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HX-DA613.5R.01

| | |
|---------------------------------|--------------------------|
| LumCAT: HX-DA613.5R.01 | Luminaire: |
| Report No: | Voltage(V): 220.100 |
| Test No: | Current(A): 0.039 |
| LampCAT: CH-6759 55MM-2835-5B4C | Power (W): 7.800 |
| Lamp flux(lm): 1072.0 | PF: 0.913 |
| Number of Lamps: 1 | Ballast type: LS-8-200L1 |
| Length(mm): -800 | Width(mm): -800 |
| Phm Type: C | Height(mm): 0 |

Photometric Results

Lumens(lm): 322.27
Efficiency(%): 30.06%
Lumens(lm)/Power(W): 41.32
Central intensity(cd): 147.565
Maximum intensity(cd): 148.517
Angle of maximum intensity: C=30.0 γ =0.0
Beam Angle(50%Imax): [H]Left=50.9 Right=46.6
[V]Left=51.0 Right=46.1
Field angle(10%Imax): [H]Left=69.1 Right=65.0
[V]Left=69.7 Right=64.7
Maximum s/h: C0_180=1.25 C90_270=1.25
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 30.06%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 92.722%

Equipment: GMS-1980
Temperature(°C): 25.0

Date: 2022-11-11
Humidity(%): 65.3%

Operator: Lxl
Distance(m): 7.27

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 147.962 | .000 | .000 | .000% | .000% |
| 1.0 | 147.931 | .142 | .142 | .013% | .013% |
| 2.0 | 147.856 | .425 | .566 | .040% | .053% |
| 3.0 | 147.728 | .707 | 1.273 | .066% | .119% |
| 4.0 | 147.579 | .988 | 2.262 | .092% | .211% |
| 5.0 | 147.358 | 1.269 | 3.530 | .118% | .329% |
| 6.0 | 147.085 | 1.547 | 5.078 | .144% | .474% |
| 7.0 | 146.759 | 1.824 | 6.902 | .170% | .644% |
| 8.0 | 146.372 | 2.098 | 8.999 | .196% | .840% |
| 9.0 | 145.980 | 2.369 | 11.369 | .221% | 1.061% |
| 10.0 | 145.553 | 2.638 | 14.007 | .246% | 1.307% |
| 11.0 | 145.046 | 2.904 | 16.911 | .271% | 1.577% |
| 12.0 | 144.465 | 3.165 | 20.076 | .295% | 1.873% |
| 13.0 | 143.888 | 3.422 | 23.498 | .319% | 2.192% |
| 14.0 | 143.249 | 3.675 | 27.173 | .343% | 2.535% |
| 15.0 | 142.527 | 3.923 | 31.096 | .366% | 2.901% |
| 16.0 | 141.734 | 4.165 | 35.261 | .389% | 3.289% |
| 17.0 | 140.928 | 4.402 | 39.663 | .411% | 3.700% |
| 18.0 | 140.038 | 4.633 | 44.296 | .432% | 4.132% |
| 19.0 | 139.056 | 4.856 | 49.151 | .453% | 4.585% |
| 20.0 | 137.995 | 5.071 | 54.222 | .473% | 5.058% |
| 21.0 | 136.889 | 5.278 | 59.500 | .492% | 5.550% |
| 22.0 | 135.678 | 5.477 | 64.978 | .511% | 6.061% |
| 23.0 | 134.423 | 5.667 | 70.645 | .529% | 6.590% |
| 24.0 | 133.088 | 5.849 | 76.494 | .546% | 7.136% |
| 25.0 | 131.696 | 6.021 | 82.515 | .562% | 7.697% |
| 26.0 | 130.208 | 6.182 | 88.697 | .577% | 8.274% |
| 27.0 | 128.644 | 6.333 | 95.030 | .591% | 8.865% |
| 28.0 | 127.063 | 6.474 | 101.504 | .604% | 9.469% |
| 29.0 | 125.402 | 6.605 | 108.109 | .616% | 10.085% |
| 30.0 | 123.649 | 6.724 | 114.833 | .627% | 10.712% |
| 31.0 | 121.822 | 6.831 | 121.664 | .637% | 11.349% |
| 32.0 | 119.888 | 6.925 | 128.589 | .646% | 11.995% |
| 33.0 | 117.818 | 7.003 | 135.592 | .653% | 12.649% |
| 34.0 | 115.501 | 7.061 | 142.653 | .659% | 13.307% |
| 35.0 | 113.101 | 7.100 | 149.752 | .662% | 13.969% |
| 36.0 | 110.789 | 7.129 | 156.881 | .665% | 14.634% |
| 37.0 | 108.190 | 7.142 | 164.023 | .666% | 15.301% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 105.728 | 7.140 | 171.163 | .666% | 15.967% |
| 39.0 | 103.076 | 7.127 | 178.290 | .665% | 16.632% |
| 40.0 | 100.332 | 7.094 | 185.384 | .662% | 17.293% |
| 41.0 | 97.487 | 7.044 | 192.429 | .657% | 17.950% |
| 42.0 | 94.633 | 6.980 | 199.409 | .651% | 18.602% |
| 43.0 | 91.713 | 6.903 | 206.312 | .644% | 19.245% |
| 44.0 | 88.714 | 6.810 | 213.121 | .635% | 19.881% |
| 45.0 | 85.714 | 6.703 | 219.825 | .625% | 20.506% |
| 46.0 | 82.636 | 6.584 | 226.409 | .614% | 21.120% |
| 47.0 | 79.442 | 6.446 | 232.855 | .601% | 21.722% |
| 48.0 | 76.245 | 6.294 | 239.149 | .587% | 22.309% |
| 49.0 | 73.135 | 6.134 | 245.283 | .572% | 22.881% |
| 50.0 | 69.827 | 5.961 | 251.244 | .556% | 23.437% |
| 51.0 | 66.529 | 5.769 | 257.013 | .538% | 23.975% |
| 52.0 | 63.283 | 5.570 | 262.583 | .520% | 24.495% |
| 53.0 | 59.966 | 5.361 | 267.944 | .500% | 24.995% |
| 54.0 | 56.689 | 5.142 | 273.086 | .480% | 25.474% |
| 55.0 | 53.373 | 4.913 | 277.999 | .458% | 25.933% |
| 56.0 | 50.052 | 4.673 | 282.672 | .436% | 26.369% |
| 57.0 | 46.766 | 4.427 | 287.099 | .413% | 26.782% |
| 58.0 | 43.419 | 4.170 | 291.269 | .389% | 27.171% |
| 59.0 | 40.133 | 3.906 | 295.176 | .364% | 27.535% |
| 60.0 | 36.812 | 3.635 | 298.811 | .339% | 27.874% |
| 61.0 | 33.584 | 3.359 | 302.170 | .313% | 28.188% |
| 62.0 | 30.412 | 3.084 | 305.254 | .288% | 28.475% |
| 63.0 | 27.175 | 2.801 | 308.055 | .261% | 28.736% |
| 64.0 | 24.132 | 2.518 | 310.572 | .235% | 28.971% |
| 65.0 | 21.027 | 2.235 | 312.807 | .208% | 29.180% |
| 66.0 | 18.111 | 1.953 | 314.760 | .182% | 29.362% |
| 67.0 | 15.173 | 1.674 | 316.433 | .156% | 29.518% |
| 68.0 | 12.460 | 1.400 | 317.833 | .131% | 29.649% |
| 69.0 | 9.809 | 1.136 | 318.969 | .106% | 29.755% |
| 70.0 | 7.316 | .879 | 319.849 | .082% | 29.837% |
| 71.0 | 5.158 | .645 | 320.493 | .060% | 29.897% |
| 72.0 | 3.250 | .437 | 320.931 | .041% | 29.938% |
| 73.0 | 1.819 | .265 | 321.196 | .025% | 29.962% |
| 74.0 | .982 | .147 | 321.343 | .014% | 29.976% |
| 75.0 | .722 | .090 | 321.433 | .008% | 29.984% |

