



ASD LIGHTING CORP

Address: 120 Shawmut road, Canton, MA, 02021 USA

LumCAT: ASD-CSFL-A2050

Luminaire:

Report No:

Test No:

LampCAT: LED

Lamp flux(lm): -1.0

Number of Lamps: 0

Length(mm): 0

Phm Type: C

Voltage(V): 120.0000

Current(A): 0.1760

Power (W): 20.5400

PF: 0.9710

Ballast type:

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 1887.85

Efficiency(%): 0.00%

Lumens(lm)/Power(W): 91.91

Central intensity(cd): 750.291

Maximum intensity(cd): 756.471

Angle of maximum intensity: C=15.0 γ =10.0

Beam Angle(50%Imax): [C0/180]Total=108.0

[C90/270]Total=106.9

Field angle(10%Imax): [C0/180]Total=142.4

[C90/270]Total=135.5



Equipment: GMS-1800
Temperature(°C): 26.0

Date: 2016/12/19
Humidity(%): 45.0%

Operator:
Distance(m): 14.36

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 750.744 | .000 | .000 | .000% | .000% |
| 1.0 | 750.383 | .718 | .718 | .000% | .000% |
| 2.0 | 749.951 | 2.153 | 2.872 | .000% | .000% |
| 3.0 | 749.240 | 3.586 | 6.457 | .000% | .000% |
| 4.0 | 748.025 | 5.012 | 11.469 | .000% | .000% |
| 5.0 | 746.479 | 6.429 | 17.898 | .000% | .000% |
| 6.0 | 744.996 | 7.838 | 25.736 | .000% | .000% |
| 7.0 | 743.647 | 9.240 | 34.976 | .000% | .000% |
| 8.0 | 742.256 | 10.634 | 45.611 | .000% | .000% |
| 9.0 | 740.660 | 12.018 | 57.629 | .000% | .000% |
| 10.0 | 738.919 | 13.390 | 71.019 | .000% | .000% |
| 11.0 | 736.745 | 14.745 | 85.764 | .000% | .000% |
| 12.0 | 733.944 | 16.077 | 101.840 | .000% | .000% |
| 13.0 | 730.596 | 17.380 | 119.221 | .000% | .000% |
| 14.0 | 727.073 | 18.658 | 137.879 | .000% | .000% |
| 15.0 | 723.314 | 19.912 | 157.790 | .000% | .000% |
| 16.0 | 719.667 | 21.144 | 178.934 | .000% | .000% |
| 17.0 | 715.969 | 22.357 | 201.291 | .000% | .000% |
| 18.0 | 712.169 | 23.547 | 224.838 | .000% | .000% |
| 19.0 | 708.244 | 24.712 | 249.550 | .000% | .000% |
| 20.0 | 703.660 | 25.842 | 275.392 | .000% | .000% |
| 21.0 | 698.829 | 26.931 | 302.322 | .000% | .000% |
| 22.0 | 693.700 | 27.983 | 330.306 | .000% | .000% |
| 23.0 | 687.880 | 28.989 | 359.295 | .000% | .000% |
| 24.0 | 681.514 | 29.940 | 389.235 | .000% | .000% |
| 25.0 | 674.283 | 30.828 | 420.063 | .000% | .000% |
| 26.0 | 666.939 | 31.660 | 451.722 | .000% | .000% |
| 27.0 | 659.141 | 32.443 | 484.165 | .000% | .000% |
| 28.0 | 651.344 | 33.179 | 517.344 | .000% | .000% |
| 29.0 | 643.227 | 33.870 | 551.214 | .000% | .000% |
| 30.0 | 634.997 | 34.512 | 585.725 | .000% | .000% |
| 31.0 | 626.540 | 35.107 | 620.832 | .000% | .000% |
| 32.0 | 617.692 | 35.646 | 656.478 | .000% | .000% |
| 33.0 | 609.287 | 36.147 | 692.625 | .000% | .000% |
| 34.0 | 599.975 | 36.596 | 729.221 | .000% | .000% |
| 35.0 | 591.426 | 37.000 | 766.221 | .000% | .000% |
| 36.0 | 582.330 | 37.373 | 803.594 | .000% | .000% |
| 37.0 | 573.575 | 37.699 | 841.293 | .000% | .000% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 564.335 | 37.982 | 879.275 | .000% | .000% |
| 39.0 | 555.539 | 38.224 | 917.500 | .000% | .000% |
| 40.0 | 546.392 | 38.431 | 955.931 | .000% | .000% |
| 41.0 | 537.204 | 38.586 | 994.517 | .000% | .000% |
| 42.0 | 528.005 | 38.701 | 1033.218 | .000% | .000% |
| 43.0 | 518.075 | 38.750 | 1071.968 | .000% | .000% |
| 44.0 | 508.063 | 38.729 | 1110.697 | .000% | .000% |
| 45.0 | 497.413 | 38.642 | 1149.339 | .000% | .000% |
| 46.0 | 486.978 | 38.497 | 1187.836 | .000% | .000% |
| 47.0 | 475.421 | 38.277 | 1226.113 | .000% | .000% |
| 48.0 | 464.461 | 37.995 | 1264.108 | .000% | .000% |
| 49.0 | 452.667 | 37.662 | 1301.771 | .000% | .000% |
| 50.0 | 439.802 | 37.210 | 1338.981 | .000% | .000% |
| 51.0 | 426.926 | 36.670 | 1375.651 | .000% | .000% |
| 52.0 | 412.969 | 36.041 | 1411.691 | .000% | .000% |
| 53.0 | 398.970 | 35.319 | 1447.011 | .000% | .000% |
| 54.0 | 384.539 | 34.534 | 1481.544 | .000% | .000% |
| 55.0 | 369.326 | 33.651 | 1515.196 | .000% | .000% |
| 56.0 | 352.288 | 32.608 | 1547.803 | .000% | .000% |
| 57.0 | 336.487 | 31.492 | 1579.296 | .000% | .000% |
| 58.0 | 320.686 | 30.390 | 1609.686 | .000% | .000% |
| 59.0 | 302.825 | 29.150 | 1638.835 | .000% | .000% |
| 60.0 | 284.954 | 27.769 | 1666.604 | .000% | .000% |
| 61.0 | 269.441 | 26.457 | 1693.061 | .000% | .000% |
| 62.0 | 251.673 | 25.110 | 1718.171 | .000% | .000% |
| 63.0 | 232.493 | 23.548 | 1741.719 | .000% | .000% |
| 64.0 | 214.292 | 21.924 | 1763.642 | .000% | .000% |
| 65.0 | 194.392 | 20.225 | 1783.868 | .000% | .000% |
| 66.0 | 172.184 | 18.290 | 1802.158 | .000% | .000% |
| 67.0 | 149.687 | 16.185 | 1818.342 | .000% | .000% |
| 68.0 | 133.031 | 14.322 | 1832.664 | .000% | .000% |
| 69.0 | 109.361 | 12.366 | 1845.030 | .000% | .000% |
| 70.0 | 90.109 | 10.244 | 1855.274 | .000% | .000% |
| 71.0 | 73.566 | 8.460 | 1863.734 | .000% | .000% |
| 72.0 | 54.201 | 6.644 | 1870.377 | .000% | .000% |
| 73.0 | 38.565 | 4.851 | 1875.228 | .000% | .000% |
| 74.0 | 27.101 | 3.452 | 1878.680 | .000% | .000% |
| 75.0 | 17.161 | 2.339 | 1881.019 | .000% | .000% |

