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乐达凯

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Client:

LumCAT: SYDV2107LAJUDBK

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 119.990

LampCAT:

Current(A): 0.164

Lamp flux(lm): 1306.7

Power (W): 19.550

Number of Lamps: 1

PF: 0.991

Length(mm): 520

Width(mm): 110

Phm Type: C

Height(mm): 80

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Photometric Results

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Lumens(lm): 1306.72, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 66.84

Central intensity(cd): 115.916, Maximum intensity(cd): 141.215

Angle of maximum intensity: C=60.0  $\gamma$ =40.0

Beam Angle(50%Imax): [C0/180]Total=323.2

[C90/270]Total=293.7

Field angle(10%Imax): [C0/180]Total=N.A.

[C90/270]Total=N.A.

Maximum s/h(1/2): C0\_180=1.79 C90\_270=1.81

Maximum s/h(1/4): C0\_180=1.90 C90\_270=1.95

Up flux rate of lamp(%): 40.79%

Down flux rate of lamp(%): 59.21%

Up flux rate of LUM(%): 40.79%

Down flux rate of LUM(%): 59.21%

CIE Type : General diffuse lighting

Output flux ratio in  $\pi$  solid angle : 32.545%

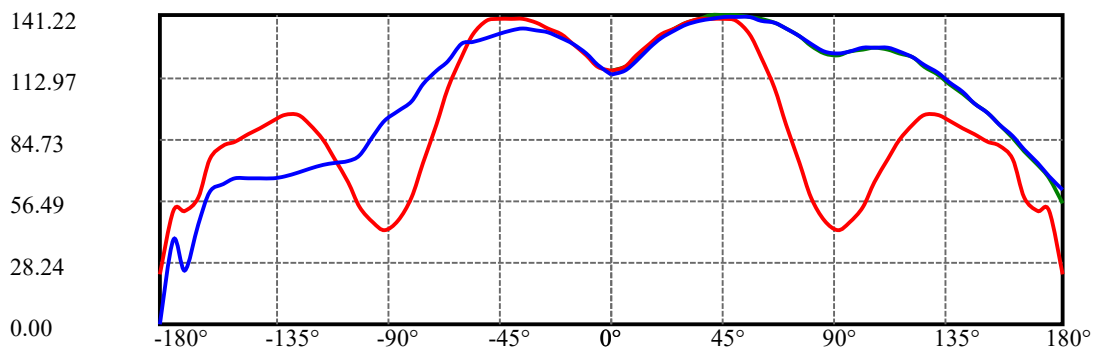
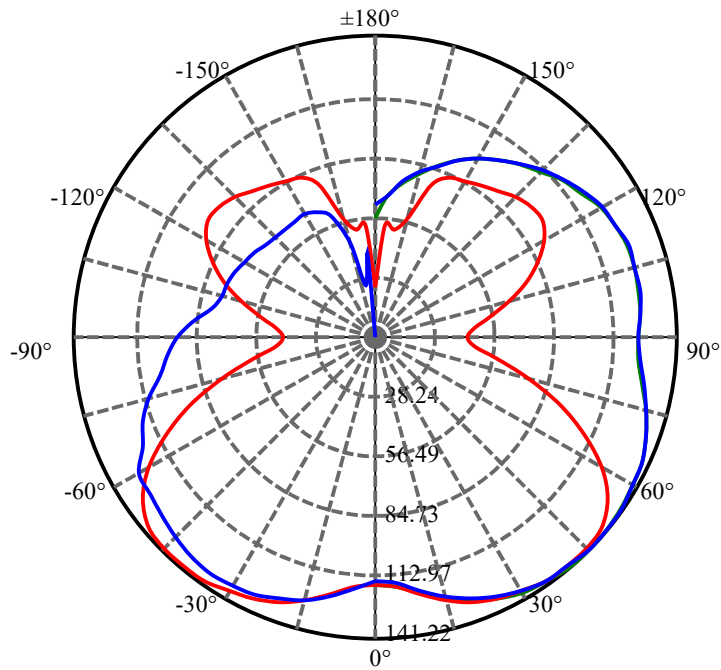
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0                | 115.380       | 0.000       | 0         | 0.00%       | 0.00%      |
| 5.0                | 117.794       | 2.788       | 2.788     | 0.21%       | 0.21%      |
| 10.0               | 122.816       | 8.607       | 11.395    | 0.66%       | 0.87%      |
| 15.0               | 127.646       | 14.857      | 26.252    | 1.14%       | 2.01%      |
| 20.0               | 131.517       | 21.359      | 47.611    | 1.63%       | 3.64%      |
| 25.0               | 134.814       | 27.933      | 75.544    | 2.14%       | 5.78%      |
| 30.0               | 136.922       | 34.388      | 109.932   | 2.63%       | 8.41%      |
| 35.0               | 138.302       | 40.529      | 150.461   | 3.10%       | 11.51%     |
| 40.0               | 138.839       | 46.239      | 196.7     | 3.54%       | 15.05%     |
| 45.0               | 138.532       | 51.357      | 248.057   | 3.93%       | 18.98%     |
| 50.0               | 137.842       | 55.845      | 303.903   | 4.27%       | 23.26%     |
| 55.0               | 135.734       | 59.485      | 363.387   | 4.55%       | 27.81%     |
| 60.0               | 131.977       | 61.881      | 425.268   | 4.74%       | 32.54%     |
| 65.0               | 126.496       | 62.835      | 488.103   | 4.81%       | 37.35%     |
| 70.0               | 119.788       | 62.361      | 550.464   | 4.77%       | 42.13%     |
| 75.0               | 111.546       | 60.467      | 610.931   | 4.63%       | 46.75%     |
| 80.0               | 103.113       | 57.437      | 668.368   | 4.40%       | 51.15%     |
| 85.0               | 95.983        | 54.099      | 722.467   | 4.14%       | 55.29%     |
| 90.0               | 91.307        | 51.282      | 773.749   | 3.92%       | 59.21%     |
| 95.0               | 88.279        | 49.172      | 822.921   | 3.76%       | 62.98%     |
| 100.0              | 87.474        | 47.756      | 870.677   | 3.65%       | 66.63%     |
| 105.0              | 87.320        | 46.770      | 917.447   | 3.58%       | 70.21%     |
| 110.0              | 87.972        | 45.819      | 963.266   | 3.51%       | 73.72%     |
| 115.0              | 88.470        | 44.676      | 1007.942  | 3.42%       | 77.14%     |
| 120.0              | 88.700        | 43.071      | 1051.013  | 3.30%       | 80.43%     |
| 125.0              | 88.432        | 40.944      | 1091.956  | 3.13%       | 83.56%     |
| 130.0              | 87.244        | 38.198      | 1130.154  | 2.92%       | 86.49%     |
| 135.0              | 85.251        | 34.855      | 1165.009  | 2.67%       | 89.16%     |
| 140.0              | 83.487        | 31.243      | 1196.252  | 2.39%       | 91.55%     |
| 145.0              | 81.762        | 27.571      | 1223.823  | 2.11%       | 93.66%     |
| 150.0              | 79.922        | 23.809      | 1247.632  | 1.82%       | 95.48%     |
| 155.0              | 77.431        | 19.913      | 1267.545  | 1.52%       | 97.00%     |
| 160.0              | 72.984        | 15.776      | 1283.321  | 1.21%       | 98.21%     |
| 165.0              | 63.746        | 11.269      | 1294.59   | 0.86%       | 99.07%     |
| 170.0              | 56.923        | 7.158       | 1301.748  | 0.55%       | 99.62%     |
| 175.0              | 54.470        | 3.985       | 1305.732  | 0.30%       | 99.92%     |
| 180.0              | 27.791        | 0.983       | 1306.716  | 0.08%       | 100.00%    |

