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NT

Client:

LumCAT: 3-2834-L

Luminaire: 92.70.412.00

Report No: 2024322-B028

Ballast type: AC

Test No: 2024322-C028

Voltage(V): 34.760

LampCAT: Fortimo_SLM_C_1208

Current(A): 0.577

Lamp flux(lm): 3486.0

Power (W): 20.056

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2947.34, Efficiency(%): 84.55% , Luminous Efficacy(lm/W): 146.96

Central intensity(cd): 6889.328, Maximum intensity(cd): 6889.328

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=34.7

[C90/270]Total=35.1

Field angle(10%Imax): [C0/180]Total=64.7

[C90/270]Total=64.8

Maximum s/h(1/2): C0_180=0.57 C90_270=0.57

Maximum s/h(1/4): C0_180=0.58 C90_270=0.58

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 84.52%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.039%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/22
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 6880.841 | 0.000 | 0 | 0.00% | 0.00% |
| 1.0 | 6867.601 | 6.578 | 6.578 | 0.19% | 0.22% |
| 2.0 | 6830.805 | 19.661 | 26.24 | 0.56% | 0.89% |
| 3.0 | 6778.500 | 32.549 | 58.789 | 0.93% | 1.99% |
| 4.0 | 6712.297 | 45.158 | 103.947 | 1.30% | 3.53% |
| 5.0 | 6628.463 | 57.391 | 161.338 | 1.65% | 5.47% |
| 6.0 | 6517.709 | 69.087 | 230.425 | 1.98% | 7.82% |
| 7.0 | 6382.742 | 80.073 | 310.497 | 2.30% | 10.53% |
| 8.0 | 6208.784 | 90.115 | 400.613 | 2.59% | 13.59% |
| 9.0 | 5986.691 | 98.838 | 499.45 | 2.84% | 16.95% |
| 10.0 | 5745.651 | 106.173 | 605.624 | 3.05% | 20.55% |
| 11.0 | 5472.790 | 112.095 | 717.719 | 3.22% | 24.35% |
| 12.0 | 5169.131 | 116.331 | 834.05 | 3.34% | 28.30% |
| 13.0 | 4854.646 | 118.957 | 953.007 | 3.41% | 32.33% |
| 14.0 | 4537.381 | 120.217 | 1073.224 | 3.45% | 36.41% |
| 15.0 | 4216.385 | 120.176 | 1193.4 | 3.45% | 40.49% |
| 16.0 | 3880.539 | 118.643 | 1312.043 | 3.40% | 44.52% |
| 17.0 | 3578.563 | 116.158 | 1428.201 | 3.33% | 48.46% |
| 18.0 | 3262.468 | 112.794 | 1540.995 | 3.24% | 52.28% |
| 19.0 | 2977.683 | 108.566 | 1649.561 | 3.11% | 55.97% |
| 20.0 | 2719.965 | 104.283 | 1753.843 | 2.99% | 59.51% |
| 21.0 | 2478.267 | 99.817 | 1853.66 | 2.86% | 62.89% |
| 22.0 | 2230.132 | 94.617 | 1948.277 | 2.71% | 66.10% |
| 23.0 | 2035.544 | 89.505 | 2037.783 | 2.57% | 69.14% |
| 24.0 | 1864.000 | 85.258 | 2123.041 | 2.45% | 72.03% |
| 25.0 | 1693.553 | 80.891 | 2203.932 | 2.32% | 74.78% |
| 26.0 | 1522.302 | 75.911 | 2279.842 | 2.18% | 77.35% |
| 27.0 | 1369.251 | 70.742 | 2350.585 | 2.03% | 79.75% |
| 28.0 | 1244.005 | 66.162 | 2416.747 | 1.90% | 82.00% |
| 29.0 | 1166.310 | 63.061 | 2479.808 | 1.81% | 84.14% |
| 30.0 | 1031.057 | 59.328 | 2539.136 | 1.70% | 86.15% |
| 31.0 | 898.408 | 53.694 | 2592.83 | 1.54% | 87.97% |
| 32.0 | 748.115 | 47.171 | 2640.001 | 1.35% | 89.57% |
| 33.0 | 608.429 | 39.964 | 2679.965 | 1.15% | 90.93% |
| 34.0 | 477.500 | 32.863 | 2712.829 | 0.94% | 92.04% |
| 35.0 | 340.257 | 25.397 | 2738.225 | 0.73% | 92.91% |
| 36.0 | 255.787 | 18.978 | 2757.204 | 0.54% | 93.55% |
| 37.0 | 216.606 | 15.407 | 2772.61 | 0.44% | 94.07% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 137.308 | 11.813 | 2784.424 | 0.34% | 94.47% |
| 39.0 | 103.329 | 8.214 | 2792.637 | 0.24% | 94.75% |
| 40.0 | 95.128 | 6.921 | 2799.559 | 0.20% | 94.99% |
| 41.0 | 87.886 | 6.517 | 2806.076 | 0.19% | 95.21% |
| 42.0 | 81.039 | 6.137 | 2812.213 | 0.18% | 95.42% |
| 43.0 | 75.399 | 5.795 | 2818.008 | 0.17% | 95.61% |
| 44.0 | 70.520 | 5.507 | 2823.515 | 0.16% | 95.80% |
| 45.0 | 66.204 | 5.254 | 2828.77 | 0.15% | 95.98% |
| 46.0 | 62.180 | 5.021 | 2833.791 | 0.14% | 96.15% |
| 47.0 | 58.910 | 4.816 | 2838.607 | 0.14% | 96.31% |
| 48.0 | 56.021 | 4.646 | 2843.253 | 0.13% | 96.47% |
| 49.0 | 53.109 | 4.481 | 2847.734 | 0.13% | 96.62% |
| 50.0 | 50.783 | 4.332 | 2852.066 | 0.12% | 96.77% |
| 51.0 | 48.537 | 4.202 | 2856.268 | 0.12% | 96.91% |
| 52.0 | 46.452 | 4.076 | 2860.344 | 0.12% | 97.05% |
| 53.0 | 44.616 | 3.961 | 2864.305 | 0.11% | 97.18% |
| 54.0 | 42.692 | 3.848 | 2868.154 | 0.11% | 97.31% |
| 55.0 | 40.936 | 3.733 | 2871.887 | 0.11% | 97.44% |
| 56.0 | 39.078 | 3.616 | 2875.502 | 0.10% | 97.56% |
| 57.0 | 37.476 | 3.500 | 2879.003 | 0.10% | 97.68% |
| 58.0 | 35.633 | 3.381 | 2882.383 | 0.10% | 97.80% |
| 59.0 | 33.885 | 3.250 | 2885.633 | 0.09% | 97.91% |
| 60.0 | 32.319 | 3.128 | 2888.761 | 0.09% | 98.01% |
| 61.0 | 30.797 | 3.012 | 2891.773 | 0.09% | 98.11% |
| 62.0 | 29.305 | 2.896 | 2894.669 | 0.08% | 98.21% |
| 63.0 | 27.886 | 2.782 | 2897.451 | 0.08% | 98.31% |
| 64.0 | 26.694 | 2.678 | 2900.129 | 0.08% | 98.40% |
| 65.0 | 25.472 | 2.582 | 2902.711 | 0.07% | 98.49% |
| 66.0 | 24.338 | 2.485 | 2905.196 | 0.07% | 98.57% |
| 67.0 | 23.387 | 2.400 | 2907.596 | 0.07% | 98.65% |
| 68.0 | 22.363 | 2.318 | 2909.913 | 0.07% | 98.73% |
| 69.0 | 21.485 | 2.237 | 2912.15 | 0.06% | 98.81% |
| 70.0 | 20.702 | 2.167 | 2914.317 | 0.06% | 98.88% |
| 71.0 | 19.876 | 2.097 | 2916.414 | 0.06% | 98.95% |
| 72.0 | 19.056 | 2.024 | 2918.438 | 0.06% | 99.02% |
| 73.0 | 18.391 | 1.958 | 2920.397 | 0.06% | 99.09% |
| 74.0 | 17.791 | 1.902 | 2922.299 | 0.05% | 99.15% |
| 75.0 | 17.154 | 1.846 | 2924.145 | 0.05% | 99.21% |