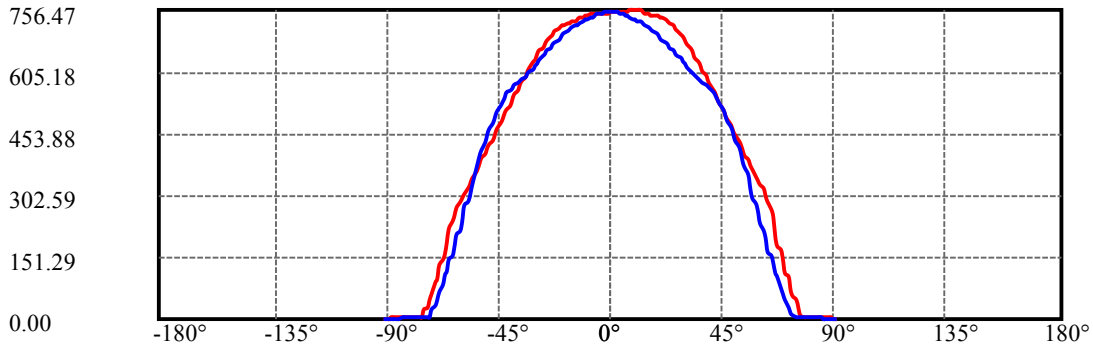
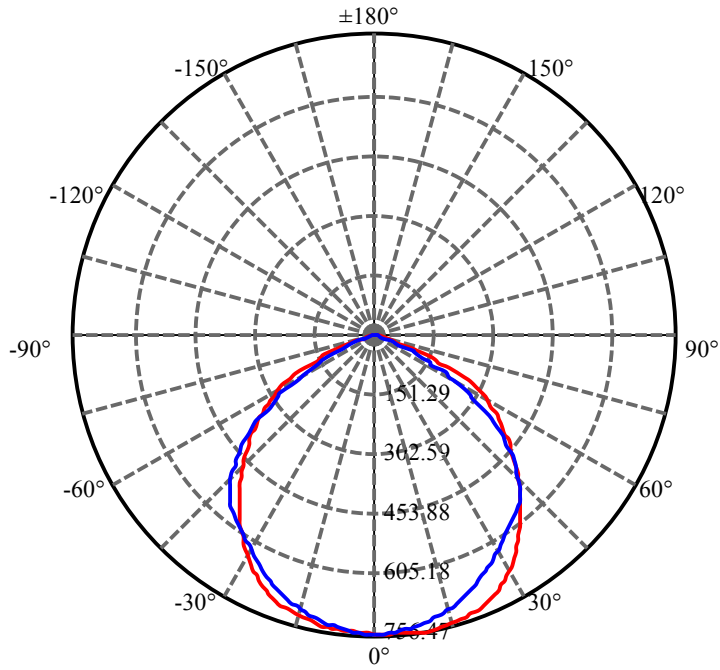
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 10.156 | 1.450 | 1882.469 | .000% | .000% |
| 77.0 | 6.644 | .896 | 1883.365 | .000% | .000% |
| 78.0 | 5.099 | .629 | 1883.993 | .000% | .000% |
| 79.0 | 4.306 | .505 | 1884.499 | .000% | .000% |
| 80.0 | 3.945 | .445 | 1884.943 | .000% | .000% |
| 81.0 | 3.626 | .409 | 1885.353 | .000% | .000% |
| 82.0 | 3.368 | .379 | 1885.732 | .000% | .000% |
| 83.0 | 3.111 | .352 | 1886.084 | .000% | .000% |
| 84.0 | 2.781 | .321 | 1886.405 | .000% | .000% |
| 85.0 | 2.637 | .296 | 1886.701 | .000% | .000% |
| 86.0 | 2.379 | .274 | 1886.975 | .000% | .000% |
| 87.0 | 2.204 | .251 | 1887.226 | .000% | .000% |
| 88.0 | 1.947 | .227 | 1887.453 | .000% | .000% |
| 89.0 | 1.772 | .204 | 1887.657 | .000% | .000% |
| 90.0 | 1.741 | .193 | 1887.850 | .000% | .000% |

ZONAL LUMEN SUMMARY

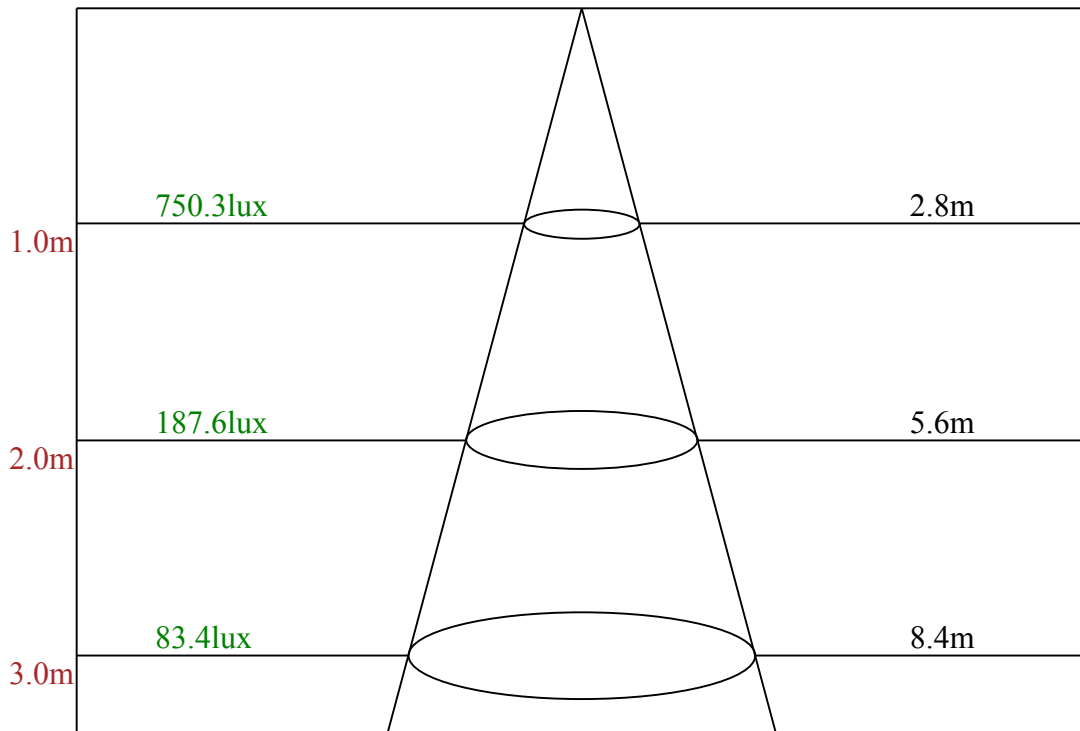
| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|---------|
| 0-30 | 585.73 | N.A. | 31.03% |
| 0-40 | 955.93 | N.A. | 50.64% |
| 0-60 | 1666.60 | N.A. | 88.28% |
| 0-90 | 1887.66 | N.A. | 99.99% |
| 0-120 | 1887.66 | N.A. | 99.99% |
| 0-180 | 1887.85 | N.A. | 100.00% |
| 60-90 | 248.82 | N.A. | 13.18% |
| 90-120 | 0.00 | N.A. | 0.00% |
| 90-130 | 0.00 | N.A. | 0.00% |
| 90-150 | 0.00 | N.A. | 0.00% |
| 90-180 | 0.00 | N.A. | 0.00% |
| 0-54.85 | 1510.28 | N.A. | 80.00% |

ZONAL LUMEN SUMMARY

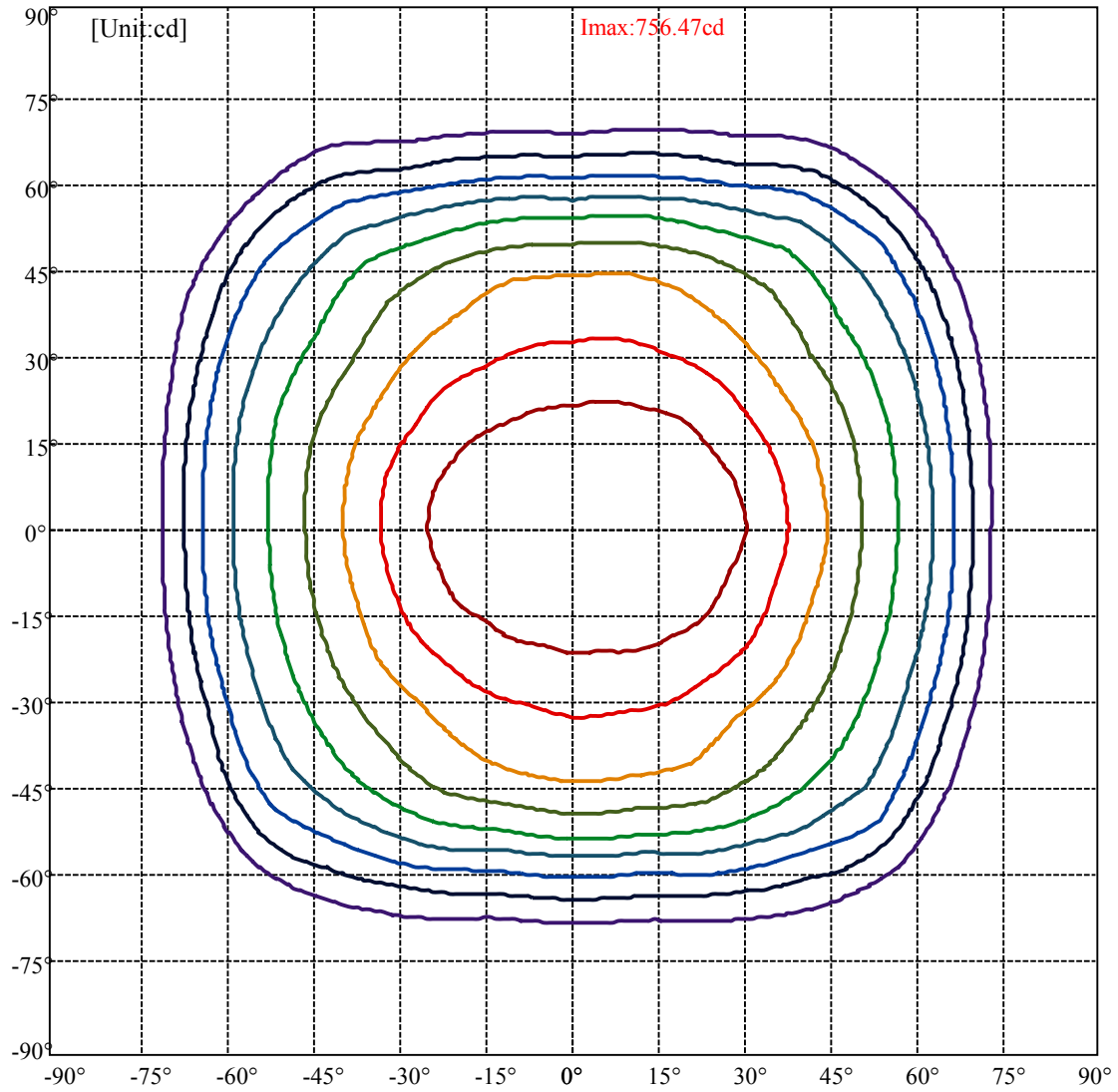
| | |
|---------|--------|
| 0-10 | 71.02 |
| 10-20 | 204.37 |
| 20-30 | 310.33 |
| 30-40 | 370.21 |
| 40-50 | 383.05 |
| 50-60 | 327.62 |
| 60-70 | 188.67 |
| 70-80 | 29.67 |
| 80-90 | 2.71 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |



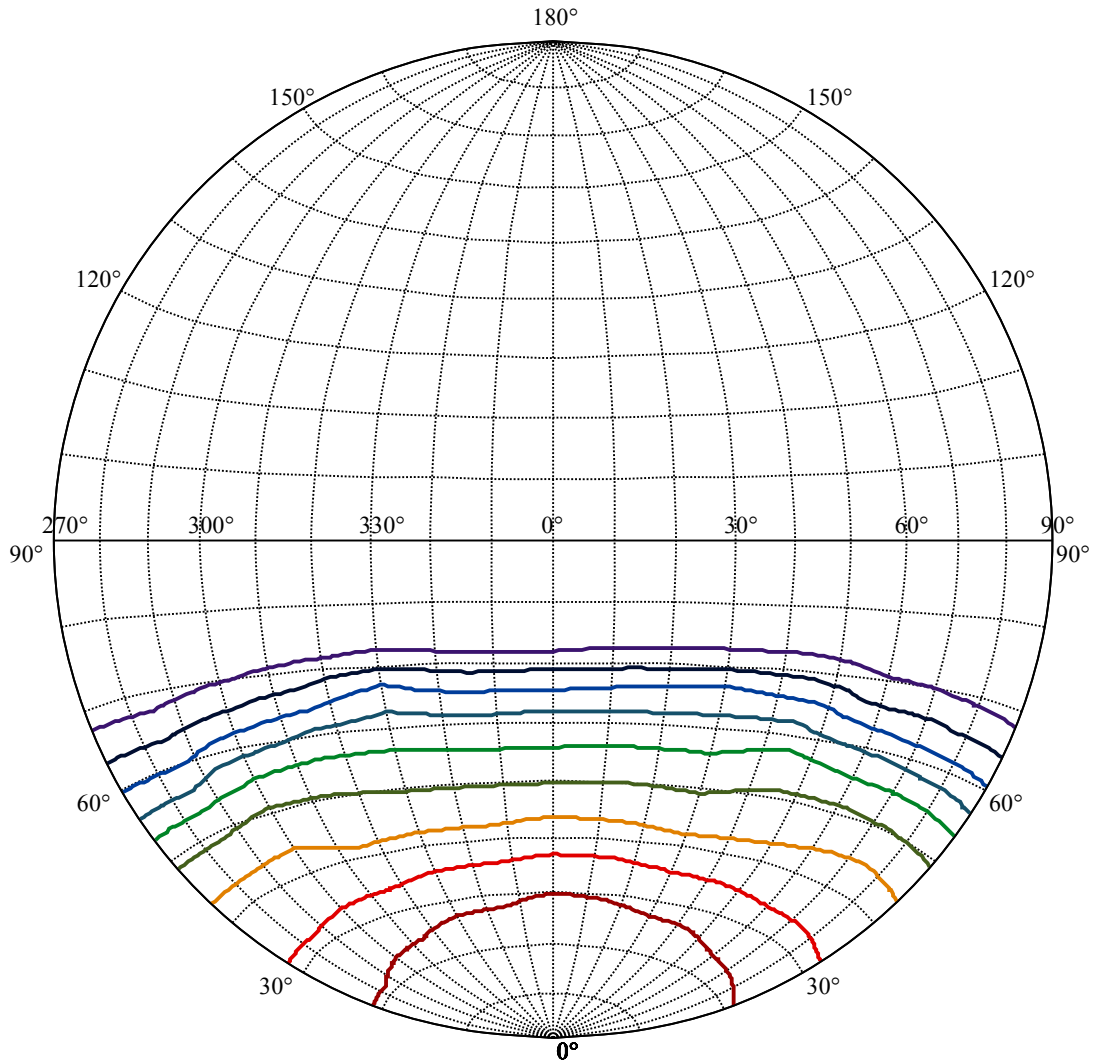
C0/C180: —
C90/C270: —



Beam angle of C15plane108.51



| | |
|-------------------|---|
| (10%Imax) 75.6276 | — |
| (20%Imax) 151.255 | — |
| (30%Imax) 226.883 | — |
| (40%Imax) 302.51 | — |
| (50%Imax) 378.138 | — |
| (60%Imax) 453.765 | — |
| (70%Imax) 529.393 | — |
| (80%Imax) 605.021 | — |
| (90%Imax) 680.648 | — |



House

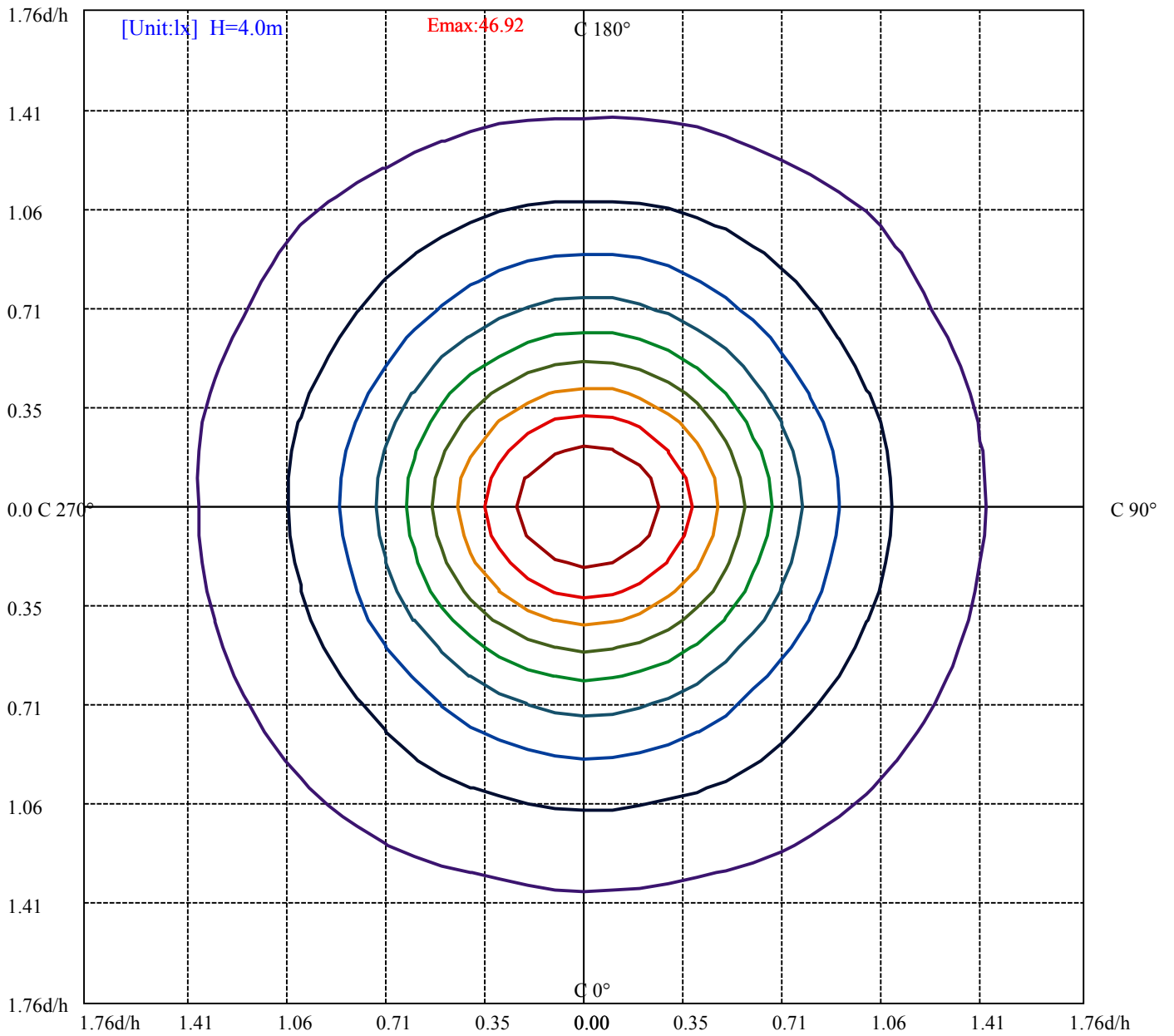
[Unit:cd]