## ZONAL LUMEN SUMMARY

| Zone     | Lumens  | %Lamp   | %Fixt   |
|----------|---------|---------|---------|
| 0-30     | 109.93  | 8.41%   | 8.41%   |
| 0-40     | 196.70  | 15.05%  | 15.05%  |
| 0-60     | 425.27  | 32.54%  | 32.54%  |
| 0-90     | 773.75  | 59.21%  | 59.21%  |
| 0-120    | 1051.01 | 80.43%  | 80.43%  |
| 0-180    | 1306.72 | 100.00% | 100.00% |
| 60-90    | 348.48  | 26.67%  | 26.67%  |
| 90-120   | 277.26  | 21.22%  | 21.22%  |
| 90-130   | 356.41  | 27.27%  | 27.27%  |
| 90-150   | 473.88  | 36.27%  | 36.27%  |
| 90-180   | 531.98  | 40.71%  | 40.71%  |
| 0-119.35 | 1045.37 | 80.00%  | 80.00%  |

## ZONAL LUMEN SUMMARY

|         |        |
|---------|--------|
| 0-10    | 11.39  |
| 10-20   | 36.22  |
| 20-30   | 62.32  |
| 30-40   | 86.77  |
| 40-50   | 107.20 |
| 50-60   | 121.37 |
| 60-70   | 125.20 |
| 70-80   | 117.90 |
| 80-90   | 105.38 |
| 90-100  | 96.93  |
| 100-110 | 92.59  |
| 110-120 | 87.75  |
| 120-130 | 79.14  |
| 130-140 | 66.10  |
| 140-150 | 51.38  |
| 150-160 | 35.69  |
| 160-170 | 18.43  |
| 170-180 | 3.98   |

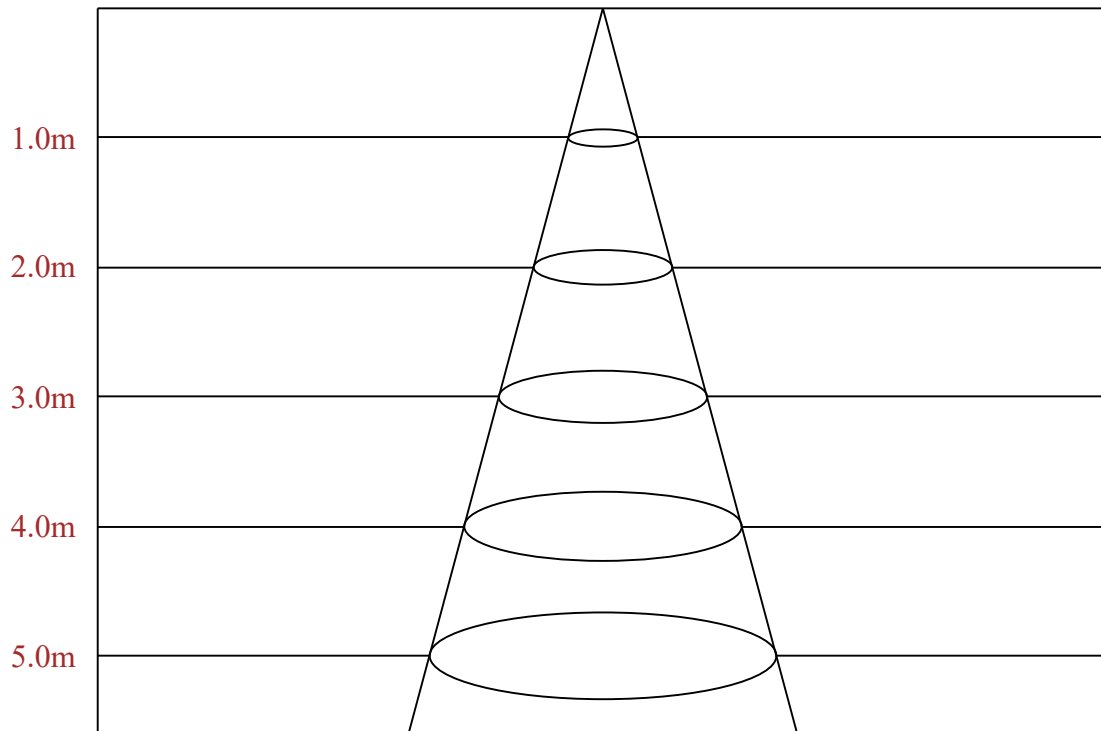
C60(Max): C0/C180: C90/C270: 