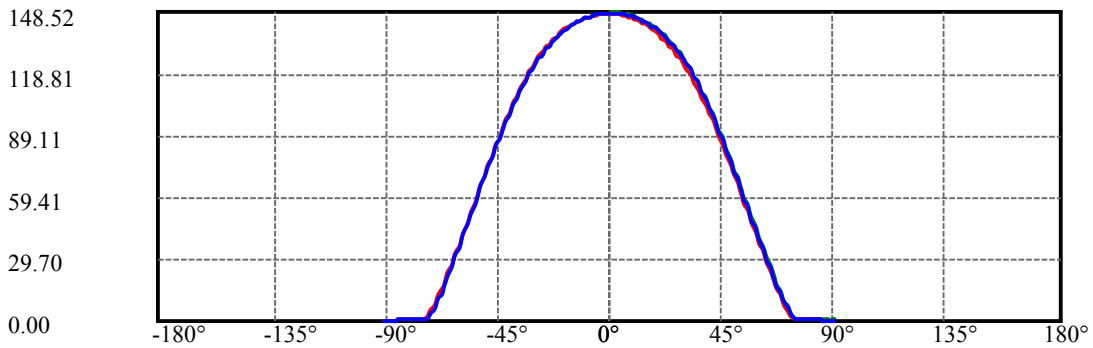
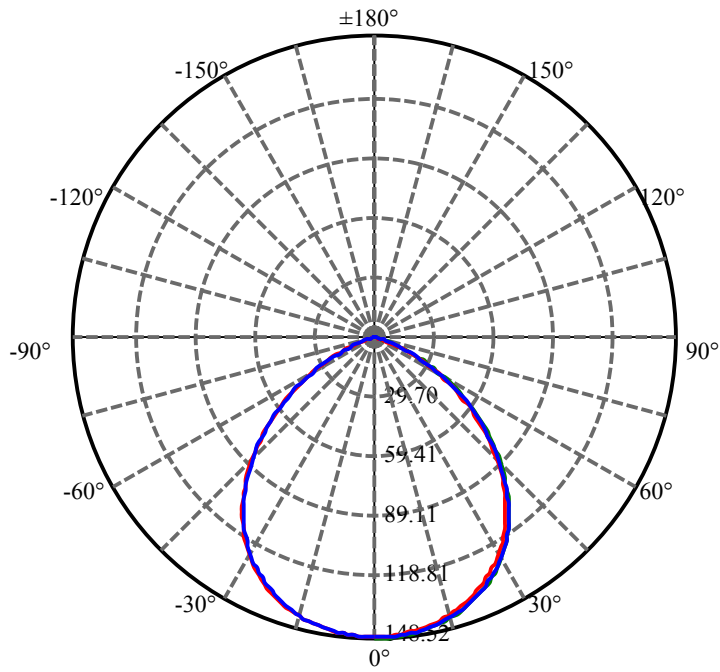
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | .661 | .073 | 321.507 | .007% | 29.991% |
| 77.0 | .625 | .069 | 321.575 | .006% | 29.998% |
| 78.0 | .590 | .065 | 321.640 | .006% | 30.004% |
| 79.0 | .564 | .062 | 321.702 | .006% | 30.010% |
| 80.0 | .533 | .059 | 321.761 | .006% | 30.015% |
| 81.0 | .515 | .057 | 321.818 | .005% | 30.020% |
| 82.0 | .507 | .055 | 321.873 | .005% | 30.026% |
| 83.0 | .484 | .054 | 321.927 | .005% | 30.031% |
| 84.0 | .467 | .052 | 321.979 | .005% | 30.035% |
| 85.0 | .445 | .050 | 322.029 | .005% | 30.040% |
| 86.0 | .440 | .048 | 322.077 | .005% | 30.045% |
| 87.0 | .440 | .048 | 322.125 | .004% | 30.049% |
| 88.0 | .423 | .047 | 322.173 | .004% | 30.053% |
| 89.0 | .432 | .047 | 322.220 | .004% | 30.058% |
| 90.0 | .414 | .046 | 322.266 | .004% | 30.062% |

ZONAL LUMEN SUMMARY

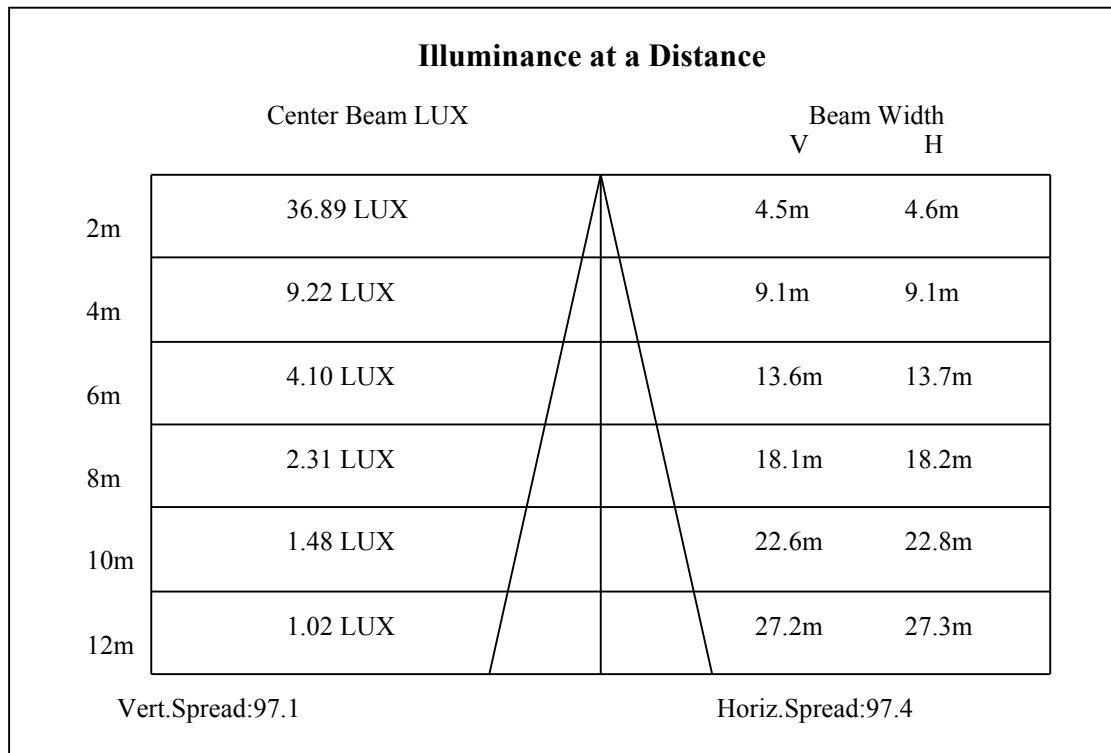
| Zone | Lumens | %Lamp | %Fixt |
|--------|--------|--------|---------|
| 0-30 | 114.83 | 10.71% | 35.63% |
| 0-40 | 185.38 | 17.29% | 57.53% |
| 0-60 | 298.81 | 27.87% | 92.72% |
| 0-90 | 322.22 | 30.06% | 99.99% |
| 90-120 | 0.00 | 0.00% | 0.00% |
| 90-130 | 0.00 | 0.00% | 0.00% |
| 90-150 | 0.00 | 0.00% | 0.00% |
| 90-180 | 0.00 | 0.00% | 0.00% |
| 0-180 | 322.27 | 30.06% | 100.00% |

