



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

LumCAT: LD3S-5CCT-5SSL-5000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.04

LampCAT:

Current(A): 0.1230

Lamp flux(lm): -1.0

Power (W): 14.51

Number of Lamps: 0

PF: 0.9851

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1403.22, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 96.71

Central intensity(cd): 538.053, Maximum intensity(cd): 2247.788

Angle of maximum intensity: C=0.0 γ =30.0

Beam Angle(50%Imax): [C0/180]Total=55.1

[C90/270]Total=50.3

Field angle(10%Imax): [C0/180]Total=70.9

[C90/270]Total=123.6

Maximum s/h(1/2): C0_180=0.29 C90_270=0.81

Maximum s/h(1/4): C0_180=0.64 C90_270=0.89

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.19%

Down flux rate of LUM(%): 99.81%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 94.566%

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

Date:
Humidity(%): 59%

Operator: Tester

LD3S-5CCT-5SSL-5000K

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 | 520.771 | 0.000 | 0 | 0.00% | 0.00% |
| 5.0 | 544.352 | 12.733 | 12.733 | 0.00% | 0.91% |
| 10.0 | 596.434 | 40.810 | 53.543 | 0.00% | 3.82% |
| 15.0 | 650.078 | 73.942 | 127.485 | 0.00% | 9.09% |
| 20.0 | 687.949 | 110.272 | 237.757 | 0.00% | 16.94% |
| 25.0 | 694.638 | 145.008 | 382.765 | 0.00% | 27.28% |
| 30.0 | 663.691 | 171.898 | 554.663 | 0.00% | 39.53% |
| 35.0 | 592.816 | 185.029 | 739.692 | 0.00% | 52.71% |
| 40.0 | 486.049 | 180.001 | 919.693 | 0.00% | 65.54% |
| 45.0 | 358.876 | 156.445 | 1076.138 | 0.00% | 76.69% |
| 50.0 | 241.463 | 121.307 | 1197.445 | 0.00% | 85.34% |
| 55.0 | 132.327 | 81.274 | 1278.719 | 0.00% | 91.13% |
| 60.0 | 76.366 | 48.239 | 1326.958 | 0.00% | 94.57% |
| 65.0 | 49.011 | 30.479 | 1357.437 | 0.00% | 96.74% |
| 70.0 | 29.568 | 19.897 | 1377.334 | 0.00% | 98.16% |
| 75.0 | 16.684 | 12.090 | 1389.424 | 0.00% | 99.02% |
| 80.0 | 8.719 | 6.797 | 1396.221 | 0.00% | 99.50% |
| 85.0 | 3.306 | 3.267 | 1399.488 | 0.00% | 99.73% |
| 90.0 | 0.338 | 0.998 | 1400.486 | 0.00% | 99.81% |
| 95.0 | 0.156 | 0.135 | 1400.621 | 0.00% | 99.82% |
| 100.0 | 0.078 | 0.064 | 1400.685 | 0.00% | 99.82% |
| 105.0 | 0.104 | 0.049 | 1400.734 | 0.00% | 99.82% |
| 110.0 | 0.208 | 0.082 | 1400.815 | 0.00% | 99.83% |
| 115.0 | 0.260 | 0.119 | 1400.934 | 0.00% | 99.84% |
| 120.0 | 0.286 | 0.133 | 1401.067 | 0.00% | 99.85% |
| 125.0 | 0.364 | 0.150 | 1401.217 | 0.00% | 99.86% |
| 130.0 | 0.468 | 0.181 | 1401.398 | 0.00% | 99.87% |
| 135.0 | 0.546 | 0.205 | 1401.603 | 0.00% | 99.89% |
| 140.0 | 0.703 | 0.231 | 1401.834 | 0.00% | 99.90% |
| 145.0 | 0.833 | 0.256 | 1402.09 | 0.00% | 99.92% |
| 150.0 | 0.911 | 0.257 | 1402.347 | 0.00% | 99.94% |
| 155.0 | 1.093 | 0.254 | 1402.601 | 0.00% | 99.96% |
| 160.0 | 0.989 | 0.218 | 1402.819 | 0.00% | 99.97% |
| 165.0 | 0.963 | 0.161 | 1402.98 | 0.00% | 99.98% |
| 170.0 | 1.145 | 0.125 | 1403.105 | 0.00% | 99.99% |
| 175.0 | 1.145 | 0.082 | 1403.187 | 0.00% | 100.00% |
| 180.0 | 1.250 | 0.029 | 1403.216 | 0.00% | 100.00% |

