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NT

Client:

LumCAT: 2-2680-L 铝反光罩

Luminaire: GH36D-B40 Hodel

Report No: 2024419-B004

Ballast type: AC

Test No: 2024419-C004

Voltage(V): 32.990

LampCAT: LUMINUS CXM-14-AC40

Current(A): 0.420

Lamp flux(lm): 2356.0

Power (W): 13.855

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 1965.20, Efficiency(%): 83.41% , Luminous Efficacy(lm/W): 141.84

Central intensity(cd): 4414.119, Maximum intensity(cd): 4414.119

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

Beam Angle(50%Imax): [C0/180]Total=37.2

[C90/270]Total=37.2

Field angle(10%Imax): [C0/180]Total=64.6

[C90/270]Total=64.6

Maximum s/h(1/2): C0\_180=0.61 C90\_270=0.61

Maximum s/h(1/4): C0\_180=0.60 C90\_270=0.60

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 83.41%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.271%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/4/19  
Humidity(%): 60.0%

Operator: NT07  
Distance(m): 7.65

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Zonal flux distribution table

Appendix Page: 2 Total:19

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0                | 4414.118      | 0.000       | 0         | 0.00%       | 0.00%      |
| 1.0                | 4402.926      | 4.219       | 4.219     | 0.18%       | 0.21%      |
| 2.0                | 4375.932      | 12.600      | 16.819    | 0.53%       | 0.86%      |
| 3.0                | 4338.551      | 20.842      | 37.661    | 0.88%       | 1.92%      |
| 4.0                | 4287.490      | 28.874      | 66.535    | 1.23%       | 3.39%      |
| 5.0                | 4220.555      | 36.601      | 103.137   | 1.55%       | 5.25%      |
| 6.0                | 4132.332      | 43.897      | 147.033   | 1.86%       | 7.48%      |
| 7.0                | 4035.990      | 50.701      | 197.734   | 2.15%       | 10.06%     |
| 8.0                | 3922.456      | 56.957      | 254.691   | 2.42%       | 12.96%     |
| 9.0                | 3804.167      | 62.620      | 317.311   | 2.66%       | 16.15%     |
| 10.0               | 3664.372      | 67.588      | 384.898   | 2.87%       | 19.59%     |
| 11.0               | 3524.576      | 71.832      | 456.731   | 3.05%       | 23.24%     |
| 12.0               | 3365.175      | 75.315      | 532.046   | 3.20%       | 27.07%     |
| 13.0               | 3208.628      | 78.014      | 610.06    | 3.31%       | 31.04%     |
| 14.0               | 3034.523      | 79.912      | 689.972   | 3.39%       | 35.11%     |
| 15.0               | 2860.419      | 80.928      | 770.9     | 3.43%       | 39.23%     |
| 16.0               | 2674.098      | 81.096      | 851.997   | 3.44%       | 43.35%     |
| 17.0               | 2501.091      | 80.592      | 932.588   | 3.42%       | 47.46%     |
| 18.0               | 2318.135      | 79.459      | 1012.047  | 3.37%       | 51.50%     |
| 19.0               | 2142.421      | 77.605      | 1089.651  | 3.29%       | 55.45%     |
| 20.0               | 1963.708      | 75.154      | 1164.805  | 3.19%       | 59.27%     |
| 21.0               | 1783.678      | 71.957      | 1236.762  | 3.05%       | 62.93%     |
| 22.0               | 1611.988      | 68.237      | 1305      | 2.90%       | 66.41%     |
| 23.0               | 1370.509      | 62.581      | 1367.58   | 2.66%       | 69.59%     |
| 24.0               | 1269.280      | 57.715      | 1425.296  | 2.45%       | 72.53%     |
| 25.0               | 1178.138      | 55.649      | 1480.945  | 2.36%       | 75.36%     |
| 26.0               | 1053.032      | 52.667      | 1533.612  | 2.24%       | 78.04%     |
| 27.0               | 937.779       | 48.706      | 1582.317  | 2.07%       | 80.52%     |
| 28.0               | 831.276       | 44.789      | 1627.106  | 1.90%       | 82.80%     |
| 29.0               | 728.868       | 40.818      | 1667.924  | 1.73%       | 84.87%     |
| 30.0               | 634.962       | 36.823      | 1704.747  | 1.56%       | 86.75%     |
| 31.0               | 547.719       | 32.912      | 1737.659  | 1.40%       | 88.42%     |
| 32.0               | 464.003       | 28.985      | 1766.644  | 1.23%       | 89.90%     |
| 33.0               | 389.796       | 25.153      | 1791.797  | 1.07%       | 91.18%     |
| 34.0               | 324.398       | 21.614      | 1813.411  | 0.92%       | 92.28%     |
| 35.0               | 270.001       | 18.460      | 1831.871  | 0.78%       | 93.22%     |
| 36.0               | 244.470       | 16.381      | 1848.251  | 0.70%       | 94.05%     |
| 37.0               | 165.289       | 13.364      | 1861.615  | 0.57%       | 94.73%     |

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Zonal flux distribution table

Appendix Page: 3 Total:19

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0               | 129.371       | 9.835       | 1871.451  | 0.42%       | 95.23%     |
| 39.0               | 99.430        | 7.810       | 1879.26   | 0.33%       | 95.63%     |
| 40.0               | 79.100        | 6.226       | 1885.487  | 0.26%       | 95.94%     |
| 41.0               | 63.153        | 5.066       | 1890.553  | 0.22%       | 96.20%     |
| 42.0               | 52.385        | 4.198       | 1894.75   | 0.18%       | 96.42%     |
| 43.0               | 44.126        | 3.575       | 1898.325  | 0.15%       | 96.60%     |
| 44.0               | 38.683        | 3.125       | 1901.451  | 0.13%       | 96.76%     |
| 45.0               | 34.353        | 2.807       | 1904.258  | 0.12%       | 96.90%     |
| 46.0               | 30.951        | 2.554       | 1906.811  | 0.11%       | 97.03%     |
| 47.0               | 28.398        | 2.360       | 1909.172  | 0.10%       | 97.15%     |
| 48.0               | 26.086        | 2.203       | 1911.374  | 0.09%       | 97.26%     |
| 49.0               | 24.177        | 2.064       | 1913.439  | 0.09%       | 97.37%     |
| 50.0               | 22.582        | 1.950       | 1915.388  | 0.08%       | 97.47%     |
| 51.0               | 21.214        | 1.853       | 1917.241  | 0.08%       | 97.56%     |
| 52.0               | 20.000        | 1.769       | 1919.01   | 0.08%       | 97.65%     |
| 53.0               | 18.983        | 1.696       | 1920.705  | 0.07%       | 97.74%     |
| 54.0               | 18.083        | 1.634       | 1922.339  | 0.07%       | 97.82%     |
| 55.0               | 17.286        | 1.579       | 1923.918  | 0.07%       | 97.90%     |
| 56.0               | 16.613        | 1.532       | 1925.45   | 0.07%       | 97.98%     |
| 57.0               | 15.999        | 1.491       | 1926.941  | 0.06%       | 98.05%     |
| 58.0               | 15.472        | 1.455       | 1928.396  | 0.06%       | 98.13%     |
| 59.0               | 15.004        | 1.425       | 1929.821  | 0.06%       | 98.20%     |
| 60.0               | 14.587        | 1.398       | 1931.219  | 0.06%       | 98.27%     |
| 61.0               | 14.243        | 1.376       | 1932.595  | 0.06%       | 98.34%     |
| 62.0               | 13.921        | 1.357       | 1933.952  | 0.06%       | 98.41%     |
| 63.0               | 13.650        | 1.341       | 1935.293  | 0.06%       | 98.48%     |
| 64.0               | 13.380        | 1.326       | 1936.619  | 0.06%       | 98.55%     |
| 65.0               | 13.131        | 1.312       | 1937.931  | 0.06%       | 98.61%     |
| 66.0               | 12.868        | 1.297       | 1939.228  | 0.06%       | 98.68%     |
| 67.0               | 12.604        | 1.281       | 1940.509  | 0.05%       | 98.74%     |
| 68.0               | 12.341        | 1.264       | 1941.773  | 0.05%       | 98.81%     |
| 69.0               | 12.070        | 1.245       | 1943.018  | 0.05%       | 98.87%     |
| 70.0               | 11.822        | 1.227       | 1944.245  | 0.05%       | 98.93%     |
| 71.0               | 11.573        | 1.209       | 1945.454  | 0.05%       | 99.00%     |
| 72.0               | 11.331        | 1.191       | 1946.645  | 0.05%       | 99.06%     |
| 73.0               | 11.112        | 1.174       | 1947.819  | 0.05%       | 99.12%     |
| 74.0               | 10.871        | 1.156       | 1948.975  | 0.05%       | 99.17%     |
| 75.0               | 10.666        | 1.138       | 1950.112  | 0.05%       | 99.23%     |