Field angle(10%Imax):C0/180Left:0.0 Right:0.0

:C90/270Left:0.0 Right:0.0

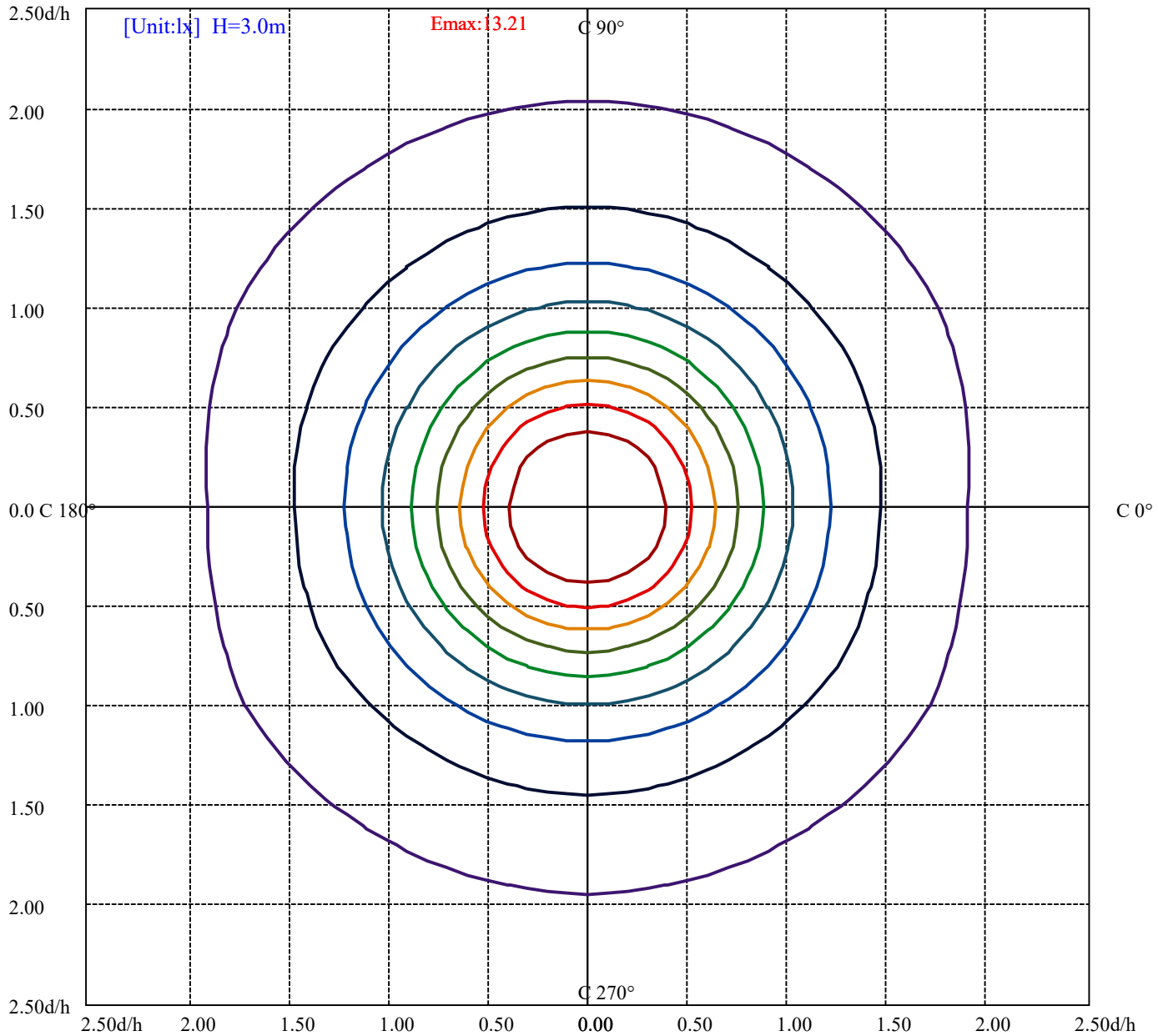
Beam Angle(50%Imax):C0/180Left:206.6 Right:116.6