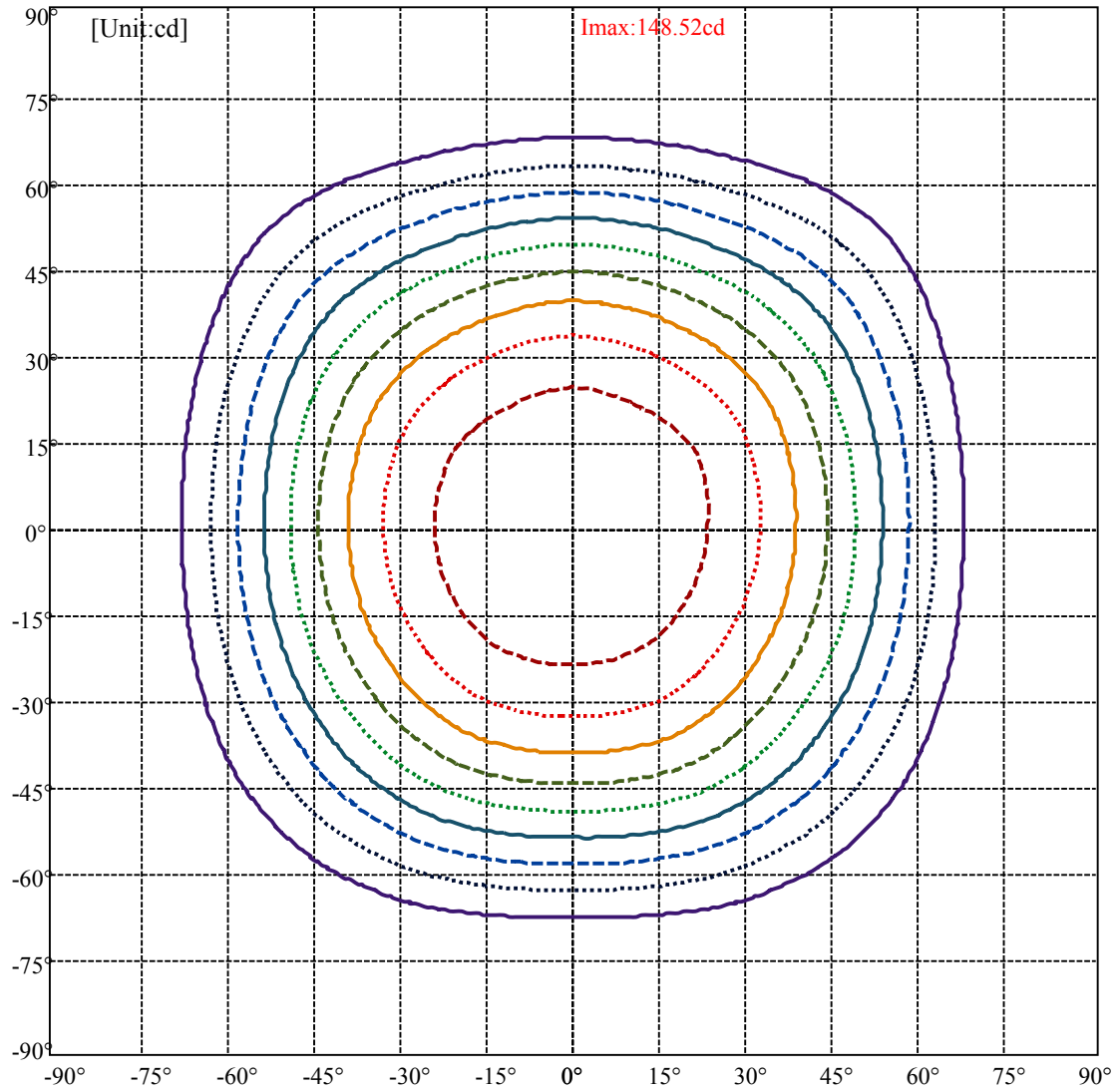
ZONAL LUMEN SUMMARY

| | |
|---------|-------|
| 0-10 | 14.01 |
| 10-20 | 40.22 |
| 20-30 | 60.61 |
| 30-40 | 70.55 |
| 40-50 | 65.86 |
| 50-60 | 47.57 |
| 60-70 | 21.04 |
| 70-80 | 1.91 |
| 80-90 | 0.46 |
| 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 |

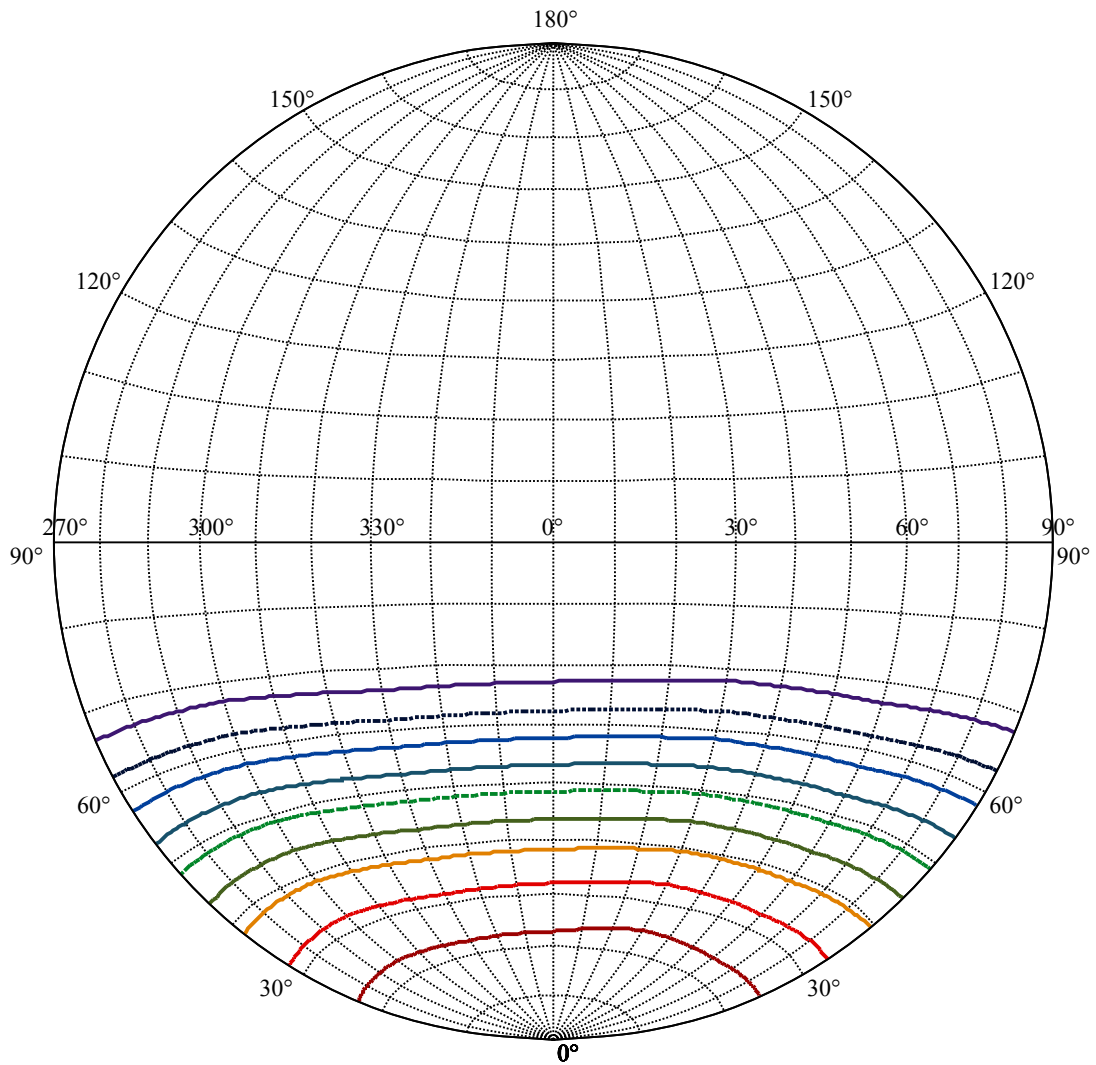


C30(Max): —
C0/C180: —
C90/C270: —





- (10%Imax) 14.8336 ————
- (20%Imax) 29.6672 ······
- (30%Imax) 44.5009 - - - - -
- (40%Imax) 59.3345 ————
- (50%Imax) 74.1681 ······
- (60%Imax) 89.0017 - - - - -
- (70%Imax) 103.835 ————
- (80%Imax) 118.669 ······
- (90%Imax) 133.503 - - - - -

