



Shenzhen Belling Efficiency Testing Lab Co.,Ltd
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Client:

LumCAT:LSG3-5CCT(2700K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.10

LampCAT:

Current(A): 0.0630

Lamp flux(lm): -1.0

Power (W): 7.25

Number of Lamps: 1

PF: 0.9599

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 571.10, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 78.77

Central intensity(cd): 886.666, Maximum intensity(cd): 911.001

Angle of maximum intensity: C=0.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=46.0

[C90/270]Total=46.7

Field angle(10%Imax): [C0/180]Total=69.7

[C90/270]Total=69.7

Maximum s/h(1/2): C0_180=0.82 C90_270=0.72

Maximum s/h(1/4): C0_180=0.77 C90_270=0.67

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.08%

Down flux rate of LUM(%): 99.92%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.059%

Equipment: GMS-3000
Temperature(°C): 25

Date:
Humidity(%): 58%

Operator: Jasper

Zonal flux distribution table

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| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 886.666 | 0.000 | 0 | 0.00% | 0.00% |
| 5.0 | 880.357 | 21.124 | 21.124 | 0.00% | 3.70% |
| 10.0 | 846.058 | 61.759 | 82.884 | 0.00% | 14.51% |
| 15.0 | 740.884 | 94.136 | 177.02 | 0.00% | 31.00% |
| 20.0 | 575.399 | 108.480 | 285.5 | 0.00% | 49.99% |
| 25.0 | 376.491 | 99.836 | 385.336 | 0.00% | 67.47% |
| 30.0 | 205.910 | 73.703 | 459.039 | 0.00% | 80.38% |
| 35.0 | 93.437 | 44.081 | 503.12 | 0.00% | 88.10% |
| 40.0 | 41.970 | 22.592 | 525.712 | 0.00% | 92.05% |
| 45.0 | 25.522 | 12.497 | 538.208 | 0.00% | 94.24% |
| 50.0 | 18.572 | 8.910 | 547.118 | 0.00% | 95.80% |
| 55.0 | 14.325 | 7.153 | 554.27 | 0.00% | 97.05% |
| 60.0 | 10.528 | 5.745 | 560.015 | 0.00% | 98.06% |
| 65.0 | 7.169 | 4.302 | 564.317 | 0.00% | 98.81% |
| 70.0 | 4.312 | 2.907 | 567.224 | 0.00% | 99.32% |
| 75.0 | 2.420 | 1.759 | 568.983 | 0.00% | 99.63% |
| 80.0 | 1.390 | 1.019 | 570.003 | 0.00% | 99.81% |
| 85.0 | 0.451 | 0.500 | 570.503 | 0.00% | 99.90% |
| 90.0 | 0.013 | 0.127 | 570.63 | 0.00% | 99.92% |
| 95.0 | 0.013 | 0.007 | 570.637 | 0.00% | 99.92% |
| 100.0 | 0.013 | 0.007 | 570.644 | 0.00% | 99.92% |
| 105.0 | 0.013 | 0.007 | 570.651 | 0.00% | 99.92% |
| 110.0 | 0.013 | 0.007 | 570.657 | 0.00% | 99.92% |
| 115.0 | 0.039 | 0.013 | 570.67 | 0.00% | 99.92% |
| 120.0 | 0.013 | 0.013 | 570.683 | 0.00% | 99.93% |
| 125.0 | 0.013 | 0.006 | 570.689 | 0.00% | 99.93% |
| 130.0 | 0.013 | 0.006 | 570.694 | 0.00% | 99.93% |
| 135.0 | 0.052 | 0.013 | 570.707 | 0.00% | 99.93% |
| 140.0 | 0.090 | 0.026 | 570.734 | 0.00% | 99.94% |
| 145.0 | 0.116 | 0.034 | 570.768 | 0.00% | 99.94% |
| 150.0 | 0.167 | 0.042 | 570.81 | 0.00% | 99.95% |
| 155.0 | 0.245 | 0.052 | 570.862 | 0.00% | 99.96% |
| 160.0 | 0.348 | 0.062 | 570.924 | 0.00% | 99.97% |
| 165.0 | 0.451 | 0.066 | 570.99 | 0.00% | 99.98% |
| 170.0 | 0.502 | 0.057 | 571.046 | 0.00% | 99.99% |
| 175.0 | 0.631 | 0.041 | 571.087 | 0.00% | 100.00% |
| 180.0 | 0.618 | 0.015 | 571.102 | 0.00% | 100.00% |