## NT 2-2680-L 铝反光罩

## Zonal flux distribution table

Appendix Page: 4 Total:19

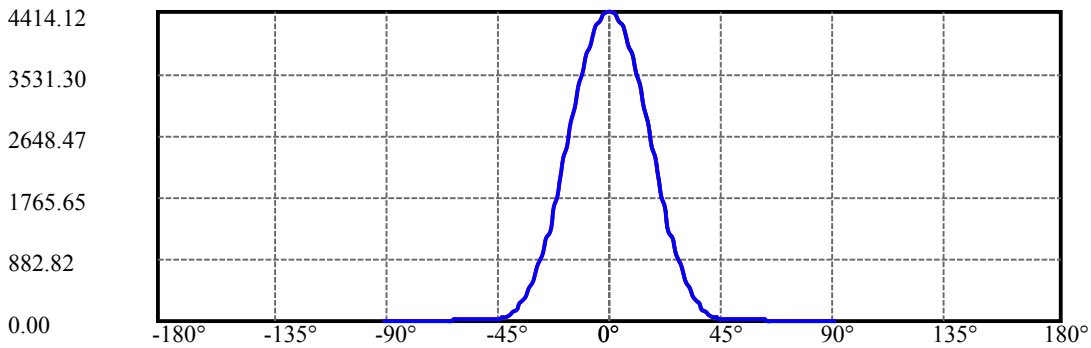
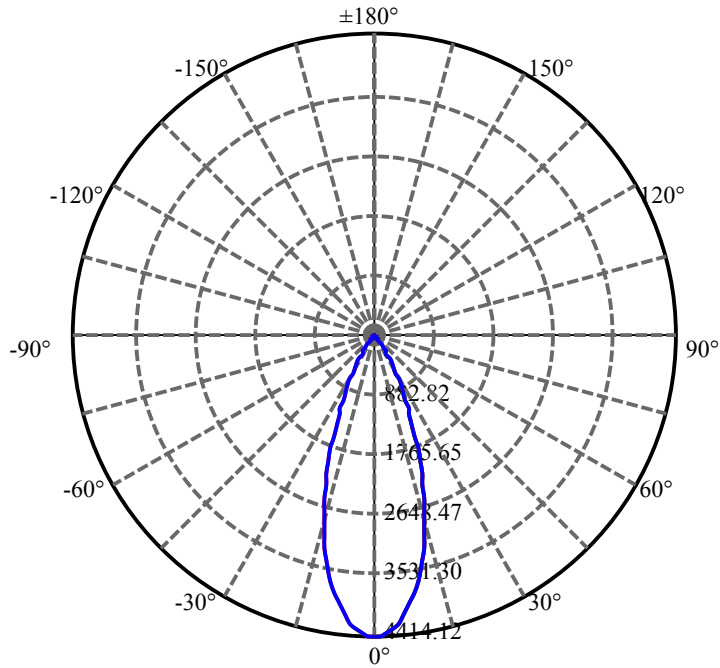
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0               | 10.439        | 1.120       | 1951.233  | 0.05%       | 99.29%     |
| 77.0               | 10.241        | 1.103       | 1952.335  | 0.05%       | 99.35%     |
| 78.0               | 10.029        | 1.085       | 1953.42   | 0.05%       | 99.40%     |
| 79.0               | 9.839         | 1.068       | 1954.488  | 0.05%       | 99.45%     |
| 80.0               | 9.649         | 1.051       | 1955.539  | 0.04%       | 99.51%     |
| 81.0               | 9.451         | 1.033       | 1956.571  | 0.04%       | 99.56%     |
| 82.0               | 9.269         | 1.015       | 1957.587  | 0.04%       | 99.61%     |
| 83.0               | 9.086         | 0.998       | 1958.584  | 0.04%       | 99.66%     |
| 84.0               | 8.932         | 0.982       | 1959.566  | 0.04%       | 99.71%     |
| 85.0               | 8.815         | 0.969       | 1960.535  | 0.04%       | 99.76%     |
| 86.0               | 8.698         | 0.957       | 1961.492  | 0.04%       | 99.81%     |
| 87.0               | 8.552         | 0.944       | 1962.436  | 0.04%       | 99.86%     |
| 88.0               | 8.442         | 0.931       | 1963.367  | 0.04%       | 99.91%     |
| 89.0               | 8.354         | 0.921       | 1964.287  | 0.04%       | 99.95%     |
| 90.0               | 8.303         | 0.913       | 1965.201  | 0.04%       | 100.00%    |

ZONAL LUMEN SUMMARY

| Zone    | Lumens  | %Lamp  | %Fixt   |
|---------|---------|--------|---------|
| 0-30    | 1704.75 | 72.36% | 86.75%  |
| 0-40    | 1885.49 | 80.03% | 95.94%  |
| 0-60    | 1931.22 | 81.97% | 98.27%  |
| 0-90    | 1964.29 | 83.37% | 99.95%  |
| 0-120   | 1964.29 | 83.37% | 99.95%  |
| 0-180   | 1965.20 | 83.41% | 100.00% |
| 60-90   | 33.07   | 1.40%  | 1.68%   |
| 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%   |
| 0-26.79 | 1572.16 | 66.73% | 80.00%  |

ZONAL LUMEN SUMMARY

|         |        |
|---------|--------|
| 0-10    | 384.90 |
| 10-20   | 779.91 |
| 20-30   | 539.94 |
| 30-40   | 180.74 |
| 40-50   | 29.90  |
| 50-60   | 15.83  |
| 60-70   | 13.03  |
| 70-80   | 11.29  |
| 80-90   | 8.75   |
| 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: —————

