



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.  
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Client:

LumCAT: LRG3-HO-5CCT-4RSL-5000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.08

LampCAT:

Current(A): 0.0920

Lamp flux(lm): -1.0

Power (W): 10.83

Number of Lamps: 0

PF: 0.9776

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

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Lumens(lm): 1119.83, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 103.42

Central intensity(cd): 406.045, Maximum intensity(cd): 1902.359

Angle of maximum intensity: C=0.0  $\gamma$ =30.0

Beam Angle(50%Imax): [C0/180]Total=60.6

[C90/270]Total=35.0

Field angle(10%Imax): [C0/180]Total=70.3

[C90/270]Total=103.4

Maximum s/h(1/2): C0\_180=0.15 C90\_270=0.61

Maximum s/h(1/4): C0\_180=0.22 C90\_270=0.63

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.05%

Down flux rate of LUM(%): 99.95%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 95.159%

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

Date:  
Humidity(%): 59%

Operator: Tester

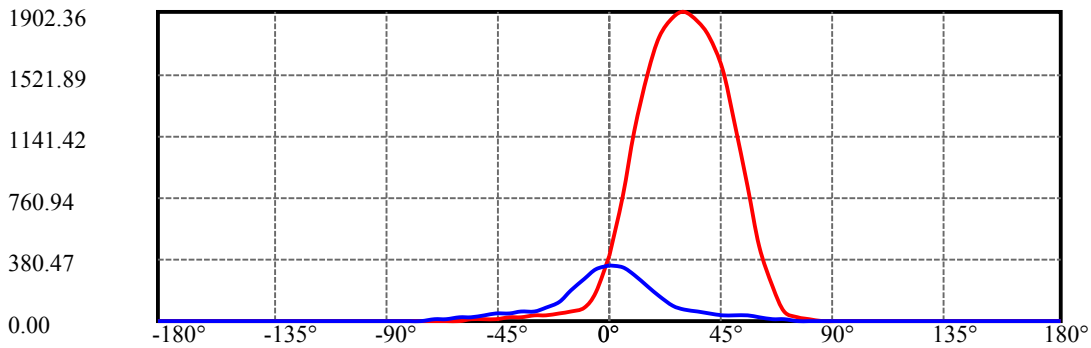
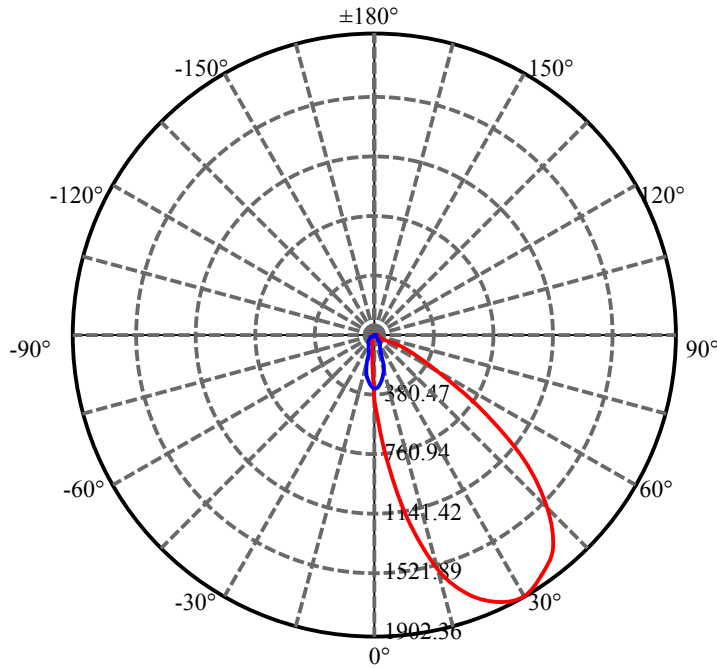
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0                | 375.190       | 0.000       | 0         | 0.00%       | 0.00%      |
| 5.0                | 398.027       | 9.244       | 9.244     | 0.00%       | 0.83%      |
| 10.0               | 446.851       | 30.224      | 39.468    | 0.00%       | 3.52%      |
| 15.0               | 499.247       | 56.122      | 95.589    | 0.00%       | 8.54%      |
| 20.0               | 526.372       | 84.525      | 180.115   | 0.00%       | 16.08%     |
| 25.0               | 524.546       | 110.222     | 290.337   | 0.00%       | 25.93%     |
| 30.0               | 500.544       | 129.726     | 420.063   | 0.00%       | 37.51%     |
| 35.0               | 449.974       | 139.970     | 560.033   | 0.00%       | 50.01%     |
| 40.0               | 385.246       | 139.350     | 699.383   | 0.00%       | 62.45%     |
| 45.0               | 306.704       | 128.120     | 827.503   | 0.00%       | 73.90%     |
| 50.0               | 222.764       | 106.987     | 934.49    | 0.00%       | 83.45%     |
| 55.0               | 142.317       | 79.381      | 1013.871  | 0.00%       | 90.54%     |
| 60.0               | 81.532        | 51.742      | 1065.613  | 0.00%       | 95.16%     |
| 65.0               | 40.832        | 29.747      | 1095.36   | 0.00%       | 97.82%     |
| 70.0               | 15.878        | 14.359      | 1109.719  | 0.00%       | 99.10%     |
