



Bell-Southcn Testing Laboratory(Shenzhen)

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ACCREDITED

Address:Junxiangda Building, West of Zhongshan Park Road, Nanshan District, Shenzhen, Guangdong, China

HAWKO LIGHTING

LumCAT: hyperFLEXPLUS-IP20-4000K-Samsung

Luminaire: LED Strip light

Report No: BSR1604190301-9

Test No: S01

LampCAT:

Lamp flux(lm)

Number of Lamps: 128

Length(mm): 1000

Phm Type: C

Voltage(V): 24.0100

Current(A): 0.9440

Power (W): 22.6700

PF: 1.0000

Ballast type:

Width(mm): 22

Height(mm): 7

Photometric Results

Lumens(lm): 3448.96

Lumens(lm)/Power(W): 152.14

Central intensity(cd): 1165.357

Maximum intensity(cd): 1165.357

Angle of maximum intensity: C=0.0 γ =0.0 Beam

Angle(50%Imax): [C0/180]Total=114.7

[C90/270]Total=115.4

Field angle(10%Imax): [C0/180]Total=162.0

[C90/270]Total=161.1

Maximum s/h(1/2): C0_180=1.28 C90_270=1.30

Maximum s/h(1/4): C0_180=2.58 C90_270=2.00

Up flux rate of LUM(%): 1.19%

Down flux rate of LUM(%): 98.81%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 77.584%

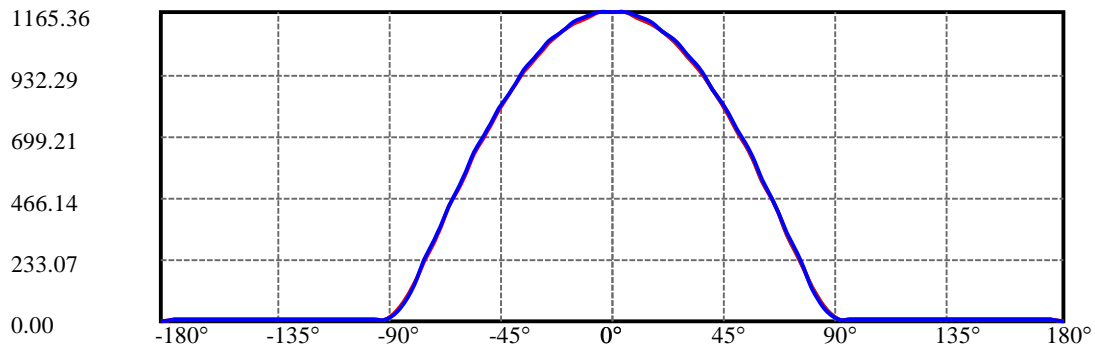
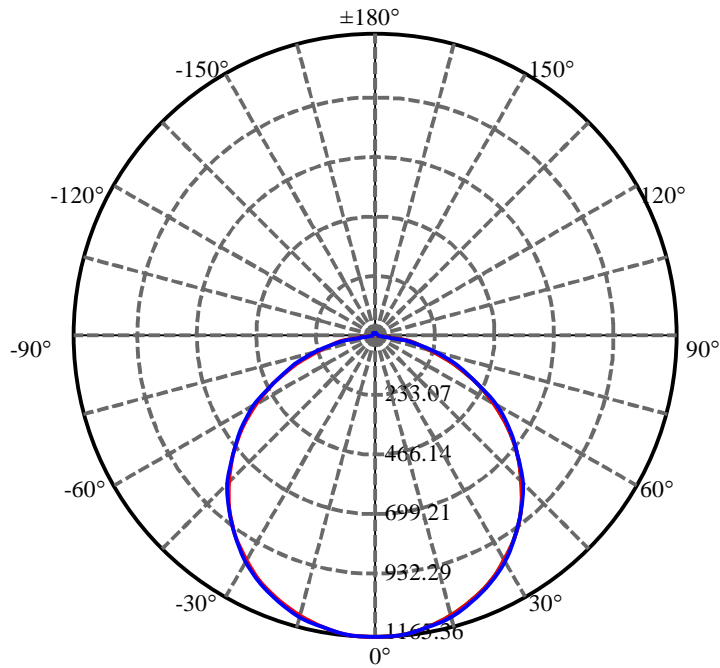
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 1165.357 | .000 | .000 | .000% | .000% |
| 5.0 | 1160.588 | 27.806 | 27.806 | .806% | .806% |
| 10.0 | 1145.238 | 82.487 | 110.293 | 2.392% | 3.198% |
| 15.0 | 1122.337 | 134.511 | 244.804 | 3.900% | 7.098% |
| 20.0 | 1089.039 | 182.249 | 427.052 | 5.284% | 12.382% |
| 25.0 | 1047.720 | 224.107 | 651.159 | 6.498% | 18.880% |
| 30.0 | 997.529 | 258.828 | 909.987 | 7.505% | 26.384% |
| 35.0 | 939.806 | 285.286 | 1195.273 | 8.272% | 34.656% |
| 40.0 | 872.463 | 302.363 | 1497.636 | 8.767% | 43.423% |
| 45.0 | 799.426 | 309.564 | 1807.200 | 8.976% | 52.398% |
| 50.0 | 718.793 | 306.778 | 2113.978 | 8.895% | 61.293% |
| 55.0 | 629.575 | 293.180 | 2407.158 | 8.501% | 69.794% |
| 60.0 | 532.880 | 268.698 | 2675.856 | 7.791% | 77.584% |
| 65.0 | 432.701 | 234.735 | 2910.591 | 6.806% | 84.390% |
| 70.0 | 327.328 | 192.444 | 3103.035 | 5.580% | 89.970% |
| 75.0 | 225.509 | 144.503 | 3247.538 | 4.190% | 94.160% |
| 80.0 | 129.044 | 94.869 | 3342.406 | 2.751% | 96.910% |
| 85.0 | 50.653 | 48.828 | 3391.234 | 1.416% | 98.326% |
| 90.0 | 10.201 | 16.662 | 3407.897 | .483% | 98.809% |
| 95.0 | 5.815 | 4.385 | 3412.282 | .127% | 98.936% |
| 100.0 | 5.575 | 3.095 | 3415.377 | .090% | 99.026% |
| 105.0 | 5.623 | 2.996 | 3418.373 | .087% | 99.113% |
| 110.0 | 5.830 | 2.993 | 3421.366 | .087% | 99.200% |
| 115.0 | 6.068 | 3.013 | 3424.379 | .087% | 99.287% |
| 120.0 | 6.317 | 3.011 | 3427.389 | .087% | 99.374% |
| 125.0 | 6.561 | 2.977 | 3430.366 | .086% | 99.461% |
| 130.0 | 6.785 | 2.902 | 3433.268 | .084% | 99.545% |
| 135.0 | 6.952 | 2.776 | 3436.043 | .080% | 99.625% |
| 140.0 | 7.062 | 2.595 | 3438.638 | .075% | 99.701% |
| 145.0 | 7.048 | 2.354 | 3440.992 | .068% | 99.769% |
| 150.0 | 7.059 | 2.077 | 3443.070 | .060% | 99.829% |
| 155.0 | 7.055 | 1.786 | 3444.856 | .052% | 99.881% |
| 160.0 | 7.106 | 1.485 | 3446.341 | .043% | 99.924% |
| 165.0 | 7.162 | 1.176 | 3447.517 | .034% | 99.958% |
| 170.0 | 7.159 | .849 | 3448.366 | .025% | 99.983% |
| 175.0 | 7.100 | .510 | 3448.876 | .015% | 99.997% |
| 180.0 | .000 | .085 | 3448.961 | .002% | 100.000% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Fixt |
|---------|---------|---------|
| 0-30 | 909.99 | 26.38% |
| 0-40 | 1497.64 | 43.42% |
| 0-60 | 2675.86 | 77.58% |
| 0-90 | 3407.90 | 98.81% |
| 0-120 | 3427.39 | 99.37% |
| 0-180 | 3448.96 | 100.00% |
| 60-90 | 1000.74 | 29.02% |
| 90-120 | 36.16 | 1.05% |
| 90-130 | 42.03 | 1.22% |
| 90-150 | 51.84 | 1.50% |
| 90-180 | 57.64 | 1.67% |
| 0-61.77 | 2759.17 | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 110.29 |
| 10-20 | 316.76 |
| 20-30 | 482.93 |
| 30-40 | 587.65 |
| 40-50 | 616.34 |
| 50-60 | 561.88 |
| 60-70 | 427.18 |
| 70-80 | 239.37 |
| 80-90 | 65.49 |
| 90-100 | 7.48 |
| 100-110 | 5.99 |
| 110-120 | 6.02 |
| 120-130 | 5.88 |
| 130-140 | 5.37 |
| 140-150 | 4.43 |
| 150-160 | 3.27 |
| 160-170 | 2.03 |
| 170-180 | 0.51 |