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

Date:
Humidity(%): 59%

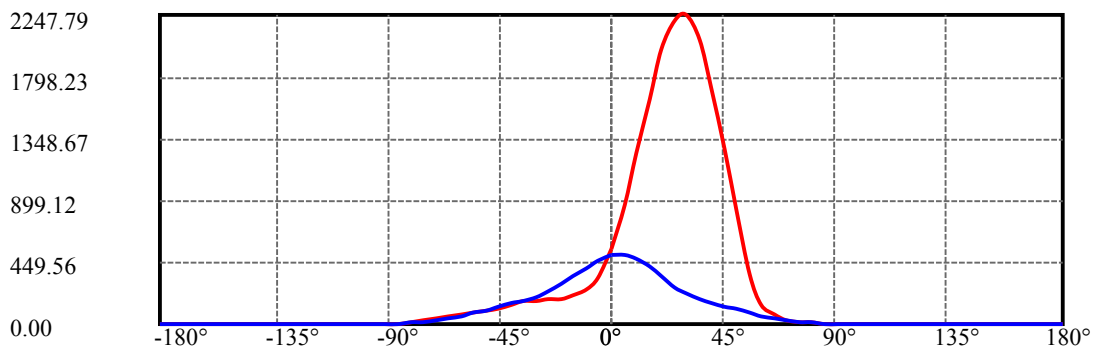
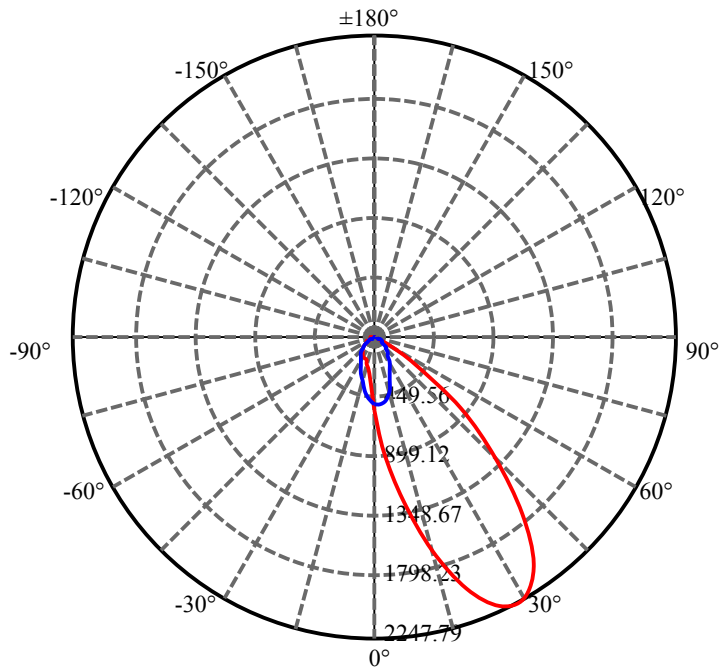
Operator: Tester

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|---------|
| 0-30 | 554.66 | N.A. | 39.53% |
| 0-40 | 919.69 | N.A. | 65.54% |
| 0-60 | 1326.96 | N.A. | 94.57% |
| 0-90 | 1400.49 | N.A. | 99.81% |
| 0-120 | 1401.07 | N.A. | 99.85% |
| 0-180 | 1403.22 | N.A. | 100.00% |
| 60-90 | 73.53 | N.A. | 5.24% |
| 90-120 | 0.58 | N.A. | 0.04% |
| 90-130 | 0.91 | N.A. | 0.06% |
| 90-150 | 1.86 | N.A. | 0.13% |
| 90-180 | 2.70 | N.A. | 0.19% |
| 0-46.91 | 1122.57 | N.A. | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 53.54 |
| 10-20 | 184.21 |
| 20-30 | 316.91 |
| 30-40 | 365.03 |
| 40-50 | 277.75 |
| 50-60 | 129.51 |
| 60-70 | 50.38 |
| 70-80 | 18.89 |
| 80-90 | 4.27 |
| 90-100 | 0.20 |
| 100-110 | 0.13 |
| 110-120 | 0.25 |
| 120-130 | 0.33 |
| 130-140 | 0.44 |
| 140-150 | 0.51 |
| 150-160 | 0.47 |
| 160-170 | 0.29 |
| 170-180 | 0.08 |