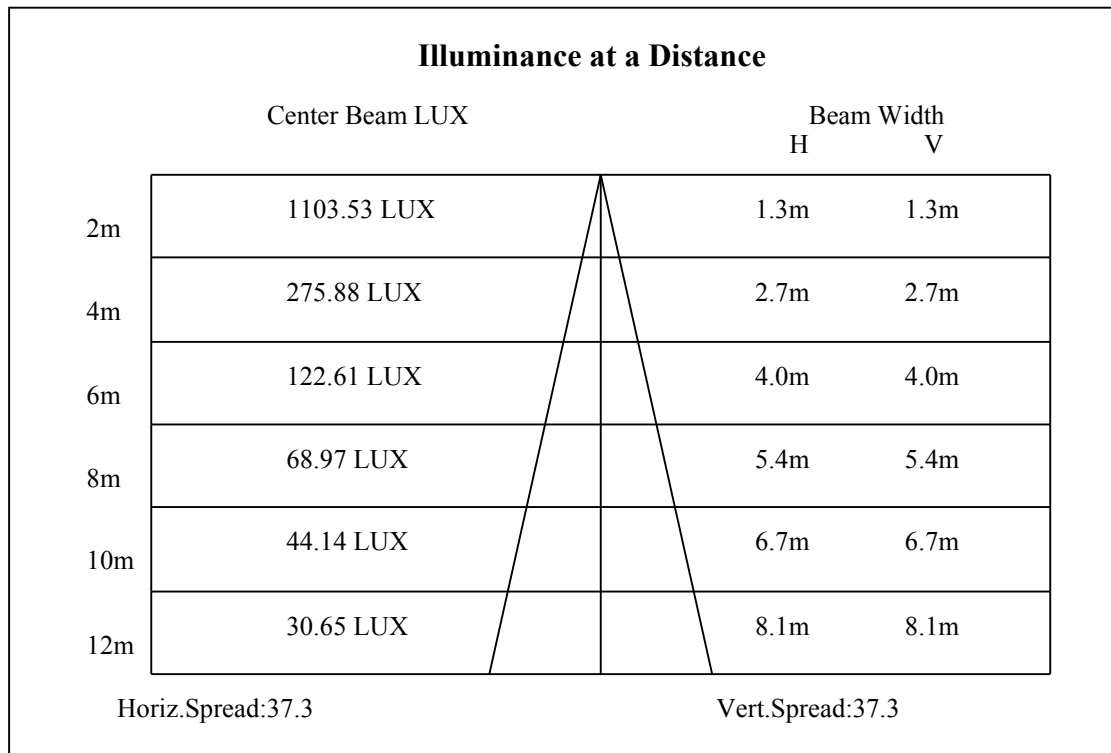
C90/C270: —————

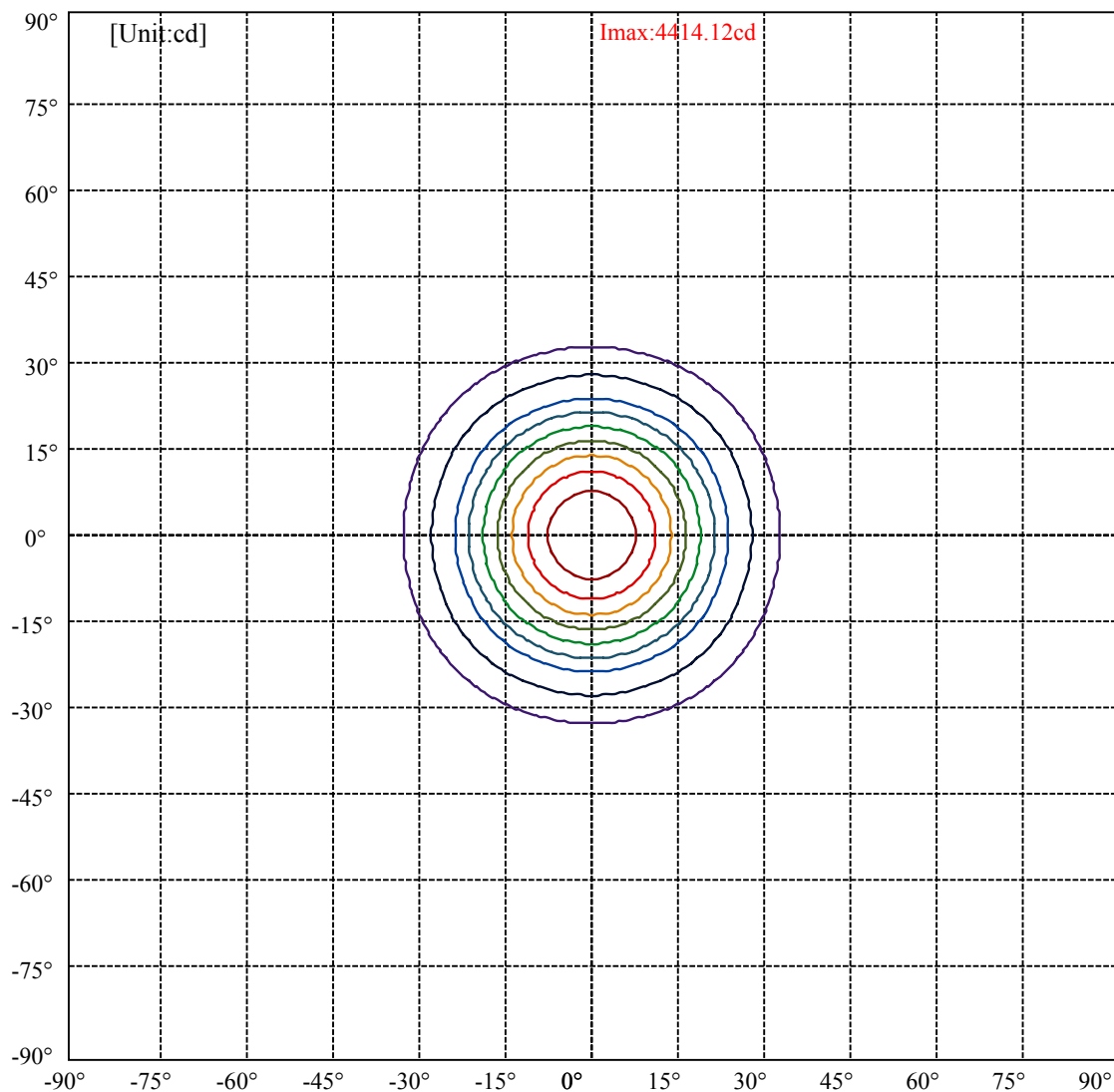
Field angle(10%Imax):C0/180Left:32.3 Right:32.3

:C90/270Left:32.3 Right:32.3

Beam Angle(50%Imax):C0/180Left:18.6 Right:18.6

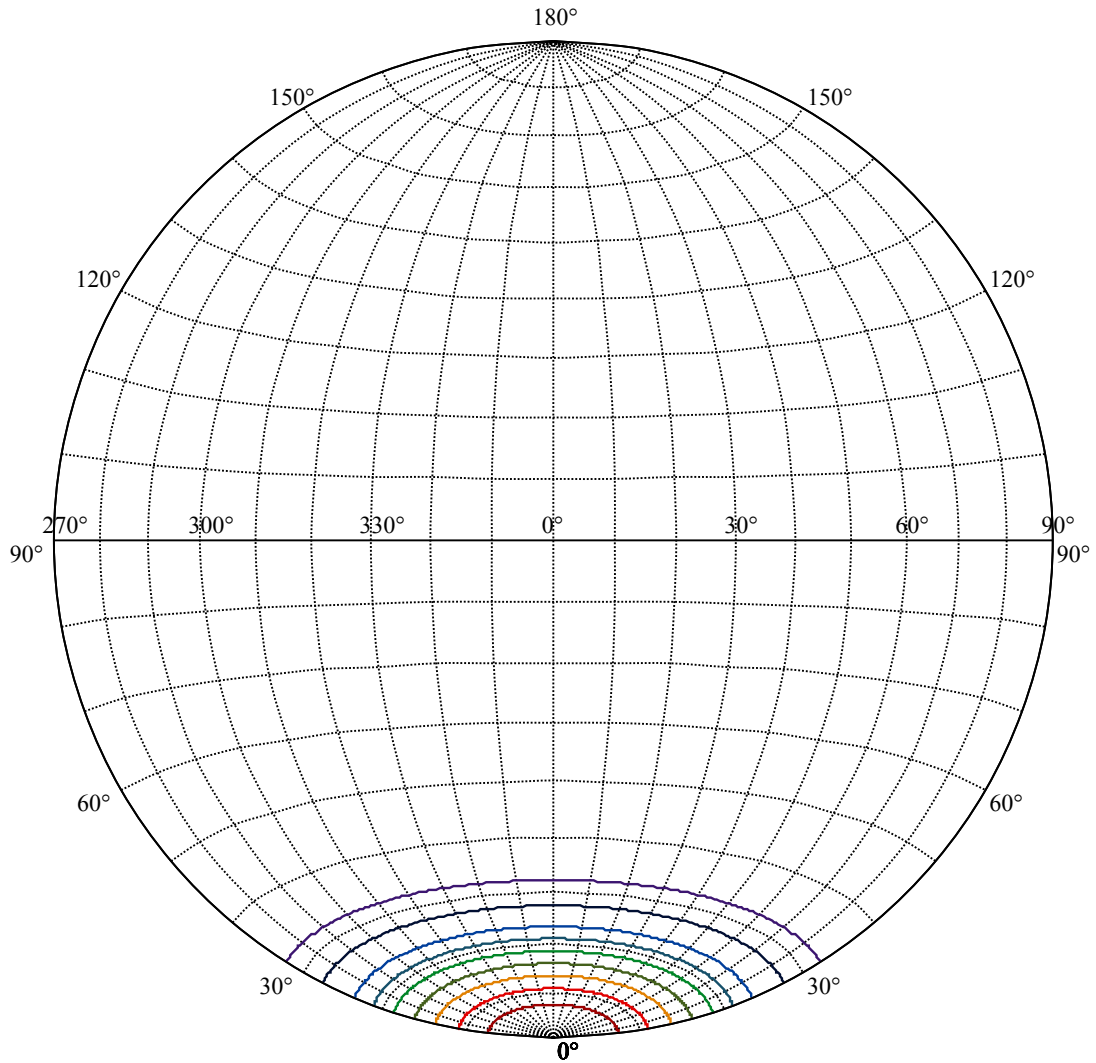
:C90/270Left:18.6 Right:18.6





|                   |   |
|-------------------|---|
| (10%Imax) 441.412 | — |
| (20%Imax) 882.824 | — |
| (30%Imax) 1324.24 | — |
| (40%Imax) 1765.65 | — |
| (50%Imax) 2207.06 | — |
| (60%Imax) 2648.47 | — |
| (70%Imax) 3089.88 | — |
| (80%Imax) 3531.3  | — |
| (90%Imax) 3972.71 | — |