C0(Max):

C0/C180:

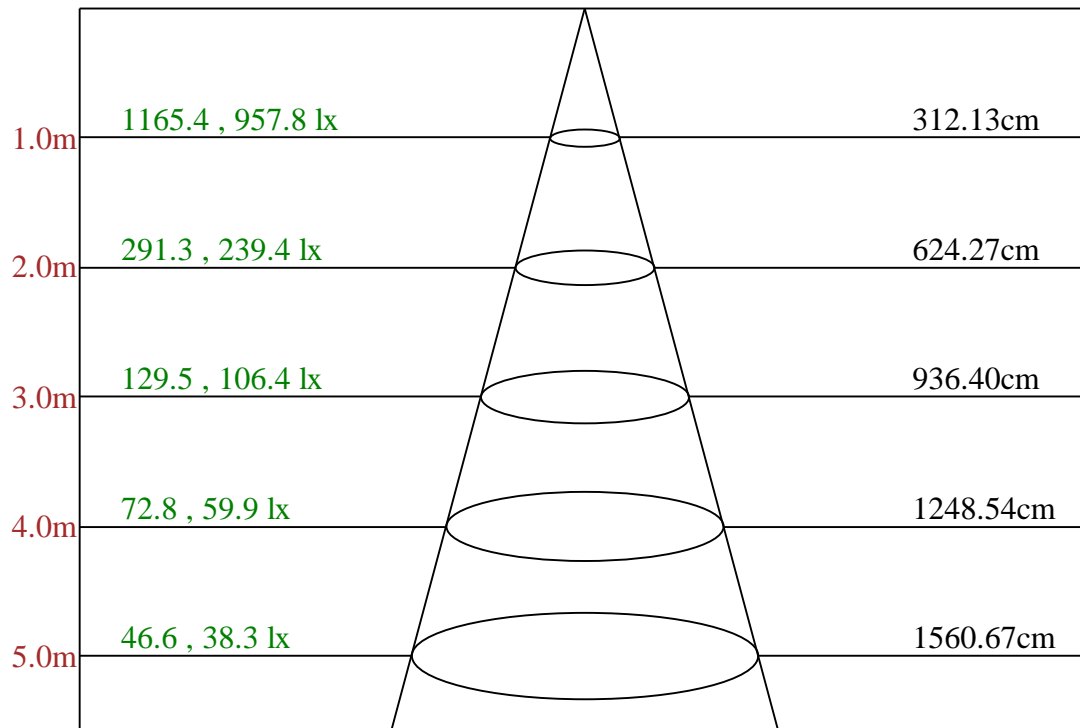
C90/C270:

Field angle(10% I_{max}):C0/180Left:81.0 Right:81.0

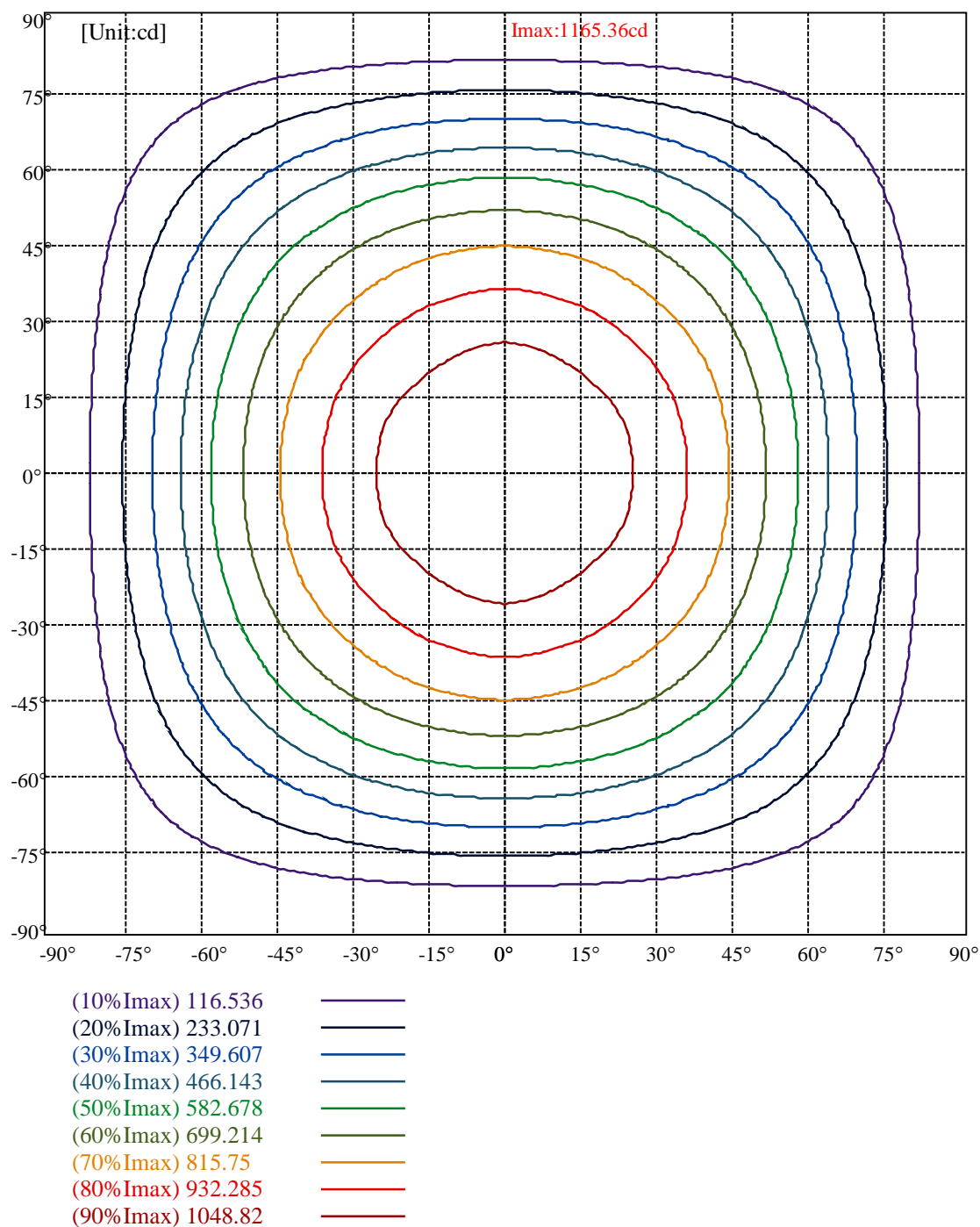
:C90/270Left:80.6 Right:80.6

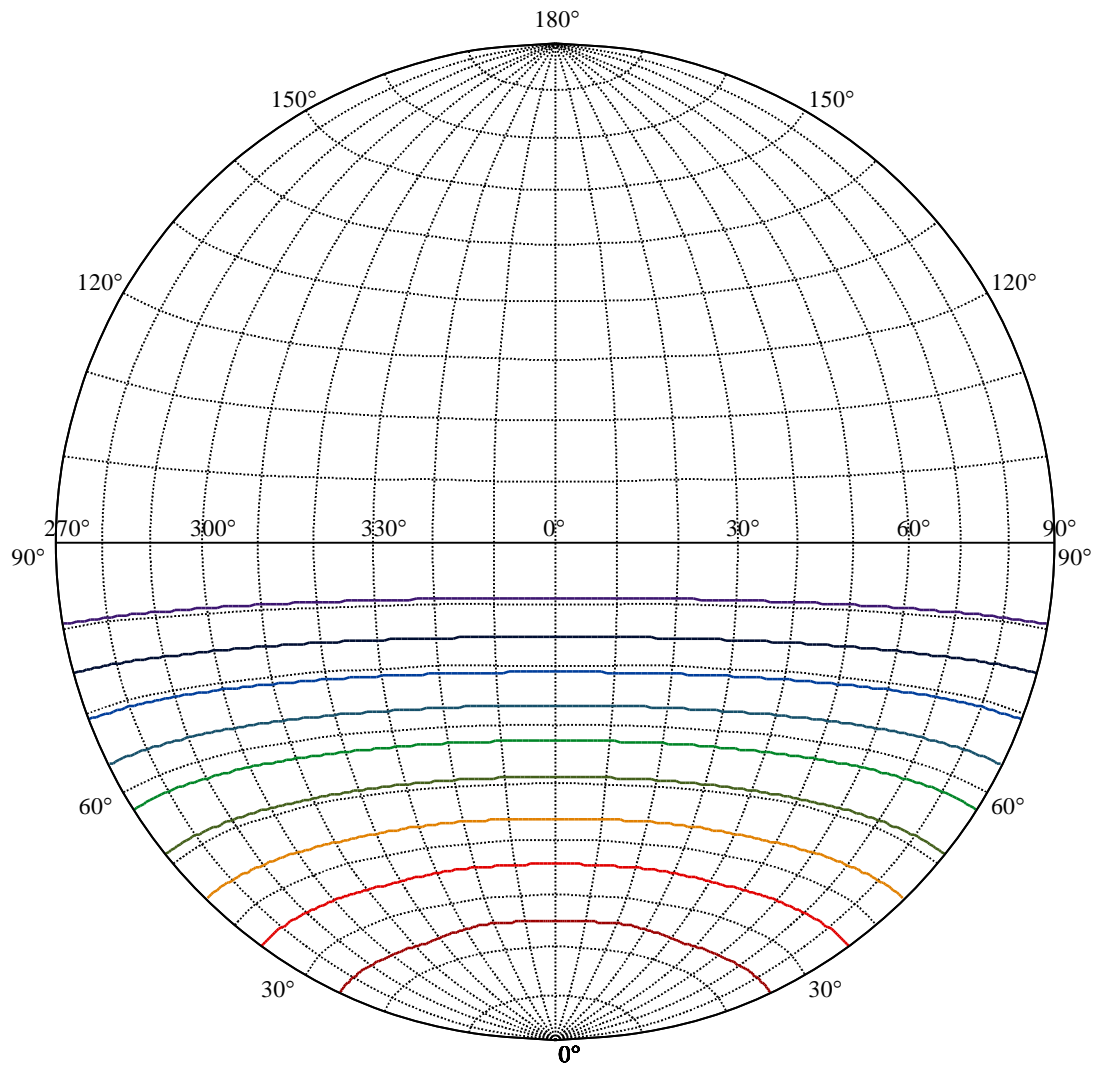
Beam Angle(50% I_{max}):C0/180Left:57.3 Right:57.3