| 75.0               | 7.145         | 6.018       | 1115.737  | 0.00%       | 99.63%     |
| 80.0               | 2.752         | 2.648       | 1118.385  | 0.00%       | 99.87%     |
| 85.0               | 0.238         | 0.813       | 1119.198  | 0.00%       | 99.94%     |
| 90.0               | 0.000         | 0.065       | 1119.263  | 0.00%       | 99.95%     |
| 95.0               | 0.000         | 0.000       | 1119.263  | 0.00%       | 99.95%     |
| 100.0              | 0.000         | 0.000       | 1119.263  | 0.00%       | 99.95%     |
| 105.0              | 0.000         | 0.000       | 1119.263  | 0.00%       | 99.95%     |
| 110.0              | 0.000         | 0.000       | 1119.263  | 0.00%       | 99.95%     |
| 115.0              | 0.000         | 0.000       | 1119.263  | 0.00%       | 99.95%     |
| 120.0              | 0.000         | 0.000       | 1119.263  | 0.00%       | 99.95%     |
| 125.0              | 0.027         | 0.006       | 1119.269  | 0.00%       | 99.95%     |
| 130.0              | 0.106         | 0.029       | 1119.298  | 0.00%       | 99.95%     |
| 135.0              | 0.159         | 0.053       | 1119.351  | 0.00%       | 99.96%     |
| 140.0              | 0.238         | 0.074       | 1119.425  | 0.00%       | 99.96%     |
| 145.0              | 0.265         | 0.084       | 1119.509  | 0.00%       | 99.97%     |
| 150.0              | 0.291         | 0.082       | 1119.59   | 0.00%       | 99.98%     |
| 155.0              | 0.291         | 0.074       | 1119.664  | 0.00%       | 99.99%     |
| 160.0              | 0.265         | 0.058       | 1119.722  | 0.00%       | 99.99%     |
| 165.0              | 0.291         | 0.046       | 1119.768  | 0.00%       | 99.99%     |
| 170.0              | 0.265         | 0.033       | 1119.801  | 0.00%       | 100.00%    |
| 175.0              | 0.265         | 0.019       | 1119.82   | 0.00%       | 100.00%    |
| 180.0              | 0.371         | 0.008       | 1119.828  | 0.00%       | 100.00%    |

ZONAL LUMEN SUMMARY

| Zone    | Lumens  | %Lamp | %Fixt   |
|---------|---------|-------|---------|
| 0-30    | 420.06  | N.A.  | 37.51%  |
| 0-40    | 699.38  | N.A.  | 62.45%  |
| 0-60    | 1065.61 | N.A.  | 95.16%  |
| 0-90    | 1119.26 | N.A.  | 99.95%  |
| 0-120   | 1119.26 | N.A.  | 99.95%  |
| 0-180   | 1119.83 | N.A.  | 100.00% |
| 60-90   | 53.65   | N.A.  | 4.79%   |
| 90-120  | 0.00    | N.A.  | 0.00%   |
| 90-130  | 0.03    | N.A.  | 0.00%   |
| 90-150  | 0.33    | N.A.  | 0.03%   |
| 90-180  | 0.56    | N.A.  | 0.05%   |
| 0-48.19 | 895.86  | N.A.  | 80.00%  |

