.85   | 2.77  | 2.60  | 2.43  | 2.43  | 2.43  | 2.43  | 2.35  |
| 225.0  | 2.68   | 2.68   | 2.60  | 2.43  | 2.43  | 2.35  | 2.35  | 2.27  | 2.27  |
| 270.0  | 3.10   | 3.02   | 2.94  | 2.68  | 2.52  | 2.43  | 2.35  | 2.18  | 2.18  |
| 315.0  | 2.77   | 2.68   | 2.60  | 2.60  | 2.43  | 2.35  | 2.35  | 2.18  | 2.10  |
| 360.0  | 2.85   | 2.85   | 2.85  | 2.85  | 2.68  | 2.35  | 2.35  | 2.35  | 2.18  |

Intensity data(cd)

|        |      |
|--------|------|
| C/γ(°) | 90.0 |
| 0.0    | 2.18 |
| 45.0   | 2.10 |
| 90.0   | 2.10 |
| 135.0  | 2.27 |
| 180.0  | 2.27 |
| 225.0  | 2.18 |
| 270.0  | 2.10 |
| 315.0  | 2.10 |
| 360.0  | 2.18 |