:C90/270Left:57.7 Right:57.7



Max , Ave Beam angle of C0plane114.70














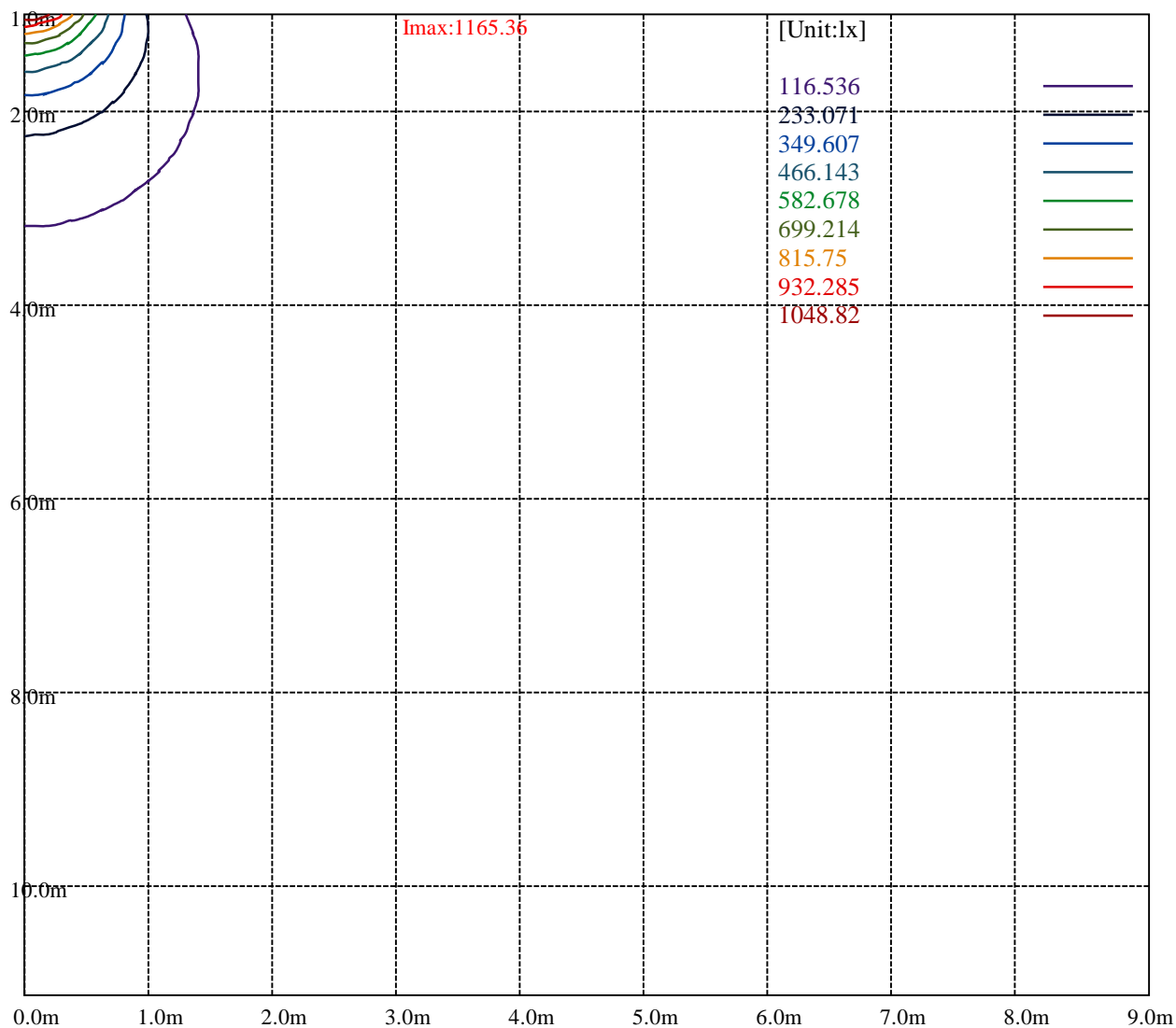
House

[Unit:cd]

Road

Imax:1165.36

| | | |
|-----------|---------|---|
| (10%Imax) | 116.536 |  |
| (20%Imax) | 233.071 |  |
| (30%Imax) | 349.607 |  |
| (40%Imax) | 466.143 |  |
| (50%Imax) | 582.678 |  |
| (60%Imax) | 699.214 |  |
| (70%Imax) | 815.75 |  |
| (80%Imax) | 932.285 |  |
| (90%Imax) | 1048.82 |  |



Luminance Table

| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C0 | 38931 | 36857 | 34193 | 31134 | 27599 | 22910 | 18123 | 12401 | 5827 |
| C45 | 41595 | 39783 | 37468 | 34527 | 31113 | 26576 | 21262 | 14663 | 7503 |
| C90 | 51476 | 50599 | 49778 | 48331 | 46206 | 43391 | 39325 | 31590 | 22310 |