House

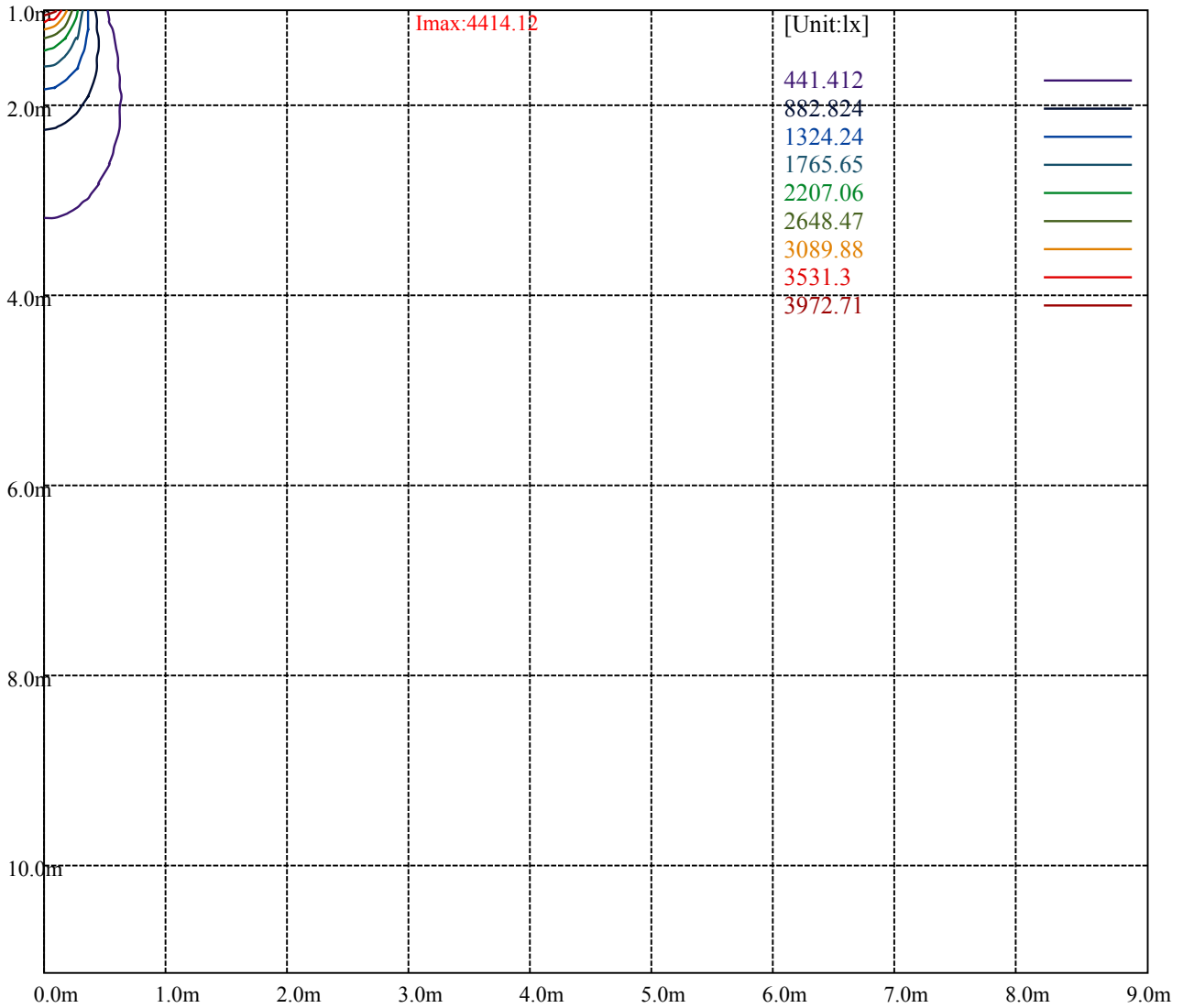
[Unit:cd]

Road

**Imax:4414.12**

|           |         |   |
|-----------|---------|---|
| (10%Imax) | 441.412 | — |
| (20%Imax) | 882.824 | — |
| (30%Imax) | 1324.24 | — |
| (40%Imax) | 1765.65 | — |
| (50%Imax) | 2207.06 | — |
| (60%Imax) | 2648.47 | — |
| (70%Imax) | 3089.88 | — |
| (80%Imax) | 3531.3  | — |
| (90%Imax) | 3972.71 | — |





NT 2-2680-L 铝反光罩

Luminance Limiting Curve(no luminous side)

Luminance Table

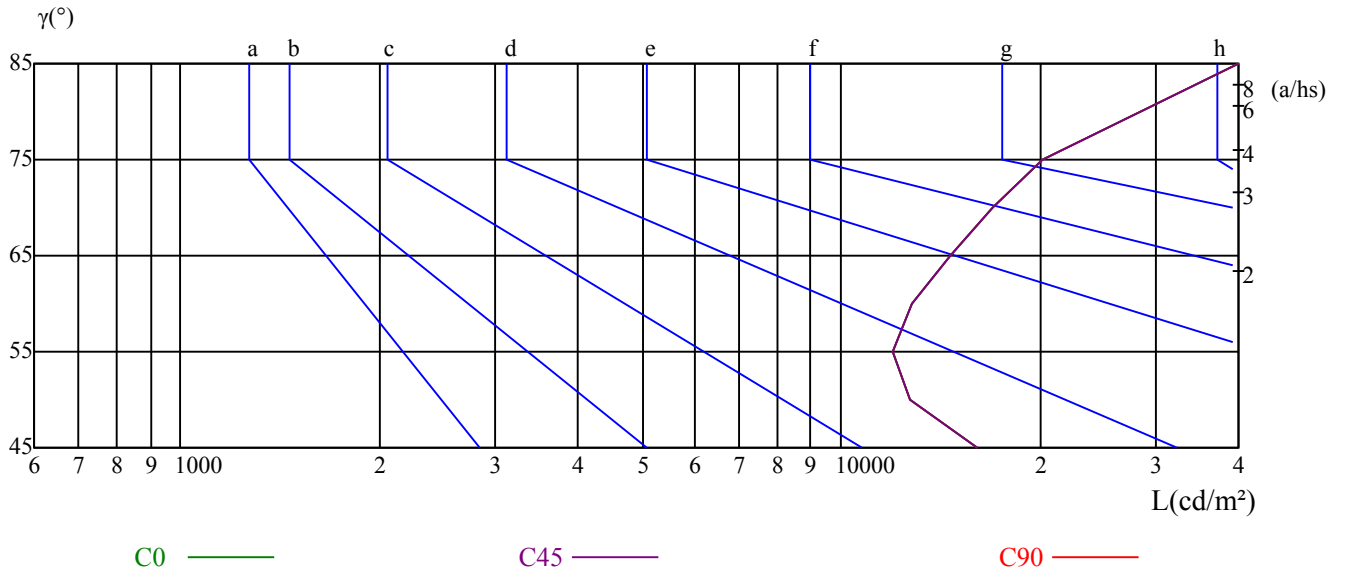
| $\gamma$ | 45    | 50    | 55    | 60    | 65    | 70    | 75    | 80    | 85    |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C0       | 16110 | 12707 | 11994 | 12838 | 14615 | 16996 | 20243 | 28497 | 54367 |
| C45      | 16110 | 12707 | 11994 | 12838 | 14615 | 16996 | 20243 | 28497 | 54367 |
| C90      | 16110 | 12707 | 11994 | 12838 | 14615 | 16996 | 20243 | 28497 | 54367 |