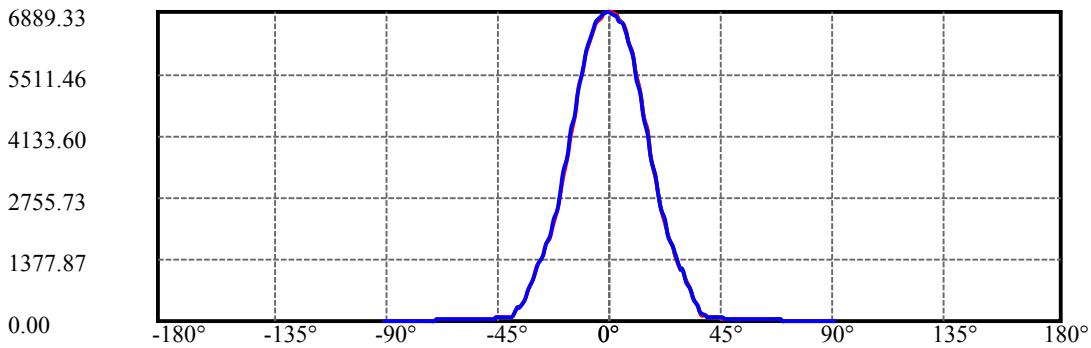
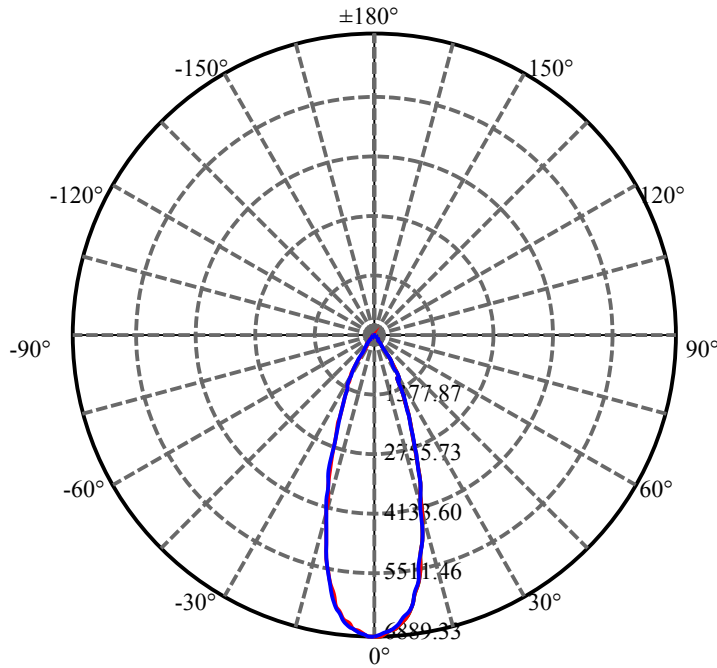
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 16.657 | 1.795 | 2925.94 | 0.05% | 99.27% |
| 77.0 | 16.189 | 1.751 | 2927.691 | 0.05% | 99.33% |
| 78.0 | 15.801 | 1.712 | 2929.404 | 0.05% | 99.39% |
| 79.0 | 15.355 | 1.674 | 2931.078 | 0.05% | 99.45% |
| 80.0 | 14.996 | 1.636 | 2932.714 | 0.05% | 99.50% |
| 81.0 | 14.609 | 1.601 | 2934.315 | 0.05% | 99.56% |
| 82.0 | 14.228 | 1.564 | 2935.879 | 0.04% | 99.61% |
| 83.0 | 13.892 | 1.529 | 2937.407 | 0.04% | 99.66% |
| 84.0 | 13.577 | 1.496 | 2938.904 | 0.04% | 99.71% |
| 85.0 | 13.292 | 1.466 | 2940.37 | 0.04% | 99.76% |
| 86.0 | 13.029 | 1.439 | 2941.809 | 0.04% | 99.81% |
| 87.0 | 12.802 | 1.414 | 2943.223 | 0.04% | 99.86% |
| 88.0 | 12.568 | 1.390 | 2944.612 | 0.04% | 99.91% |
| 89.0 | 12.385 | 1.368 | 2945.98 | 0.04% | 99.95% |
| 90.0 | 12.363 | 1.357 | 2947.337 | 0.04% | 100.00% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 2539.14 | 72.84% | 86.15% |
| 0-40 | 2799.56 | 80.31% | 94.99% |
| 0-60 | 2888.76 | 82.87% | 98.01% |
| 0-90 | 2945.98 | 84.51% | 99.95% |
| 0-120 | 2945.98 | 84.51% | 99.95% |
| 0-180 | 2947.34 | 84.55% | 100.00% |
| 60-90 | 57.22 | 1.64% | 1.94% |
| 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% |
| 0-27.11 | 2357.87 | 67.64% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|---------|
| 0-10 | 605.62 |
| 10-20 | 1148.22 |
| 20-30 | 785.29 |
| 30-40 | 260.42 |
| 40-50 | 52.51 |
| 50-60 | 36.70 |
| 60-70 | 25.56 |
| 70-80 | 18.40 |
| 80-90 | 13.27 |
| 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 |