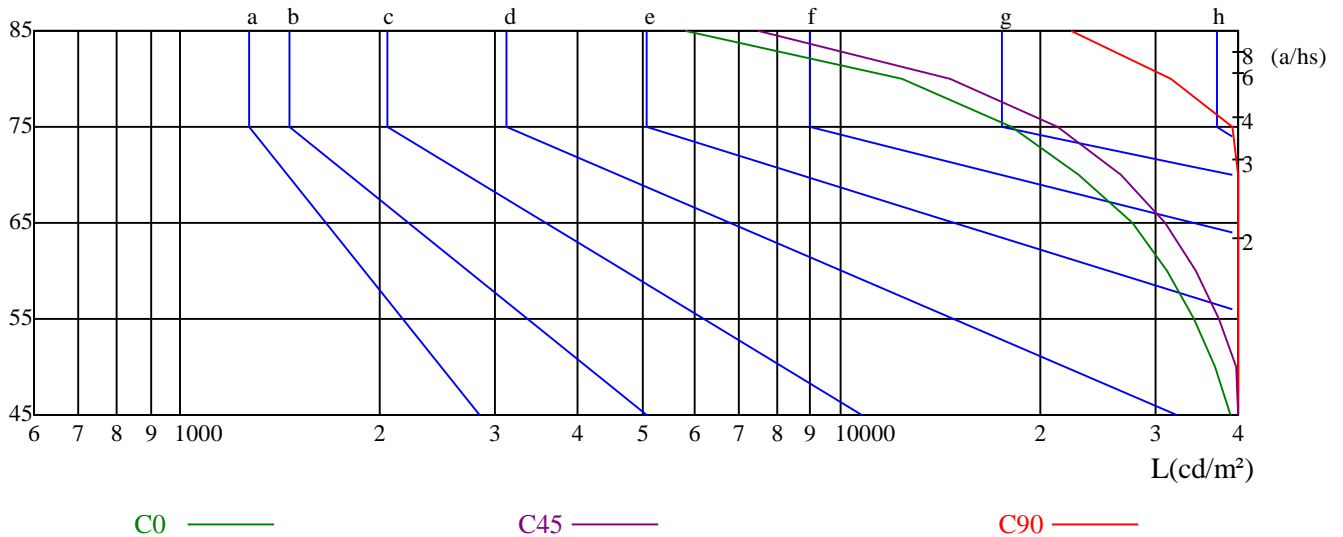
| L横(65) | L纵(65) | L45(65) | L横(75) | L纵(75) | L45(75) | L横(85) | L纵(85) | L45(85) |
|--------|--------|---------|--------|--------|---------|--------|--------|---------|
| 46431 | 46900 | 46455 | 39644 | 40353 | 39507 | 27018 | 24095 | 27222 |

Glare Table

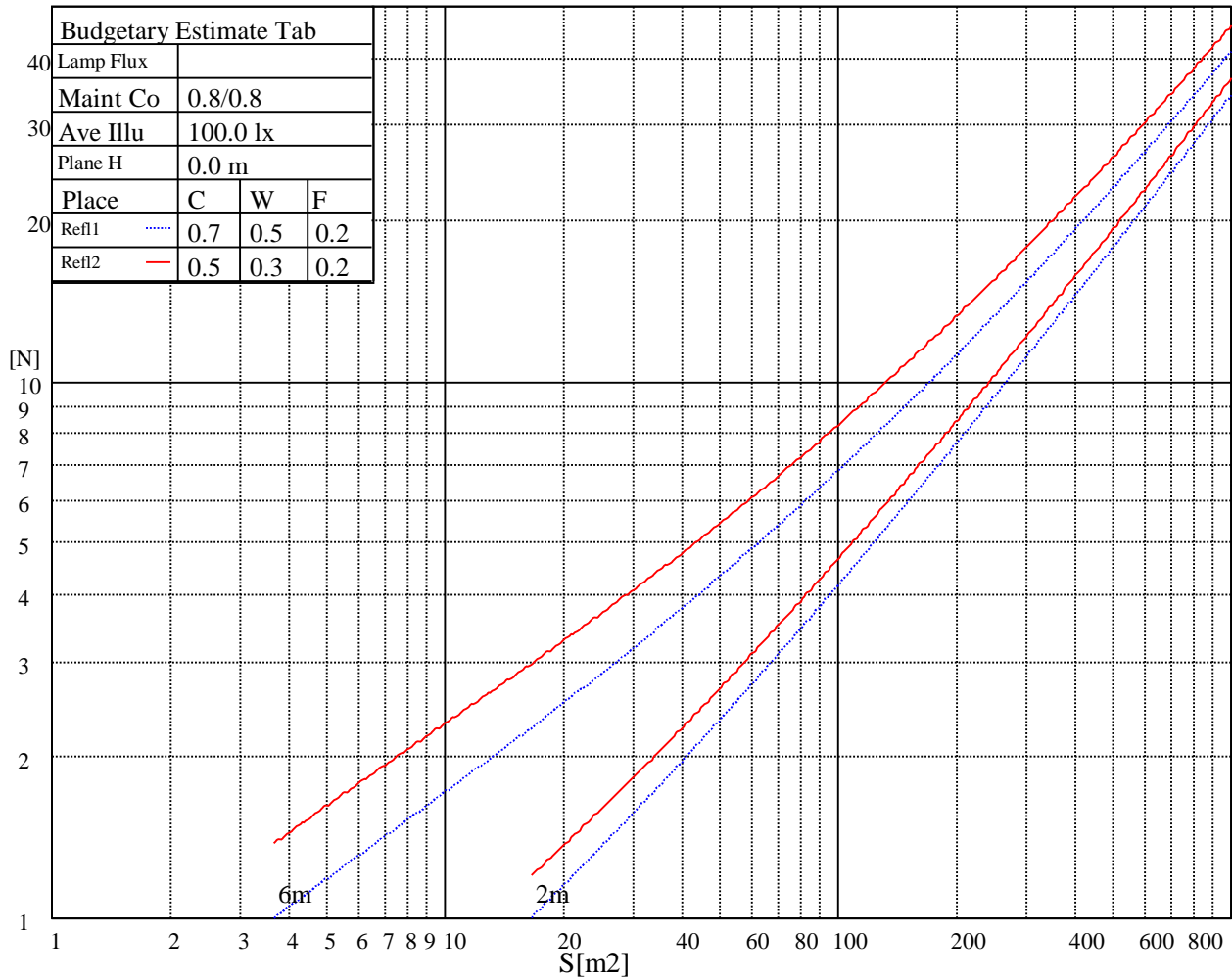
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|------------|------------|------------|------------|------------|
| 1.15 | A | 2000 | 1000 | 500 | ≤ 300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | ≤ 300 | | | |
| 1.85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