ZONAL LUMEN SUMMARY

|         |        |
|---------|--------|
| 0-10    | 39.47  |
| 10-20   | 140.65 |
| 20-30   | 239.95 |
| 30-40   | 279.32 |
| 40-50   | 235.11 |
| 50-60   | 131.12 |
| 60-70   | 44.11  |
| 70-80   | 8.67   |
| 80-90   | 0.88   |
| 90-100  | 0.00   |
| 100-110 | 0.00   |
| 110-120 | 0.00   |
| 120-130 | 0.03   |
| 130-140 | 0.13   |
| 140-150 | 0.17   |
| 150-160 | 0.13   |
| 160-170 | 0.08   |
| 170-180 | 0.02   |

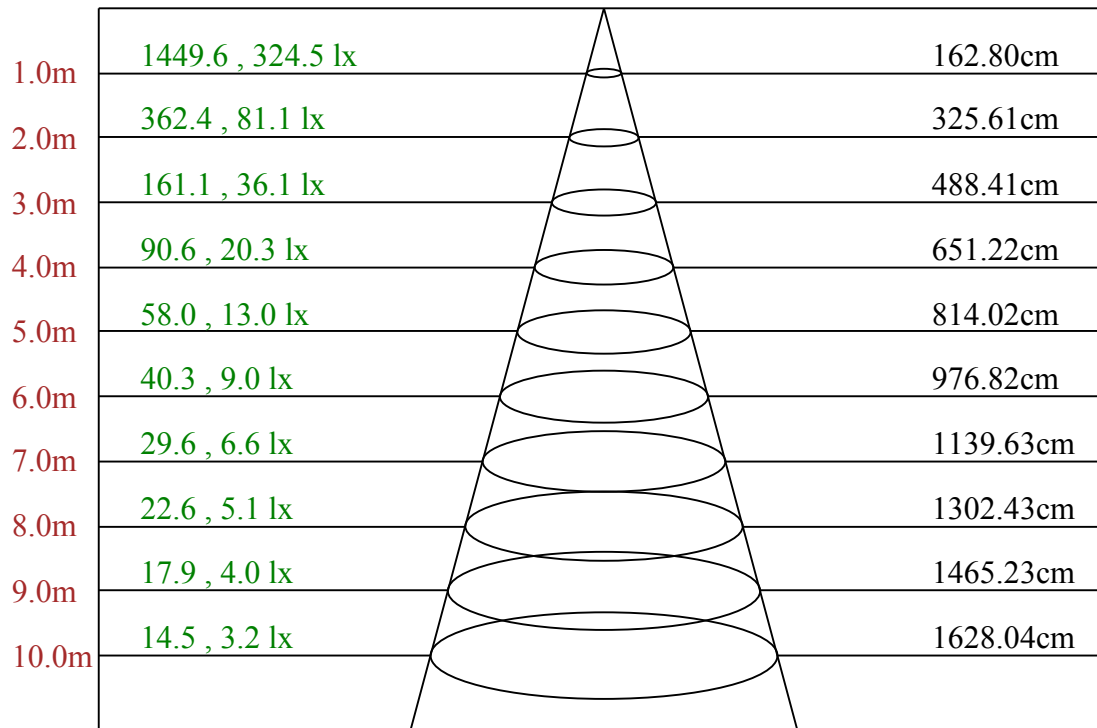