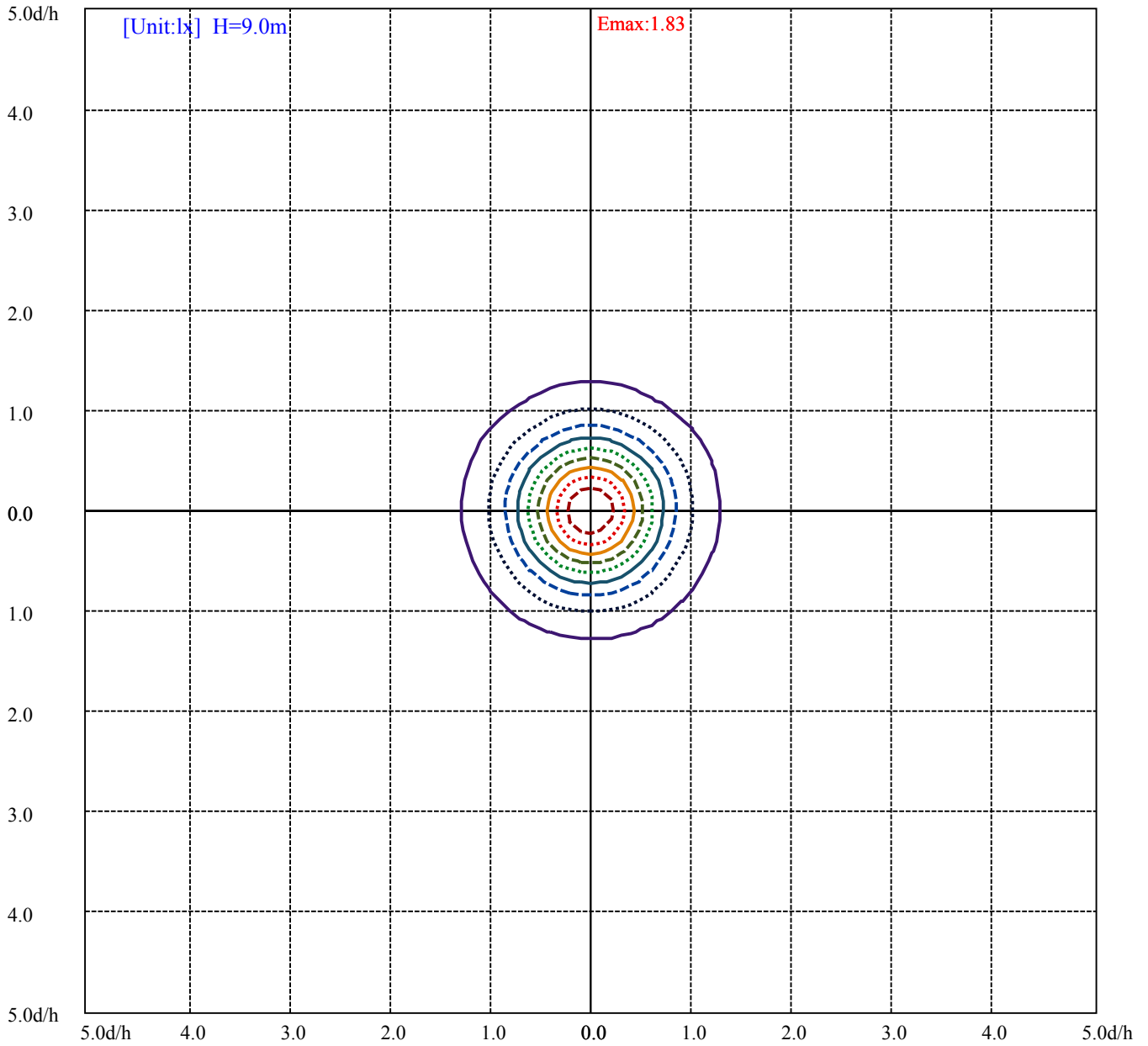


House

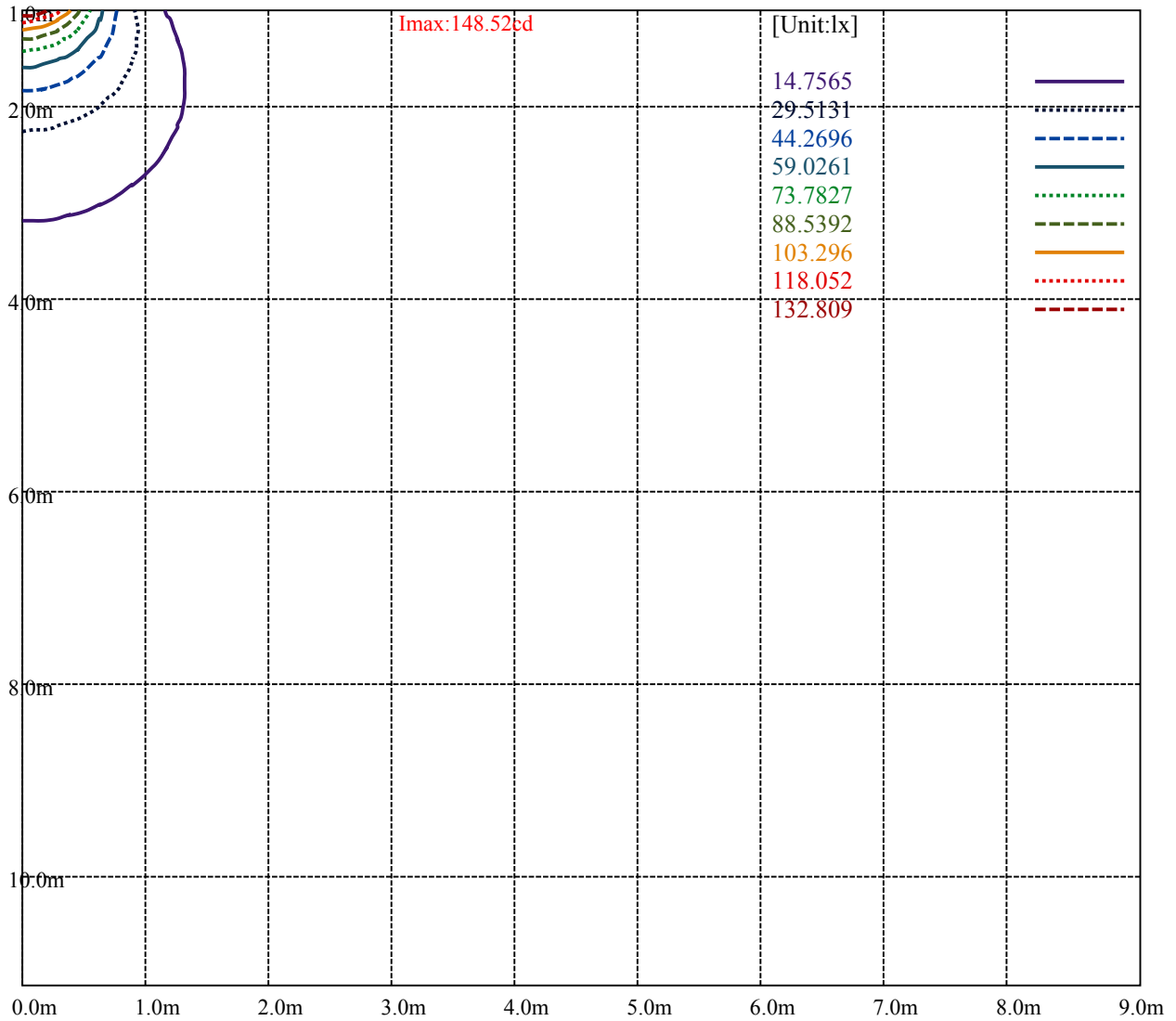
Road

I_{max}:148.52cd

| | |
|--------------------------------|-------|
| (10%I _{max}) 14.8517 | — |
| (20%I _{max}) 29.7033 | ⋯ |
| (30%I _{max}) 44.555 | - - - |
| (40%I _{max}) 59.4067 | — |
| (50%I _{max}) 74.2583 | ⋯ |
| (60%I _{max}) 89.11 | - - - |
| (70%I _{max}) 103.962 | — |
| (80%I _{max}) 118.813 | ⋯ |
| (90%I _{max}) 133.665 | - - - |



- (10%Emax) 0.183158 ————
- (20%Emax) 0.3663161 ······
- (30%Emax) 0.5494741 - - - -
- (40%Emax) 0.7326321 ————
- (50%Emax) 0.9157901 ······
- (60%Emax) 1.098948 - - - -
- (70%Emax) 1.282111 ————
- (80%Emax) 1.465259 ······
- (90%Emax) 1.64842 - - - -



Luminance Table

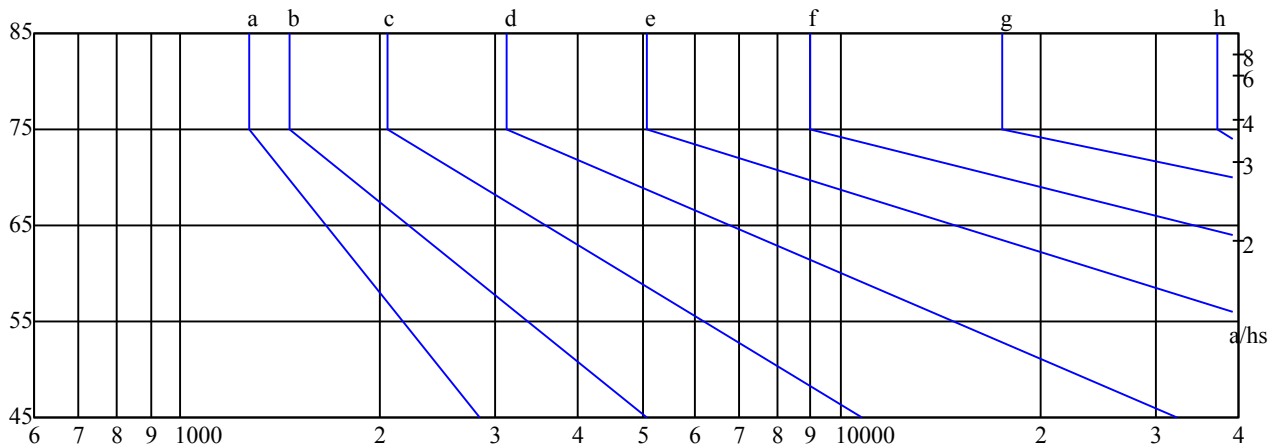
| | | | | | | | | | |
|----------|-----|-----|-----|-----|-----|----|----|----|----|
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
| C0 | 240 | 216 | 186 | 147 | 99 | 42 | 5 | 7 | 10 |
| C45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C90 | 246 | 221 | 190 | 152 | 106 | 51 | 6 | 6 | 10 |