Equipment: GMS-3000
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 58%

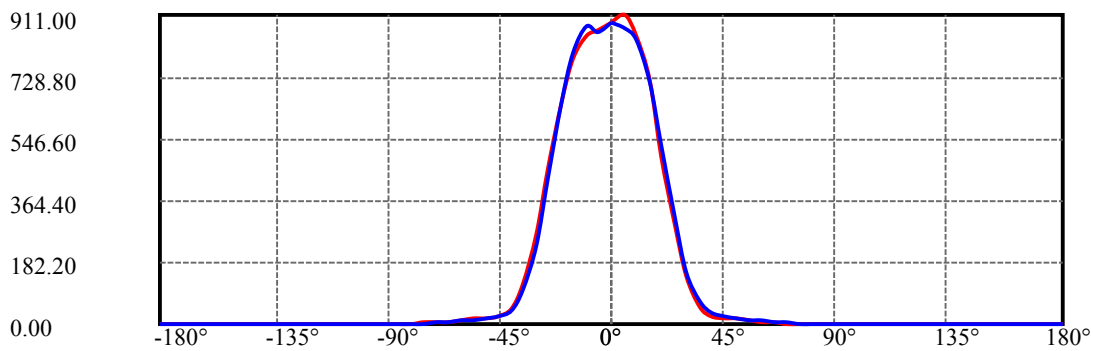
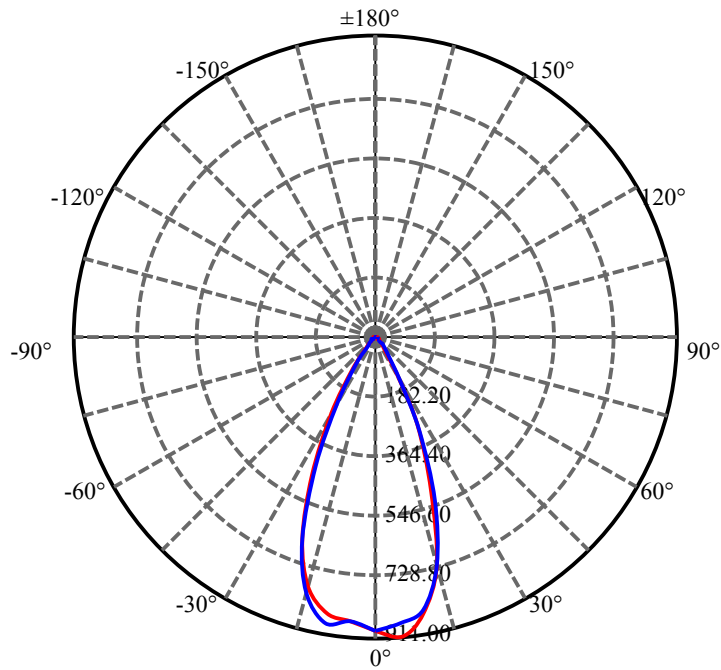
Operator: Jasper

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|---------|
| 0-30 | 459.04 | N.A. | 80.38% |
| 0-40 | 525.71 | N.A. | 92.05% |
| 0-60 | 560.01 | N.A. | 98.06% |
| 0-90 | 570.63 | N.A. | 99.92% |
| 0-120 | 570.68 | N.A. | 99.93% |
| 0-180 | 571.10 | N.A. | 100.00% |
| 60-90 | 10.61 | N.A. | 1.86% |
| 90-120 | 0.05 | N.A. | 0.01% |
| 90-130 | 0.06 | N.A. | 0.01% |
| 90-150 | 0.18 | N.A. | 0.03% |
| 90-180 | 0.46 | N.A. | 0.08% |
| 0-29.85 | 456.88 | N.A. | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 82.88 |
| 10-20 | 202.62 |
| 20-30 | 173.54 |
| 30-40 | 66.67 |
| 40-50 | 21.41 |
| 50-60 | 12.90 |
| 60-70 | 7.21 |
| 70-80 | 2.78 |
| 80-90 | 0.63 |
| 90-100 | 0.01 |
| 100-110 | 0.01 |
| 110-120 | 0.03 |
| 120-130 | 0.01 |
| 130-140 | 0.04 |
| 140-150 | 0.08 |
| 150-160 | 0.11 |
| 160-170 | 0.12 |
| 170-180 | 0.04 |