C0/C180: —

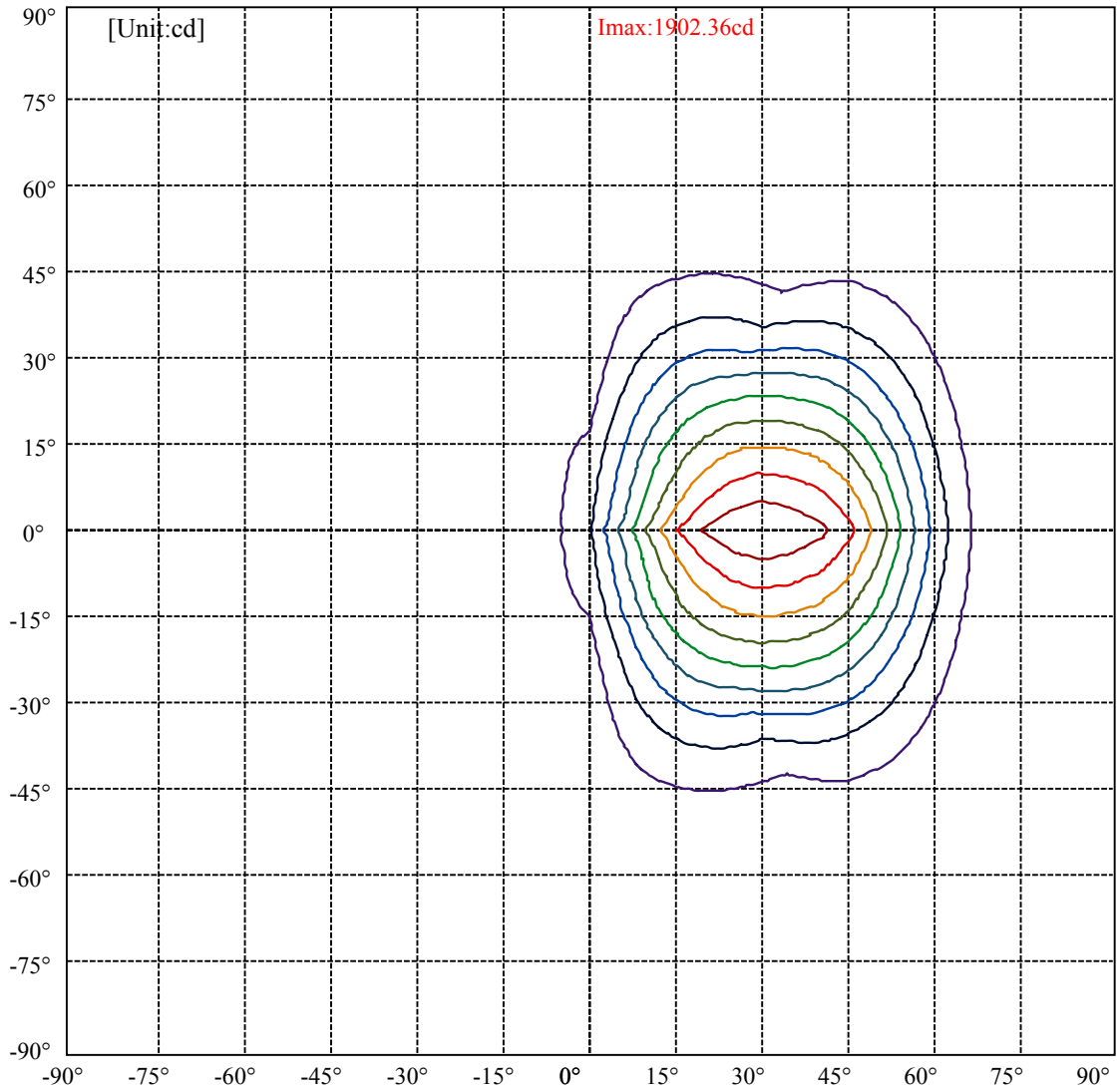
C90/C270: —

Field angle(10%Imax):C0/180Left:4.7 Right:65.6  
:C90/270Left:51.4 Right:52.0

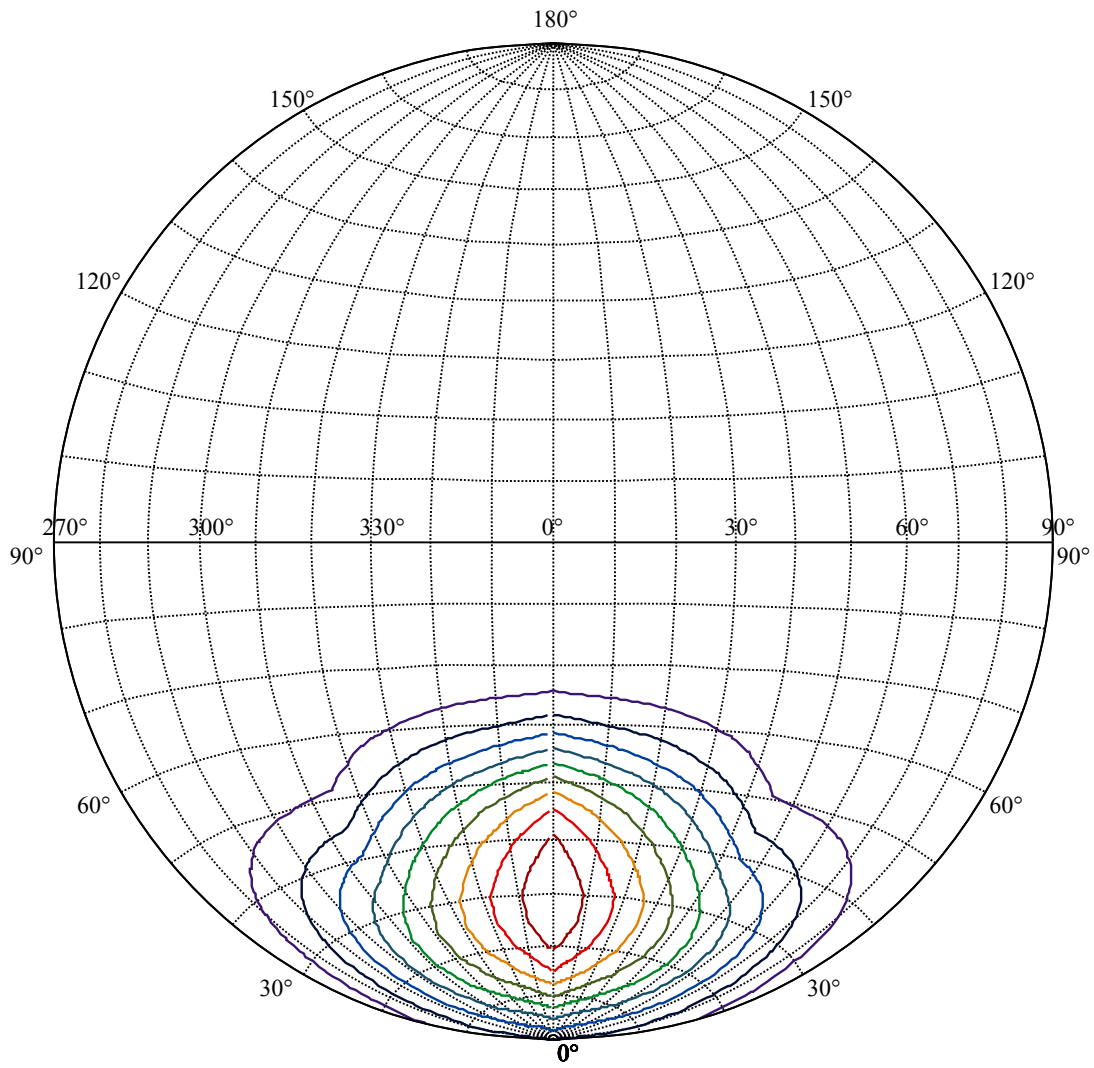
Beam Angle(50%Imax):C0/180Left:7.2 Right:53.4  
:C90/270Left:16.3 Right:18.7



Max , Ave      Beam angle of C0 plane 78.29



|                   |   |
|-------------------|---|
| (10%Imax) 190.236 | — |
| (20%Imax) 380.472 | — |
| (30%Imax) 570.708 | — |
| (40%Imax) 760.944 | — |
| (50%Imax) 951.18  | — |
| (60%Imax) 1141.42 | — |
| (70%Imax) 1331.65 | — |
| (80%Imax) 1521.89 | — |
| (90%Imax) 1712.12 | — |



House

[Unit:cd]

Road

**Imax:1902.36**

|                   |   |
|-------------------|---|
| (10%Imax) 190.236 | — |
| (20%Imax) 380.472 | — |
| (30%Imax) 570.708 | — |
| (40%Imax) 760.944 | — |
| (50%Imax) 951.18  | — |
| (60%Imax) 1141.42 | — |
| (70%Imax) 1331.65 | — |
| (80%Imax) 1521.89 | — |
| (90%Imax) 1712.12 | — |