Road

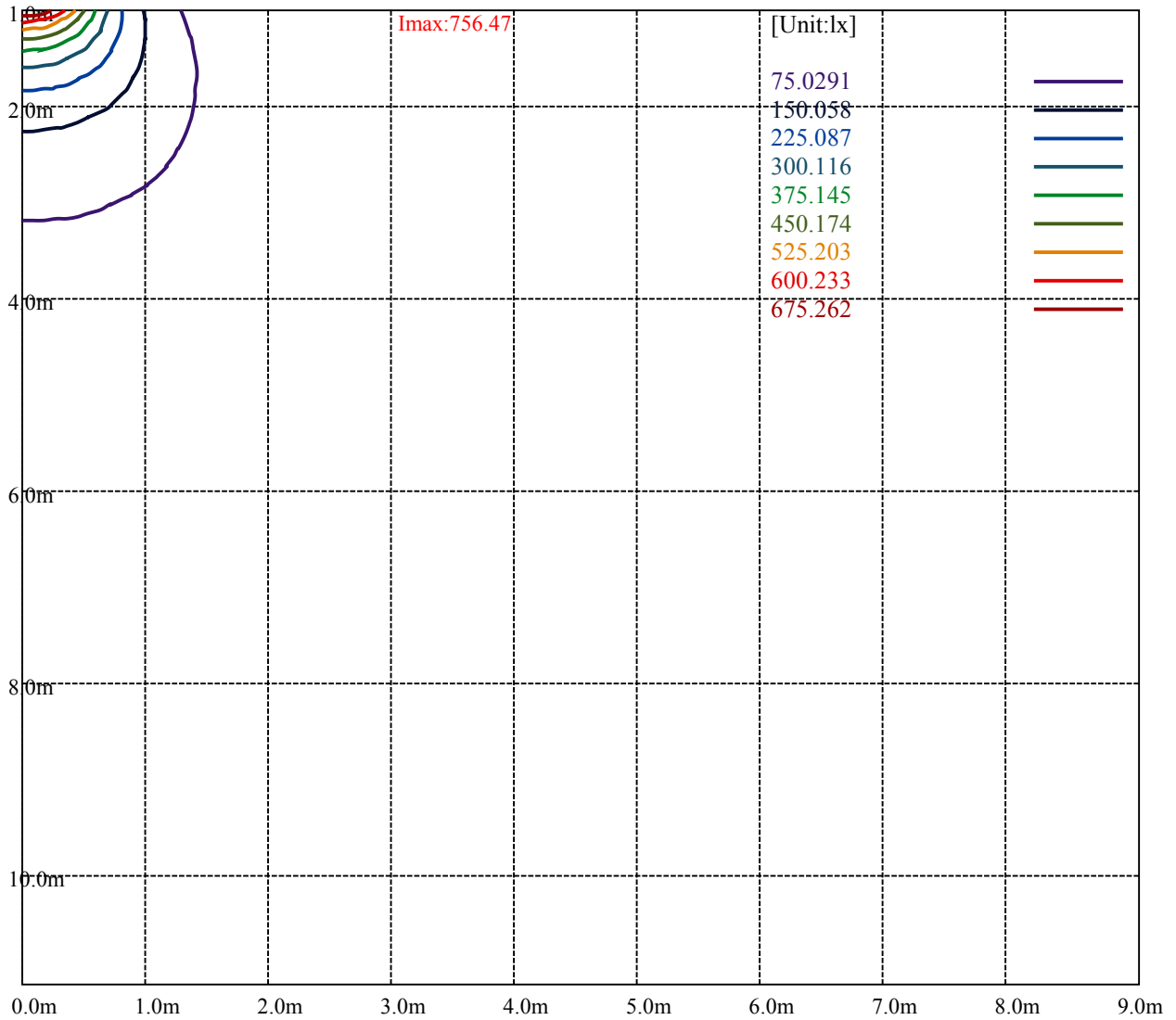
Imax:756.47

- (10%Imax) 75.6471
- (20%Imax) 151.294
- (30%Imax) 226.941
- (40%Imax) 302.588
- (50%Imax) 378.235
- (60%Imax) 453.883
- (70%Imax) 529.53
- (80%Imax) 605.177
- (90%Imax) 680.824





| | |
|--------------------|---|
| (10%Emax) 4.692406 | — |
| (20%Emax) 9.384812 | — |
| (30%Emax) 14.07725 | — |
| (40%Emax) 18.76962 | — |
| (50%Emax) 23.46206 | — |
| (60%Emax) 28.15444 | — |
| (70%Emax) 32.84687 | — |
| (80%Emax) 37.53925 | — |
| (90%Emax) 42.23169 | — |



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 | 750.29 | 750.29 | 750.54 | 751.28 | 750.79 | 750.29 | 751.53 | 753.50 | 754.25 |
| 15.0 | 751.53 | 751.77 | 751.77 | 752.76 | 752.27 | 751.77 | 752.52 | 754.25 | 755.23 |
| 30.0 | 751.53 | 751.28 | 752.02 | 752.02 | 751.03 | 750.79 | 750.79 | 751.77 | 752.02 |
| 45.0 | 750.79 | 751.03 | 750.79 | 751.28 | 751.28 | 750.04 | 748.31 | 746.58 | 746.09 |
| 60.0 | 750.79 | 750.54 | 750.54 | 750.54 | 750.04 | 748.31 | 746.09 | 742.87 | 740.15 |
| 75.0 | 751.03 | 751.28 | 750.29 | 750.29 | 749.30 | 747.82 | 745.10 | 742.87 | 740.40 |
| 90.0 | 750.54 | 750.79 | 750.54 | 749.55 | 748.07 | 745.84 | 743.12 | 740.40 | 737.93 |
| 105.0 | 750.79 | 750.54 | 750.29 | 749.30 | 747.82 | 746.58 | 743.12 | 740.15 | 736.69 |
| 120.0 | 750.54 | 749.55 | 748.56 | 747.57 | 745.59 | 742.87 | 739.91 | 736.94 | 734.22 |
| 135.0 | 750.29 | 750.54 | 748.81 | 747.82 | 746.58 | 744.11 | 742.63 | 741.39 | 738.42 |
| 150.0 | 750.29 | 748.56 | 748.07 | 746.09 | 744.60 | 744.11 | 743.37 | 742.38 | 741.39 |
| 165.0 | 750.54 | 749.80 | 748.56 | 746.83 | 745.84 | 745.84 | 745.10 | 744.36 | 744.85 |
| 180.0 | 750.29 | 749.05 | 747.57 | 746.09 | 745.84 | 745.35 | 744.85 | 744.85 | 744.85 |
| 195.0 | 751.53 | 750.29 | 748.56 | 747.82 | 746.58 | 745.84 | 745.59 | 745.35 | 744.86 |
| 210.0 | 751.53 | 750.54 | 749.80 | 748.56 | 746.34 | 744.60 | 744.11 | 743.12 | 740.90 |
| 225.0 | 750.79 | 750.04 | 749.05 | 746.83 | 744.85 | 742.38 | 740.40 | 737.19 | 735.21 |
| 240.0 | 750.79 | 750.79 | 750.04 | 748.81 | 746.83 | 742.87 | 740.15 | 736.69 | 734.22 |
| 255.0 | 751.03 | 750.29 | 749.80 | 747.57 | 745.59 | 741.89 | 738.42 | 735.21 | 733.48 |
| 270.0 | 750.54 | 750.54 | 750.54 | 749.05 | 747.08 | 745.10 | 742.38 | 739.41 | 736.69 |
| 285.0 | 750.79 | 750.79 | 750.04 | 748.81 | 746.58 | 744.60 | 741.14 | 739.17 | 736.45 |
| 300.0 | 750.54 | 750.54 | 750.29 | 750.04 | 749.05 | 747.32 | 745.10 | 742.13 | 739.66 |
| 315.0 | 750.29 | 749.80 | 750.54 | 750.79 | 749.55 | 747.32 | 745.10 | 744.11 | 742.87 |
| 330.0 | 750.29 | 750.54 | 750.54 | 751.03 | 750.79 | 749.55 | 748.56 | 749.30 | 750.29 |
| 345.0 | 750.54 | 750.04 | 751.28 | 751.03 | 750.29 | 750.29 | 752.52 | 753.50 | 754.00 |
| 360.0 | 750.29 | 750.29 | 750.54 | 751.28 | 750.79 | 750.29 | 751.53 | 753.50 | 754.25 |