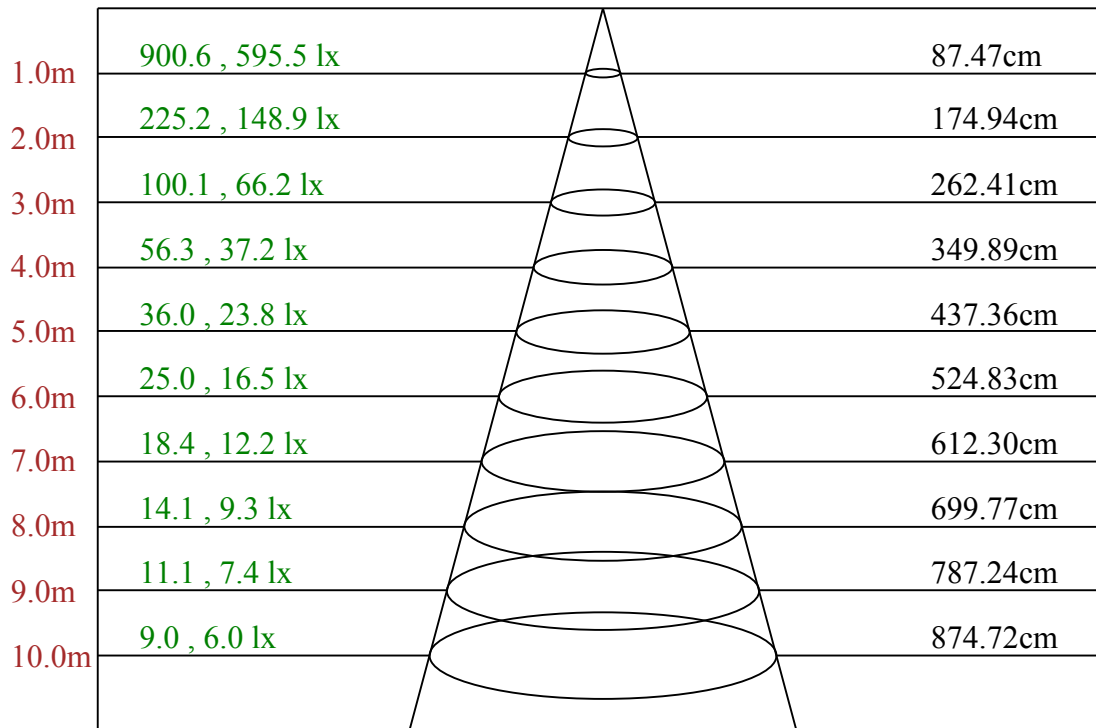


C0/C180: —

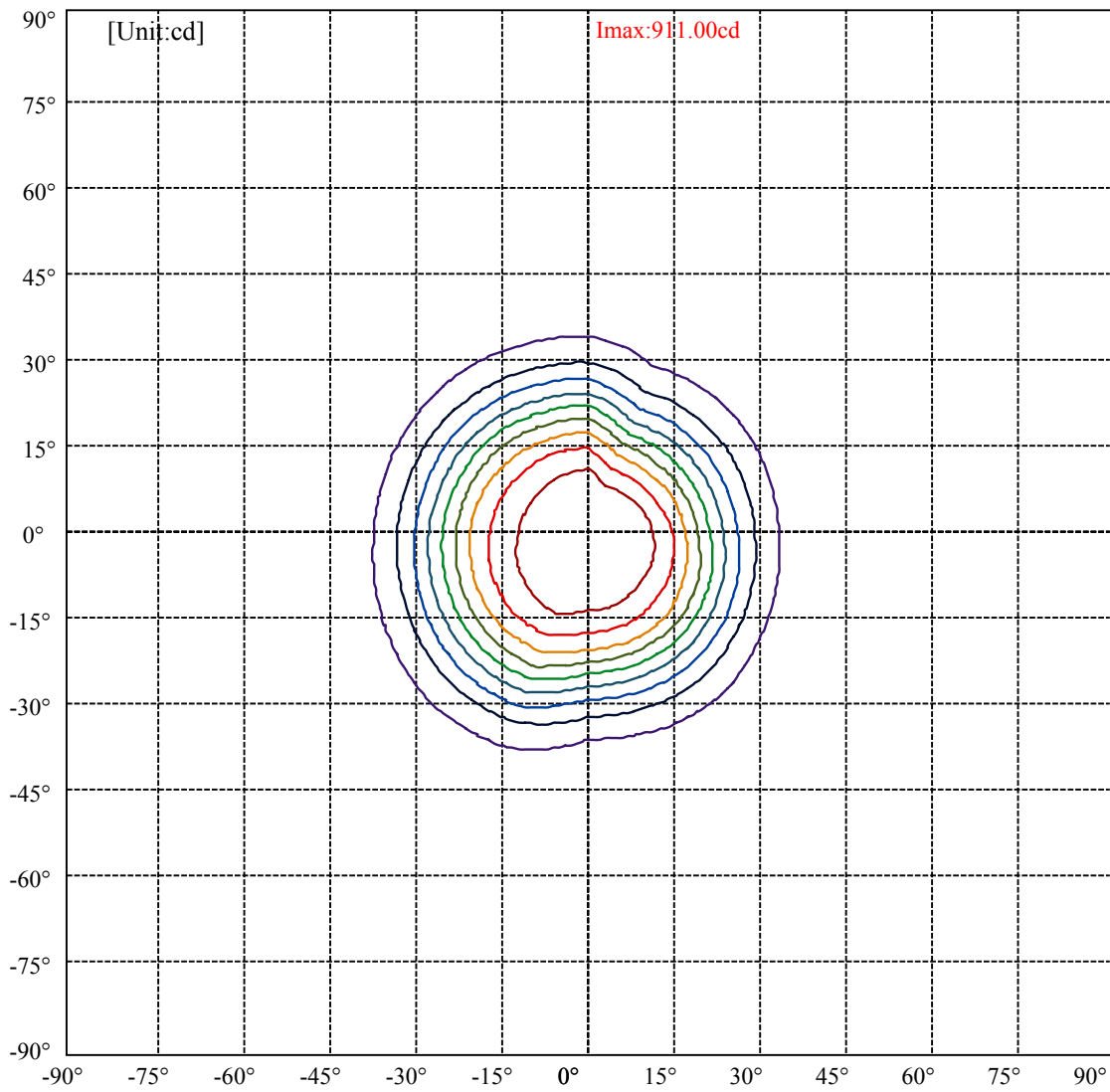
C90/C270: —

Field angle(10%Imax):C0/180Left:36.9 Right:32.8
:C90/270Left:35.9 Right:33.8

Beam Angle(50%Imax):C0/180Left:25.1 Right:20.9
:C90/270Left:24.7 Right:22.0



Max , Ave Beam angle of C0 plane 47.25



| | |
|--------------------------------|---|
| (10%I _{max}) 91.1001 | — |
| (20%I _{max}) 182.2 | — |
| (30%I _{max}) 273.3 | — |
| (40%I _{max}) 364.4 | — |
| (50%I _{max}) 455.5 | — |
| (60%I _{max}) 546.601 | — |
| (70%I _{max}) 637.701 | — |
| (80%I _{max}) 728.801 | — |
| (90%I _{max}) 819.901 | — |