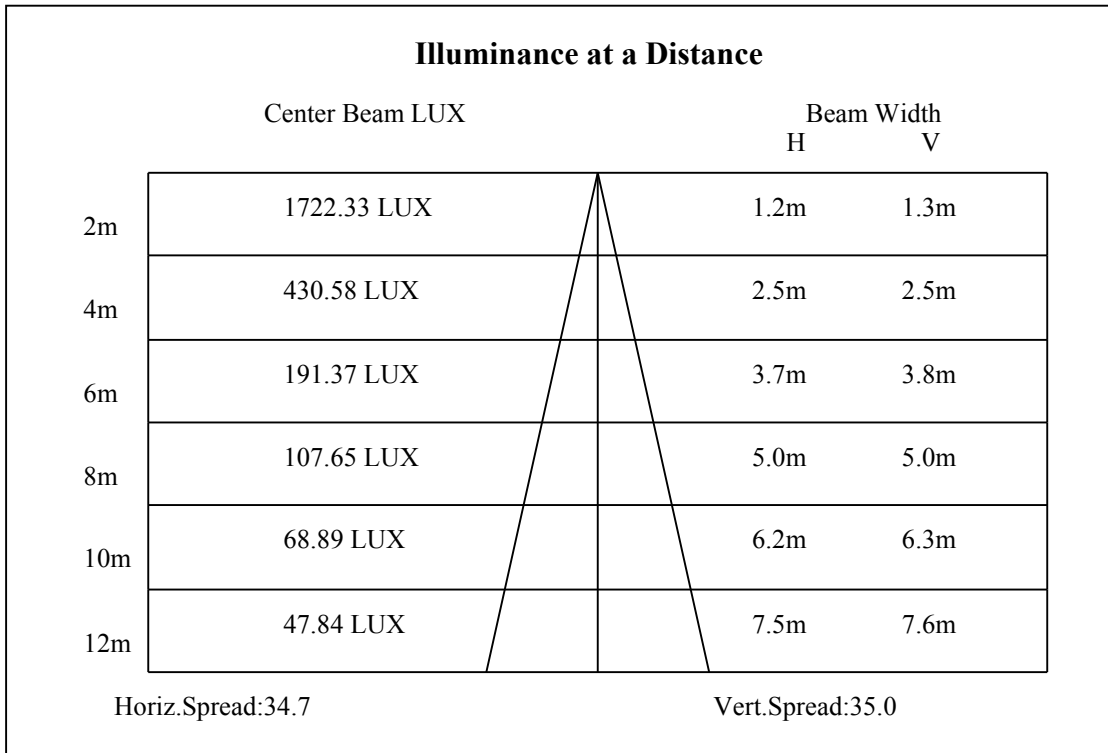
C0(Max): —————

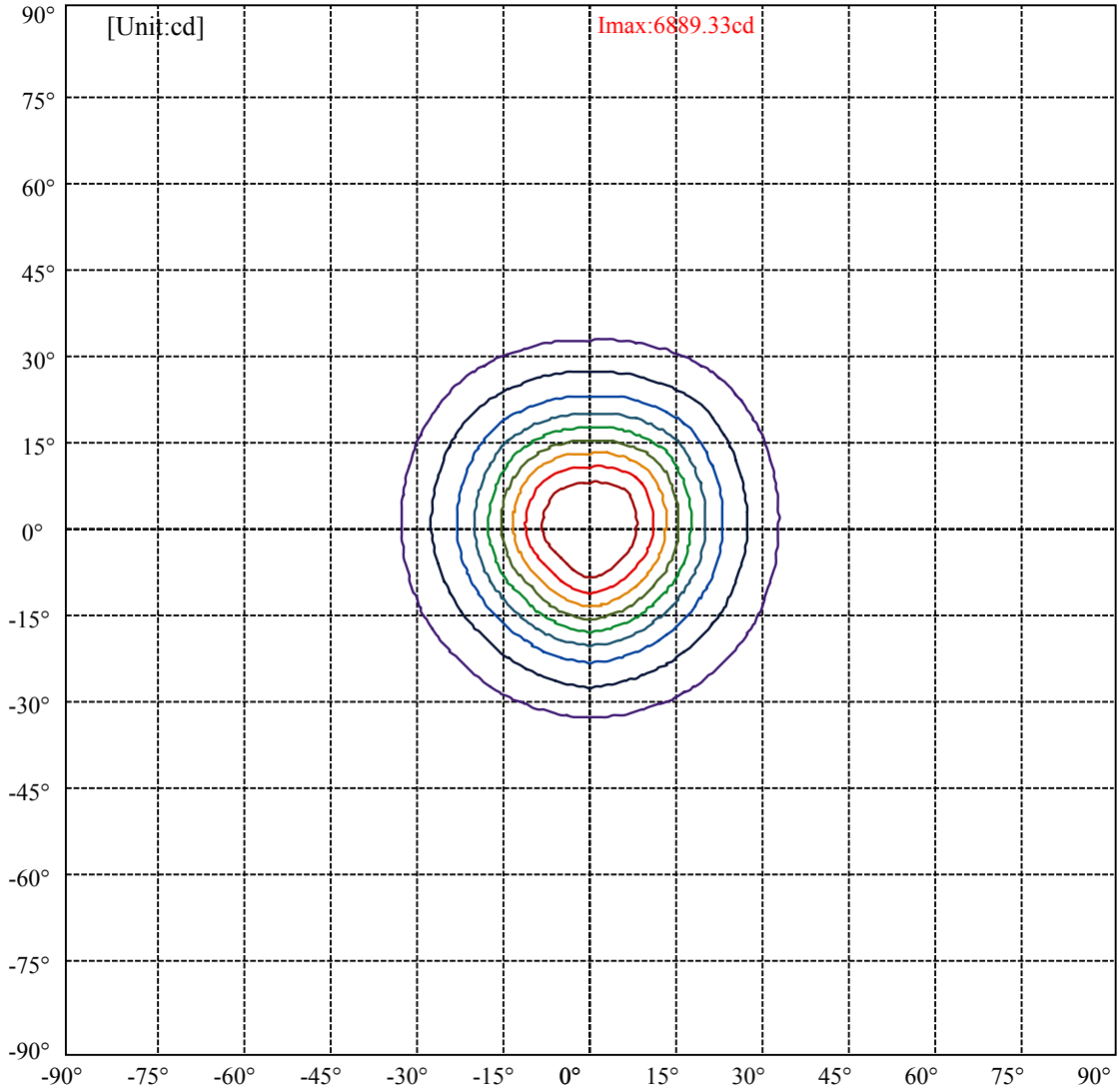
C0/C180: —————

C90/C270: —————

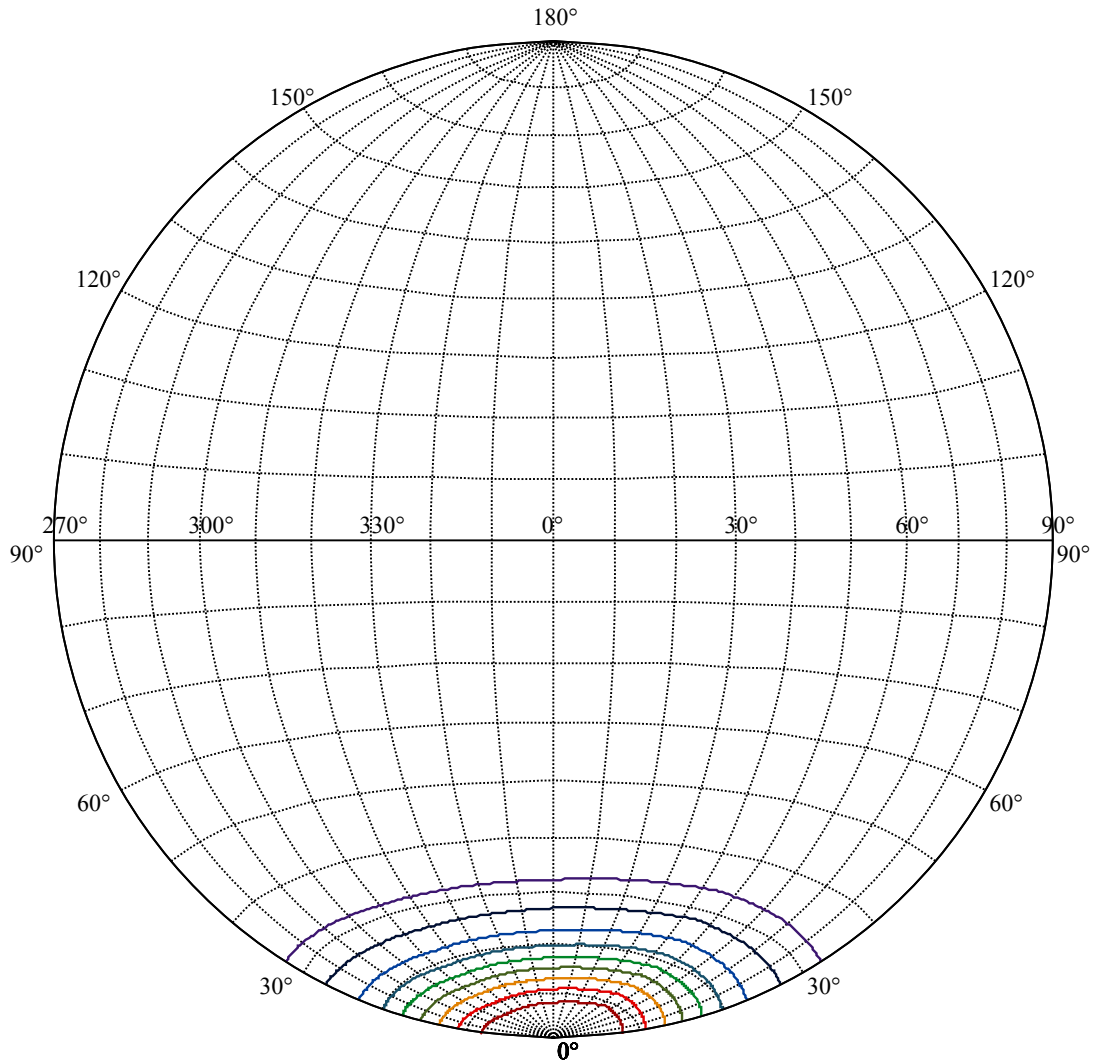
Field angle(10%Imax):C0/180Left:32.3 Right:32.4
:C90/270Left:32.4 Right:32.4