| C/ γ (°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0 | 755.23 | 756.22 | 755.48 | 754.49 | 752.02 | 748.56 | 746.58 | 744.60 | 743.62 |
| 15.0 | 755.48 | 756.47 | 755.48 | 754.74 | 753.01 | 750.54 | 746.83 | 744.11 | 742.13 |
| 30.0 | 751.28 | 751.28 | 750.04 | 748.31 | 746.09 | 742.38 | 738.67 | 733.73 | 730.51 |
| 45.0 | 745.59 | 744.60 | 742.63 | 741.39 | 739.66 | 737.44 | 733.73 | 730.51 | 726.81 |
| 60.0 | 737.19 | 736.20 | 733.97 | 732.24 | 728.78 | 726.06 | 723.10 | 720.13 | 716.92 |
| 75.0 | 737.93 | 735.71 | 732.74 | 729.03 | 725.57 | 722.11 | 718.40 | 715.43 | 710.24 |
| 90.0 | 735.21 | 732.49 | 729.52 | 726.06 | 721.61 | 718.65 | 714.44 | 709.99 | 705.30 |
| 105.0 | 733.73 | 730.76 | 727.55 | 724.33 | 720.38 | 716.92 | 711.73 | 708.02 | 703.81 |
| 120.0 | 731.26 | 729.28 | 726.31 | 723.10 | 718.65 | 716.18 | 712.22 | 709.25 | 704.80 |
| 135.0 | 736.20 | 733.48 | 731.75 | 728.78 | 725.82 | 722.36 | 718.65 | 715.19 | 709.50 |
| 150.0 | 739.91 | 737.68 | 735.71 | 732.24 | 727.79 | 722.85 | 718.40 | 713.95 | 709.75 |
| 165.0 | 744.11 | 742.87 | 741.14 | 737.68 | 732.74 | 728.29 | 725.08 | 722.60 | 720.13 |
| 180.0 | 743.86 | 741.89 | 739.66 | 735.46 | 731.26 | 728.54 | 726.56 | 724.83 | 722.85 |
| 195.0 | 742.87 | 741.14 | 739.17 | 734.96 | 729.52 | 726.56 | 723.10 | 720.13 | 717.41 |
| 210.0 | 739.41 | 737.44 | 734.96 | 732.00 | 728.29 | 723.84 | 717.91 | 713.70 | 708.76 |
| 225.0 | 732.74 | 730.51 | 728.78 | 725.08 | 722.85 | 718.15 | 713.21 | 707.77 | 702.33 |
| 240.0 | 731.26 | 728.78 | 726.06 | 722.85 | 718.89 | 715.93 | 712.71 | 708.26 | 704.56 |
| 255.0 | 730.02 | 726.06 | 723.34 | 719.64 | 715.68 | 710.49 | 707.03 | 702.58 | 698.13 |
| 270.0 | 734.47 | 731.50 | 727.79 | 724.33 | 720.63 | 716.92 | 713.46 | 707.77 | 703.32 |
| 285.0 | 734.47 | 731.01 | 727.79 | 724.33 | 719.88 | 715.68 | 711.97 | 707.52 | 702.58 |
| 300.0 | 736.69 | 734.22 | 731.75 | 729.52 | 727.79 | 724.33 | 720.87 | 717.41 | 714.69 |
| 315.0 | 742.38 | 740.90 | 739.17 | 736.94 | 734.96 | 731.75 | 727.55 | 723.10 | 719.14 |
| 330.0 | 749.55 | 748.81 | 747.82 | 746.34 | 743.62 | 740.15 | 736.20 | 732.24 | 728.78 |
| 345.0 | 754.99 | 754.74 | 753.26 | 750.79 | 748.81 | 745.10 | 741.14 | 739.17 | 737.19 |
| 360.0 | 755.23 | 756.22 | 755.48 | 754.49 | 752.02 | 748.56 | 746.58 | 744.60 | 743.62 |

Intensity data(cd)

| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0 | 742.63 | 741.14 | 739.66 | 736.94 | 734.22 | 729.77 | 724.58 | 718.89 | 711.48 |
| 15.0 | 740.15 | 737.68 | 735.95 | 733.23 | 730.51 | 725.57 | 719.39 | 714.69 | 706.53 |
| 30.0 | 726.81 | 723.59 | 720.63 | 717.66 | 713.70 | 708.76 | 704.31 | 698.13 | 691.45 |
| 45.0 | 722.11 | 718.65 | 711.97 | 708.02 | 703.07 | 699.61 | 693.93 | 688.24 | 682.80 |
| 60.0 | 713.21 | 710.24 | 704.31 | 699.12 | 692.94 | 687.50 | 680.33 | 673.65 | 665.74 |
| 75.0 | 707.03 | 701.34 | 697.63 | 691.70 | 685.52 | 679.59 | 673.65 | 668.22 | 660.06 |
| 90.0 | 700.60 | 694.92 | 687.99 | 682.80 | 676.13 | 670.44 | 661.79 | 656.35 | 650.17 |
| 105.0 | 699.86 | 694.67 | 688.24 | 683.30 | 677.12 | 670.69 | 663.77 | 657.59 | 650.66 |
| 120.0 | 700.11 | 696.40 | 690.22 | 684.28 | 676.87 | 671.18 | 663.52 | 656.60 | 646.21 |
| 135.0 | 703.81 | 698.13 | 693.93 | 688.24 | 683.05 | 679.09 | 673.65 | 666.24 | 659.07 |
| 150.0 | 706.04 | 702.58 | 699.36 | 694.67 | 690.96 | 684.53 | 676.62 | 668.46 | 661.54 |
| 165.0 | 717.91 | 714.94 | 711.73 | 706.53 | 700.60 | 693.93 | 688.49 | 679.09 | 669.95 |
| 180.0 | 720.38 | 717.91 | 712.96 | 707.52 | 703.07 | 696.40 | 688.73 | 680.33 | 671.18 |
| 195.0 | 714.94 | 711.73 | 706.29 | 699.36 | 694.17 | 686.76 | 679.59 | 667.72 | 660.55 |
| 210.0 | 706.04 | 702.33 | 698.87 | 694.42 | 689.48 | 683.54 | 676.13 | 667.97 | 659.56 |
| 225.0 | 697.39 | 693.43 | 685.77 | 681.81 | 676.62 | 671.43 | 665.00 | 657.34 | 651.41 |
| 240.0 | 699.36 | 694.17 | 688.98 | 683.54 | 676.37 | 669.70 | 663.02 | 655.36 | 646.71 |
| 255.0 | 693.18 | 687.25 | 682.55 | 676.37 | 669.70 | 662.28 | 656.60 | 649.18 | 642.75 |
| 270.0 | 698.13 | 694.17 | 687.25 | 681.57 | 676.13 | 669.70 | 662.78 | 655.61 | 648.93 |
| 285.0 | 697.63 | 693.18 | 687.50 | 681.81 | 676.62 | 670.44 | 664.51 | 654.87 | 649.18 |
| 300.0 | 710.49 | 706.29 | 702.08 | 697.14 | 690.71 | 683.79 | 677.86 | 670.44 | 662.53 |
| 315.0 | 714.44 | 709.25 | 705.55 | 700.85 | 696.65 | 689.48 | 685.03 | 679.09 | 673.16 |
| 330.0 | 724.83 | 721.37 | 718.40 | 714.69 | 711.97 | 707.77 | 702.58 | 695.90 | 689.72 |
| 345.0 | 734.96 | 732.49 | 730.02 | 726.31 | 722.60 | 717.16 | 710.49 | 702.83 | 695.16 |
| 360.0 | 742.63 | 741.14 | 739.66 | 736.94 | 734.22 | 729.77 | 724.58 | 718.89 | 711.48 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 703.57 | 696.15 | 688.98 | 680.08 | 672.42 | 661.79 | 651.90 | 639.29 | 630.89 |
| 15.0 | 697.14 | 688.49 | 681.32 | 673.16 | 663.27 | 654.12 | 645.47 | 635.34 | 626.19 |
| 30.0 | 681.07 | 673.41 | 664.01 | 655.86 | 646.96 | 637.31 | 629.65 | 619.27 | 609.38 |
| 45.0 | 676.87 | 668.71 | 660.55 | 652.39 | 643.99 | 636.57 | 623.72 | 614.82 | 605.42 |
| 60.0 | 656.84 | 648.93 | 642.26 | 634.10 | 625.94 | 620.01 | 612.84 | 604.19 | 595.04 |
| 75.0 | 653.14 | 646.21 | 640.53 | 632.62 | 624.46 | 616.80 | 610.86 | 602.95 | 595.04 |
| 90.0 | 644.48 | 637.56 | 629.40 | 623.47 | 615.31 | 607.90 | 599.99 | 595.29 | 589.11 |
| 105.0 | 643.00 | 636.33 | 629.65 | 621.99 | 616.30 | 607.40 | 599.99 | 591.33 | 585.65 |
| 120.0 | 639.79 | 630.89 | 624.21 | 616.30 | 607.90 | 601.47 | 592.32 | 584.66 | 576.01 |
| 135.0 | 652.64 | 645.23 | 637.81 | 628.17 | 618.53 | 608.39 | 600.23 | 588.61 | 578.48 |
| 150.0 | 651.65 | 643.49 | 631.13 | 623.72 | 614.57 | 606.41 | 596.77 | 585.65 | 577.49 |
| 165.0 | 662.53 | 653.88 | 647.45 | 635.83 | 626.44 | 616.30 | 608.14 | 597.27 | 584.66 |
| 180.0 | 663.52 | 655.61 | 646.21 | 635.83 | 627.92 | 616.80 | 605.18 | 593.56 | 584.41 |
| 195.0 | 652.64 | 645.47 | 636.08 | 625.94 | 618.77 | 607.65 | 597.02 | 584.41 | 575.26 |
| 210.0 | 651.41 | 641.52 | 633.36 | 623.72 | 614.32 | 604.93 | 597.27 | 586.39 | 576.50 |
| 225.0 | 642.01 | 635.34 | 623.72 | 616.30 | 605.92 | 596.77 | 586.39 | 575.26 | 566.12 |
| 240.0 | 638.80 | 631.63 | 623.47 | 616.80 | 606.17 | 599.24 | 591.33 | 584.41 | 574.77 |
| 255.0 | 634.84 | 625.94 | 618.28 | 611.60 | 603.94 | 596.28 | 590.34 | 583.67 | 577.49 |
| 270.0 | 641.52 | 635.34 | 625.70 | 619.27 | 612.35 | 606.17 | 599.49 | 593.56 | 587.87 |
| 285.0 | 642.26 | 635.83 | 628.17 | 620.26 | 614.08 | 605.92 | 599.00 | 591.83 | 587.62 |
| 300.0 | 654.87 | 647.94 | 639.54 | 633.36 | 622.73 | 616.05 | 608.14 | 601.96 | 593.56 |
| 315.0 | 666.49 | 657.59 | 649.68 | 641.76 | 632.37 | 622.23 | 614.57 | 603.94 | 593.06 |
| 330.0 | 681.57 | 672.91 | 664.26 | 655.36 | 647.70 | 636.08 | 628.17 | 618.03 | 610.37 |
| 345.0 | 686.76 | 677.86 | 671.68 | 662.04 | 654.62 | 642.01 | 634.10 | 623.72 | 613.83 |
| 360.0 | 703.57 | 696.15 | 688.98 | 680.08 | 672.42 | 661.79 | 651.90 | 639.29 | 630.89 |