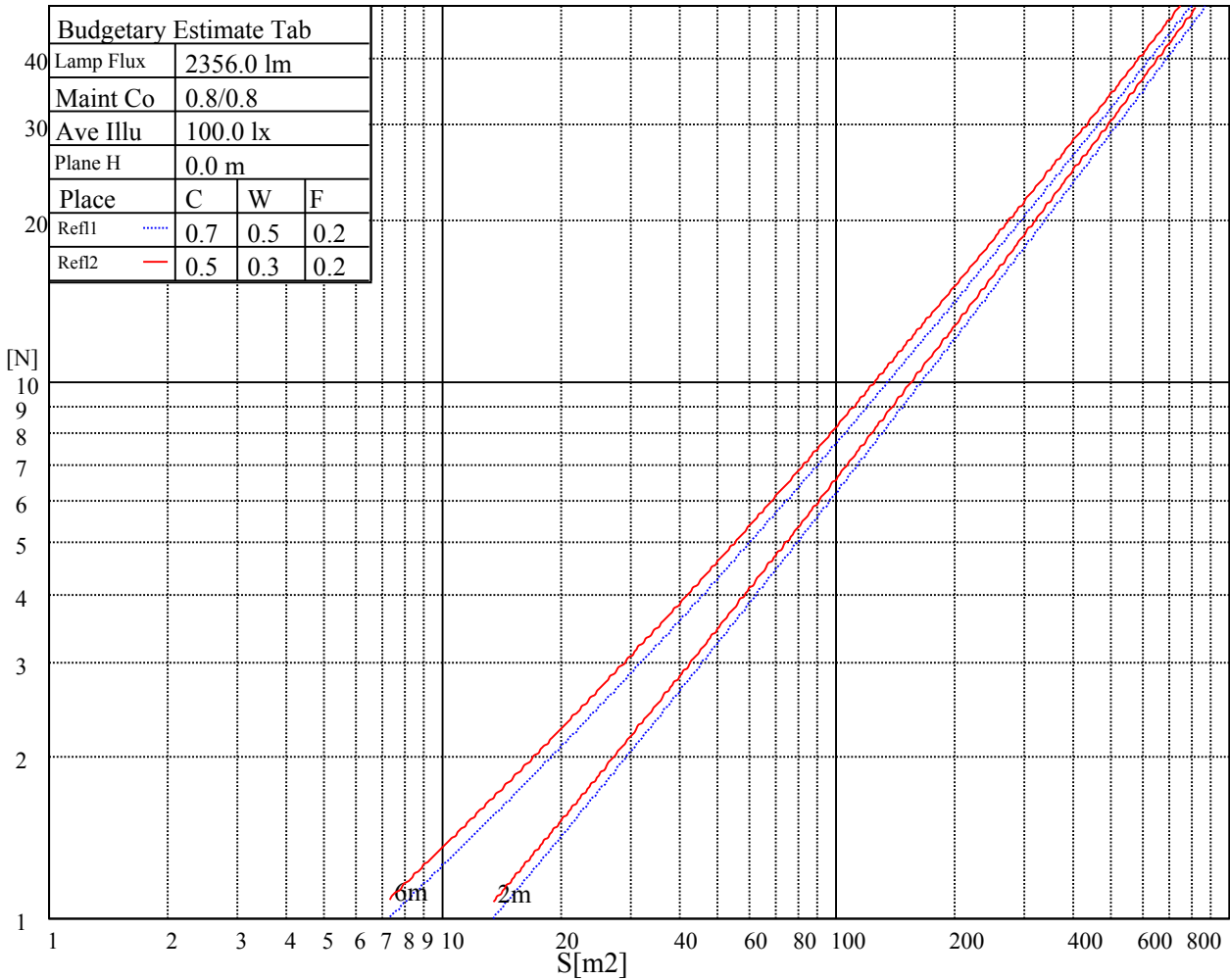
| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 14615      | 14615      | 14615   | 20243      | 20243      | 20243   | 54367      | 54367      | 54367   |