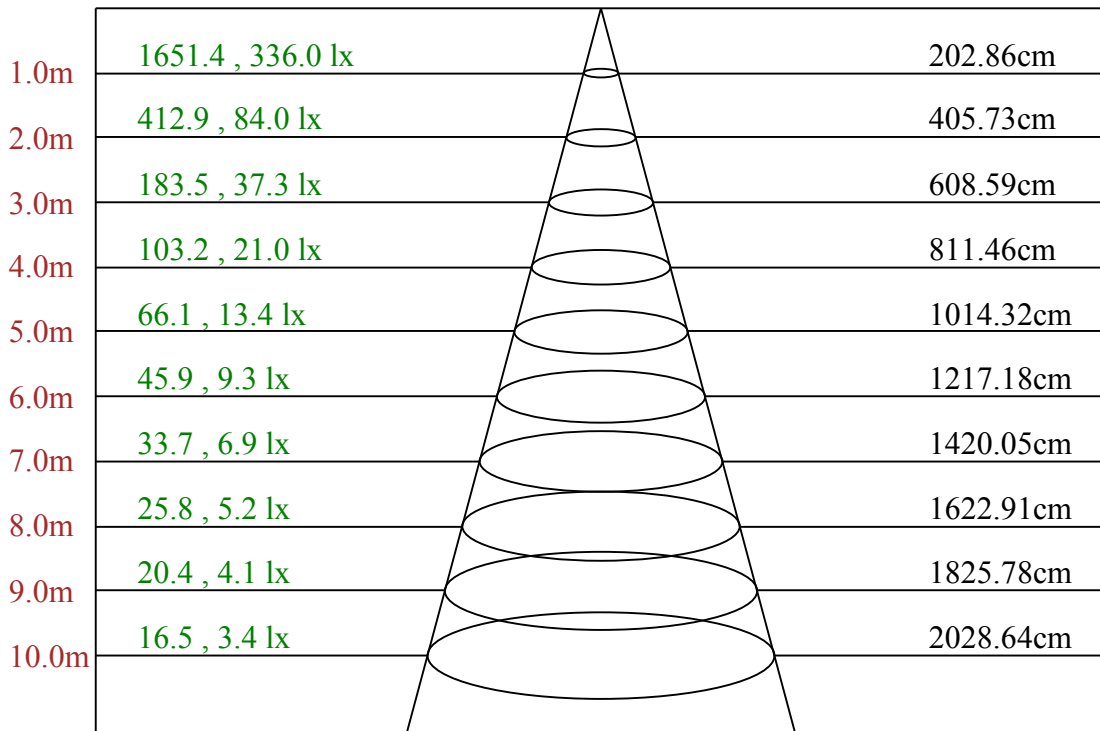


C0/C180: —

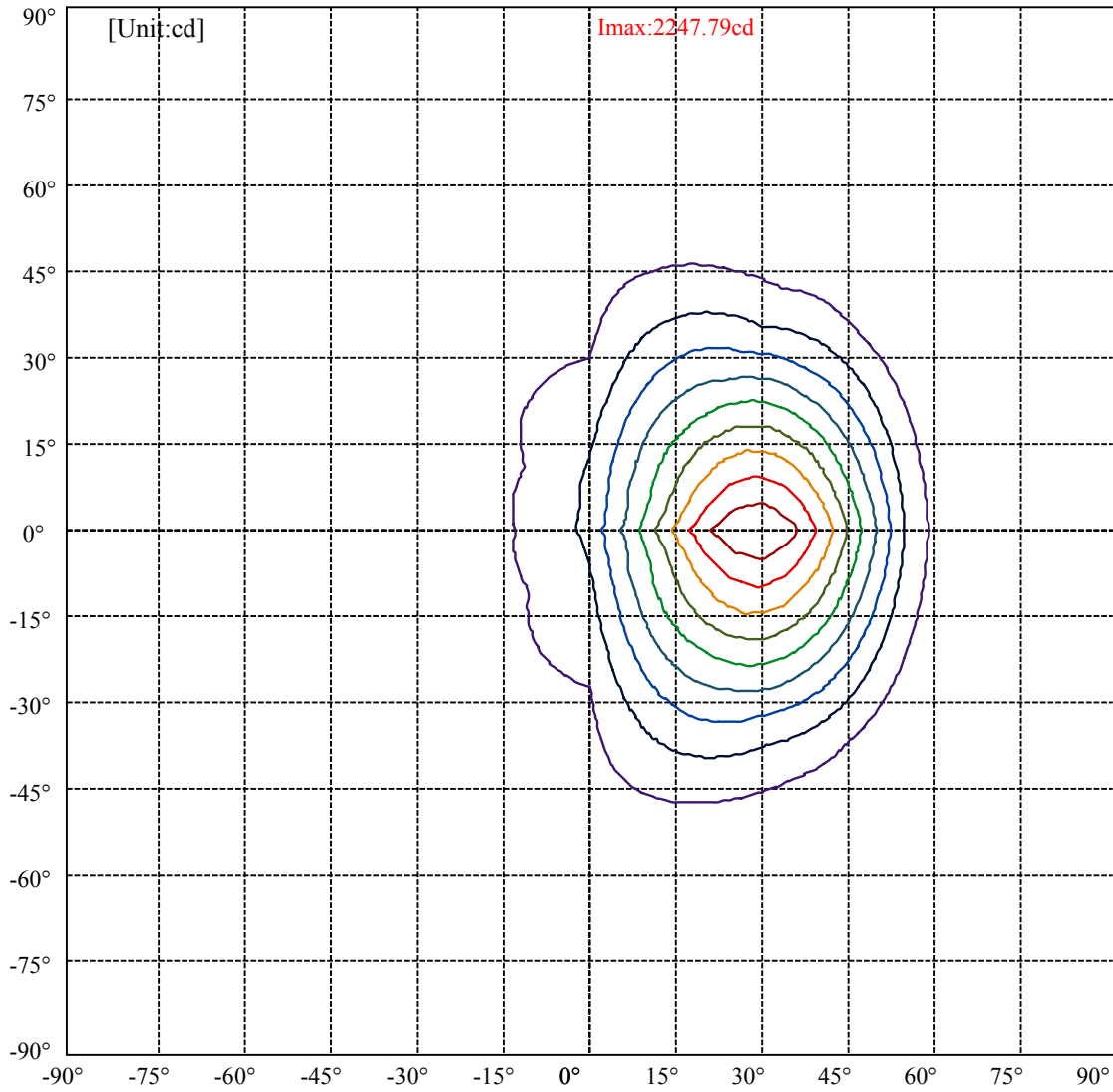
C90/C270: —

Field angle(10%Imax):C0/180Left:12.8 Right:58.1