Beam Angle(50%Imax):C0/180Left:17.4 Right:17.3
:C90/270Left:17.7 Right:17.4





| | |
|--------------------------------|---|
| (10%I _{max}) 688.622 | — |
| (20%I _{max}) 1377.24 | — |
| (30%I _{max}) 2065.86 | — |
| (40%I _{max}) 2754.49 | — |
| (50%I _{max}) 3443.11 | — |
| (60%I _{max}) 4131.73 | — |
| (70%I _{max}) 4820.35 | — |
| (80%I _{max}) 5508.97 | — |
| (90%I _{max}) 6197.59 | — |



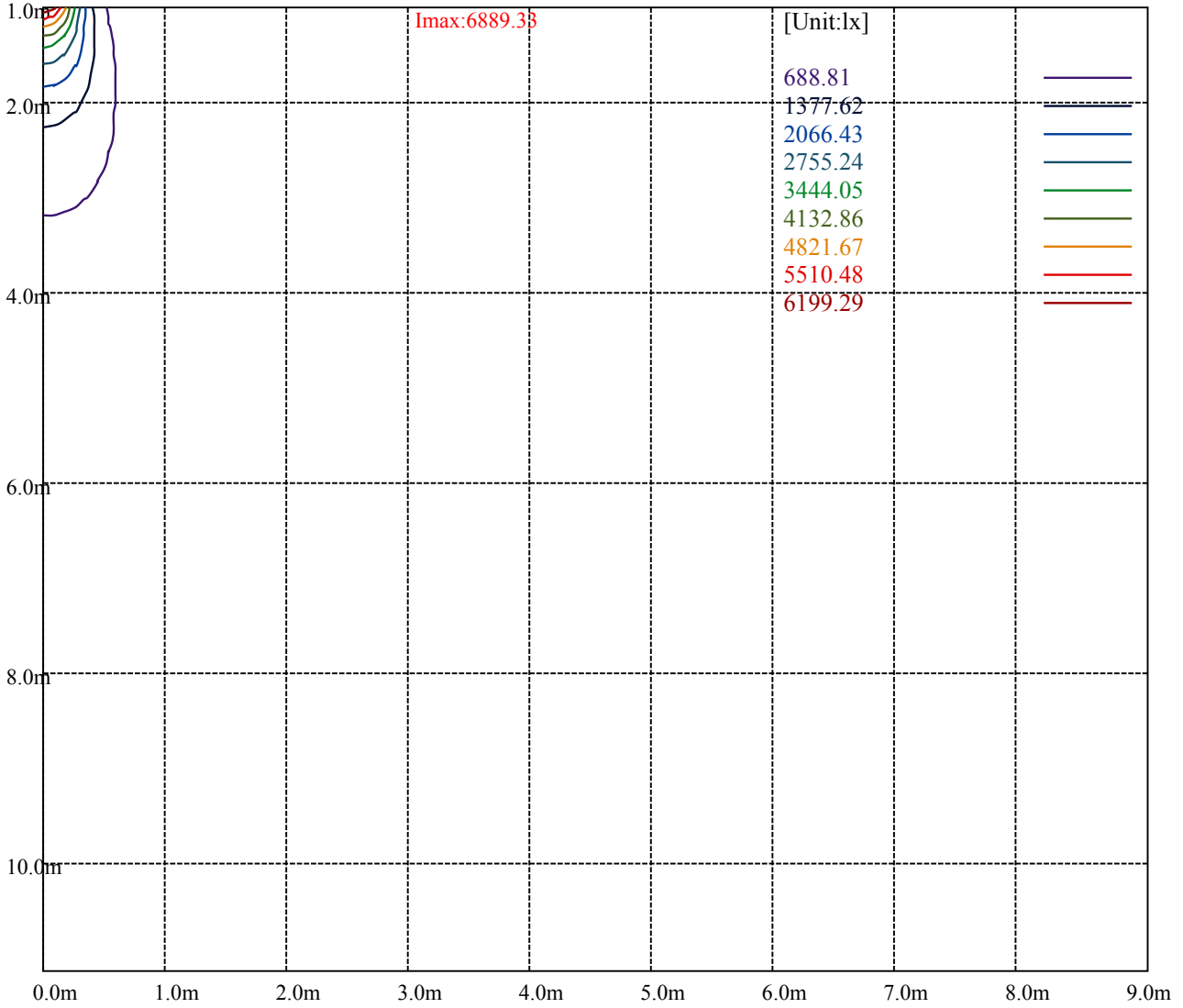
House

[Unit:cd]

Road

Imax:6889.33

| | |
|-------------------|---|
| (10%Imax) 688.81 | — |
| (20%Imax) 1377.62 | — |
| (30%Imax) 2066.43 | — |
| (40%Imax) 2755.24 | — |
| (50%Imax) 3444.05 | — |
| (60%Imax) 4132.86 | — |
| (70%Imax) 4821.67 | — |
| (80%Imax) 5510.48 | — |
| (90%Imax) 6199.29 | — |



Luminance Table

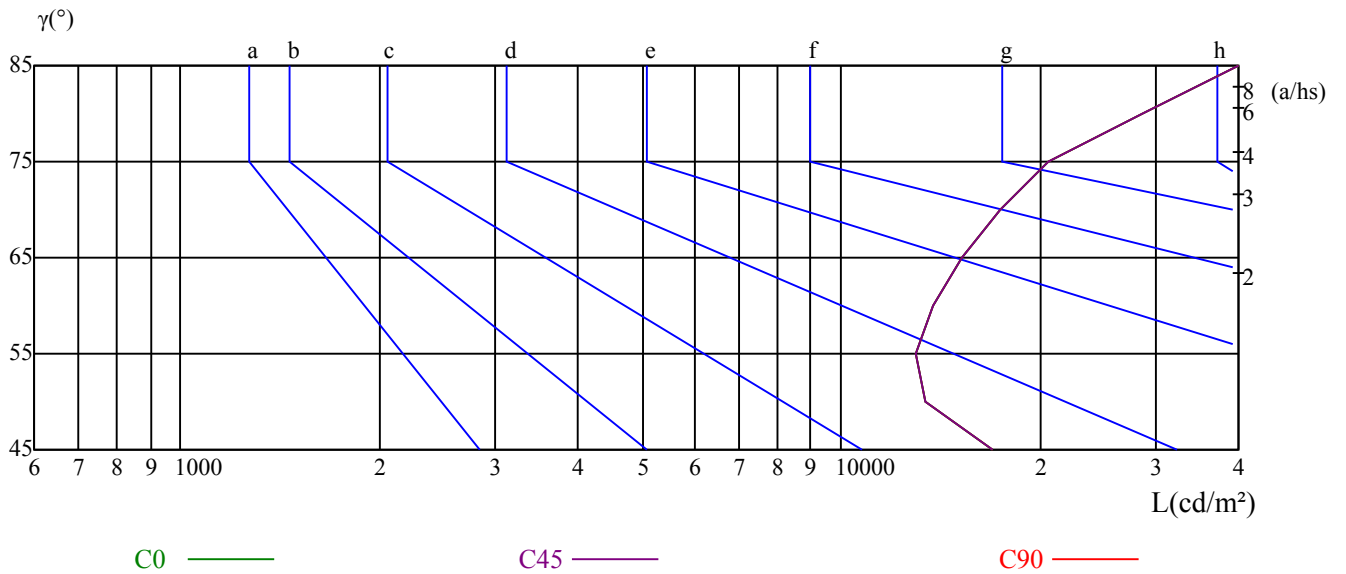
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C0 | 16916 | 13424 | 12973 | 13807 | 15255 | 17397 | 20571 | 28543 | 54228 |
| C45 | 16916 | 13424 | 12973 | 13807 | 15255 | 17397 | 20571 | 28543 | 54228 |
| C90 | 16916 | 13424 | 12973 | 13807 | 15255 | 17397 | 20571 | 28543 | 54228 |

| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 15255 | 15255 | 15255 | 20571 | 20571 | 20571 | 54228 | 54228 | 54228 |