$\gamma(^{\circ})$



| Illuminatin 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 | 19.8 | 21.1 | 20.1 | 21.4 | 21.7 | 19.4 | 20.7 | 19.7 | 21.0 | 21.3 |
| | 3H | 21.4 | 22.6 | 21.7 | 22.9 | 23.2 | 20.7 | 22.0 | 21.1 | 22.3 | 22.6 |
| | 4H | 21.8 | 22.9 | 22.2 | 23.2 | 23.6 | 21.1 | 22.1 | 21.5 | 22.5 | 22.8 |
| | 6H | 22.3 | 23.3 | 22.7 | 23.7 | 24.1 | 21.4 | 22.5 | 21.8 | 22.8 | 23.2 |
| | 8H | 22.5 | 23.5 | 22.9 | 23.8 | 24.2 | 21.5 | 22.6 | 21.9 | 22.9 | 23.3 |
| | 12H | 22.4 | 23.2 | 22.8 | 23.6 | 24.0 | 21.4 | 22.2 | 21.9 | 22.6 | 23.1 |
| 4H | 2H | 20.2 | 21.2 | 20.6 | 21.6 | 21.9 | 19.9 | 20.9 | 20.3 | 21.2 | 21.6 |
| | 3H | 21.9 | 22.7 | 22.4 | 23.1 | 23.6 | 21.4 | 22.2 | 21.9 | 22.6 | 23.0 |
| | 4H | 22.7 | 23.5 | 23.2 | 23.9 | 24.4 | 22.1 | 22.8 | 22.5 | 23.3 | 23.7 |
| | 6H | 23.3 | 24.1 | 23.7 | 24.5 | 24.9 | 22.5 | 23.3 | 23.0 | 23.7 | 24.1 |
| | 8H | 23.3 | 23.8 | 23.8 | 24.3 | 24.8 | 22.5 | 22.9 | 23.0 | 23.4 | 24.0 |
| | 12H | 23.4 | 23.9 | 24.0 | 24.4 | 24.9 | 22.6 | 23.0 | 23.1 | 23.5 | 24.0 |
| 8H | 4H | 22.9 | 23.3 | 23.4 | 23.8 | 24.3 | 22.3 | 22.7 | 22.8 | 23.2 | 23.7 |
| | 6H | 23.5 | 24.0 | 24.0 | 24.5 | 25.0 | 22.8 | 23.3 | 23.3 | 23.8 | 24.3 |
| | 8H | 23.8 | 24.2 | 24.3 | 24.7 | 25.3 | 23.0 | 23.4 | 23.5 | 23.9 | 24.5 |
| | 12H | 23.9 | 24.4 | 24.5 | 24.9 | 25.4 | 23.1 | 23.5 | 23.6 | 24.0 | 24.6 |
| 12H | 4H | 22.9 | 23.4 | 23.4 | 23.8 | 24.4 | 22.3 | 22.8 | 22.8 | 23.3 | 23.8 |
| | 6H | 23.6 | 24.0 | 24.1 | 24.5 | 25.1 | 22.9 | 23.3 | 23.4 | 23.8 | 24.4 |
| | 8H | 23.8 | 24.3 | 24.4 | 24.8 | 25.3 | 23.1 | 23.5 | 23.6 | 24.0 | 24.6 |
| Variation with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | | 0.3/-0.6 | | | | | 0.3/-0.5 | | | | |
| S = 1.5H | | 0.6/-0.6 | | | | | 0.6/-0.7 | | | | |
| S = 2.0H | | 0.9/-0.7 | | | | | 1.0/-0.9 | | | | |
| Standard tables: | | BK3 | | | | | BK3 | | | | |
| Uncorrected UGR | | 10.8 | | | | | 10.1 | | | | |



| 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 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.10 | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.01 | 1.01 | 1.01 | 0.99 |
| 1 | 1.04 | 0.99 | 0.95 | 1.01 | 0.97 | 0.94 | 0.97 | 0.93 | 0.90 | 0.93 | 0.90 | 0.87 | 0.89 | 0.87 | 0.85 | 0.82 |
| 2 | 0.90 | 0.83 | 0.77 | 0.88 | 0.82 | 0.76 | 0.84 | 0.79 | 0.74 | 0.81 | 0.76 | 0.73 | 0.78 | 0.74 | 0.71 | 0.68 |
| 3 | 0.79 | 0.71 | 0.64 | 0.77 | 0.70 | 0.63 | 0.74 | 0.68 | 0.62 | 0.71 | 0.66 | 0.61 | 0.68 | 0.64 | 0.60 | 0.57 |
| 4 | 0.70 | 0.61 | 0.54 | 0.68 | 0.60 | 0.54 | 0.66 | 0.59 | 0.53 | 0.63 | 0.57 | 0.52 | 0.61 | 0.56 | 0.51 | 0.49 |
| 5 | 0.62 | 0.53 | 0.47 | 0.61 | 0.53 | 0.46 | 0.59 | 0.51 | 0.46 | 0.57 | 0.50 | 0.45 | 0.55 | 0.49 | 0.44 | 0.42 |
| 6 | 0.56 | 0.47 | 0.41 | 0.55 | 0.46 | 0.40 | 0.53 | 0.45 | 0.40 | 0.51 | 0.45 | 0.39 | 0.50 | 0.44 | 0.39 | 0.37 |
| 7 | 0.51 | 0.42 | 0.36 | 0.50 | 0.41 | 0.36 | 0.48 | 0.41 | 0.35 | 0.47 | 0.40 | 0.35 | 0.45 | 0.39 | 0.34 | 0.32 |
| 8 | 0.46 | 0.38 | 0.32 | 0.45 | 0.37 | 0.32 | 0.44 | 0.37 | 0.31 | 0.43 | 0.36 | 0.31 | 0.41 | 0.35 | 0.31 | 0.29 |
| 9 | 0.42 | 0.34 | 0.29 | 0.42 | 0.34 | 0.28 | 0.41 | 0.33 | 0.28 | 0.39 | 0.33 | 0.28 | 0.38 | 0.32 | 0.28 | 0.26 |
| 10 | 0.39 | 0.31 | 0.26 | 0.39 | 0.31 | 0.26 | 0.37 | 0.30 | 0.26 | 0.36 | 0.30 | 0.25 | 0.35 | 0.30 | 0.25 | 0.23 |