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



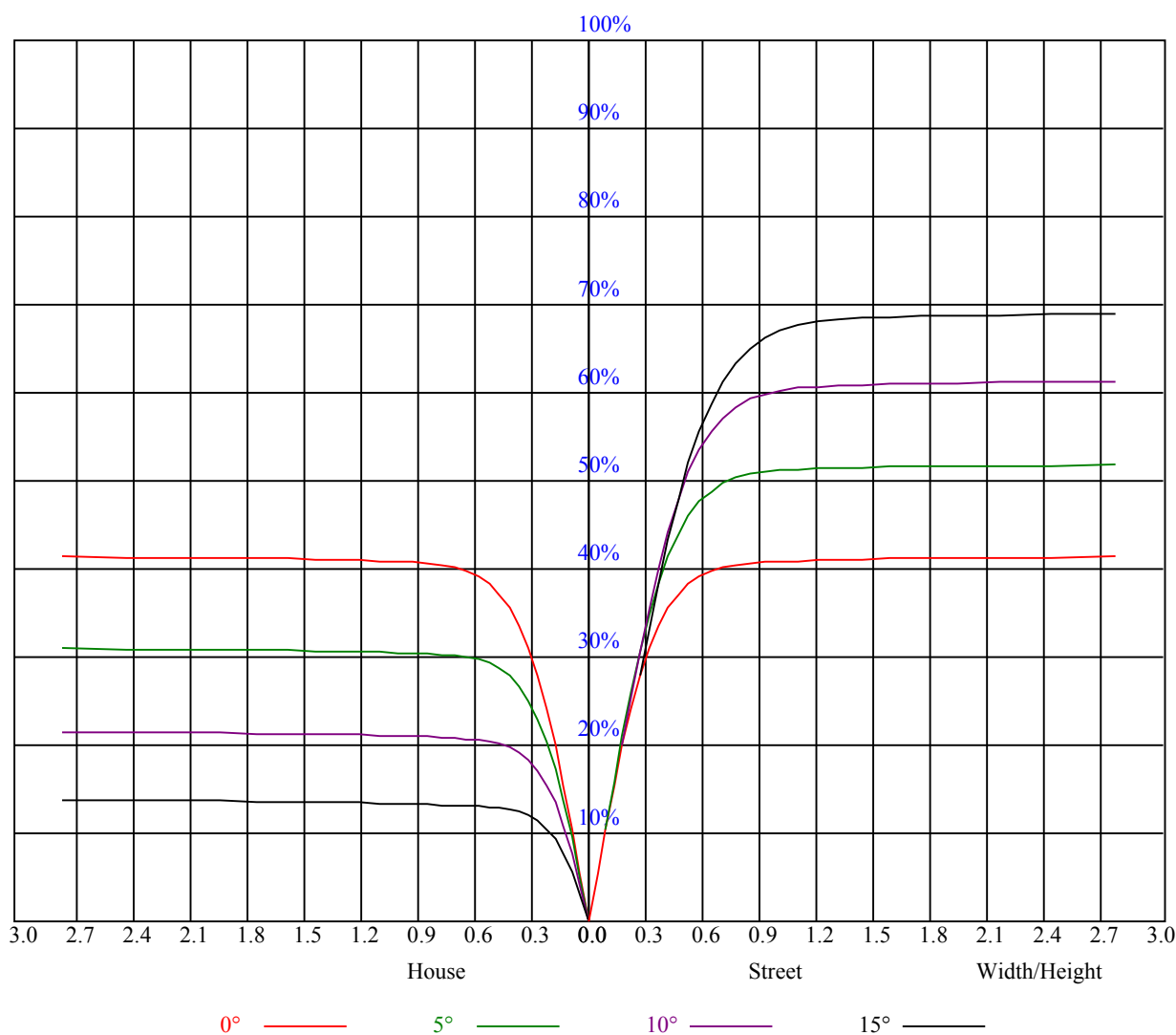


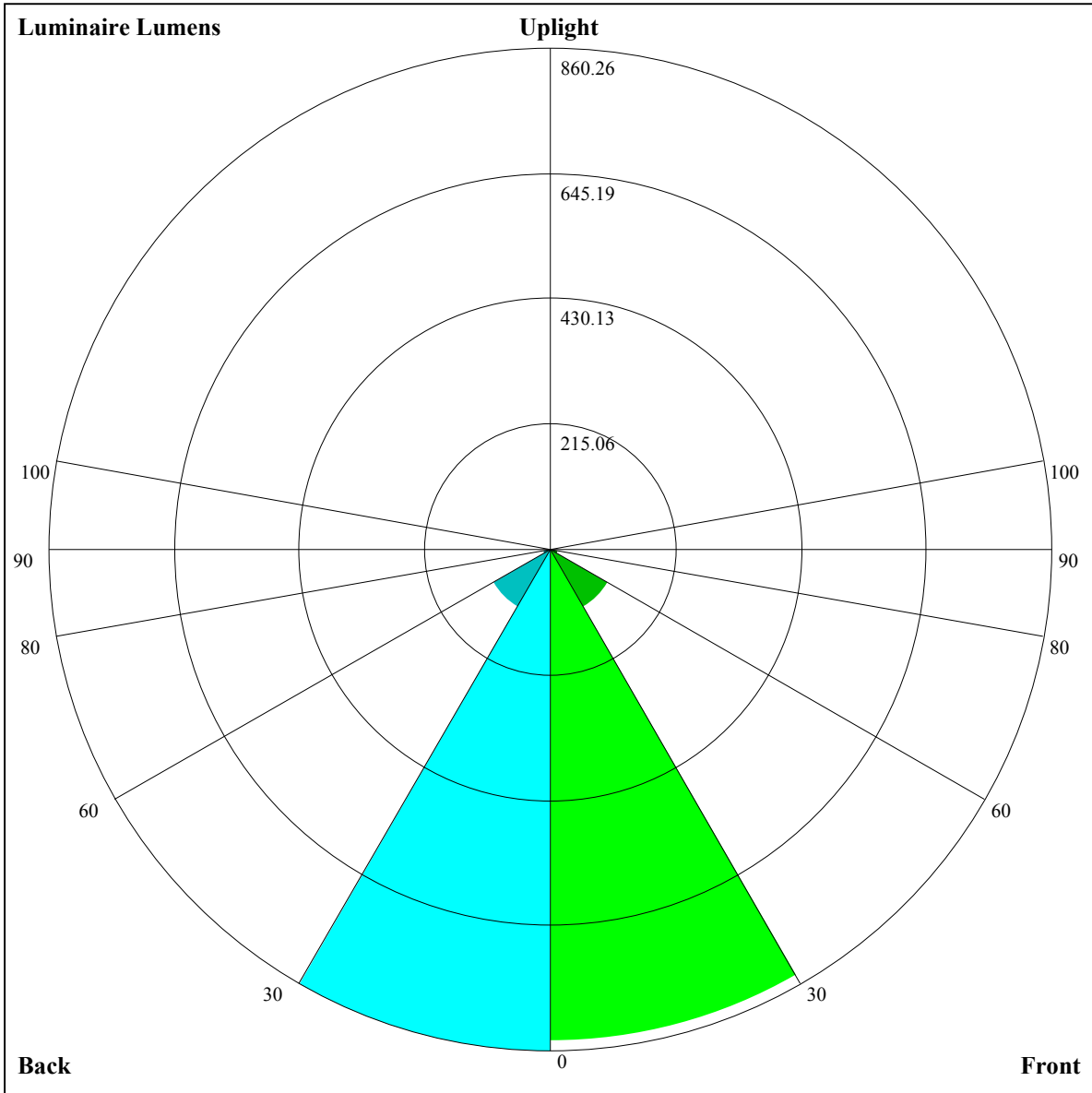
NT 2-2680-L 铝反光罩

Utilization factor table for indoor luminaire

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| 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 RHOF=20 CU |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0     | 0.99                                   | 0.99 | 0.99 | 0.97 | 0.97 | 0.97 | 0.93 | 0.93 | 0.93 | 0.89 | 0.89 | 0.89 | 0.85 | 0.85 | 0.85 | 0.83 |
| 1     | 0.93                                   | 0.91 | 0.89 | 0.91 | 0.89 | 0.88 | 0.88 | 0.86 | 0.85 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 |
| 2     | 0.87                                   | 0.84 | 0.82 | 0.86 | 0.83 | 0.81 | 0.83 | 0.81 | 0.79 | 0.81 | 0.79 | 0.78 | 0.79 | 0.77 | 0.76 | 0.75 |
| 3     | 0.83                                   | 0.79 | 0.76 | 0.81 | 0.78 | 0.75 | 0.79 | 0.77 | 0.74 | 0.77 | 0.75 | 0.73 | 0.76 | 0.74 | 0.72 | 0.71 |
| 4     | 0.78                                   | 0.74 | 0.71 | 0.77 | 0.74 | 0.71 | 0.76 | 0.73 | 0.70 | 0.74 | 0.71 | 0.69 | 0.73 | 0.70 | 0.68 | 0.67 |
| 5     | 0.74                                   | 0.70 | 0.67 | 0.74 | 0.70 | 0.67 | 0.72 | 0.69 | 0.66 | 0.71 | 0.68 | 0.66 | 0.70 | 0.67 | 0.65 | 0.64 |
| 6     | 0.71                                   | 0.67 | 0.64 | 0.70 | 0.66 | 0.63 | 0.69 | 0.66 | 0.63 | 0.68 | 0.65 | 0.63 | 0.67 | 0.64 | 0.62 | 0.61 |
| 7     | 0.68                                   | 0.63 | 0.60 | 0.67 | 0.63 | 0.60 | 0.66 | 0.63 | 0.60 | 0.65 | 0.62 | 0.60 | 0.64 | 0.62 | 0.59 | 0.58 |
| 8     | 0.65                                   | 0.61 | 0.58 | 0.64 | 0.60 | 0.58 | 0.64 | 0.60 | 0.57 | 0.63 | 0.59 | 0.57 | 0.62 | 0.59 | 0.57 | 0.56 |
| 9     | 0.62                                   | 0.58 | 0.55 | 0.62 | 0.58 | 0.55 | 0.61 | 0.57 | 0.55 | 0.60 | 0.57 | 0.55 | 0.60 | 0.57 | 0.55 | 0.54 |
| 10    | 0.60                                   | 0.56 | 0.53 | 0.59 | 0.55 | 0.53 | 0.59 | 0.55 | 0.53 | 0.58 | 0.55 | 0.52 | 0.58 | 0.55 | 0.52 | 0.51 |





Luminaire Lumens:

FL=843.72,FM=113.39,FH=12.18,FVH=4.83

BL=860.26,BM=113.65,BH=12.17,BVH=4.84

UL=0,UH=0

BUG Rating:B2-U0-G0



NT 2-2680-L 铝反光罩

| Intensity data(cd) |         |         |         |         |         |         |         |         |         | Appendix Page: 17 Total:19 |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------------------|
| C/γ(°)             | 0.0     | 1.0     | 2.0     | 3.0     | 4.0     | 5.0     | 6.0     | 7.0     | 8.0     |                            |
| 0.0                | 4416.75 | 4396.27 | 4354.13 | 4313.17 | 4237.67 | 4156.91 | 4070.30 | 3978.42 | 3843.23 |                            |
| 45.0               | 4407.39 | 4419.09 | 4392.76 | 4351.79 | 4301.46 | 4256.99 | 4185.00 | 4073.22 | 3970.81 |                            |
| 90.0               | 4421.43 | 4386.32 | 4353.55 | 4306.73 | 4264.01 | 4166.28 | 4070.30 | 3972.57 | 3857.86 |                            |
| 135.0              | 4410.90 | 4412.07 | 4397.44 | 4366.42 | 4319.02 | 4275.71 | 4197.88 | 4117.12 | 3995.39 |                            |
| 180.0              | 4416.75 | 4406.80 | 4378.71 | 4354.72 | 4334.23 | 4273.96 | 4180.91 | 4098.97 | 4004.17 |                            |
| 225.0              | 4407.39 | 4391.00 | 4369.35 | 4326.63 | 4253.47 | 4182.66 | 4106.00 | 3987.20 | 3870.74 |                            |
| 270.0              | 4421.43 | 4416.75 | 4396.85 | 4369.35 | 4334.82 | 4280.98 | 4190.85 | 4100.73 | 3984.86 |                            |
| 315.0              | 4410.90 | 4395.10 | 4364.67 | 4319.60 | 4255.23 | 4170.96 | 4057.42 | 3959.69 | 3852.59 |                            |
| 360.0              | 4416.75 | 4396.27 | 4354.13 | 4313.17 | 4237.67 | 4156.91 | 4070.30 | 3978.42 | 3843.23 |                            |
| C/γ(°)             | 9.0     | 10.0    | 11.0    | 12.0    | 13.0    | 14.0    | 15.0    | 16.0    | 17.0    |                            |
| 0.0                | 3720.33 | 3584.56 | 3442.94 | 3268.54 | 3117.55 | 2957.79 | 2788.07 | 2582.66 | 2418.21 |                            |
| 45.0               | 3864.30 | 3749.01 | 3579.29 | 3442.35 | 3259.18 | 3106.43 | 2947.84 | 2735.40 | 2566.27 |                            |
| 90.0               | 3708.04 | 3575.78 | 3429.48 | 3245.13 | 3085.36 | 2886.39 | 2719.01 | 2547.54 | 2382.51 |                            |
| 135.0              | 3890.63 | 3768.91 | 3637.23 | 3463.42 | 3320.63 | 3173.73 | 2970.08 | 2802.12 | 2586.17 |                            |
| 180.0              | 3892.39 | 3741.40 | 3612.65 | 3473.37 | 3291.36 | 3136.28 | 2928.52 | 2762.32 | 2596.70 |                            |
| 225.0              | 3747.25 | 3581.05 | 3442.35 | 3291.95 | 3138.03 | 2934.38 | 2773.44 | 2611.92 | 2441.03 |                            |
| 270.0              | 3884.20 | 3756.03 | 3633.14 | 3462.25 | 3321.80 | 3155.01 | 2994.07 | 2790.41 | 2625.38 |                            |
| 315.0              | 3726.19 | 3558.23 | 3419.53 | 3274.39 | 3135.11 | 2926.18 | 2762.32 | 2560.42 | 2392.46 |                            |
| 360.0              | 3720.33 | 3584.56 | 3442.94 | 3268.54 | 3117.55 | 2957.79 | 2788.07 | 2582.66 | 2418.21 |                            |
| C/γ(°)             | 18.0    | 19.0    | 20.0    | 21.0    | 22.0    | 23.0    | 24.0    | 25.0    | 26.0    |                            |
| 0.0                | 2215.72 | 2051.27 | 1883.90 | 1683.75 | 1530.42 | 1162.20 | 1162.20 | 1104.90 | 997.11  |                            |
| 45.0               | 2398.90 | 2235.62 | 2029.03 | 1865.17 | 1703.65 | 1552.66 | 1370.66 | 1241.91 | 1126.03 |                            |
| 90.0               | 2171.24 | 2007.97 | 1843.52 | 1684.92 | 1492.97 | 1158.69 | 1158.69 | 1100.22 | 966.91  |                            |
| 135.0              | 2420.55 | 2253.17 | 2086.39 | 1876.88 | 1717.69 | 1567.88 | 1385.87 | 1258.29 | 1133.64 |                            |
| 180.0              | 2424.06 | 2218.06 | 2046.59 | 1873.95 | 1708.92 | 1520.47 | 1380.02 | 1248.34 | 1097.94 |                            |
| 225.0              | 2227.42 | 2060.05 | 1896.19 | 1693.70 | 1541.54 | 1302.77 | 1140.19 | 1109.82 | 998.28  |                            |
| 270.0              | 2460.34 | 2297.07 | 2075.27 | 1903.21 | 1700.72 | 1551.49 | 1408.70 | 1244.83 | 1120.76 |                            |
| 315.0              | 2226.84 | 2016.16 | 1848.78 | 1687.85 | 1499.99 | 1147.92 | 1147.92 | 1116.78 | 983.59  |                            |
| 360.0              | 2215.72 | 2051.27 | 1883.90 | 1683.75 | 1530.42 | 1162.20 | 1162.20 | 1104.90 | 997.11  |                            |
| C/γ(°)             | 27.0    | 28.0    | 29.0    | 30.0    | 31.0    | 32.0    | 33.0    | 34.0    | 35.0    |                            |
| 0.0                | 891.82  | 772.67  | 687.41  | 604.83  | 527.05  | 436.05  | 369.69  | 311.81  | 259.90  |                            |
| 45.0               | 988.50  | 888.43  | 793.62  | 682.43  | 600.50  | 522.08  | 430.20  | 364.07  | 306.13  |                            |
| 90.0               | 864.55  | 770.27  | 660.54  | 577.62  | 498.79  | 408.72  | 344.76  | 288.22  | 225.14  |                            |
| 135.0              | 1017.18 | 885.50  | 786.60  | 695.31  | 589.97  | 509.20  | 434.30  | 351.78  | 308.47  |                            |
| 180.0              | 983.24  | 876.14  | 752.66  | 659.61  | 572.99  | 473.51  | 401.52  | 339.49  | 296.18  |                            |
| 225.0              | 867.71  | 768.52  | 672.77  | 584.17  | 484.98  | 412.06  | 347.97  | 289.39  | 224.61  |                            |
| 270.0              | 1006.65 | 900.13  | 777.24  | 682.43  | 594.65  | 512.72  | 419.08  | 353.53  | 295.60  |                            |
| 315.0              | 882.58  | 788.53  | 700.10  | 593.30  | 512.83  | 437.69  | 370.86  | 296.88  | 243.98  |                            |
| 360.0              | 891.82  | 772.67  | 687.41  | 604.83  | 527.05  | 436.05  | 369.69  | 311.81  | 259.90  |                            |
| C/γ(°)             | 36.0    | 37.0    | 38.0    | 39.0    | 40.0    | 41.0    | 42.0    | 43.0    | 44.0    |                            |
| 0.0                | 201.32  | 162.34  | 121.84  | 96.68   | 78.07   | 61.04   | 51.27   | 44.18   | 38.80   |                            |
| 45.0               | 306.13  | 189.79  | 151.11  | 119.50  | 95.16   | 72.98   | 59.99   | 48.34   | 42.02   |                            |
| 90.0               | 181.77  | 145.02  | 115.06  | 85.91   | 69.82   | 57.59   | 48.63   | 40.91   | 36.34   |                            |
| 135.0              | 308.47  | 179.55  | 141.80  | 111.13  | 87.49   | 66.77   | 55.19   | 46.82   | 40.73   |                            |
| 180.0              | 296.18  | 173.40  | 137.94  | 102.77  | 81.35   | 65.31   | 53.90   | 44.13   | 38.68   |                            |
| 225.0              | 180.31  | 142.79  | 105.34  | 83.04   | 63.26   | 52.49   | 44.77   | 39.33   | 34.18   |                            |
| 270.0              | 295.60  | 182.41  | 145.90  | 109.91  | 88.08   | 71.51   | 56.77   | 48.46   | 42.37   |                            |
| 315.0              | 185.98  | 147.01  | 115.99  | 86.50   | 69.58   | 57.53   | 48.57   | 40.85   | 36.34   |                            |
| 360.0              | 201.32  | 162.34  | 121.84  | 96.68   | 78.07   | 61.04   | 51.27   | 44.18   | 38.80   |                            |