Glare Table

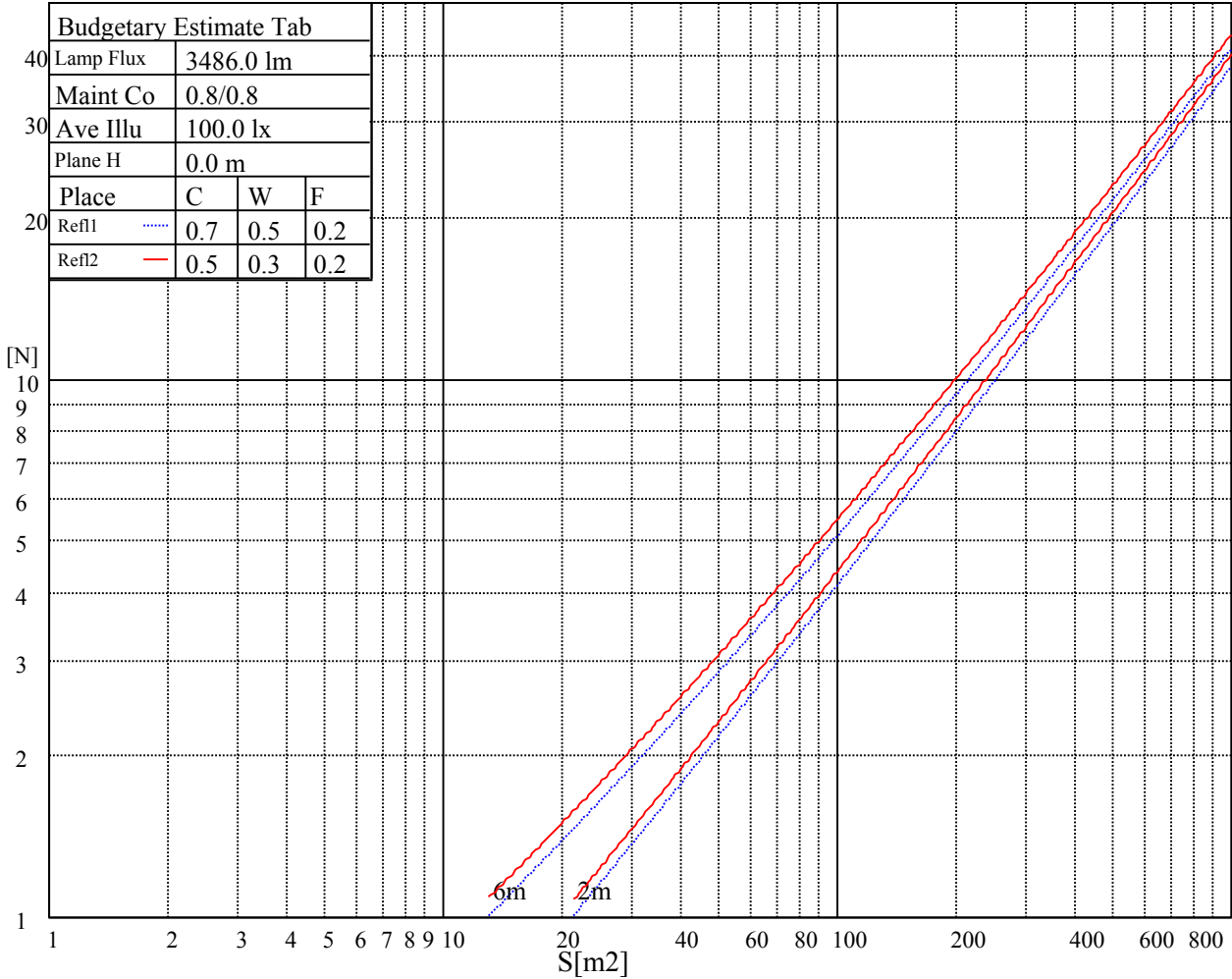
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 |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