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 | 618.28 | 605.67 | 595.54 | 582.68 | 573.04 | 559.20 | 549.80 | 537.69 | 527.80 |
| 15.0 | 611.11 | 602.95 | 589.36 | 579.71 | 565.38 | 553.76 | 543.87 | 533.24 | 521.12 |
| 30.0 | 598.01 | 589.11 | 577.74 | 567.60 | 555.24 | 542.14 | 530.02 | 519.39 | 509.01 |
| 45.0 | 597.27 | 586.64 | 577.49 | 568.59 | 558.45 | 546.59 | 536.45 | 527.30 | 517.17 |
| 60.0 | 588.12 | 579.71 | 573.04 | 566.12 | 557.96 | 551.78 | 545.60 | 538.18 | 530.02 |
| 75.0 | 589.11 | 583.67 | 577.74 | 572.30 | 568.09 | 563.40 | 558.95 | 550.05 | 538.43 |
| 90.0 | 583.67 | 578.23 | 574.03 | 567.85 | 562.41 | 555.73 | 546.34 | 536.45 | 525.82 |
| 105.0 | 578.48 | 572.54 | 567.85 | 562.90 | 558.70 | 552.77 | 545.35 | 536.95 | 529.28 |
| 120.0 | 569.33 | 561.42 | 554.75 | 547.33 | 538.92 | 531.26 | 524.34 | 517.17 | 508.52 |
| 135.0 | 570.07 | 560.68 | 550.05 | 540.41 | 531.26 | 521.37 | 512.97 | 502.09 | 491.71 |
| 150.0 | 567.60 | 557.22 | 542.63 | 533.49 | 520.88 | 510.25 | 499.12 | 487.50 | 477.12 |
| 165.0 | 575.76 | 563.89 | 550.05 | 537.69 | 526.81 | 515.69 | 503.82 | 493.19 | 483.30 |
| 180.0 | 571.80 | 560.18 | 547.58 | 534.72 | 522.85 | 512.72 | 500.61 | 487.50 | 478.11 |
| 195.0 | 563.65 | 552.77 | 536.95 | 526.81 | 514.94 | 505.55 | 494.92 | 482.31 | 473.91 |
| 210.0 | 566.86 | 556.72 | 543.87 | 532.50 | 522.61 | 510.99 | 501.84 | 489.23 | 476.63 |
| 225.0 | 555.73 | 545.35 | 537.69 | 527.55 | 518.90 | 509.26 | 498.63 | 489.48 | 481.57 |
| 240.0 | 566.36 | 558.95 | 551.28 | 542.38 | 534.72 | 528.29 | 521.87 | 515.93 | 506.29 |
| 255.0 | 569.33 | 564.88 | 559.20 | 554.50 | 548.81 | 541.89 | 532.74 | 522.61 | 510.49 |
| 270.0 | 583.67 | 577.49 | 571.56 | 565.87 | 559.44 | 553.76 | 541.40 | 531.51 | 519.64 |
| 285.0 | 581.44 | 576.25 | 571.06 | 564.14 | 558.21 | 551.78 | 543.13 | 531.26 | 522.11 |
| 300.0 | 585.89 | 579.22 | 572.30 | 566.61 | 558.21 | 551.78 | 544.61 | 538.92 | 530.52 |
| 315.0 | 581.94 | 574.28 | 564.39 | 555.24 | 545.60 | 534.97 | 526.07 | 517.91 | 509.26 |
| 330.0 | 599.49 | 588.12 | 579.71 | 568.59 | 556.48 | 544.86 | 534.97 | 523.84 | 511.48 |
| 345.0 | 602.95 | 589.85 | 578.23 | 567.35 | 555.49 | 543.13 | 534.72 | 524.09 | 514.20 |
| 360.0 | 618.28 | 605.67 | 595.54 | 582.68 | 573.04 | 559.20 | 549.80 | 537.69 | 527.80 |
| C/ γ (°) | 45.0 | 46.0 | 47.0 | 48.0 | 49.0 | 50.0 | 51.0 | 52.0 | 53.0 |
| 0.0 | 514.20 | 499.86 | 487.01 | 476.38 | 462.04 | 449.43 | 438.06 | 425.95 | 412.35 |
| 15.0 | 510.74 | 500.61 | 488.74 | 479.84 | 466.98 | 453.64 | 441.03 | 430.40 | 417.05 |
| 30.0 | 497.64 | 489.48 | 476.87 | 466.49 | 454.62 | 446.22 | 434.35 | 423.23 | 409.38 |
| 45.0 | 509.75 | 497.89 | 490.47 | 482.56 | 476.87 | 467.97 | 458.58 | 448.44 | 440.29 |
| 60.0 | 524.34 | 516.67 | 506.54 | 494.67 | 485.53 | 471.68 | 457.10 | 443.09 | 420.01 |
| 75.0 | 529.04 | 516.67 | 502.09 | 489.23 | 475.64 | 458.09 | 439.79 | 421.99 | 408.89 |
| 90.0 | 513.96 | 498.88 | 486.02 | 470.94 | 456.60 | 435.59 | 423.23 | 406.91 | 386.89 |
| 105.0 | 516.92 | 505.30 | 493.68 | 479.59 | 463.03 | 445.97 | 432.13 | 415.32 | 403.45 |
| 120.0 | 499.86 | 492.45 | 481.57 | 469.70 | 461.05 | 448.44 | 435.34 | 413.59 | 400.24 |
| 135.0 | 482.31 | 475.64 | 466.00 | 458.58 | 450.67 | 440.78 | 430.15 | 420.51 | 411.11 |
| 150.0 | 466.98 | 455.86 | 444.24 | 433.12 | 425.21 | 412.85 | 400.98 | 391.83 | 380.71 |
| 165.0 | 472.67 | 464.27 | 450.42 | 441.52 | 428.42 | 418.78 | 405.92 | 393.81 | 382.93 |
| 180.0 | 465.01 | 452.65 | 438.56 | 428.67 | 417.30 | 405.92 | 394.06 | 380.46 | 367.61 |
| 195.0 | 462.54 | 451.41 | 438.31 | 429.66 | 418.53 | 407.90 | 395.54 | 382.44 | 369.83 |
| 210.0 | 465.75 | 456.85 | 444.74 | 433.12 | 423.48 | 411.61 | 400.98 | 390.35 | 380.21 |
| 225.0 | 472.18 | 462.78 | 456.11 | 447.21 | 439.30 | 427.93 | 419.27 | 407.16 | 396.03 |
| 240.0 | 499.12 | 488.74 | 480.83 | 468.22 | 455.37 | 443.01 | 428.91 | 412.10 | 394.80 |
| 255.0 | 495.66 | 484.04 | 470.45 | 453.88 | 436.08 | 422.73 | 406.42 | 391.83 | 365.63 |
| 270.0 | 508.27 | 493.68 | 477.37 | 465.01 | 449.43 | 430.89 | 415.07 | 398.51 | 379.22 |
| 285.0 | 508.02 | 494.43 | 479.10 | 466.49 | 450.67 | 435.59 | 419.27 | 400.24 | 380.95 |
| 300.0 | 521.62 | 512.47 | 504.07 | 491.21 | 478.11 | 465.25 | 450.17 | 431.63 | 415.56 |
| 315.0 | 500.11 | 493.19 | 485.53 | 478.36 | 470.20 | 460.06 | 449.93 | 439.54 | 426.69 |
| 330.0 | 500.85 | 491.71 | 480.09 | 471.68 | 459.82 | 448.69 | 436.33 | 426.94 | 414.82 |
| 345.0 | 500.36 | 491.95 | 481.32 | 470.94 | 459.07 | 446.22 | 433.61 | 422.98 | 410.62 |
| 360.0 | 514.20 | 499.86 | 487.01 | 476.38 | 462.04 | 449.43 | 438.06 | 425.95 | 412.35 |