Glare Table

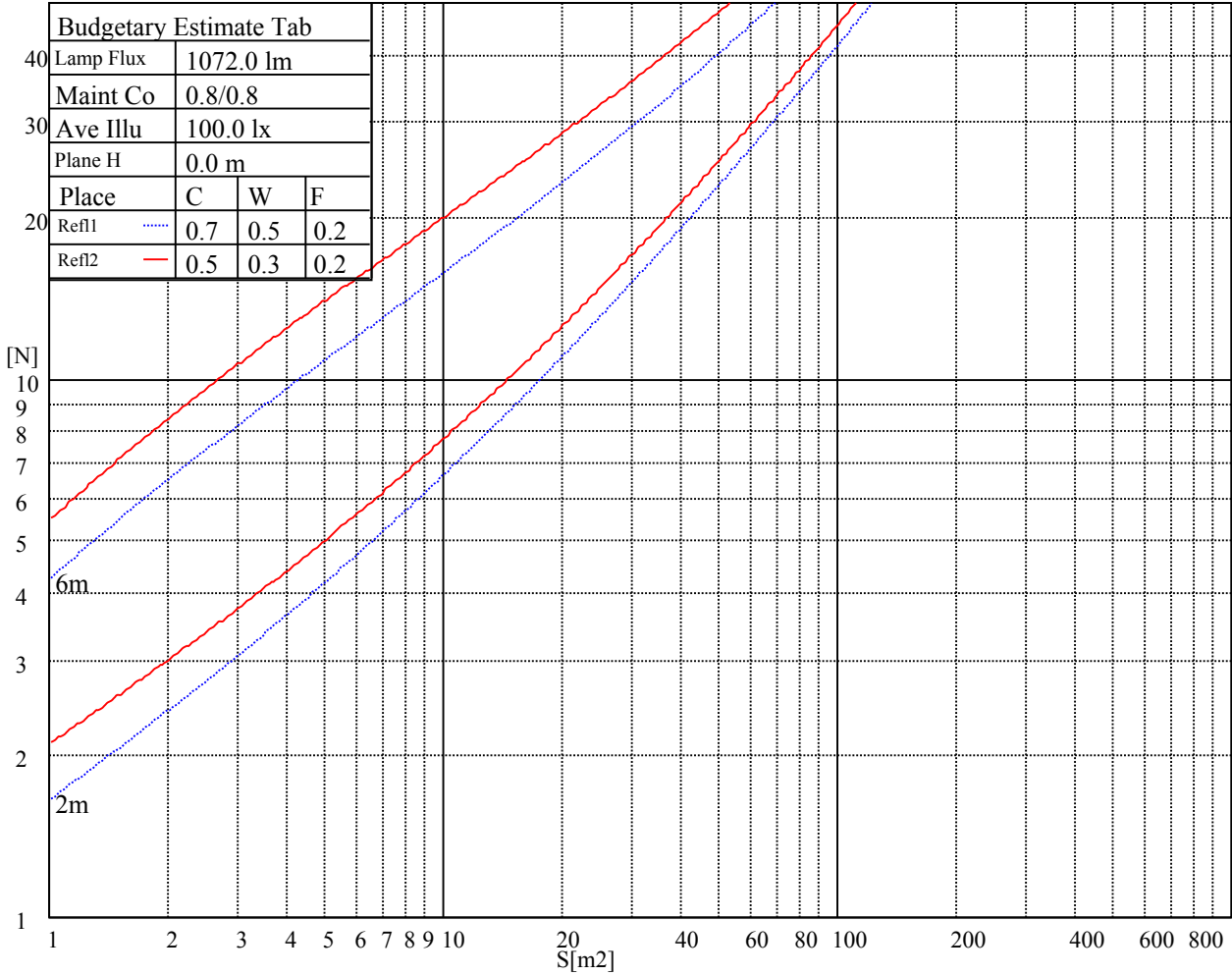
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 500 | <=300 | | |
| 2.2 | D | | | | 2000 | 1000 | 500 | <=300 | |
| 2.55 | E | | | | | 2000 | 1000 | 500 | <=300 |
| | | a | b | c | d | e | f | g | h |