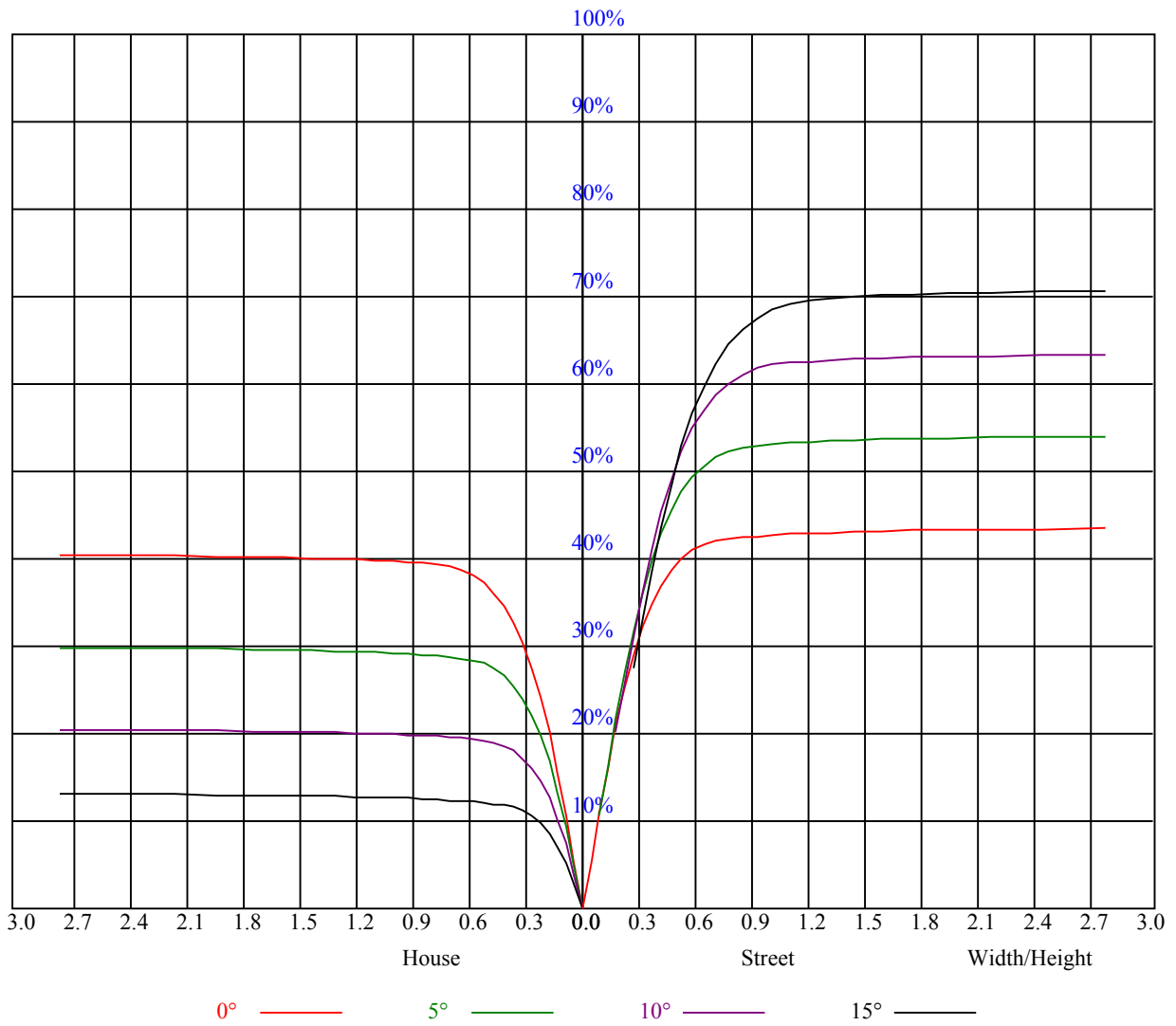


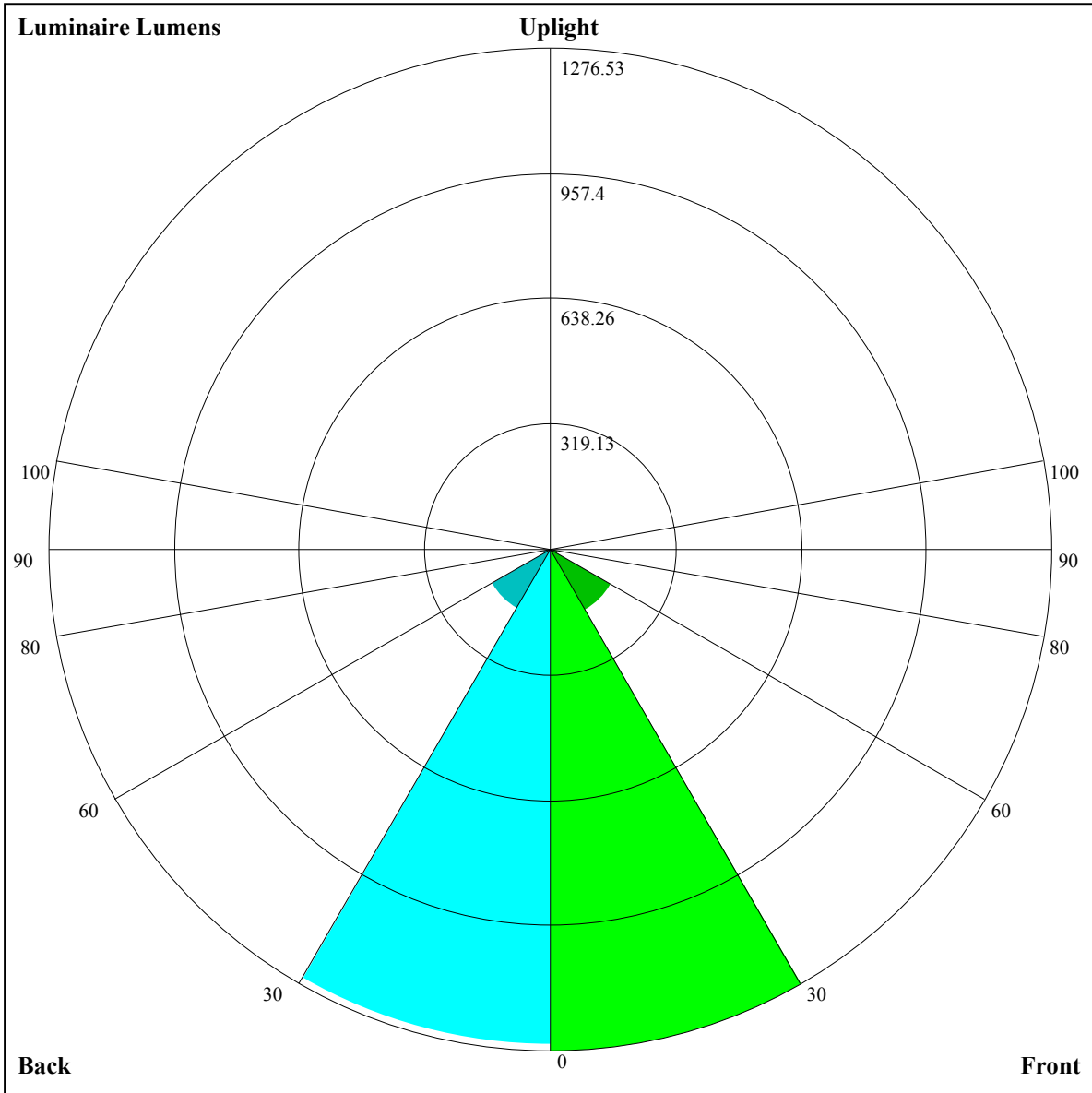
| Illumination assessment according UGR | | | | | | | | | | |
|---------------------------------------------------|------------------|-----|-----|-----|-----|----------------|-----|-----|-----|-----|
| Rf of Ceiling | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Rf of Wall | 50 | 30 | 50 | 30 | 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 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| | 3H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| | 4H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| | 6H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| | 8H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| | 12H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| 4H | 2H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| | 3H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| | 4H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| | 6H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| | 8H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| | 12H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| 8H | 4H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| | 6H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| | 8H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| | 12H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| 12H | 4H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| | 6H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| | 8H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 |
| Variation with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | 非数字/非数字 | | | | | 非数字/非数字 | | | | |
| S = 1.5H | 非数字/非数字 | | | | | 非数字/非数字 | | | | |
| S = 2.0H | 非数字/非数字 | | | | | 非数字/非数字 | | | | |
| Standard tables: | BK0 | | | | | BK0 | | | | |
| Uncorrected UGR | 负无穷大 | | | | | 负无穷大 | | | | |

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



| 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 | 1.01 | 1.01 | 1.01 | 0.98 | 0.98 | 0.98 | 0.94 | 0.94 | 0.94 | 0.90 | 0.90 | 0.90 | 0.86 | 0.86 | 0.86 | 0.85 |
| 1 | 0.94 | 0.92 | 0.90 | 0.92 | 0.91 | 0.89 | 0.89 | 0.88 | 0.86 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 |
| 2 | 0.89 | 0.85 | 0.83 | 0.87 | 0.84 | 0.82 | 0.84 | 0.82 | 0.80 | 0.82 | 0.80 | 0.78 | 0.80 | 0.78 | 0.77 | 0.76 |
| 3 | 0.84 | 0.80 | 0.77 | 0.82 | 0.79 | 0.76 | 0.80 | 0.77 | 0.75 | 0.78 | 0.76 | 0.74 | 0.76 | 0.75 | 0.73 | 0.72 |
| 4 | 0.79 | 0.75 | 0.72 | 0.78 | 0.75 | 0.72 | 0.77 | 0.73 | 0.71 | 0.75 | 0.72 | 0.70 | 0.73 | 0.71 | 0.69 | 0.68 |
| 5 | 0.75 | 0.71 | 0.68 | 0.75 | 0.71 | 0.68 | 0.73 | 0.70 | 0.67 | 0.72 | 0.69 | 0.66 | 0.71 | 0.68 | 0.66 | 0.65 |
| 6 | 0.72 | 0.67 | 0.64 | 0.71 | 0.67 | 0.64 | 0.70 | 0.66 | 0.64 | 0.69 | 0.66 | 0.63 | 0.68 | 0.65 | 0.63 | 0.62 |
| 7 | 0.69 | 0.64 | 0.61 | 0.68 | 0.64 | 0.61 | 0.67 | 0.63 | 0.61 | 0.66 | 0.63 | 0.60 | 0.65 | 0.62 | 0.60 | 0.59 |
| 8 | 0.66 | 0.61 | 0.58 | 0.65 | 0.61 | 0.58 | 0.64 | 0.61 | 0.58 | 0.64 | 0.60 | 0.58 | 0.63 | 0.60 | 0.58 | 0.57 |
| 9 | 0.63 | 0.59 | 0.56 | 0.63 | 0.59 | 0.56 | 0.62 | 0.58 | 0.56 | 0.61 | 0.58 | 0.55 | 0.61 | 0.57 | 0.55 | 0.54 |
| 10 | 0.60 | 0.56 | 0.54 | 0.60 | 0.56 | 0.53 | 0.60 | 0.56 | 0.53 | 0.59 | 0.56 | 0.53 | 0.58 | 0.55 | 0.53 | 0.52 |