:C90/270Left:176.3 Right:117.5

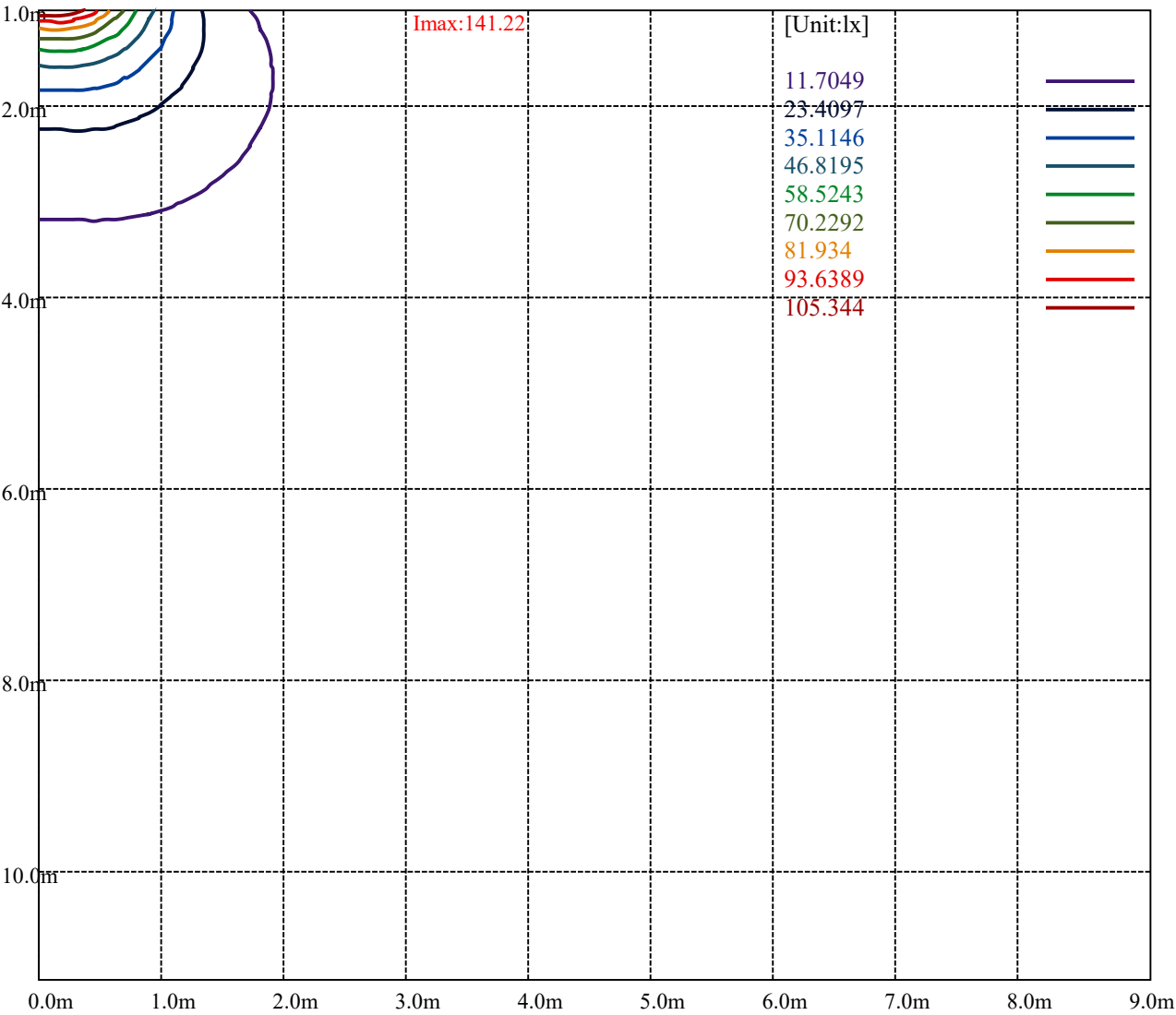


Max , Ave

Beam angle of C60 plane 284.88



|                    |   |
|--------------------|---|
| (10%Emax) 1.3213   | — |
| (20%Emax) 2.642611 | — |
| (30%Emax) 3.963911 | — |
| (40%Emax) 5.285223 | — |
| (50%Emax) 6.606522 | — |
| (60%Emax) 7.927834 | — |
| (70%Emax) 9.249134 | — |
| (80%Emax) 10.57043 | — |
| (90%Emax) 11.89178 | — |



Luminance Table

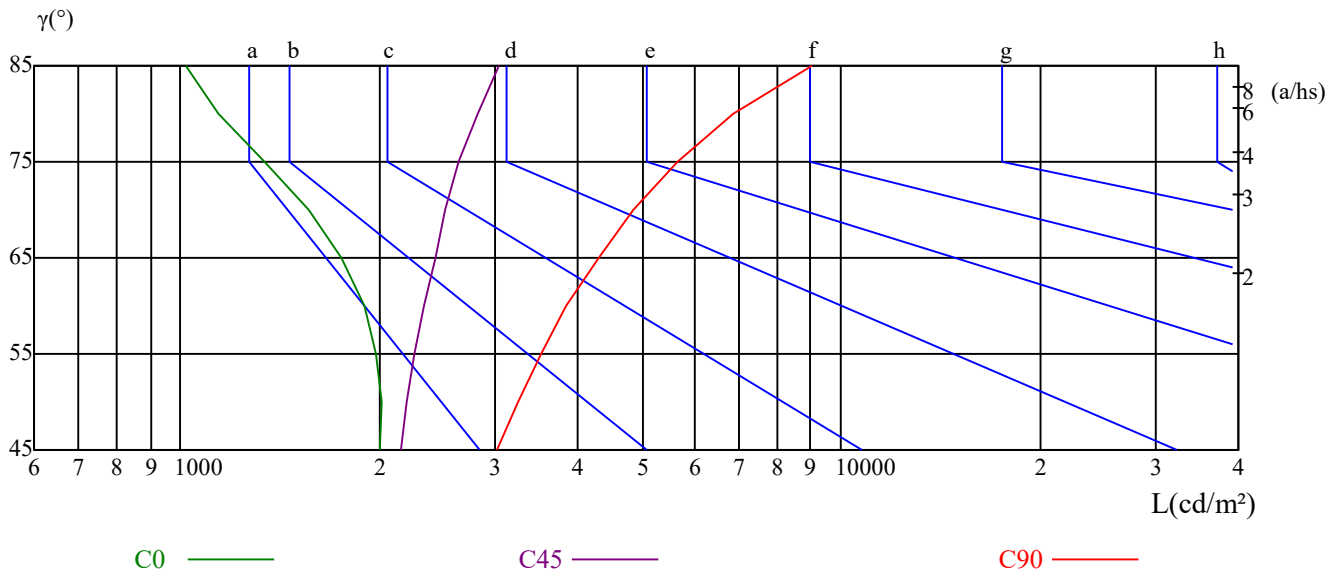
| $\gamma$ | 45   | 50   | 55   | 60   | 65   | 70   | 75   | 80   | 85   |
|----------|------|------|------|------|------|------|------|------|------|
| C0       | 2002 | 2017 | 1981 | 1893 | 1747 | 1561 | 1338 | 1139 | 1020 |
| C45      | 2151 | 2204 | 2263 | 2336 | 2435 | 2523 | 2644 | 2819 | 3033 |
| C90      | 3016 | 3235 | 3517 | 3835 | 4292 | 4859 | 5645 | 6875 | 9031 |

| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 4472       | 5347       | 5442    | 4971       | 8141       | 8109    | 9504       | 22237      | 21222   |

Glare Table

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

Luminance Limiting Curve



| RHOC | 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 RHOFC=20 CU |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0    | 1.09                                    | 1.09 | 1.09 | 1.02 | 1.02 | 1.02 | 0.88 | 0.88 | 0.88 | 0.76 | 0.76 | 0.76 | 0.65 | 0.65 | 0.65 | 0.59 |
| 1    | 0.90                                    | 0.84 | 0.79 | 0.83 | 0.79 | 0.74 | 0.72 | 0.68 | 0.64 | 0.61 | 0.58 | 0.55 | 0.51 | 0.49 | 0.47 | 0.42 |
| 2    | 0.76                                    | 0.68 | 0.61 | 0.71 | 0.64 | 0.58 | 0.60 | 0.55 | 0.50 | 0.51 | 0.47 | 0.43 | 0.42 | 0.39 | 0.36 | 0.32 |
| 3    | 0.65                                    | 0.56 | 0.49 | 0.61 | 0.53 | 0.46 | 0.52 | 0.45 | 0.40 | 0.44 | 0.39 | 0.34 | 0.36 | 0.32 | 0.29 | 0.25 |
| 4    | 0.57                                    | 0.48 | 0.40 | 0.53 | 0.45 | 0.38 | 0.45 | 0.38 | 0.33 | 0.38 | 0.33 | 0.28 | 0.31 | 0.27 | 0.24 | 0.20 |
| 5    | 0.50                                    | 0.41 | 0.34 | 0.47 | 0.38 | 0.32 | 0.40 | 0.33 | 0.28 | 0.34 | 0.28 | 0.24 | 0.28 | 0.23 | 0.20 | 0.17 |
| 6    | 0.45                                    | 0.35 | 0.29 | 0.42 | 0.33 | 0.27 | 0.36 | 0.29 | 0.24 | 0.30 | 0.25 | 0.20 | 0.25 | 0.20 | 0.17 | 0.14 |
| 7    | 0.40                                    | 0.31 | 0.25 | 0.37 | 0.29 | 0.23 | 0.32 | 0.25 | 0.20 | 0.27 | 0.22 | 0.18 | 0.23 | 0.18 | 0.15 | 0.12 |
| 8    | 0.36                                    | 0.28 | 0.22 | 0.34 | 0.26 | 0.20 | 0.29 | 0.23 | 0.18 | 0.25 | 0.19 | 0.15 | 0.21 | 0.16 | 0.13 | 0.10 |
| 9    | 0.33                                    | 0.25 | 0.19 | 0.31 | 0.23 | 0.18 | 0.27 | 0.20 | 0.16 | 0.23 | 0.17 | 0.14 | 0.19 | 0.15 | 0.11 | 0.09 |
| 10   | 0.30                                    | 0.22 | 0.17 | 0.28 | 0.21 | 0.16 | 0.24 | 0.18 | 0.14 | 0.21 | 0.16 | 0.12 | 0.17 | 0.13 | 0.10 | 0.08 |