$\gamma(^{\circ})$

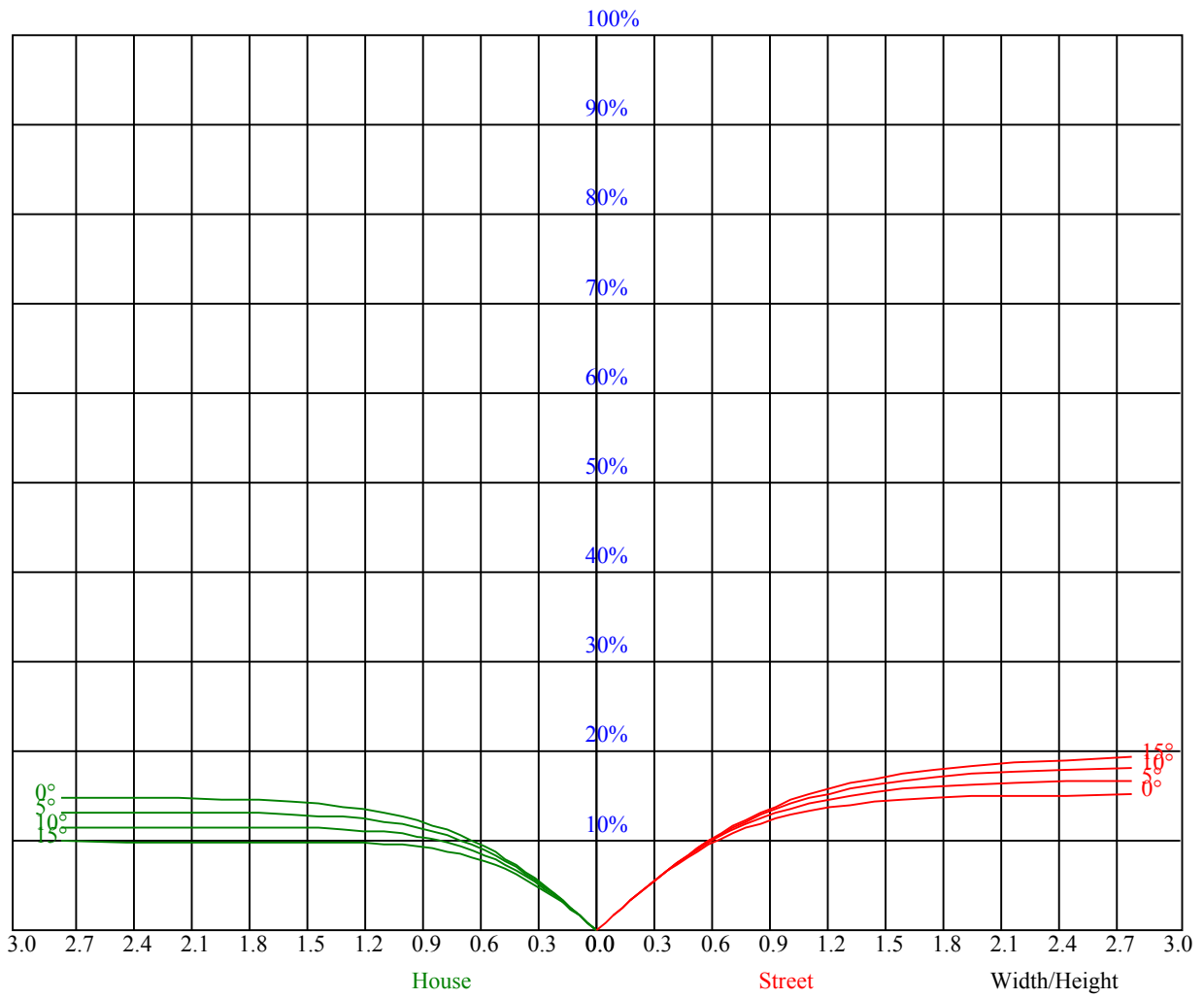
Luminance Limiting Curve



| 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 | 6.4 | 7.6 | 6.6 | 7.8 | 8.0 | 6.2 | 7.5 | 6.5 | 7.7 | 7.9 |
| | 3H | 6.6 | 7.7 | 6.9 | 7.9 | 8.2 | 6.5 | 7.6 | 6.8 | 7.8 | 8.1 |
| | 4H | 6.4 | 7.3 | 6.8 | 7.6 | 7.9 | 6.3 | 7.2 | 6.7 | 7.5 | 7.8 |
| | 6H | 6.4 | 7.3 | 6.8 | 7.6 | 7.9 | 6.3 | 7.2 | 6.7 | 7.5 | 7.8 |
| | 8H | 6.4 | 7.3 | 6.8 | 7.6 | 8.0 | 6.3 | 7.2 | 6.7 | 7.5 | 7.8 |
| | 12H | 6.2 | 6.9 | 6.7 | 7.3 | 7.7 | 6.1 | 6.8 | 6.6 | 7.2 | 7.6 |
| 4H | 2H | 6.5 | 7.4 | 6.8 | 7.7 | 8.0 | 6.4 | 7.3 | 6.7 | 7.6 | 7.9 |
| | 3H | 6.8 | 7.4 | 7.2 | 7.8 | 8.2 | 6.6 | 7.3 | 7.1 | 7.7 | 8.1 |
| | 4H | 6.8 | 7.4 | 7.2 | 7.8 | 8.2 | 6.6 | 7.3 | 7.1 | 7.7 | 8.1 |
| | 6H | 6.8 | 7.4 | 7.2 | 7.8 | 8.2 | 6.6 | 7.3 | 7.1 | 7.7 | 8.1 |
| | 8H | 6.6 | 7.0 | 7.1 | 7.4 | 7.9 | 6.5 | 6.8 | 7.0 | 7.3 | 7.8 |
| | 12H | 6.6 | 7.0 | 7.1 | 7.4 | 7.9 | 6.5 | 6.8 | 7.0 | 7.3 | 7.8 |
| 8H | 4H | 6.6 | 7.0 | 7.1 | 7.4 | 7.9 | 6.5 | 6.8 | 7.0 | 7.3 | 7.8 |
| | 6H | 6.6 | 7.0 | 7.1 | 7.4 | 7.9 | 6.5 | 6.9 | 7.0 | 7.3 | 7.8 |
| | 8H | 6.6 | 7.0 | 7.1 | 7.4 | 7.9 | 6.5 | 6.9 | 7.0 | 7.3 | 7.8 |
| | 12H | 6.6 | 7.0 | 7.1 | 7.4 | 8.0 | 6.5 | 6.9 | 7.0 | 7.3 | 7.8 |
| 12H | 4H | 6.6 | 7.0 | 7.1 | 7.4 | 7.9 | 6.5 | 6.8 | 7.0 | 7.3 | 7.8 |
| | 6H | 6.6 | 7.0 | 7.1 | 7.4 | 7.9 | 6.5 | 6.9 | 7.0 | 7.3 | 7.8 |
| | 8H | 6.6 | 7.0 | 7.1 | 7.4 | 7.9 | 6.5 | 6.9 | 7.0 | 7.3 | 7.8 |
| Variation with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | | 0.6/-0.7 | | | | | 0.5/-0.7 | | | | |
| S = 1.5H | | 0.9/-2.4 | | | | | 1.0/-2.2 | | | | |
| S = 2.0H | | 3.2/-5.0 | | | | | 3.3/-5.4 | | | | |
| Standard tables: | | BK1 | | | | | BK1 | | | | |
| Uncorrected UGR | | -15.4 | | | | | -15.5 | | | | |
| According 1000lm | | | | | | | | | | | |



| 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 | 0.36 | 0.36 | 0.36 | 0.35 | 0.35 | 0.35 | 0.33 | 0.33 | 0.33 | 0.32 | 0.32 | 0.32 | 0.31 | 0.31 | 0.31 | 0.30 |
| 1 | 0.32 | 0.31 | 0.30 | 0.32 | 0.31 | 0.30 | 0.30 | 0.30 | 0.29 | 0.29 | 0.29 | 0.28 | 0.28 | 0.28 | 0.27 | 0.27 |
| 2 | 0.29 | 0.27 | 0.26 | 0.28 | 0.27 | 0.26 | 0.27 | 0.26 | 0.25 | 0.26 | 0.25 | 0.24 | 0.26 | 0.25 | 0.24 | 0.23 |
| 3 | 0.26 | 0.24 | 0.22 | 0.25 | 0.24 | 0.22 | 0.25 | 0.23 | 0.22 | 0.24 | 0.22 | 0.21 | 0.23 | 0.22 | 0.21 | 0.20 |
| 4 | 0.23 | 0.21 | 0.19 | 0.23 | 0.21 | 0.19 | 0.22 | 0.20 | 0.19 | 0.21 | 0.20 | 0.19 | 0.21 | 0.19 | 0.18 | 0.18 |
| 5 | 0.21 | 0.19 | 0.17 | 0.21 | 0.18 | 0.17 | 0.20 | 0.18 | 0.17 | 0.19 | 0.18 | 0.16 | 0.19 | 0.17 | 0.16 | 0.16 |
| 6 | 0.19 | 0.17 | 0.15 | 0.19 | 0.16 | 0.15 | 0.18 | 0.16 | 0.15 | 0.18 | 0.16 | 0.15 | 0.17 | 0.16 | 0.14 | 0.14 |
| 7 | 0.17 | 0.15 | 0.13 | 0.17 | 0.15 | 0.13 | 0.17 | 0.15 | 0.13 | 0.16 | 0.14 | 0.13 | 0.16 | 0.14 | 0.13 | 0.12 |
| 8 | 0.16 | 0.14 | 0.12 | 0.16 | 0.13 | 0.12 | 0.15 | 0.13 | 0.12 | 0.15 | 0.13 | 0.12 | 0.15 | 0.13 | 0.12 | 0.11 |
| 9 | 0.15 | 0.12 | 0.11 | 0.14 | 0.12 | 0.11 | 0.14 | 0.12 | 0.11 | 0.14 | 0.12 | 0.11 | 0.14 | 0.12 | 0.11 | 0.10 |
| 10 | 0.14 | 0.11 | 0.10 | 0.13 | 0.11 | 0.10 | 0.13 | 0.11 | 0.10 | 0.13 | 0.11 | 0.10 | 0.13 | 0.11 | 0.10 | 0.09 |