Luminaire Lumens:

FL=1276.53,FM=178.57,FH=21.98,FVH=7.34

BL=1261.02,BM=173.64,BH=22.05,BVH=7.31

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 | 6889.33 | 6880.55 | 6838.41 | 6788.08 | 6728.98 | 6635.92 | 6534.10 | 6405.35 | 6193.49 |
| 45.0 | 6879.96 | 6888.16 | 6883.47 | 6850.12 | 6785.74 | 6718.44 | 6641.78 | 6546.97 | 6394.23 |
| 90.0 | 6881.13 | 6864.16 | 6813.25 | 6758.82 | 6695.03 | 6612.52 | 6490.79 | 6357.36 | 6199.93 |
| 135.0 | 6872.94 | 6871.19 | 6846.02 | 6796.28 | 6721.95 | 6656.99 | 6568.04 | 6459.19 | 6297.08 |
| 180.0 | 6889.33 | 6875.87 | 6834.90 | 6774.04 | 6719.03 | 6613.10 | 6513.03 | 6386.62 | 6233.29 |
| 225.0 | 6879.96 | 6828.46 | 6777.55 | 6721.37 | 6624.81 | 6521.81 | 6390.13 | 6187.64 | 5982.81 |
| 270.0 | 6881.13 | 6882.30 | 6851.87 | 6793.35 | 6742.44 | 6675.72 | 6556.92 | 6429.93 | 6275.43 |
| 315.0 | 6872.94 | 6850.12 | 6800.96 | 6745.95 | 6680.40 | 6593.20 | 6446.90 | 6288.89 | 6094.01 |
| 360.0 | 6889.33 | 6880.55 | 6838.41 | 6788.08 | 6728.98 | 6635.92 | 6534.10 | 6405.35 | 6193.49 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 5982.81 | 5737.02 | 5467.23 | 5114.93 | 4815.88 | 4516.83 | 4220.70 | 3846.16 | 3550.62 |
| 45.0 | 6239.73 | 6047.19 | 5768.04 | 5515.22 | 5236.65 | 4877.32 | 4577.69 | 4273.37 | 3974.91 |
| 90.0 | 5950.04 | 5713.02 | 5381.79 | 5101.46 | 4803.59 | 4505.71 | 4131.16 | 3827.43 | 3541.84 |
| 135.0 | 6130.29 | 5926.63 | 5691.96 | 5360.13 | 5078.64 | 4780.76 | 4465.91 | 4086.68 | 3785.29 |
| 180.0 | 5998.03 | 5766.87 | 5508.78 | 5229.04 | 4850.99 | 4549.60 | 4166.28 | 3868.98 | 3576.37 |
| 225.0 | 5689.62 | 5426.85 | 5145.36 | 4850.40 | 4467.08 | 4165.10 | 3871.32 | 3582.81 | 3221.14 |
| 270.0 | 6033.73 | 5797.88 | 5542.14 | 5196.27 | 4901.90 | 4597.59 | 4292.10 | 3920.48 | 3625.53 |
| 315.0 | 5869.28 | 5549.75 | 5277.03 | 4985.59 | 4682.44 | 4306.14 | 4005.92 | 3638.40 | 3352.81 |
| 360.0 | 5982.81 | 5737.02 | 5467.23 | 5114.93 | 4815.88 | 4516.83 | 4220.70 | 3846.16 | 3550.62 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 3207.68 | 2949.01 | 2700.29 | 2468.54 | 2202.85 | 2012.06 | 1844.10 | 1689.02 | 1515.21 |
| 45.0 | 3605.04 | 3323.55 | 3057.27 | 2800.36 | 2501.90 | 2288.29 | 2092.24 | 1878.05 | 1721.21 |
| 90.0 | 3263.86 | 2941.98 | 2693.26 | 2464.44 | 2254.93 | 2019.67 | 1852.88 | 1663.27 | 1522.81 |
| 135.0 | 3428.31 | 3149.15 | 2894.00 | 2593.19 | 2371.39 | 2171.24 | 1990.99 | 1784.99 | 1633.42 |
| 180.0 | 3218.80 | 2937.89 | 2693.26 | 2479.66 | 2197.58 | 2031.37 | 1852.88 | 1703.06 | 1525.74 |
| 225.0 | 2952.52 | 2701.46 | 2464.44 | 2207.53 | 1976.95 | 1814.84 | 1659.17 | 1516.38 | 1284.63 |
| 270.0 | 3342.28 | 3055.52 | 2730.72 | 2500.14 | 2264.88 | 2042.49 | 1872.19 | 1712.43 | 1535.69 |
| 315.0 | 3081.27 | 2762.91 | 2526.47 | 2312.28 | 2070.58 | 1904.38 | 1747.54 | 1601.23 | 1439.71 |
| 360.0 | 3207.68 | 2949.01 | 2700.29 | 2468.54 | 2202.85 | 2012.06 | 1844.10 | 1689.02 | 1515.21 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 1387.04 | 1150.32 | 1150.32 | 1026.89 | 899.37 | 736.21 | 606.47 | 477.72 | 324.21 |
| 45.0 | 1574.31 | 1411.62 | 1301.01 | 1177.53 | 1066.34 | 935.83 | 802.99 | 638.54 | 510.96 |
| 90.0 | 1394.06 | 1152.02 | 1152.02 | 1036.90 | 875.91 | 741.07 | 608.28 | 477.84 | 326.20 |
| 135.0 | 1491.21 | 1365.97 | 1232.54 | 1128.37 | 1008.40 | 841.61 | 709.35 | 580.02 | 423.18 |
| 180.0 | 1393.48 | 1287.55 | 1189.24 | 1032.40 | 903.65 | 728.66 | 594.06 | 473.51 | 324.27 |
| 225.0 | 1149.85 | 1149.85 | 1023.79 | 854.31 | 717.54 | 585.11 | 426.80 | 311.57 | 214.25 |
| 270.0 | 1399.33 | 1270.00 | 1169.34 | 1047.03 | 905.99 | 740.95 | 608.11 | 474.09 | 348.85 |
| 315.0 | 1164.71 | 1164.71 | 1112.22 | 945.02 | 810.07 | 675.47 | 511.37 | 386.72 | 250.13 |
| 360.0 | 1387.04 | 1150.32 | 1150.32 | 1026.89 | 899.37 | 736.21 | 606.47 | 477.72 | 324.21 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 220.69 | 146.25 | 107.27 | 98.08 | 90.65 | 84.10 | 76.84 | 72.16 | 67.94 |
| 45.0 | 386.89 | 300.28 | 300.28 | 114.59 | 102.47 | 94.10 | 85.74 | 79.47 | 73.27 |
| 90.0 | 225.60 | 150.64 | 113.83 | 100.42 | 92.76 | 86.15 | 78.83 | 73.97 | 68.47 |
| 135.0 | 309.64 | 309.64 | 132.67 | 113.83 | 104.29 | 94.75 | 87.61 | 81.81 | 76.61 |
| 180.0 | 295.60 | 295.60 | 118.39 | 105.75 | 97.97 | 90.53 | 84.16 | 77.43 | 72.63 |
| 225.0 | 145.37 | 113.42 | 104.70 | 95.51 | 88.60 | 82.52 | 77.25 | 71.46 | 67.30 |
| 270.0 | 296.18 | 296.18 | 114.41 | 102.00 | 94.75 | 88.02 | 80.29 | 75.26 | 70.70 |
| 315.0 | 166.32 | 120.85 | 106.92 | 96.45 | 89.54 | 82.93 | 77.60 | 71.63 | 67.24 |
| 360.0 | 220.69 | 146.25 | 107.27 | 98.08 | 90.65 | 84.10 | 76.84 | 72.16 | 67.94 |