:C90/270Left:61.6 Right:62.0

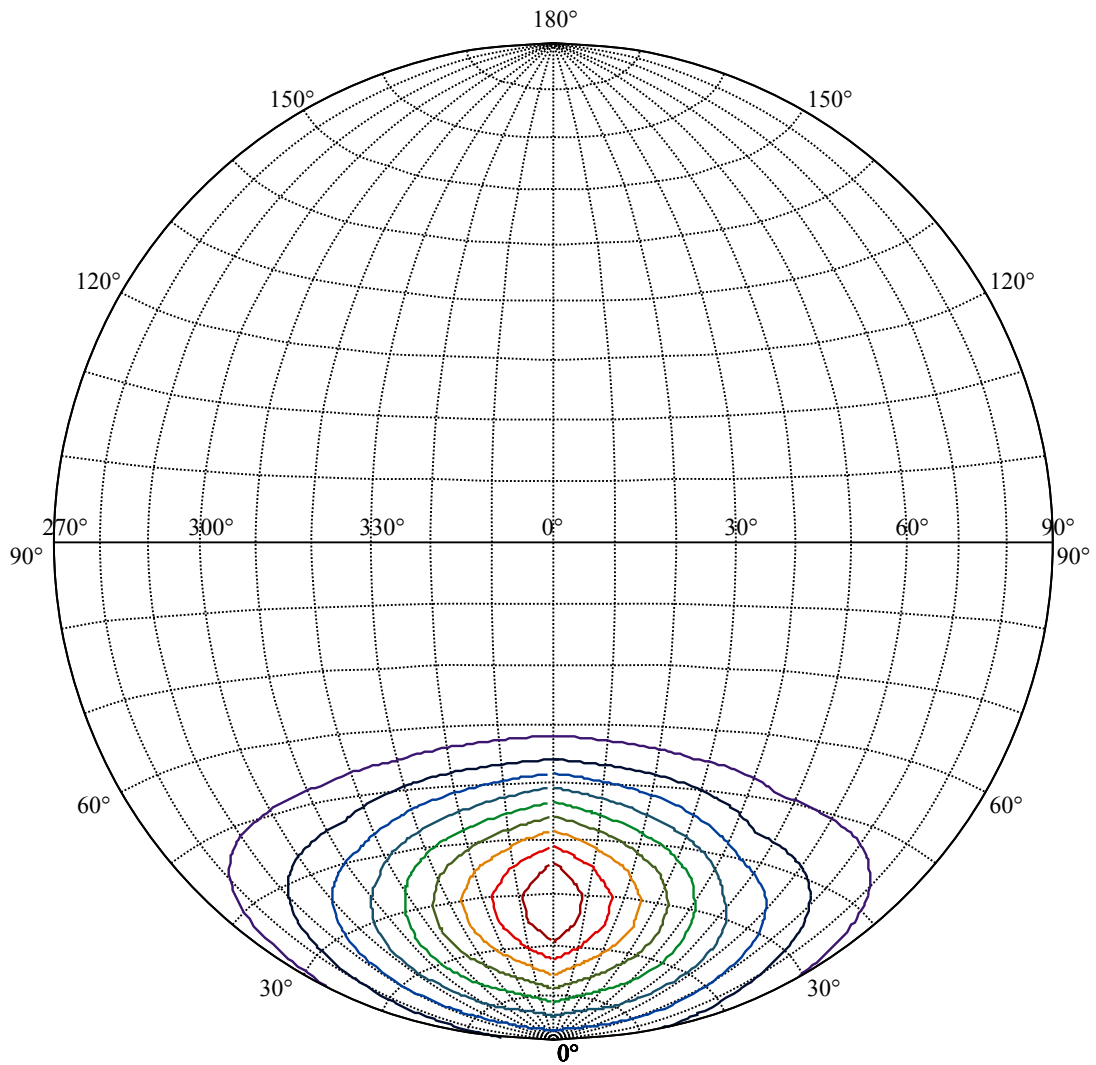
Beam Angle(50%Imax):C0/180Left:8.4 Right:46.7
:C90/270Left:23.6 Right:26.7