## 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    | 115.92 | 115.00 | 121.44 | 127.88 | 133.40 | 138.00 | 141.68 | 145.36 | 147.20 |
| 15.0   | 116.84 | 115.92 | 121.44 | 127.88 | 133.40 | 138.00 | 141.68 | 145.36 | 147.20 |
| 30.0   | 115.92 | 115.92 | 121.44 | 126.96 | 132.48 | 138.00 | 141.68 | 144.44 | 147.20 |
| 45.0   | 116.84 | 115.92 | 122.36 | 127.88 | 133.40 | 138.00 | 141.68 | 144.44 | 146.28 |
| 60.0   | 116.84 | 116.84 | 121.44 | 127.88 | 132.48 | 137.08 | 140.76 | 143.52 | 145.36 |
| 75.0   | 115.00 | 115.92 | 120.52 | 126.04 | 131.56 | 135.24 | 138.92 | 140.76 | 143.52 |
| 90.0   | 114.08 | 115.92 | 120.52 | 126.04 | 130.64 | 134.32 | 137.08 | 138.92 | 139.84 |
| 105.0  | 114.08 | 115.92 | 121.44 | 125.12 | 129.72 | 132.48 | 135.24 | 137.08 | 138.00 |
| 120.0  | 115.00 | 117.76 | 121.44 | 126.04 | 130.64 | 133.40 | 135.24 | 136.16 | 137.08 |
| 135.0  | 115.92 | 117.76 | 122.36 | 126.04 | 129.72 | 132.48 | 134.32 | 135.24 | 135.24 |
| 150.0  | 114.08 | 116.84 | 121.44 | 126.04 | 130.64 | 131.56 | 132.48 | 133.40 | 133.40 |
| 165.0  | 114.08 | 117.76 | 121.44 | 126.04 | 128.80 | 130.64 | 132.48 | 132.48 | 132.48 |
| 180.0  | 115.92 | 120.52 | 124.20 | 127.88 | 130.64 | 132.48 | 133.40 | 133.40 | 132.48 |
| 195.0  | 116.84 | 120.52 | 125.12 | 128.80 | 130.64 | 132.48 | 133.40 | 133.40 | 132.48 |
| 210.0  | 115.92 | 120.52 | 125.12 | 128.80 | 130.64 | 132.48 | 133.40 | 133.40 | 132.48 |
| 225.0  | 116.84 | 120.52 | 125.12 | 128.80 | 131.56 | 133.40 | 133.40 | 133.40 | 132.48 |
| 240.0  | 116.84 | 121.44 | 125.12 | 128.80 | 131.56 | 133.40 | 134.32 | 134.32 | 133.40 |
| 255.0  | 115.00 | 119.60 | 124.20 | 127.88 | 130.64 | 133.40 | 134.32 | 133.40 | 132.48 |
| 270.0  | 114.08 | 118.68 | 123.28 | 127.88 | 130.64 | 133.40 | 134.32 | 135.24 | 134.32 |
| 285.0  | 114.08 | 117.76 | 123.28 | 127.88 | 131.56 | 134.32 | 135.24 | 136.16 | 136.16 |
| 300.0  | 115.00 | 118.68 | 124.20 | 128.80 | 129.72 | 136.16 | 138.00 | 138.92 | 139.84 |
| 315.0  | 115.92 | 117.76 | 124.20 | 129.72 | 134.32 | 138.00 | 139.84 | 141.68 | 142.60 |
| 330.0  | 114.08 | 116.84 | 123.28 | 128.80 | 133.40 | 138.00 | 140.76 | 143.52 | 144.44 |
| 345.0  | 114.08 | 116.84 | 123.28 | 129.72 | 134.32 | 138.92 | 142.60 | 145.36 | 146.28 |
| 360.0  | 115.92 | 115.00 | 121.44 | 127.88 | 133.40 | 138.00 | 141.68 | 145.36 | 147.20 |
| C/γ(°) | 45.0   | 50.0   | 55.0   | 60.0   | 65.0   | 70.0   | 75.0   | 80.0   | 85.0   |
| 0.0    | 148.12 | 148.12 | 144.44 | 135.24 | 120.52 | 103.04 | 84.64  | 68.08  | 54.28  |
| 15.0   | 149.04 | 149.04 | 148.12 | 140.76 | 130.64 | 120.52 | 107.64 | 96.60  | 86.48  |
| 30.0   | 148.12 | 149.04 | 149.04 | 148.12 | 146.28 | 141.68 | 136.16 | 130.64 | 124.20 |
| 45.0   | 148.12 | 148.12 | 148.12 | 147.20 | 146.28 | 143.52 | 139.84 | 137.08 | 132.48 |
| 60.0   | 146.28 | 146.28 | 146.28 | 145.36 | 144.44 | 142.60 | 138.92 | 134.32 | 130.64 |
| 75.0   | 143.52 | 143.52 | 143.52 | 142.60 | 141.68 | 138.92 | 136.16 | 131.56 | 127.88 |
| 90.0   | 140.76 | 140.76 | 140.76 | 138.92 | 138.00 | 135.24 | 131.56 | 127.88 | 124.20 |
| 105.0  | 138.00 | 138.00 | 137.08 | 136.16 | 134.32 | 131.56 | 127.88 | 124.20 | 120.52 |
| 120.0  | 136.16 | 136.16 | 134.32 | 133.40 | 130.64 | 127.88 | 124.20 | 119.60 | 116.84 |
| 135.0  | 134.32 | 134.32 | 132.48 | 130.64 | 128.80 | 124.20 | 120.52 | 116.84 | 113.16 |
| 150.0  | 132.48 | 131.56 | 130.64 | 127.88 | 123.28 | 118.68 | 113.16 | 106.72 | 102.12 |
| 165.0  | 131.56 | 130.64 | 126.96 | 119.60 | 110.40 | 99.36  | 89.24  | 77.28  | 69.92  |
| 180.0  | 131.56 | 128.80 | 120.52 | 109.48 | 95.68  | 80.04  | 62.56  | 47.84  | 40.48  |
| 195.0  | 131.56 | 129.72 | 125.12 | 116.84 | 107.64 | 96.60  | 83.72  | 71.76  | 63.48  |
| 210.0  | 130.64 | 129.72 | 127.88 | 124.20 | 117.76 | 111.32 | 100.28 | 90.16  | 80.04  |
| 225.0  | 130.64 | 129.72 | 126.96 | 123.28 | 117.76 | 111.32 | 102.12 | 92.00  | 82.80  |
| 240.0  | 131.56 | 129.72 | 126.04 | 123.28 | 117.76 | 111.32 | 103.04 | 94.76  | 88.32  |
| 255.0  | 131.56 | 129.72 | 126.96 | 123.28 | 118.68 | 113.16 | 105.80 | 99.36  | 92.92  |
| 270.0  | 132.48 | 130.64 | 128.80 | 127.88 | 120.52 | 115.92 | 109.48 | 102.12 | 97.52  |
| 285.0  | 135.24 | 133.40 | 131.56 | 127.88 | 124.20 | 117.76 | 111.32 | 103.04 | 96.60  |
| 300.0  | 138.92 | 138.00 | 135.24 | 132.48 | 126.96 | 120.52 | 113.16 | 103.96 | 95.68  |
| 315.0  | 142.60 | 141.68 | 139.84 | 138.00 | 133.40 | 126.96 | 117.76 | 106.72 | 94.76  |
| 330.0  | 145.36 | 145.36 | 144.44 | 141.68 | 137.08 | 130.64 | 119.60 | 107.64 | 94.76  |
| 345.0  | 146.28 | 146.28 | 142.60 | 133.40 | 123.28 | 112.24 | 98.44  | 84.64  | 73.60  |
| 360.0  | 148.12 | 148.12 | 144.44 | 135.24 | 120.52 | 103.04 | 84.64  | 68.08  | 54.28  |