Intensity data(cd)

| C/γ(°) | 0.0 | 5.0 | 10.0 | 15.0 | 20.0 | 25.0 | 30.0 | 35.0 | 40.0 |
|--------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0.0 | 1165.36 | 1164.52 | 1144.26 | 1124.67 | 1091.91 | 1048.52 | 1000.31 | 941.53 | 873.66 |
| 22.5 | 1165.36 | 1163.44 | 1147.66 | 1125.63 | 1092.62 | 1051.10 | 1000.13 | 941.57 | 873.96 |
| 45.0 | 1165.36 | 1157.83 | 1142.71 | 1118.23 | 1083.60 | 1041.79 | 992.10 | 935.03 | 868.27 |
| 67.5 | 1165.36 | 1157.90 | 1143.85 | 1119.79 | 1086.70 | 1046.48 | 995.51 | 938.95 | 871.37 |
| 90.0 | 1165.36 | 1161.85 | 1149.21 | 1126.74 | 1094.58 | 1054.50 | 1004.45 | 945.82 | 878.84 |
| 112.5 | 1165.36 | 1157.90 | 1143.85 | 1119.79 | 1086.70 | 1046.48 | 995.51 | 938.95 | 871.37 |
| 135.0 | 1165.36 | 1157.83 | 1142.71 | 1118.23 | 1083.60 | 1041.79 | 992.10 | 935.03 | 868.27 |
| 157.5 | 1165.36 | 1163.44 | 1147.66 | 1125.63 | 1092.62 | 1051.10 | 1000.13 | 941.57 | 873.96 |
| 180.0 | 1165.36 | 1164.52 | 1144.26 | 1124.67 | 1091.91 | 1048.52 | 1000.31 | 941.53 | 873.66 |
| 202.5 | 1165.36 | 1163.44 | 1147.66 | 1125.63 | 1092.62 | 1051.10 | 1000.13 | 941.57 | 873.96 |
| 225.0 | 1165.36 | 1157.83 | 1142.71 | 1118.23 | 1083.60 | 1041.79 | 992.10 | 935.03 | 868.27 |
| 247.5 | 1165.36 | 1157.90 | 1143.85 | 1119.79 | 1086.70 | 1046.48 | 995.51 | 938.95 | 871.37 |
| 270.0 | 1165.36 | 1161.85 | 1149.21 | 1126.74 | 1094.58 | 1054.50 | 1004.45 | 945.82 | 878.84 |
| 292.5 | 1165.36 | 1157.90 | 1143.85 | 1119.79 | 1086.70 | 1046.48 | 995.51 | 938.95 | 871.37 |
| 315.0 | 1165.36 | 1157.83 | 1142.71 | 1118.23 | 1083.60 | 1041.79 | 992.10 | 935.03 | 868.27 |
| 337.5 | 1165.36 | 1163.44 | 1147.66 | 1125.63 | 1092.62 | 1051.10 | 1000.13 | 941.57 | 873.96 |
| 360.0 | 1165.36 | 1164.52 | 1144.26 | 1124.67 | 1091.91 | 1048.52 | 1000.31 | 941.53 | 873.66 |
| | | | | | | | | | |
| C/γ(°) | 45.0 | 50.0 | 55.0 | 60.0 | 65.0 | 70.0 | 75.0 | 80.0 | 85.0 |
| 0.0 | 798.33 | 718.85 | 627.54 | 531.21 | 431.69 | 323.09 | 225.73 | 132.86 | 51.80 |
| 22.5 | 799.88 | 719.88 | 628.47 | 531.13 | 430.81 | 324.27 | 224.72 | 131.02 | 51.99 |
| 45.0 | 795.85 | 716.74 | 628.06 | 531.06 | 431.92 | 326.30 | 224.96 | 129.06 | 52.20 |
| 67.5 | 799.62 | 718.37 | 630.79 | 534.68 | 434.21 | 330.81 | 224.61 | 126.93 | 49.42 |
| 90.0 | 806.39 | 721.51 | 634.42 | 538.08 | 436.06 | 332.77 | 229.77 | 125.47 | 46.20 |
| 112.5 | 799.62 | 718.37 | 630.79 | 534.68 | 434.21 | 330.81 | 224.61 | 126.93 | 49.42 |
| 135.0 | 795.85 | 716.74 | 628.06 | 531.06 | 431.92 | 326.30 | 224.96 | 129.06 | 52.20 |
| 157.5 | 799.88 | 719.88 | 628.47 | 531.13 | 430.81 | 324.27 | 224.72 | 131.02 | 51.99 |
| 180.0 | 798.33 | 718.85 | 627.54 | 531.21 | 431.69 | 323.09 | 225.73 | 132.86 | 51.80 |
| 202.5 | 799.88 | 719.88 | 628.47 | 531.13 | 430.81 | 324.27 | 224.72 | 131.02 | 51.99 |
| 225.0 | 795.85 | 716.74 | 628.06 | 531.06 | 431.92 | 326.30 | 224.96 | 129.06 | 52.20 |
| 247.5 | 799.62 | 718.37 | 630.79 | 534.68 | 434.21 | 330.81 | 224.61 | 126.93 | 49.42 |
| 270.0 | 806.39 | 721.51 | 634.42 | 538.08 | 436.06 | 332.77 | 229.77 | 125.47 | 46.20 |
| 292.5 | 799.62 | 718.37 | 630.79 | 534.68 | 434.21 | 330.81 | 224.61 | 126.93 | 49.42 |
| 315.0 | 795.85 | 716.74 | 628.06 | 531.06 | 431.92 | 326.30 | 224.96 | 129.06 | 52.20 |
| 337.5 | 799.88 | 719.88 | 628.47 | 531.13 | 430.81 | 324.27 | 224.72 | 131.02 | 51.99 |
| 360.0 | 798.33 | 718.85 | 627.54 | 531.21 | 431.69 | 323.09 | 225.73 | 132.86 | 51.80 |
| | | | | | | | | | |
| C/γ(°) | 90.0 | 95.0 | 100.0 | 105.0 | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 |
| 0.0 | 8.35 | 6.10 | 5.78 | 5.74 | 5.96 | 6.20 | 6.45 | 6.69 | 6.91 |
| 22.5 | 11.30 | 6.07 | 5.72 | 5.69 | 5.90 | 6.15 | 6.39 | 6.64 | 6.86 |
| 45.0 | 11.17 | 5.86 | 5.52 | 5.63 | 5.84 | 6.08 | 6.32 | 6.57 | 6.79 |
| 67.5 | 9.94 | 5.54 | 5.46 | 5.55 | 5.75 | 5.98 | 6.24 | 6.47 | 6.70 |
| 90.0 | 8.45 | 5.48 | 5.43 | 5.49 | 5.70 | 5.93 | 6.18 | 6.43 | 6.66 |
| 112.5 | 9.94 | 5.54 | 5.46 | 5.55 | 5.75 | 5.98 | 6.24 | 6.47 | 6.70 |
| 135.0 | 11.17 | 5.86 | 5.52 | 5.63 | 5.84 | 6.08 | 6.32 | 6.57 | 6.79 |
| 157.5 | 11.30 | 6.07 | 5.72 | 5.69 | 5.90 | 6.15 | 6.39 | 6.64 | 6.86 |
| 180.0 | 8.35 | 6.10 | 5.78 | 5.74 | 5.96 | 6.20 | 6.45 | 6.69 | 6.91 |
| 202.5 | 11.30 | 6.07 | 5.72 | 5.69 | 5.90 | 6.15 | 6.39 | 6.64 | 6.86 |
| 225.0 | 11.17 | 5.86 | 5.52 | 5.63 | 5.84 | 6.08 | 6.32 | 6.57 | 6.79 |
| 247.5 | 9.94 | 5.54 | 5.46 | 5.55 | 5.75 | 5.98 | 6.24 | 6.47 | 6.70 |
| 270.0 | 8.45 | 5.48 | 5.43 | 5.49 | 5.70 | 5.93 | 6.18 | 6.43 | 6.66 |
| 292.5 | 9.94 | 5.54 | 5.46 | 5.55 | 5.75 | 5.98 | 6.24 | 6.47 | 6.70 |
| 315.0 | 11.17 | 5.86 | 5.52 | 5.63 | 5.84 | 6.08 | 6.32 | 6.57 | 6.79 |
| 337.5 | 11.30 | 6.07 | 5.72 | 5.69 | 5.90 | 6.15 | 6.39 | 6.64 | 6.86 |
| 360.0 | 8.35 | 6.10 | 5.78 | 5.74 | 5.96 | 6.20 | 6.45 | 6.69 | 6.91 |