LRG3-HO-5CCT-4RSL-5000K

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    | 406.05 | 770.39 | 1174.74 | 1527.86 | 1746.97 | 1863.83 | 1902.36 | 1843.72 | 1748.03 |
| 45.0   | 374.08 | 575.20 | 769.75  | 920.69  | 1000.72 | 998.18  | 919.21  | 762.55  | 562.07  |
| 90.0   | 340.42 | 327.29 | 279.45  | 216.78  | 153.06  | 97.81   | 66.48   | 54.83   | 47.00   |
| 135.0  | 380.22 | 220.59 | 111.99  | 64.57   | 51.66   | 44.25   | 38.74   | 32.81   | 27.73   |
| 180.0  | 406.05 | 178.04 | 77.91   | 55.47   | 46.58   | 39.17   | 32.81   | 26.89   | 21.81   |
| 225.0  | 374.08 | 210.01 | 104.79  | 63.72   | 51.66   | 44.88   | 39.17   | 33.03   | 27.52   |
| 270.0  | 340.42 | 315.23 | 256.80  | 185.88  | 123.63  | 82.14   | 62.03   | 53.77   | 47.85   |
| 315.0  | 380.22 | 587.47 | 799.39  | 959.01  | 1036.71 | 1026.12 | 943.56  | 792.19  | 599.97  |
| 360.0  | 406.05 | 770.39 | 1174.74 | 1527.86 | 1746.97 | 1863.83 | 1902.36 | 1843.72 | 1748.03 |

|        |         |         |        |        |        |       |       |      |      |
|--------|---------|---------|--------|--------|--------|-------|-------|------|------|
| C/γ(°) | 45.0    | 50.0    | 55.0   | 60.0   | 65.0   | 70.0  | 75.0  | 80.0 | 85.0 |
| 0.0    | 1547.97 | 1228.51 | 824.58 | 460.88 | 208.10 | 53.35 | 20.96 | 9.10 | 1.91 |
| 45.0   | 364.76  | 205.35  | 102.46 | 60.97  | 38.53  | 24.56 | 13.34 | 5.29 | 0.00 |
| 90.0   | 40.86   | 35.99   | 31.12  | 24.35  | 16.94  | 9.10  | 4.23  | 1.06 | 0.00 |
| 135.0  | 22.44   | 18.00   | 13.76  | 8.68   | 4.87   | 3.18  | 1.69  | 0.42 | 0.00 |
| 180.0  | 17.15   | 12.91   | 9.32   | 5.50   | 4.02   | 2.33  | 1.27  | 0.21 | 0.00 |
| 225.0  | 22.23   | 17.78   | 12.91  | 7.83   | 4.23   | 2.75  | 1.27  | 0.21 | 0.00 |
| 270.0  | 42.13   | 35.99   | 28.79  | 20.54  | 12.70  | 6.56  | 2.12  | 0.42 | 0.00 |
| 315.0  | 396.10  | 227.58  | 115.59 | 63.51  | 37.26  | 25.19 | 12.28 | 5.29 | 0.00 |
| 360.0  | 1547.97 | 1228.51 | 824.58 | 460.88 | 208.10 | 53.35 | 20.96 | 9.10 | 1.91 |

|        |      |      |       |       |       |       |       |       |       |
|--------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 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  |
| 45.0   | 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  |
| 135.0  | 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  | 0.21  | 0.64  |
| 225.0  | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.21  |
| 270.0  | 0.00 | 0.00 | 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  |
| 360.0  | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |

|        |       |       |       |       |       |       |       |       |       |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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  | 0.00  | 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  | 0.42  | 0.64  |
| 90.0   | 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  | 0.21  | 0.21  | 0.42  | 0.21  | 0.00  |
| 180.0  | 0.85  | 0.85  | 1.06  | 1.27  | 0.85  | 0.85  | 0.85  | 0.42  | 0.64  |
| 225.0  | 0.42  | 1.06  | 1.06  | 1.06  | 1.27  | 1.06  | 1.06  | 0.85  | 0.64  |
| 270.0  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.21  | 0.21  |
| 315.0  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 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  |

|        |       |
|--------|-------|
| C/γ(°) | 180.0 |
| 0.0    | 0.21  |
| 45.0   | 0.85  |
| 90.0   | 0.42  |
| 135.0  | 0.00  |
| 180.0  | 0.21  |
| 225.0  | 0.85  |
| 270.0  | 0.42  |
| 315.0  | 0.00  |
| 360.0  | 0.21  |