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 | 886.67 | 911.00 | 849.64 | 716.40 | 492.98 | 295.50 | 142.09 | 51.48 | 23.89 |
| 22.5 | 886.67 | 908.53 | 823.07 | 662.25 | 442.94 | 257.82 | 121.91 | 48.60 | 26.36 |
| 45.0 | 886.67 | 899.88 | 800.63 | 614.27 | 403.40 | 223.01 | 106.46 | 47.57 | 30.27 |
| 67.5 | 886.67 | 900.09 | 784.77 | 598.82 | 373.34 | 202.83 | 95.14 | 42.83 | 26.98 |
| 90.0 | 886.67 | 869.61 | 837.49 | 713.11 | 527.57 | 314.44 | 153.82 | 67.95 | 33.15 |
| 112.5 | 886.67 | 858.49 | 835.02 | 719.70 | 539.52 | 329.48 | 166.80 | 71.66 | 36.04 |
| 135.0 | 886.67 | 858.90 | 833.99 | 734.11 | 571.64 | 368.40 | 190.48 | 84.84 | 39.95 |
| 157.5 | 886.67 | 861.79 | 840.78 | 754.29 | 616.33 | 407.73 | 222.81 | 97.81 | 42.21 |
| 180.0 | 886.67 | 863.43 | 846.55 | 779.62 | 648.86 | 458.38 | 266.26 | 118.20 | 46.33 |
| 202.5 | 886.67 | 878.88 | 857.26 | 800.42 | 681.81 | 497.92 | 302.29 | 145.79 | 60.13 |
| 225.0 | 886.67 | 890.00 | 863.23 | 812.57 | 703.02 | 525.51 | 333.59 | 170.71 | 76.40 |
| 247.5 | 886.67 | 898.85 | 880.53 | 823.48 | 709.82 | 543.64 | 343.27 | 178.33 | 77.84 |
| 270.0 | 886.67 | 862.20 | 876.41 | 796.71 | 651.33 | 428.11 | 231.25 | 100.28 | 37.27 |
| 292.5 | 886.67 | 853.96 | 867.96 | 798.98 | 645.98 | 420.08 | 230.02 | 102.76 | 41.39 |
| 315.0 | 886.67 | 871.46 | 870.23 | 776.12 | 623.74 | 398.67 | 210.45 | 96.99 | 45.10 |
| 337.5 | 886.67 | 898.65 | 869.41 | 753.27 | 574.11 | 352.33 | 177.92 | 69.19 | 28.21 |
| 360.0 | 886.67 | 911.00 | 849.64 | 716.40 | 492.98 | 295.50 | 142.09 | 51.48 | 23.89 |
| C/ γ (°) | 45.0 | 50.0 | 55.0 | 60.0 | 65.0 | 70.0 | 75.0 | 80.0 | 85.0 |
| 0.0 | 18.33 | 14.62 | 10.71 | 6.59 | 4.53 | 2.06 | 1.44 | 0.82 | 0.00 |
| 22.5 | 19.77 | 15.65 | 11.94 | 7.83 | 5.35 | 2.27 | 1.85 | 0.82 | 0.00 |
| 45.0 | 23.06 | 16.89 | 12.97 | 9.47 | 5.77 | 3.09 | 1.65 | 0.82 | 0.00 |
| 67.5 | 18.95 | 15.44 | 11.74 | 8.03 | 5.35 | 2.88 | 1.85 | 1.03 | 0.00 |
| 90.0 | 21.00 | 16.47 | 13.59 | 10.09 | 6.59 | 4.32 | 2.47 | 1.65 | 0.62 |
| 112.5 | 23.48 | 18.53 | 15.03 | 11.53 | 7.62 | 4.94 | 2.68 | 2.06 | 0.62 |
| 135.0 | 28.21 | 22.65 | 16.89 | 12.77 | 9.47 | 5.56 | 3.30 | 2.06 | 0.41 |
| 157.5 | 27.59 | 19.77 | 15.65 | 12.77 | 8.86 | 5.56 | 3.50 | 1.85 | 1.03 |
| 180.0 | 25.12 | 18.12 | 15.03 | 11.94 | 8.24 | 5.35 | 2.88 | 2.06 | 1.24 |
| 202.5 | 32.74 | 20.80 | 16.68 | 13.39 | 9.88 | 5.97 | 3.50 | 2.06 | 0.82 |
| 225.0 | 40.98 | 28.62 | 20.59 | 14.42 | 10.91 | 7.21 | 3.91 | 1.65 | 0.62 |
| 247.5 | 33.36 | 20.80 | 16.06 | 12.77 | 9.06 | 5.77 | 3.30 | 1.03 | 0.82 |
| 270.0 | 21.62 | 16.27 | 12.56 | 9.06 | 5.97 | 3.91 | 1.85 | 1.44 | 0.41 |
| 292.5 | 22.86 | 17.92 | 13.80 | 9.68 | 5.77 | 3.71 | 1.65 | 1.03 | 0.41 |