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| Intensity data(cd) | | | | | | | | | |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C/ γ (°) | 135.0 | 140.0 | 145.0 | 150.0 | 155.0 | 160.0 | 165.0 | 170.0 | 175.0 |
| 0.0 | 7.05 | 7.13 | 7.09 | 7.08 | 7.05 | 7.08 | 7.12 | 7.11 | 7.06 |
| 22.5 | 7.01 | 7.09 | 7.06 | 7.05 | 7.03 | 7.07 | 7.11 | 7.09 | 7.04 |
| 45.0 | 6.96 | 7.07 | 7.06 | 7.06 | 7.06 | 7.11 | 7.16 | 7.15 | 7.10 |
| 67.5 | 6.89 | 7.02 | 7.03 | 7.06 | 7.07 | 7.14 | 7.21 | 7.22 | 7.15 |
| 90.0 | 6.85 | 6.99 | 7.01 | 7.05 | 7.05 | 7.13 | 7.22 | 7.23 | 7.16 |
| 112.5 | 6.89 | 7.02 | 7.03 | 7.06 | 7.07 | 7.14 | 7.21 | 7.22 | 7.15 |
| 135.0 | 6.96 | 7.07 | 7.06 | 7.06 | 7.06 | 7.11 | 7.16 | 7.15 | 7.10 |
| 157.5 | 7.01 | 7.09 | 7.06 | 7.05 | 7.03 | 7.07 | 7.11 | 7.09 | 7.04 |
| 180.0 | 7.05 | 7.13 | 7.09 | 7.08 | 7.05 | 7.08 | 7.12 | 7.11 | 7.06 |
| 202.5 | 7.01 | 7.09 | 7.06 | 7.05 | 7.03 | 7.07 | 7.11 | 7.09 | 7.04 |
| 225.0 | 6.96 | 7.07 | 7.06 | 7.06 | 7.06 | 7.11 | 7.16 | 7.15 | 7.10 |
| 247.5 | 6.89 | 7.02 | 7.03 | 7.06 | 7.07 | 7.14 | 7.21 | 7.22 | 7.15 |
| 270.0 | 6.85 | 6.99 | 7.01 | 7.05 | 7.05 | 7.13 | 7.22 | 7.23 | 7.16 |
| 292.5 | 6.89 | 7.02 | 7.03 | 7.06 | 7.07 | 7.14 | 7.21 | 7.22 | 7.15 |
| 315.0 | 6.96 | 7.07 | 7.06 | 7.06 | 7.06 | 7.11 | 7.16 | 7.15 | 7.10 |
| 337.5 | 7.01 | 7.09 | 7.06 | 7.05 | 7.03 | 7.07 | 7.11 | 7.09 | 7.04 |
| 360.0 | 7.05 | 7.13 | 7.09 | 7.08 | 7.05 | 7.08 | 7.12 | 7.11 | 7.06 |
| C/ γ (°) | 180.0 | | | | | | | | |
| 0.0 | 0.00 | | | | | | | | |
| 22.5 | 0.00 | | | | | | | | |
| 45.0 | 0.00 | | | | | | | | |
| 67.5 | 0.00 | | | | | | | | |
| 90.0 | 0.00 | | | | | | | | |
| 112.5 | 0.00 | | | | | | | | |
| 135.0 | 0.00 | | | | | | | | |
| 157.5 | 0.00 | | | | | | | | |
| 180.0 | 0.00 | | | | | | | | |
| 202.5 | 0.00 | | | | | | | | |
| 225.0 | 0.00 | | | | | | | | |
| 247.5 | 0.00 | | | | | | | | |
| 270.0 | 0.00 | | | | | | | | |
| 292.5 | 0.00 | | | | | | | | |
| 315.0 | 0.00 | | | | | | | | |
| 337.5 | 0.00 | | | | | | | | |
| 360.0 | 0.00 | | | | | | | | |