## 乐达凯 SYDV2107LAJUDBK

| Intensity data(cd) |        |        |        |        |        |        |        |        |        | Appendix Page: 11 Total:12 |  |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------------|--|
| C/γ(°)             | 90.0   | 95.0   | 100.0  | 105.0  | 110.0  | 115.0  | 120.0  | 125.0  | 130.0  |                            |  |
| 0.0                | 46.92  | 49.68  | 55.20  | 67.16  | 79.12  | 90.16  | 97.52  | 103.04 | 104.88 |                            |  |
| 15.0               | 81.88  | 84.64  | 89.24  | 94.76  | 101.20 | 105.80 | 110.40 | 112.24 | 112.24 |                            |  |
| 30.0               | 120.52 | 122.36 | 125.12 | 127.88 | 129.72 | 128.80 | 127.88 | 125.12 | 120.52 |                            |  |
| 45.0               | 130.64 | 131.56 | 132.48 | 133.40 | 133.40 | 131.56 | 128.80 | 125.12 | 121.44 |                            |  |
| 60.0               | 128.80 | 130.64 | 131.56 | 132.48 | 131.56 | 129.72 | 127.88 | 123.28 | 119.60 |                            |  |
| 75.0               | 126.96 | 127.88 | 128.80 | 128.80 | 128.80 | 127.88 | 125.12 | 121.44 | 117.76 |                            |  |
| 90.0               | 123.28 | 124.20 | 126.04 | 126.04 | 126.04 | 124.20 | 122.36 | 118.68 | 115.00 |                            |  |
| 105.0              | 119.60 | 121.44 | 122.36 | 122.36 | 122.36 | 121.44 | 118.68 | 115.92 | 112.24 |                            |  |
| 120.0              | 116.84 | 117.76 | 119.60 | 119.60 | 118.68 | 117.76 | 115.92 | 112.24 | 108.56 |                            |  |
| 135.0              | 113.16 | 115.00 | 115.92 | 116.84 | 115.92 | 115.00 | 111.32 | 108.56 | 104.88 |                            |  |
| 150.0              | 101.20 | 103.04 | 106.72 | 108.56 | 109.48 | 108.56 | 107.64 | 105.80 | 102.12 |                            |  |
| 165.0              | 67.16  | 69.92  | 73.60  | 78.20  | 82.80  | 87.40  | 90.16  | 92.92  | 92.92  |                            |  |
| 180.0              | 38.64  | 44.16  | 52.44  | 62.56  | 71.76  | 79.12  | 84.64  | 87.40  | 86.48  |                            |  |
| 195.0              | 57.04  | 51.52  | 52.44  | 54.28  | 59.80  | 64.40  | 69.92  | 74.52  | 75.44  |                            |  |
| 210.0              | 69.92  | 58.88  | 54.28  | 51.52  | 48.76  | 48.76  | 48.76  | 50.60  | 53.36  |                            |  |
| 225.0              | 73.60  | 61.64  | 53.36  | 47.84  | 43.24  | 41.40  | 40.48  | 41.40  | 43.24  |                            |  |
| 240.0              | 81.88  | 73.60  | 71.76  | 59.80  | 56.12  | 52.44  | 52.44  | 52.44  | 52.44  |                            |  |
| 255.0              | 88.32  | 80.96  | 74.52  | 69.00  | 67.16  | 64.40  | 62.56  | 61.64  | 60.72  |                            |  |
| 270.0              | 92.92  | 85.56  | 77.28  | 74.52  | 73.60  | 72.68  | 70.84  | 69.00  | 67.16  |                            |  |
| 285.0              | 91.08  | 82.80  | 75.44  | 69.92  | 67.16  | 64.40  | 62.56  | 61.64  | 60.72  |                            |  |
| 300.0              | 88.32  | 78.20  | 69.92  | 63.48  | 58.88  | 56.12  | 55.20  | 55.20  | 55.20  |                            |  |
| 315.0              | 82.80  | 69.92  | 61.64  | 56.12  | 51.52  | 49.68  | 48.76  | 47.84  | 49.68  |                            |  |
| 330.0              | 82.80  | 70.84  | 66.24  | 63.48  | 61.64  | 61.64  | 63.48  | 65.32  | 66.24  |                            |  |
| 345.0              | 67.16  | 62.56  | 63.48  | 67.16  | 72.68  | 80.04  | 85.56  | 91.08  | 91.08  |                            |  |
| 360.0              | 46.92  | 49.68  | 55.20  | 67.16  | 79.12  | 90.16  | 97.52  | 103.04 | 104.88 |                            |  |
| C/γ(°)             | 135.0  | 140.0  | 145.0  | 150.0  | 155.0  | 160.0  | 165.0  | 170.0  | 175.0  |                            |  |
| 0.0                | 102.12 | 97.52  | 93.84  | 90.16  | 87.40  | 83.72  | 68.08  | 52.44  | 54.28  |                            |  |