Max , Ave Beam angle of C0 plane 90.81



| | |
|-------------------|---|
| (10%Imax) 224.779 | — |
| (20%Imax) 449.558 | — |
| (30%Imax) 674.336 | — |
| (40%Imax) 899.115 | — |
| (50%Imax) 1123.89 | — |
| (60%Imax) 1348.67 | — |
| (70%Imax) 1573.45 | — |
| (80%Imax) 1798.23 | — |
| (90%Imax) 2023.01 | — |



House

[Unit:cd]

Road

Imax:2247.79

| | |
|-------------------|---|
| (10%Imax) 224.779 | — |
| (20%Imax) 449.558 | — |
| (30%Imax) 674.336 | — |
| (40%Imax) 899.115 | — |
| (50%Imax) 1123.89 | — |
| (60%Imax) 1348.67 | — |
| (70%Imax) 1573.45 | — |
| (80%Imax) 1798.23 | — |
| (90%Imax) 2023.01 | — |

LD3S-5CCT-5SSL-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 | 538.05 | 867.47 | 1241.65 | 1638.73 | 1990.21 | 2210.93 | 2247.79 | 2069.55 | 1718.69 |
| 45.0 | 512.44 | 726.08 | 922.65 | 1063.82 | 1137.74 | 1125.87 | 1035.09 | 881.21 | 665.70 |
| 90.0 | 500.36 | 508.28 | 478.50 | 417.08 | 342.74 | 272.15 | 219.89 | 181.36 | 152.00 |
| 135.0 | 532.22 | 382.51 | 283.60 | 229.05 | 199.27 | 181.16 | 171.99 | 165.12 | 154.50 |
| 180.0 | 538.05 | 336.91 | 248.20 | 205.73 | 184.07 | 175.95 | 171.16 | 161.37 | 142.63 |
| 225.0 | 512.44 | 354.82 | 270.48 | 222.59 | 193.44 | 177.62 | 169.29 | 162.62 | 152.84 |
| 270.0 | 500.36 | 461.43 | 405.00 | 344.61 | 289.64 | 240.50 | 201.98 | 172.41 | 147.84 |
| 315.0 | 532.22 | 717.34 | 921.40 | 1079.02 | 1166.48 | 1172.93 | 1092.35 | 948.88 | 754.19 |
| 360.0 | 538.05 | 867.47 | 1241.65 | 1638.73 | 1990.21 | 2210.93 | 2247.79 | 2069.55 | 1718.69 |