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 | 64.08 | 59.75 | 56.83 | 54.13 | 51.21 | 48.98 | 46.76 | 45.06 | 43.48 |
| 45.0 | 68.82 | 64.90 | 60.57 | 57.53 | 54.72 | 52.26 | 49.45 | 47.58 | 45.71 |
| 90.0 | 64.67 | 61.16 | 58.11 | 54.72 | 52.26 | 50.15 | 48.22 | 45.88 | 44.24 |
| 135.0 | 70.70 | 66.60 | 62.91 | 59.58 | 56.06 | 53.61 | 50.74 | 48.75 | 46.70 |
| 180.0 | 68.41 | 63.79 | 60.51 | 57.64 | 54.54 | 52.09 | 49.92 | 47.34 | 45.47 |
| 225.0 | 63.67 | 59.69 | 56.88 | 54.37 | 51.91 | 49.33 | 47.29 | 45.35 | 43.54 |
| 270.0 | 65.84 | 62.27 | 59.17 | 56.47 | 53.43 | 51.15 | 49.16 | 47.23 | 44.95 |
| 315.0 | 63.44 | 59.28 | 56.30 | 53.72 | 50.74 | 48.69 | 46.76 | 44.42 | 42.84 |
| 360.0 | 64.08 | 59.75 | 56.83 | 54.13 | 51.21 | 48.98 | 46.76 | 45.06 | 43.48 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 41.49 | 39.97 | 38.39 | 36.87 | 34.88 | 33.24 | 31.84 | 30.26 | 28.56 |
| 45.0 | 44.07 | 42.08 | 40.44 | 38.98 | 36.93 | 35.52 | 33.42 | 31.95 | 30.61 |
| 90.0 | 42.49 | 40.85 | 38.80 | 37.16 | 35.23 | 33.59 | 32.07 | 30.26 | 28.97 |
| 135.0 | 44.48 | 42.60 | 40.91 | 39.21 | 37.16 | 35.41 | 33.71 | 32.30 | 30.37 |
| 180.0 | 43.48 | 41.26 | 39.56 | 37.81 | 36.23 | 34.12 | 32.66 | 31.13 | 29.73 |
| 225.0 | 41.32 | 39.68 | 37.57 | 35.99 | 34.29 | 32.54 | 31.02 | 29.61 | 28.32 |
| 270.0 | 43.19 | 41.55 | 39.50 | 37.81 | 35.99 | 34.24 | 32.77 | 31.31 | 29.61 |
| 315.0 | 41.02 | 39.50 | 37.45 | 35.99 | 34.35 | 32.42 | 31.08 | 29.55 | 28.27 |
| 360.0 | 41.49 | 39.97 | 38.39 | 36.87 | 34.88 | 33.24 | 31.84 | 30.26 | 28.56 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 27.39 | 26.22 | 24.99 | 23.99 | 23.00 | 21.95 | 21.07 | 20.37 | 19.49 |
| 45.0 | 29.14 | 27.80 | 26.45 | 25.46 | 24.40 | 23.23 | 22.47 | 21.65 | 20.60 |
| 90.0 | 27.74 | 26.51 | 25.28 | 24.17 | 23.29 | 22.41 | 21.30 | 20.60 | 19.90 |
| 135.0 | 28.97 | 27.80 | 26.34 | 25.28 | 24.23 | 23.17 | 22.24 | 21.42 | 20.48 |
| 180.0 | 28.15 | 26.86 | 25.52 | 24.35 | 23.47 | 22.41 | 21.48 | 20.72 | 20.01 |
| 225.0 | 26.74 | 25.69 | 24.58 | 23.64 | 22.59 | 21.65 | 20.89 | 20.01 | 19.20 |
| 270.0 | 28.27 | 27.04 | 25.98 | 24.52 | 23.64 | 22.71 | 21.83 | 20.89 | 20.13 |
| 315.0 | 26.69 | 25.63 | 24.64 | 23.29 | 22.47 | 21.36 | 20.60 | 19.96 | 19.20 |
| 360.0 | 27.39 | 26.22 | 24.99 | 23.99 | 23.00 | 21.95 | 21.07 | 20.37 | 19.49 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 18.73 | 18.14 | 17.62 | 16.91 | 16.50 | 16.09 | 15.74 | 15.27 | 14.92 |
| 45.0 | 19.90 | 19.14 | 18.32 | 17.79 | 17.26 | 16.62 | 16.27 | 15.80 | 15.45 |
| 90.0 | 18.90 | 18.32 | 17.79 | 17.09 | 16.62 | 16.09 | 15.74 | 15.33 | 14.98 |
| 135.0 | 19.72 | 18.90 | 18.32 | 17.56 | 17.09 | 16.62 | 16.21 | 15.68 | 15.33 |
| 180.0 | 19.08 | 18.43 | 17.85 | 17.26 | 16.68 | 16.21 | 15.86 | 15.39 | 15.04 |
| 225.0 | 18.55 | 17.85 | 17.32 | 16.68 | 16.21 | 15.80 | 15.39 | 14.98 | 14.57 |
| 270.0 | 19.20 | 18.55 | 17.91 | 17.21 | 16.74 | 16.27 | 15.80 | 15.39 | 15.04 |
| 315.0 | 18.38 | 17.79 | 17.21 | 16.74 | 16.15 | 15.80 | 15.39 | 14.98 | 14.63 |
| 360.0 | 18.73 | 18.14 | 17.62 | 16.91 | 16.50 | 16.09 | 15.74 | 15.27 | 14.92 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 14.63 | 14.22 | 13.87 | 13.58 | 13.28 | 13.05 | 12.82 | 12.64 | 12.41 |
| 45.0 | 15.04 | 14.57 | 14.22 | 13.93 | 13.58 | 13.34 | 13.05 | 12.82 | 12.52 |
| 90.0 | 14.57 | 14.22 | 13.93 | 13.58 | 13.34 | 13.11 | 12.87 | 12.58 | 12.41 |
| 135.0 | 14.92 | 14.51 | 14.10 | 13.75 | 13.46 | 13.17 | 12.93 | 12.64 | 12.52 |
| 180.0 | 14.63 | 14.22 | 13.81 | 13.52 | 13.28 | 12.99 | 12.76 | 12.47 | 12.23 |
| 225.0 | 14.16 | 13.87 | 13.58 | 13.34 | 13.05 | 12.82 | 12.58 | 12.29 | 12.41 |
| 270.0 | 14.63 | 14.22 | 13.93 | 13.52 | 13.23 | 12.93 | 12.76 | 12.52 | 12.29 |
| 315.0 | 14.28 | 13.99 | 13.69 | 13.40 | 13.11 | 12.82 | 12.64 | 12.58 | 12.29 |
| 360.0 | 14.63 | 14.22 | 13.87 | 13.58 | 13.28 | 13.05 | 12.82 | 12.64 | 12.41 |

Intensity data(cd)

| | |
|-----------------|-------|
| C/ γ (°) | 90.0 |
| 0.0 | 12.29 |
| 45.0 | 12.29 |
| 90.0 | 12.35 |
| 135.0 | 12.29 |
| 180.0 | 12.41 |
| 225.0 | 12.35 |
| 270.0 | 12.52 |
| 315.0 | 12.41 |
| 360.0 | 12.29 |