| 15.0               | 107.64 | 103.04 | 99.36  | 94.76  | 91.08  | 87.40  | 77.28  | 55.20  | 55.20  |                            |  |
| 30.0               | 115.00 | 109.48 | 104.88 | 99.36  | 93.84  | 88.32  | 82.80  | 68.08  | 49.68  |                            |  |
| 45.0               | 116.84 | 111.32 | 106.72 | 101.20 | 94.76  | 89.24  | 82.80  | 75.44  | 57.96  |                            |  |
| 60.0               | 115.00 | 110.40 | 105.80 | 100.28 | 94.76  | 88.32  | 81.88  | 75.44  | 67.16  |                            |  |
| 75.0               | 112.24 | 107.64 | 103.04 | 98.44  | 92.92  | 87.40  | 80.96  | 74.52  | 68.08  |                            |  |
| 90.0               | 110.40 | 105.80 | 101.20 | 96.60  | 91.08  | 85.56  | 80.04  | 73.60  | 67.16  |                            |  |
| 105.0              | 107.64 | 103.04 | 98.44  | 94.76  | 89.24  | 83.72  | 78.20  | 72.68  | 66.24  |                            |  |
| 120.0              | 103.96 | 100.28 | 96.60  | 92.00  | 87.40  | 81.88  | 76.36  | 70.84  | 65.32  |                            |  |
| 135.0              | 101.20 | 97.52  | 93.84  | 89.24  | 84.64  | 80.04  | 74.52  | 69.00  | 63.48  |                            |  |
| 150.0              | 97.52  | 93.84  | 90.16  | 86.48  | 81.88  | 77.28  | 72.68  | 67.16  | 62.56  |                            |  |
| 165.0              | 89.24  | 86.48  | 83.72  | 81.88  | 79.12  | 75.44  | 70.84  | 66.24  | 61.64  |                            |  |
| 180.0              | 83.72  | 80.96  | 79.12  | 77.28  | 76.36  | 71.76  | 67.16  | 62.56  | 58.88  |                            |  |
| 195.0              | 74.52  | 73.60  | 70.84  | 69.92  | 68.08  | 65.32  | 62.56  | 59.80  | 56.12  |                            |  |
| 210.0              | 56.12  | 56.12  | 56.12  | 55.20  | 57.04  | 50.60  | 46.92  | 46.00  | 39.56  |                            |  |
| 225.0              | 46.92  | 51.52  | 56.12  | 59.80  | 59.80  | 58.88  | 52.44  | 46.00  | 42.32  |                            |  |
| 240.0              | 54.28  | 57.04  | 60.72  | 63.48  | 64.40  | 62.56  | 56.12  | 45.08  | 36.80  |                            |  |
| 255.0              | 59.80  | 60.72  | 60.72  | 61.64  | 61.64  | 60.72  | 52.44  | 35.88  | 30.36  |                            |  |
| 270.0              | 66.24  | 66.24  | 66.24  | 66.24  | 64.40  | 60.72  | 46.00  | 24.84  | 38.64  |                            |  |
| 285.0              | 60.72  | 61.64  | 62.56  | 64.40  | 64.40  | 60.72  | 44.16  | 33.12  | 50.60  |                            |  |
| 300.0              | 57.04  | 59.80  | 63.48  | 67.16  | 69.00  | 62.56  | 42.32  | 43.24  | 54.28  |                            |  |
| 315.0              | 52.44  | 56.12  | 60.72  | 63.48  | 64.40  | 58.88  | 47.84  | 50.60  | 57.04  |                            |  |
| 330.0              | 66.24  | 67.16  | 64.40  | 63.48  | 63.48  | 59.80  | 54.28  | 57.04  | 61.64  |                            |  |
| 345.0              | 89.24  | 86.48  | 83.72  | 80.96  | 77.28  | 75.44  | 66.24  | 64.40  | 64.40  |                            |  |
| 360.0              | 102.12 | 97.52  | 93.84  | 90.16  | 87.40  | 83.72  | 68.08  | 52.44  | 54.28  |                            |  |

## Intensity data(cd)

|                 |       |
|-----------------|-------|
| C/ $\gamma$ (°) | 180.0 |
| 0.0             | 46.00 |
| 15.0            | 49.68 |
| 30.0            | 51.52 |
| 45.0            | 46.00 |
| 60.0            | 50.60 |
| 75.0            | 58.88 |
| 90.0            | 61.64 |
| 105.0           | 61.64 |
| 120.0           | 60.72 |
| 135.0           | 60.72 |
| 150.0           | 59.80 |
| 165.0           | 59.80 |
| 180.0           | 0.00  |
| 195.0           | 0.00  |
| 210.0           | 0.00  |
| 225.0           | 0.00  |
| 240.0           | 0.00  |
| 255.0           | 0.00  |
| 270.0           | 0.00  |
| 285.0           | 0.00  |
| 300.0           | 0.00  |
| 315.0           | 0.00  |
| 330.0           | 0.00  |
| 345.0           | 0.00  |
| 360.0           | 46.00 |