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 | 147.57 | 147.57 | 147.41 | 147.35 | 147.14 | 146.88 | 146.61 | 146.24 | 145.77 |
| 30.0 | 148.52 | 148.52 | 148.41 | 148.31 | 148.20 | 147.99 | 147.72 | 147.46 | 147.14 |
| 60.0 | 148.20 | 148.20 | 148.20 | 148.04 | 147.88 | 147.62 | 147.30 | 146.98 | 146.61 |
| 90.0 | 148.04 | 147.99 | 147.99 | 147.88 | 147.72 | 147.51 | 147.35 | 147.04 | 146.72 |
| 120.0 | 147.83 | 147.83 | 147.72 | 147.67 | 147.51 | 147.35 | 147.04 | 146.77 | 146.30 |
| 150.0 | 147.62 | 147.62 | 147.67 | 147.51 | 147.46 | 147.30 | 147.09 | 146.72 | 146.51 |
| 180.0 | 147.57 | 147.62 | 147.51 | 147.41 | 147.30 | 147.09 | 146.83 | 146.56 | 146.14 |
| 210.0 | 148.52 | 148.41 | 148.36 | 148.15 | 148.04 | 147.83 | 147.57 | 147.30 | 146.77 |
| 240.0 | 148.20 | 148.15 | 148.09 | 147.99 | 147.83 | 147.62 | 147.35 | 146.93 | 146.61 |
| 270.0 | 148.04 | 147.88 | 147.78 | 147.62 | 147.41 | 147.14 | 146.88 | 146.51 | 146.09 |
| 300.0 | 147.83 | 147.78 | 147.67 | 147.57 | 147.35 | 147.20 | 146.83 | 146.46 | 146.14 |
| 330.0 | 147.62 | 147.62 | 147.46 | 147.25 | 147.09 | 146.77 | 146.46 | 146.14 | 145.66 |
| 360.0 | 147.57 | 147.57 | 147.41 | 147.35 | 147.14 | 146.88 | 146.61 | 146.24 | 145.77 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 145.40 | 144.98 | 144.39 | 143.92 | 143.28 | 142.54 | 141.86 | 141.01 | 140.17 |
| 30.0 | 146.67 | 146.35 | 145.82 | 145.24 | 144.71 | 144.08 | 143.44 | 142.70 | 142.07 |
| 60.0 | 146.30 | 145.82 | 145.40 | 144.82 | 144.29 | 143.76 | 143.02 | 142.17 | 141.33 |
| 90.0 | 146.40 | 145.98 | 145.56 | 144.98 | 144.34 | 143.76 | 143.07 | 142.33 | 141.59 |
| 120.0 | 145.98 | 145.45 | 144.98 | 144.45 | 143.87 | 143.23 | 142.49 | 141.75 | 140.91 |
| 150.0 | 146.09 | 145.66 | 145.24 | 144.71 | 144.18 | 143.55 | 142.86 | 142.12 | 141.33 |
| 180.0 | 145.77 | 145.40 | 144.87 | 144.34 | 143.71 | 143.18 | 142.44 | 141.54 | 140.75 |
| 210.0 | 146.40 | 145.98 | 145.45 | 144.76 | 144.13 | 143.50 | 142.70 | 141.91 | 141.01 |
| 240.0 | 146.24 | 145.77 | 145.29 | 144.55 | 144.13 | 143.44 | 142.60 | 141.91 | 141.06 |
| 270.0 | 145.66 | 145.29 | 144.66 | 144.13 | 143.55 | 142.86 | 142.12 | 141.28 | 140.38 |
| 300.0 | 145.61 | 145.19 | 144.66 | 144.13 | 143.55 | 142.81 | 142.17 | 141.33 | 140.59 |
| 330.0 | 145.24 | 144.76 | 144.24 | 143.55 | 142.91 | 142.28 | 141.54 | 140.75 | 139.95 |
| 360.0 | 145.40 | 144.98 | 144.39 | 143.92 | 143.28 | 142.54 | 141.86 | 141.01 | 140.17 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 139.27 | 138.26 | 137.10 | 136.04 | 134.77 | 133.56 | 132.29 | 130.76 | 129.17 |
| 30.0 | 141.17 | 140.22 | 139.21 | 138.16 | 136.99 | 135.83 | 134.62 | 133.24 | 131.82 |
| 60.0 | 140.54 | 139.48 | 138.47 | 137.26 | 136.04 | 134.62 | 133.40 | 131.97 | 130.65 |
| 90.0 | 140.85 | 139.95 | 138.95 | 138.00 | 136.78 | 135.51 | 134.19 | 132.98 | 131.66 |
| 120.0 | 139.95 | 139.00 | 137.95 | 136.78 | 135.73 | 134.40 | 133.14 | 131.71 | 130.18 |
| 150.0 | 140.48 | 139.58 | 138.63 | 137.58 | 136.36 | 135.25 | 133.93 | 132.66 | 131.18 |
| 180.0 | 139.85 | 138.95 | 137.95 | 136.78 | 135.73 | 134.40 | 133.19 | 131.76 | 130.23 |
| 210.0 | 140.01 | 139.00 | 137.79 | 136.73 | 135.41 | 134.09 | 132.77 | 131.34 | 129.70 |
| 240.0 | 140.27 | 139.21 | 138.10 | 137.05 | 135.78 | 134.56 | 133.08 | 131.60 | 130.18 |
| 270.0 | 139.48 | 138.37 | 137.31 | 136.10 | 134.83 | 133.67 | 132.19 | 130.86 | 129.28 |
| 300.0 | 139.64 | 138.63 | 137.63 | 136.47 | 135.30 | 133.98 | 132.56 | 131.23 | 129.65 |
| 330.0 | 138.95 | 138.00 | 136.84 | 135.73 | 134.40 | 133.19 | 131.71 | 130.23 | 128.80 |
| 360.0 | 139.27 | 138.26 | 137.10 | 136.04 | 134.77 | 133.56 | 132.29 | 130.76 | 129.17 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 127.53 | 126.05 | 124.31 | 122.62 | 120.66 | 119.08 | 116.75 | 114.27 | 111.94 |
| 30.0 | 130.23 | 128.86 | 127.11 | 125.53 | 123.68 | 121.61 | 119.76 | 117.44 | 115.06 |
| 60.0 | 129.07 | 127.64 | 125.84 | 124.05 | 122.30 | 120.19 | 118.18 | 115.85 | 113.37 |
| 90.0 | 130.12 | 128.49 | 126.74 | 125.16 | 123.31 | 121.61 | 119.66 | 117.44 | 115.01 |
| 120.0 | 128.80 | 127.16 | 125.42 | 123.78 | 122.09 | 120.08 | 118.07 | 115.33 | 113.16 |
| 150.0 | 129.65 | 128.22 | 126.58 | 124.89 | 123.25 | 121.24 | 119.29 | 116.96 | 114.85 |
| 180.0 | 128.75 | 127.11 | 125.53 | 123.83 | 121.77 | 119.82 | 117.54 | 115.43 | 112.84 |
| 210.0 | 128.17 | 126.42 | 124.94 | 122.94 | 120.87 | 118.87 | 116.65 | 114.43 | 111.94 |
| 240.0 | 128.54 | 126.90 | 125.31 | 123.52 | 121.67 | 119.87 | 117.81 | 115.80 | 113.16 |
| 270.0 | 127.75 | 125.95 | 124.26 | 122.51 | 120.77 | 118.65 | 116.59 | 114.22 | 111.68 |
| 300.0 | 128.01 | 126.53 | 124.89 | 123.09 | 121.46 | 119.76 | 117.65 | 115.38 | 113.21 |
| 330.0 | 127.11 | 125.42 | 123.89 | 121.88 | 120.03 | 117.86 | 115.85 | 113.48 | 110.99 |
| 360.0 | 127.53 | 126.05 | 124.31 | 122.62 | 120.66 | 119.08 | 116.75 | 114.27 | 111.94 |

Intensity data(cd)

| | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 109.67 | 106.92 | 104.54 | 102.01 | 99.47 | 96.62 | 94.08 | 91.12 | 88.11 |
| 30.0 | 112.79 | 110.20 | 107.82 | 105.12 | 102.64 | 99.73 | 96.72 | 94.03 | 90.96 |
| 60.0 | 111.10 | 108.56 | 105.92 | 103.43 | 100.79 | 97.73 | 94.71 | 91.91 | 88.69 |
| 90.0 | 112.74 | 110.15 | 107.40 | 104.97 | 102.11 | 99.15 | 96.46 | 93.34 | 90.27 |
| 120.0 | 110.89 | 108.24 | 105.86 | 103.01 | 100.16 | 97.04 | 94.34 | 91.17 | 88.32 |
| 150.0 | 112.37 | 109.83 | 107.40 | 104.70 | 102.16 | 99.20 | 96.25 | 93.44 | 90.33 |
| 180.0 | 110.30 | 107.71 | 105.44 | 102.59 | 99.89 | 97.30 | 94.18 | 91.07 | 87.89 |
| 210.0 | 109.62 | 106.92 | 104.12 | 101.53 | 98.62 | 95.93 | 92.81 | 89.69 | 86.84 |
| 240.0 | 110.89 | 108.35 | 105.76 | 103.27 | 100.42 | 97.41 | 94.87 | 91.86 | 89.11 |
| 270.0 | 109.46 | 106.87 | 104.54 | 101.79 | 98.94 | 96.35 | 93.34 | 90.64 | 87.52 |
| 300.0 | 110.89 | 108.30 | 106.13 | 103.43 | 100.58 | 98.09 | 95.19 | 92.60 | 89.59 |
| 330.0 | 108.77 | 106.23 | 103.80 | 101.05 | 98.20 | 95.29 | 92.65 | 89.69 | 86.94 |
| 360.0 | 109.67 | 106.92 | 104.54 | 102.01 | 99.47 | 96.62 | 94.08 | 91.12 | 88.11 |
| C/γ(°) | 45.0 | 46.0 | 47.0 | 48.0 | 49.0 | 50.0 | 51.0 | 52.0 | 53.0 |
| 0.0 | 85.30 | 82.13 | 78.91 | 76.00 | 72.67 | 69.71 | 66.28 | 62.95 | 59.94 |
| 30.0 | 88.26 | 85.04 | 81.71 | 78.86 | 75.58 | 72.25 | 68.92 | 65.91 | 62.79 |
| 60.0 | 85.83 | 82.61 | 79.28 | 75.90 | 72.94 | 69.50 | 66.01 | 62.89 | 59.35 |
| 90.0 | 87.42 | 84.51 | 81.18 | 77.85 | 74.47 | 71.40 | 68.07 | 64.96 | 61.52 |
| 120.0 | 84.99 | 82.08 | 78.75 | 75.53 | 72.51 | 69.13 | 66.01 | 62.47 | 58.93 |
| 150.0 | 87.26 | 84.41 | 81.13 | 78.17 | 74.84 | 71.35 | 68.34 | 64.90 | 61.79 |
| 180.0 | 85.04 | 81.76 | 78.86 | 75.69 | 72.73 | 69.29 | 65.80 | 62.74 | 59.20 |
| 210.0 | 83.51 | 80.23 | 77.27 | 73.84 | 70.77 | 67.33 | 63.90 | 60.83 | 57.66 |
| 240.0 | 85.99 | 83.14 | 79.86 | 76.58 | 73.57 | 70.14 | 66.75 | 63.74 | 60.41 |
| 270.0 | 84.72 | 81.50 | 78.28 | 75.00 | 71.99 | 68.97 | 65.54 | 62.05 | 58.56 |
| 300.0 | 86.47 | 83.67 | 80.39 | 77.11 | 74.10 | 70.72 | 67.65 | 64.27 | 61.26 |
| 330.0 | 83.77 | 80.55 | 77.69 | 74.42 | 71.46 | 68.13 | 65.06 | 61.68 | 58.19 |
| 360.0 | 85.30 | 82.13 | 78.91 | 76.00 | 72.67 | 69.71 | 66.28 | 62.95 | 59.94 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 56.71 | 53.70 | 50.32 | 46.83 | 43.71 | 40.22 | 36.89 | 33.88 | 30.50 |
| 30.0 | 59.35 | 55.87 | 52.85 | 49.47 | 46.46 | 43.02 | 40.01 | 36.20 | 33.24 |
| 60.0 | 56.18 | 53.12 | 49.21 | 46.09 | 43.02 | 39.64 | 36.26 | 33.30 | 30.02 |
| 90.0 | 58.40 | 54.91 | 51.43 | 48.36 | 44.82 | 41.75 | 38.32 | 34.94 | 31.92 |
| 120.0 | 55.81 | 52.27 | 49.15 | 45.66 | 42.23 | 39.16 | 35.78 | 32.40 | 29.39 |
| 150.0 | 58.30 | 55.18 | 51.80 | 48.31 | 45.19 | 41.70 | 38.27 | 35.20 | 31.82 |
| 180.0 | 56.13 | 52.64 | 49.26 | 46.14 | 42.71 | 39.75 | 36.42 | 33.09 | 30.13 |
| 210.0 | 53.80 | 50.79 | 47.30 | 44.24 | 40.86 | 37.47 | 34.51 | 31.50 | 28.33 |
| 240.0 | 57.35 | 54.02 | 50.63 | 47.51 | 43.97 | 40.86 | 37.37 | 34.30 | 30.87 |
| 270.0 | 55.39 | 52.01 | 48.84 | 45.72 | 42.23 | 38.74 | 35.25 | 32.13 | 29.12 |
| 300.0 | 57.77 | 54.33 | 51.32 | 47.78 | 44.19 | 41.12 | 37.58 | 34.41 | 30.97 |
| 330.0 | 55.07 | 51.64 | 48.52 | 45.08 | 41.65 | 38.16 | 35.09 | 31.66 | 28.65 |
| 360.0 | 56.71 | 53.70 | 50.32 | 46.83 | 43.71 | 40.22 | 36.89 | 33.88 | 30.50 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 27.54 | 24.31 | 21.09 | 18.34 | 15.22 | 12.58 | 9.78 | 7.14 | 5.02 |
| 30.0 | 30.23 | 26.95 | 24.10 | 20.88 | 17.81 | 15.17 | 12.21 | 9.35 | 7.03 |
| 60.0 | 26.69 | 23.78 | 20.67 | 17.92 | 14.96 | 12.42 | 9.78 | 7.35 | 5.34 |
| 90.0 | 28.59 | 25.69 | 22.46 | 19.29 | 16.33 | 13.74 | 11.31 | 8.77 | 6.45 |
| 120.0 | 26.00 | 22.78 | 20.03 | 16.97 | 14.32 | 11.52 | 9.25 | 6.87 | 4.70 |
| 150.0 | 28.59 | 25.69 | 22.52 | 19.77 | 16.70 | 14.16 | 11.42 | 8.83 | 6.71 |
| 180.0 | 26.85 | 24.05 | 20.98 | 17.92 | 15.38 | 12.53 | 9.88 | 7.72 | 5.50 |
| 210.0 | 25.11 | 22.25 | 19.13 | 16.44 | 13.48 | 10.73 | 8.35 | 6.03 | 3.81 |
| 240.0 | 27.54 | 24.68 | 21.51 | 18.71 | 15.59 | 12.58 | 9.67 | 7.29 | 4.97 |
| 270.0 | 25.69 | 22.36 | 19.19 | 16.38 | 13.32 | 10.73 | 7.98 | 5.55 | 3.59 |
| 300.0 | 27.96 | 24.68 | 21.46 | 18.66 | 15.59 | 12.84 | 9.94 | 7.24 | 5.07 |
| 330.0 | 25.32 | 22.36 | 19.19 | 16.07 | 13.37 | 10.52 | 8.14 | 5.66 | 3.70 |
| 360.0 | 27.54 | 24.31 | 21.09 | 18.34 | 15.22 | 12.58 | 9.78 | 7.14 | 5.02 |

Intensity data(cd)

Page: 19 Total:19

| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
|--------|------|------|------|------|------|------|------|------|------|
| 0.0 | 3.01 | 1.64 | 0.79 | 0.69 | 0.63 | 0.63 | 0.63 | 0.58 | 0.58 |
| 30.0 | 4.70 | 2.75 | 1.37 | 0.74 | 0.69 | 0.63 | 0.63 | 0.58 | 0.53 |
| 60.0 | 3.38 | 1.80 | 0.85 | 0.63 | 0.63 | 0.58 | 0.58 | 0.58 | 0.53 |
| 90.0 | 4.55 | 2.75 | 1.37 | 0.74 | 0.63 | 0.58 | 0.58 | 0.58 | 0.53 |
| 120.0 | 3.01 | 1.74 | 0.85 | 0.69 | 0.63 | 0.63 | 0.53 | 0.53 | 0.53 |
| 150.0 | 4.65 | 3.07 | 1.69 | 0.85 | 0.69 | 0.63 | 0.58 | 0.53 | 0.53 |
| 180.0 | 3.49 | 2.06 | 1.00 | 0.74 | 0.63 | 0.58 | 0.58 | 0.53 | 0.48 |
| 210.0 | 2.27 | 1.11 | 0.74 | 0.69 | 0.63 | 0.63 | 0.58 | 0.58 | 0.58 |
| 240.0 | 3.12 | 1.53 | 0.85 | 0.79 | 0.69 | 0.69 | 0.63 | 0.63 | 0.58 |
| 270.0 | 1.90 | 0.90 | 0.74 | 0.74 | 0.69 | 0.63 | 0.58 | 0.53 | 0.53 |
| 300.0 | 3.01 | 1.59 | 0.79 | 0.74 | 0.74 | 0.63 | 0.58 | 0.58 | 0.53 |
| 330.0 | 1.90 | 0.90 | 0.74 | 0.63 | 0.63 | 0.63 | 0.58 | 0.53 | 0.48 |
| 360.0 | 3.01 | 1.64 | 0.79 | 0.69 | 0.63 | 0.63 | 0.63 | 0.58 | 0.58 |

| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
|--------|------|------|------|------|------|------|------|------|------|
| 0.0 | 0.53 | 0.48 | 0.48 | 0.48 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 |
| 30.0 | 0.53 | 0.53 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.42 | 0.48 |
| 60.0 | 0.53 | 0.48 | 0.53 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.42 |
| 90.0 | 0.53 | 0.48 | 0.53 | 0.48 | 0.42 | 0.42 | 0.37 | 0.42 | 0.42 |
| 120.0 | 0.48 | 0.53 | 0.48 | 0.48 | 0.42 | 0.42 | 0.48 | 0.42 | 0.42 |
| 150.0 | 0.53 | 0.53 | 0.42 | 0.42 | 0.48 | 0.48 | 0.48 | 0.42 | 0.48 |
| 180.0 | 0.48 | 0.48 | 0.48 | 0.48 | 0.42 | 0.37 | 0.42 | 0.42 | 0.37 |
| 210.0 | 0.53 | 0.48 | 0.53 | 0.48 | 0.42 | 0.48 | 0.42 | 0.48 | 0.48 |
| 240.0 | 0.53 | 0.58 | 0.48 | 0.42 | 0.48 | 0.42 | 0.42 | 0.37 | 0.48 |
| 270.0 | 0.53 | 0.53 | 0.48 | 0.48 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 |
| 300.0 | 0.53 | 0.53 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.37 | 0.42 |
| 330.0 | 0.48 | 0.48 | 0.48 | 0.48 | 0.42 | 0.42 | 0.42 | 0.42 | 0.37 |
| 360.0 | 0.53 | 0.48 | 0.48 | 0.48 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 |

| C/γ(°) | 90.0 |
|--------|------|
| 0.0 | 0.42 |
| 30.0 | 0.48 |
| 60.0 | 0.42 |
| 90.0 | 0.42 |
| 120.0 | 0.37 |
| 150.0 | 0.37 |
| 180.0 | 0.42 |
| 210.0 | 0.42 |
| 240.0 | 0.42 |
| 270.0 | 0.42 |
| 300.0 | 0.37 |
| 330.0 | 0.42 |
| 360.0 | 0.42 |