Intensity data(cd)

| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0 | 399.99 | 388.87 | 376.01 | 365.63 | 348.82 | 339.92 | 328.79 | 319.40 | 302.59 |
| 15.0 | 404.93 | 393.56 | 380.71 | 366.86 | 353.51 | 340.91 | 326.07 | 316.68 | 302.59 |
| 30.0 | 397.27 | 386.89 | 377.00 | 367.11 | 354.75 | 345.36 | 334.48 | 320.14 | 304.32 |
| 45.0 | 427.93 | 415.07 | 402.96 | 388.87 | 376.01 | 350.05 | 335.47 | 318.90 | 306.79 |
| 60.0 | 402.46 | 384.91 | 369.83 | 346.84 | 332.01 | 314.45 | 288.74 | 254.88 | 244.99 |
| 75.0 | 392.57 | 375.27 | 358.71 | 335.96 | 301.11 | 285.53 | 271.44 | 243.26 | 217.79 |
| 90.0 | 370.82 | 352.03 | 319.15 | 295.67 | 282.56 | 261.55 | 234.60 | 215.32 | 199.50 |
| 105.0 | 379.22 | 362.41 | 348.08 | 327.31 | 293.44 | 276.38 | 265.01 | 235.10 | 207.91 |
| 120.0 | 383.18 | 367.61 | 351.54 | 328.30 | 314.95 | 292.95 | 262.79 | 241.03 | 231.14 |
| 135.0 | 398.26 | 388.37 | 371.56 | 360.44 | 341.90 | 328.30 | 309.51 | 293.94 | 277.62 |
| 150.0 | 369.34 | 358.95 | 346.59 | 334.48 | 323.35 | 311.49 | 298.88 | 289.49 | 275.89 |
| 165.0 | 370.08 | 359.69 | 342.14 | 330.28 | 316.43 | 306.54 | 291.71 | 278.11 | 266.50 |
| 180.0 | 355.24 | 342.64 | 329.04 | 318.16 | 305.55 | 294.92 | 284.29 | 272.18 | 254.13 |
| 195.0 | 357.72 | 344.86 | 330.52 | 318.41 | 307.78 | 294.18 | 281.08 | 270.45 | 254.13 |
| 210.0 | 368.59 | 359.20 | 344.37 | 334.23 | 322.12 | 311.98 | 298.39 | 287.51 | 276.14 |
| 225.0 | 382.44 | 365.13 | 350.30 | 337.20 | 319.89 | 301.60 | 289.49 | 272.18 | 249.93 |
| 240.0 | 378.73 | 363.40 | 348.82 | 326.57 | 306.79 | 272.68 | 250.92 | 237.08 | 218.29 |
| 255.0 | 352.28 | 325.83 | 294.92 | 276.38 | 263.53 | 240.29 | 208.89 | 200.74 | 169.59 |
| 270.0 | 361.18 | 326.32 | 300.36 | 285.78 | 275.89 | 240.29 | 217.30 | 205.19 | 179.97 |
| 285.0 | 365.13 | 343.13 | 304.81 | 284.54 | 274.90 | 247.46 | 215.57 | 206.18 | 185.16 |
| 300.0 | 399.74 | 382.44 | 367.85 | 346.10 | 327.56 | 295.17 | 269.71 | 252.90 | 237.32 |
| 315.0 | 411.86 | 398.01 | 384.17 | 368.35 | 350.05 | 336.21 | 318.90 | 301.35 | 275.15 |
| 330.0 | 403.20 | 393.32 | 382.93 | 373.54 | 359.20 | 348.57 | 336.46 | 326.82 | 312.23 |
| 345.0 | 396.78 | 385.90 | 372.55 | 358.71 | 344.37 | 331.02 | 320.39 | 307.78 | 290.47 |
| 360.0 | 399.99 | 388.87 | 376.01 | 365.63 | 348.82 | 339.92 | 328.79 | 319.40 | 302.59 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 284.79 | 266.74 | 250.18 | 203.70 | 179.72 | 168.85 | 147.34 | 113.97 | 102.35 |
| 15.0 | 286.03 | 272.18 | 253.15 | 234.85 | 190.11 | 168.60 | 158.46 | 128.55 | 99.87 |
| 30.0 | 294.18 | 280.34 | 266.00 | 243.26 | 225.46 | 201.73 | 161.92 | 142.15 | 129.54 |
| 45.0 | 285.53 | 266.50 | 250.18 | 218.04 | 194.80 | 178.73 | 153.02 | 137.45 | 124.60 |
| 60.0 | 226.45 | 196.78 | 180.71 | 157.23 | 131.27 | 123.61 | 97.15 | 87.51 | 63.53 |
| 75.0 | 204.44 | 189.86 | 153.77 | 145.11 | 115.20 | 104.82 | 81.09 | 68.73 | 48.70 |
| 90.0 | 164.89 | 154.01 | 134.73 | 111.25 | 102.35 | 74.66 | 61.31 | 46.23 | 27.69 |
| 105.0 | 196.53 | 169.84 | 148.08 | 141.16 | 105.31 | 98.64 | 71.94 | 65.51 | 43.02 |
| 120.0 | 203.21 | 181.21 | 170.58 | 139.68 | 122.37 | 107.29 | 86.52 | 68.73 | 54.88 |
| 135.0 | 257.60 | 239.55 | 211.12 | 190.60 | 177.00 | 159.95 | 134.48 | 121.63 | 95.42 |
| 150.0 | 262.05 | 246.72 | 231.14 | 214.58 | 198.76 | 177.00 | 136.21 | 119.16 | 105.81 |
| 165.0 | 252.90 | 235.59 | 219.52 | 204.69 | 163.90 | 143.38 | 132.01 | 100.86 | 85.29 |
| 180.0 | 239.55 | 218.78 | 189.86 | 160.44 | 146.84 | 133.00 | 97.15 | 88.01 | 62.05 |
| 195.0 | 239.30 | 218.04 | 204.94 | 166.13 | 147.09 | 134.48 | 103.09 | 88.01 | 75.15 |
| 210.0 | 262.29 | 251.91 | 231.39 | 214.09 | 194.31 | 178.49 | 139.92 | 117.43 | 98.89 |
| 225.0 | 223.48 | 200.00 | 182.44 | 169.59 | 140.66 | 126.82 | 103.58 | 88.50 | 69.96 |
| 240.0 | 189.12 | 172.80 | 151.54 | 128.06 | 120.39 | 91.72 | 86.28 | 59.33 | 50.93 |
| 255.0 | 152.04 | 142.39 | 114.95 | 103.58 | 76.39 | 66.50 | 43.76 | 31.64 | 18.29 |
| 270.0 | 157.23 | 143.38 | 115.94 | 107.04 | 84.05 | 67.74 | 46.72 | 31.15 | 23.49 |
| 285.0 | 158.71 | 143.88 | 117.67 | 106.05 | 83.81 | 70.21 | 45.73 | 39.31 | 22.74 |
| 300.0 | 205.43 | 186.65 | 169.09 | 139.68 | 130.03 | 104.08 | 92.70 | 69.96 | 57.60 |
| 315.0 | 259.33 | 225.71 | 205.93 | 192.08 | 161.18 | 142.39 | 131.27 | 102.10 | 86.28 |
| 330.0 | 297.89 | 282.81 | 269.46 | 249.19 | 228.18 | 210.13 | 169.59 | 140.91 | 124.84 |
| 345.0 | 276.88 | 257.35 | 243.01 | 192.33 | 173.30 | 159.95 | 143.38 | 105.81 | 94.68 |
| 360.0 | 284.79 | 266.74 | 250.18 | 203.70 | 179.72 | 168.85 | 147.34 | 113.97 | 102.35 |