| C/γ(°) | 45.0 | 50.0 | 55.0 | 60.0 | 65.0 | 70.0 | 75.0 | 80.0 | 85.0 |
|--------|---------|--------|--------|--------|-------|-------|-------|-------|------|
| 0.0 | 1275.17 | 833.52 | 361.69 | 143.68 | 70.38 | 32.28 | 14.37 | 7.29 | 2.50 |
| 45.0 | 432.28 | 253.62 | 138.05 | 79.75 | 49.14 | 27.90 | 13.95 | 7.91 | 3.96 |
| 90.0 | 129.72 | 109.94 | 77.04 | 58.30 | 39.56 | 24.78 | 14.78 | 8.54 | 2.92 |
| 135.0 | 138.89 | 117.65 | 84.96 | 58.72 | 43.10 | 29.98 | 19.16 | 9.58 | 3.75 |
| 180.0 | 115.36 | 94.12 | 78.08 | 64.55 | 51.22 | 37.27 | 23.11 | 11.24 | 3.54 |
| 225.0 | 137.22 | 116.40 | 83.50 | 60.39 | 46.02 | 32.69 | 21.45 | 11.04 | 4.16 |
| 270.0 | 126.39 | 98.28 | 76.84 | 56.85 | 38.52 | 22.28 | 13.74 | 7.29 | 2.92 |
| 315.0 | 515.98 | 308.17 | 158.46 | 88.70 | 54.14 | 29.36 | 12.91 | 6.87 | 2.71 |
| 360.0 | 1275.17 | 833.52 | 361.69 | 143.68 | 70.38 | 32.28 | 14.37 | 7.29 | 2.50 |

| C/γ(°) | 90.0 | 95.0 | 100.0 | 105.0 | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 |
|--------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 0.00 | 0.21 | 0.21 | 0.21 | 0.42 | 0.42 | 0.00 | 0.00 | 0.21 |
| 45.0 | 0.63 | 0.00 | 0.00 | 0.21 | 0.42 | 0.21 | 0.42 | 0.42 | 0.63 |
| 90.0 | 0.63 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135.0 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.21 |
| 180.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.42 | 0.83 | 1.04 |
| 225.0 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.42 | 0.83 |
| 270.0 | 0.83 | 0.83 | 0.21 | 0.21 | 0.63 | 1.25 | 0.83 | 0.42 | 0.42 |
| 315.0 | 0.00 | 0.21 | 0.00 | 0.21 | 0.21 | 0.00 | 0.42 | 0.42 | 0.42 |
| 360.0 | 0.00 | 0.21 | 0.21 | 0.21 | 0.42 | 0.42 | 0.00 | 0.00 | 0.21 |

| C/γ(°) | 135.0 | 140.0 | 145.0 | 150.0 | 155.0 | 160.0 | 165.0 | 170.0 | 175.0 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 0.21 | 0.42 | 0.42 | 0.63 | 0.42 | 0.42 | 0.42 | 0.83 | 1.04 |
| 45.0 | 0.21 | 0.42 | 0.42 | 0.63 | 0.83 | 0.83 | 0.83 | 1.04 | 1.25 |
| 90.0 | 0.00 | 0.21 | 0.21 | 0.42 | 0.63 | 0.42 | 0.42 | 0.42 | 0.63 |
| 135.0 | 0.42 | 0.83 | 0.83 | 0.83 | 1.04 | 1.04 | 0.83 | 1.04 | 1.04 |
| 180.0 | 1.25 | 1.67 | 1.87 | 1.87 | 1.87 | 1.87 | 1.46 | 1.67 | 1.46 |
| 225.0 | 1.04 | 1.04 | 1.67 | 1.87 | 2.08 | 2.29 | 1.87 | 1.87 | 1.67 |
| 270.0 | 1.04 | 0.83 | 0.83 | 1.04 | 1.25 | 0.63 | 1.46 | 1.67 | 1.46 |
| 315.0 | 0.21 | 0.21 | 0.42 | 0.00 | 0.63 | 0.42 | 0.42 | 0.63 | 0.63 |
| 360.0 | 0.21 | 0.42 | 0.42 | 0.63 | 0.42 | 0.42 | 0.42 | 0.83 | 1.04 |

| C/γ(°) | 180.0 |
|--------|-------|
| 0.0 | 1.46 |
| 45.0 | 1.46 |
| 90.0 | 1.25 |
| 135.0 | 0.83 |
| 180.0 | 1.46 |
| 225.0 | 1.46 |
| 270.0 | 1.25 |
| 315.0 | 0.83 |
| 360.0 | 1.46 |