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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    | 33.83 | 30.78 | 28.27 | 26.16 | 23.99 | 22.47 | 21.19 | 19.84 | 18.96 |
| 45.0   | 37.34 | 32.89 | 30.08 | 27.74 | 25.34 | 23.64 | 22.24 | 20.95 | 19.66 |
| 90.0   | 32.07 | 29.26 | 26.98 | 24.64 | 23.06 | 21.65 | 20.25 | 19.25 | 18.38 |
| 135.0  | 35.29 | 32.01 | 29.32 | 26.57 | 24.76 | 22.77 | 21.42 | 20.25 | 19.37 |
| 180.0  | 34.59 | 30.78 | 28.32 | 25.81 | 24.11 | 22.65 | 21.30 | 19.90 | 18.90 |
| 225.0  | 31.13 | 28.62 | 26.51 | 24.29 | 22.77 | 21.48 | 20.01 | 19.08 | 18.14 |
| 270.0  | 37.63 | 33.12 | 30.37 | 28.03 | 25.57 | 23.94 | 22.47 | 21.19 | 19.78 |
| 315.0  | 32.95 | 30.14 | 27.33 | 25.46 | 23.82 | 22.06 | 20.83 | 19.55 | 18.67 |
| 360.0  | 33.83 | 30.78 | 28.27 | 26.16 | 23.99 | 22.47 | 21.19 | 19.84 | 18.96 |
| C/γ(°) | 54.0  | 55.0  | 56.0  | 57.0  | 58.0  | 59.0  | 60.0  | 61.0  | 62.0  |
| 0.0    | 18.08 | 17.21 | 16.62 | 16.04 | 15.45 | 14.98 | 14.63 | 14.28 | 13.93 |
| 45.0   | 18.79 | 17.97 | 17.26 | 16.50 | 15.98 | 15.45 | 14.92 | 14.57 | 14.16 |
| 90.0   | 17.62 | 16.80 | 16.21 | 15.68 | 15.22 | 14.69 | 14.40 | 13.99 | 13.75 |
| 135.0  | 18.20 | 17.44 | 16.85 | 16.21 | 15.63 | 15.10 | 14.69 | 14.34 | 13.99 |
| 180.0  | 18.02 | 17.32 | 16.50 | 15.92 | 15.39 | 14.98 | 14.51 | 14.16 | 13.81 |
| 225.0  | 17.26 | 16.56 | 16.04 | 15.39 | 14.98 | 14.57 | 14.16 | 13.87 | 13.64 |
| 270.0  | 18.84 | 17.85 | 17.09 | 16.44 | 15.80 | 15.33 | 14.92 | 14.57 | 14.22 |
| 315.0  | 17.85 | 17.15 | 16.33 | 15.80 | 15.33 | 14.92 | 14.46 | 14.16 | 13.87 |
| 360.0  | 18.08 | 17.21 | 16.62 | 16.04 | 15.45 | 14.98 | 14.63 | 14.28 | 13.93 |
| C/γ(°) | 63.0  | 64.0  | 65.0  | 66.0  | 67.0  | 68.0  | 69.0  | 70.0  | 71.0  |
| 0.0    | 13.64 | 13.40 | 13.17 | 12.87 | 12.58 | 12.29 | 12.00 | 11.76 | 11.47 |
| 45.0   | 13.87 | 13.58 | 13.34 | 12.99 | 12.76 | 12.47 | 12.23 | 11.94 | 11.70 |
| 90.0   | 13.46 | 13.17 | 12.93 | 12.70 | 12.41 | 12.11 | 11.88 | 11.65 | 11.41 |
| 135.0  | 13.69 | 13.40 | 13.17 | 12.87 | 12.64 | 12.41 | 12.11 | 11.82 | 11.59 |
| 180.0  | 13.58 | 13.34 | 13.05 | 12.87 | 12.64 | 12.35 | 12.11 | 11.88 | 11.65 |
| 225.0  | 13.40 | 13.17 | 12.93 | 12.76 | 12.47 | 12.23 | 11.94 | 11.70 | 11.47 |
| 270.0  | 13.93 | 13.69 | 13.40 | 13.11 | 12.87 | 12.64 | 12.35 | 12.11 | 11.88 |
| 315.0  | 13.64 | 13.28 | 13.05 | 12.76 | 12.47 | 12.23 | 11.94 | 11.70 | 11.41 |
| 360.0  | 13.64 | 13.40 | 13.17 | 12.87 | 12.58 | 12.29 | 12.00 | 11.76 | 11.47 |
| C/γ(°) | 72.0  | 73.0  | 74.0  | 75.0  | 76.0  | 77.0  | 78.0  | 79.0  | 80.0  |
| 0.0    | 11.24 | 11.00 | 10.77 | 10.59 | 10.36 | 10.18 | 9.95  | 9.77  | 9.54  |
| 45.0   | 11.47 | 11.24 | 10.94 | 10.77 | 10.48 | 10.30 | 10.07 | 9.83  | 9.66  |
| 90.0   | 11.18 | 10.94 | 10.71 | 10.48 | 10.30 | 10.12 | 9.89  | 9.71  | 9.54  |
| 135.0  | 11.41 | 11.18 | 10.89 | 10.71 | 10.53 | 10.30 | 10.07 | 9.89  | 9.71  |
| 180.0  | 11.41 | 11.18 | 10.94 | 10.77 | 10.48 | 10.30 | 10.12 | 9.89  | 9.71  |
| 225.0  | 11.24 | 11.00 | 10.77 | 10.59 | 10.36 | 10.12 | 9.95  | 9.77  | 9.60  |
| 270.0  | 11.53 | 11.35 | 11.12 | 10.83 | 10.65 | 10.48 | 10.24 | 10.07 | 9.89  |
| 315.0  | 11.18 | 11.00 | 10.83 | 10.59 | 10.36 | 10.12 | 9.95  | 9.77  | 9.54  |
| 360.0  | 11.24 | 11.00 | 10.77 | 10.59 | 10.36 | 10.18 | 9.95  | 9.77  | 9.54  |
| C/γ(°) | 81.0  | 82.0  | 83.0  | 84.0  | 85.0  | 86.0  | 87.0  | 88.0  | 89.0  |
| 0.0    | 9.36  | 9.25  | 9.07  | 8.90  | 8.78  | 8.66  | 8.54  | 8.43  | 8.37  |
| 45.0   | 9.54  | 9.31  | 9.07  | 8.95  | 8.84  | 8.72  | 8.60  | 8.49  | 8.54  |
| 90.0   | 9.36  | 9.19  | 9.01  | 8.84  | 8.78  | 8.66  | 8.49  | 8.43  | 8.31  |
| 135.0  | 9.48  | 9.31  | 9.13  | 9.01  | 8.84  | 8.78  | 8.60  | 8.49  | 8.37  |
| 180.0  | 9.48  | 9.31  | 9.13  | 9.01  | 8.90  | 8.78  | 8.60  | 8.49  | 8.37  |
| 225.0  | 9.36  | 9.19  | 9.01  | 8.90  | 8.78  | 8.66  | 8.49  | 8.37  | 8.31  |
| 270.0  | 9.66  | 9.42  | 9.25  | 9.01  | 8.90  | 8.72  | 8.60  | 8.49  | 8.31  |
| 315.0  | 9.36  | 9.19  | 9.01  | 8.84  | 8.72  | 8.60  | 8.49  | 8.37  | 8.25  |
| 360.0  | 9.36  | 9.25  | 9.07  | 8.90  | 8.78  | 8.66  | 8.54  | 8.43  | 8.37  |

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Intensity data(cd)

|               |             |
|---------------|-------------|
| <b>C/γ(°)</b> | <b>90.0</b> |
| <b>0.0</b>    | <b>8.37</b> |
| <b>45.0</b>   | <b>8.37</b> |
| <b>90.0</b>   | <b>8.31</b> |
| <b>135.0</b>  | <b>8.25</b> |
| <b>180.0</b>  | <b>8.31</b> |
| <b>225.0</b>  | <b>8.25</b> |
| <b>270.0</b>  | <b>8.25</b> |
| <b>315.0</b>  | <b>8.31</b> |
| <b>360.0</b>  | <b>8.37</b> |