Intensity data(cd)

| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
|--------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 0.0 | 72.43 | 57.85 | 49.20 | 26.20 | 8.65 | 6.67 | 5.44 | 4.70 | 4.45 |
| 15.0 | 95.42 | 63.53 | 54.39 | 34.12 | 24.97 | 6.67 | 13.10 | 5.44 | 4.94 |
| 30.0 | 92.95 | 71.20 | 56.61 | 34.86 | 26.70 | 15.57 | 6.43 | 7.17 | 4.70 |
| 45.0 | 95.42 | 71.69 | 54.14 | 42.52 | 25.96 | 18.05 | 9.39 | 5.19 | 4.70 |
| 60.0 | 55.62 | 37.82 | 19.78 | 7.42 | 5.93 | 5.44 | 4.70 | 4.45 | 4.20 |
| 75.0 | 38.07 | 22.99 | 7.66 | 6.43 | 5.69 | 5.19 | 4.70 | 4.45 | 3.96 |
| 90.0 | 15.08 | 7.66 | 6.18 | 5.93 | 5.19 | 4.45 | 4.20 | 3.96 | 3.71 |
| 105.0 | 27.19 | 15.57 | 7.42 | 6.18 | 5.69 | 5.19 | 4.45 | 4.20 | 3.96 |
| 120.0 | 38.32 | 26.95 | 14.83 | 6.43 | 5.69 | 5.19 | 4.70 | 4.20 | 3.96 |
| 135.0 | 87.27 | 56.12 | 42.27 | 31.89 | 17.80 | 10.14 | 5.19 | 4.45 | 4.20 |
| 150.0 | 68.73 | 58.59 | 36.34 | 28.68 | 14.34 | 5.19 | 4.70 | 4.20 | 4.20 |
| 165.0 | 76.14 | 47.96 | 38.07 | 21.26 | 7.42 | 5.19 | 4.45 | 4.20 | 4.20 |
| 180.0 | 48.95 | 26.95 | 21.26 | 5.69 | 5.19 | 4.45 | 4.45 | 4.20 | 3.96 |
| 195.0 | 49.20 | 37.33 | 21.75 | 8.65 | 4.94 | 4.45 | 4.20 | 3.96 | 3.71 |
| 210.0 | 70.70 | 58.09 | 34.12 | 28.43 | 13.60 | 5.69 | 4.20 | 4.20 | 3.71 |
| 225.0 | 49.44 | 34.12 | 24.47 | 16.32 | 5.69 | 4.45 | 4.45 | 3.96 | 3.71 |
| 240.0 | 34.36 | 19.04 | 6.67 | 5.19 | 4.94 | 4.20 | 4.20 | 3.71 | 3.46 |
| 255.0 | 6.43 | 5.69 | 5.19 | 4.70 | 4.20 | 4.20 | 3.96 | 3.21 | 2.97 |
| 270.0 | 6.92 | 6.18 | 5.44 | 4.94 | 4.45 | 3.96 | 3.71 | 3.46 | 2.97 |
| 285.0 | 6.43 | 5.69 | 5.44 | 4.94 | 4.45 | 4.20 | 3.71 | 3.21 | 2.97 |
| 300.0 | 38.07 | 24.97 | 10.88 | 5.69 | 4.94 | 4.45 | 4.45 | 3.96 | 3.96 |
| 315.0 | 65.02 | 45.49 | 35.35 | 17.80 | 10.63 | 4.70 | 4.20 | 4.20 | 3.71 |
| 330.0 | 89.49 | 70.46 | 59.58 | 34.61 | 20.27 | 13.84 | 4.94 | 4.45 | 4.20 |
| 345.0 | 73.17 | 53.65 | 33.37 | 22.99 | 6.43 | 7.91 | 4.45 | 4.20 | 4.20 |
| 360.0 | 72.43 | 57.85 | 49.20 | 26.20 | 8.65 | 6.67 | 5.44 | 4.70 | 4.45 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 4.20 | 4.20 | 3.71 | 3.21 | 3.21 | 3.21 | 2.72 | 2.47 | 2.22 |
| 15.0 | 4.45 | 4.20 | 3.96 | 3.46 | 3.46 | 2.97 | 2.72 | 2.47 | 2.22 |
| 30.0 | 4.45 | 3.96 | 3.71 | 3.21 | 3.21 | 2.72 | 2.47 | 2.47 | 2.22 |
| 45.0 | 4.45 | 3.96 | 3.71 | 3.46 | 3.21 | 2.72 | 2.72 | 2.22 | 2.22 |
| 60.0 | 3.71 | 3.46 | 3.21 | 2.72 | 2.72 | 2.47 | 2.22 | 1.98 | 1.73 |
| 75.0 | 3.71 | 3.21 | 3.21 | 2.72 | 2.47 | 2.22 | 1.98 | 1.98 | 1.73 |
| 90.0 | 3.21 | 2.97 | 2.72 | 2.47 | 2.22 | 2.22 | 1.98 | 1.48 | 1.24 |
| 105.0 | 3.71 | 3.21 | 3.21 | 2.72 | 2.47 | 2.22 | 1.98 | 1.98 | 1.48 |
| 120.0 | 3.46 | 3.21 | 2.97 | 2.47 | 2.47 | 2.22 | 2.22 | 1.98 | 1.98 |
| 135.0 | 3.96 | 3.71 | 3.21 | 3.21 | 2.72 | 2.72 | 2.22 | 2.22 | 1.73 |
| 150.0 | 3.96 | 3.46 | 3.21 | 2.97 | 2.72 | 2.47 | 2.22 | 1.98 | 1.98 |
| 165.0 | 3.71 | 3.71 | 3.46 | 2.97 | 2.97 | 2.72 | 2.22 | 2.22 | 2.22 |
| 180.0 | 3.71 | 3.46 | 3.21 | 2.97 | 2.97 | 2.47 | 2.47 | 2.22 | 1.98 |
| 195.0 | 3.71 | 3.21 | 2.97 | 2.72 | 2.72 | 2.22 | 2.22 | 1.98 | 1.73 |
| 210.0 | 3.46 | 3.21 | 2.97 | 2.72 | 2.47 | 2.47 | 2.22 | 1.73 | 1.73 |
| 225.0 | 3.21 | 2.97 | 2.72 | 2.22 | 2.22 | 1.98 | 1.73 | 1.73 | 1.73 |
| 240.0 | 3.21 | 2.97 | 2.47 | 2.22 | 1.98 | 1.98 | 1.73 | 1.48 | 1.48 |
| 255.0 | 2.72 | 2.47 | 2.47 | 1.98 | 1.98 | 1.73 | 1.73 | 1.24 | 1.48 |
| 270.0 | 2.97 | 2.47 | 2.47 | 1.98 | 2.22 | 1.98 | 1.73 | 1.24 | 1.24 |
| 285.0 | 2.72 | 2.72 | 2.47 | 2.22 | 1.98 | 1.98 | 1.73 | 1.48 | 0.99 |
| 300.0 | 3.21 | 3.21 | 2.72 | 2.72 | 2.47 | 1.98 | 2.22 | 1.73 | 1.48 |
| 315.0 | 3.46 | 3.46 | 2.97 | 2.72 | 2.47 | 2.22 | 2.22 | 1.98 | 1.73 |
| 330.0 | 3.71 | 3.71 | 3.46 | 3.21 | 2.72 | 2.47 | 2.47 | 2.22 | 1.98 |
| 345.0 | 3.96 | 3.71 | 3.46 | 3.46 | 3.21 | 2.72 | 2.72 | 2.22 | 1.98 |
| 360.0 | 4.20 | 4.20 | 3.71 | 3.21 | 3.21 | 3.21 | 2.72 | 2.47 | 2.22 |

Intensity data(cd)

| | |
|----------------------------|------|
| C/ γ ($^{\circ}$) | 90.0 |
| 0.0 | 2.22 |
| 15.0 | 1.98 |
| 30.0 | 1.98 |
| 45.0 | 1.98 |
| 60.0 | 1.98 |
| 75.0 | 1.48 |
| 90.0 | 1.48 |
| 105.0 | 1.48 |
| 120.0 | 1.48 |
| 135.0 | 1.73 |
| 150.0 | 2.22 |
| 165.0 | 1.98 |
| 180.0 | 1.73 |
| 195.0 | 1.48 |
| 210.0 | 1.73 |
| 225.0 | 1.48 |
| 240.0 | 1.73 |
| 255.0 | 1.48 |
| 270.0 | 1.24 |
| 285.0 | 1.48 |
| 300.0 | 1.73 |
| 315.0 | 1.73 |
| 330.0 | 1.73 |
| 345.0 | 2.22 |
| 360.0 | 2.22 |