| 315.0 | 30.27 | 18.33 | 13.80 | 10.09 | 6.18 | 3.50 | 1.44 | 1.03 | 0.21 |
| 337.5 | 21.00 | 16.27 | 12.15 | 8.03 | 5.15 | 2.88 | 1.44 | 0.82 | 0.00 |
| 360.0 | 18.33 | 14.62 | 10.71 | 6.59 | 4.53 | 2.06 | 1.44 | 0.82 | 0.00 |
| C/ γ (°) | 90.0 | 95.0 | 100.0 | 105.0 | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 67.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 112.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 157.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 202.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 225.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 247.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 270.0 | 0.21 | 0.00 | 0.21 | 0.21 | 0.21 | 0.41 | 0.21 | 0.21 | 0.21 |
| 292.5 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 315.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 337.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 |
| 360.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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 | 0.00 | 0.00 | 0.21 | 0.21 | 0.21 | 0.41 | 0.41 | 0.62 | 0.82 |
| 22.5 | 0.00 | 0.00 | 0.21 | 0.21 | 0.41 | 0.21 | 0.41 | 0.41 | 0.62 |
| 45.0 | 0.21 | 0.21 | 0.41 | 0.41 | 0.62 | 0.62 | 0.41 | 0.62 | 0.62 |
| 67.5 | 0.00 | 0.21 | 0.21 | 0.21 | 0.21 | 0.41 | 0.62 | 0.41 | 0.62 |
| 90.0 | 0.00 | 0.21 | 0.00 | 0.21 | 0.21 | 0.41 | 0.62 | 0.41 | 0.62 |
| 112.5 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.41 | 0.41 | 0.41 | 0.62 |
| 135.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 | 0.41 | 0.41 | 0.62 |
| 157.5 | 0.00 | 0.00 | 0.00 | 0.21 | 0.21 | 0.41 | 0.41 | 0.62 | 0.62 |
| 180.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.21 | 0.41 | 0.21 | 0.41 |
| 202.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.21 | 0.41 | 0.41 |
| 225.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.41 | 0.41 |
| 247.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.21 | 0.41 | 0.41 |
| 270.0 | 0.41 | 0.41 | 0.41 | 0.41 | 0.62 | 0.62 | 1.03 | 0.82 | 1.24 |
| 292.5 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.41 | 0.62 | 0.62 | 0.82 |
| 315.0 | 0.00 | 0.21 | 0.00 | 0.21 | 0.41 | 0.41 | 0.41 | 0.62 | 0.62 |
| 337.5 | 0.00 | 0.00 | 0.21 | 0.21 | 0.41 | 0.41 | 0.41 | 0.62 | 0.62 |
| 360.0 | 0.00 | 0.00 | 0.21 | 0.21 | 0.21 | 0.41 | 0.41 | 0.62 | 0.82 |

| C/γ(°) | 180.0 |
|--------|-------|
| 0.0 | 0.62 |
| 22.5 | 0.62 |
| 45.0 | 0.62 |
| 67.5 | 0.62 |
| 90.0 | 0.62 |
| 112.5 | 0.62 |
| 135.0 | 0.62 |
| 157.5 | 0.62 |
| 180.0 | 0.62 |
| 202.5 | 0.62 |
| 225.0 | 0.62 |
| 247.5 | 0.62 |
| 270.0 | 0.62 |
| 292.5 | 0.62 |
| 315.0 | 0.62 |
| 337.5 | 0.62 |
| 360.0 | 0.62 |