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弗格斯莱

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Client:

LumCAT: KNOF18LAJUDLB

Luminaire: LED LAMP

Report No:

Ballast type:

Test No:

Voltage(V): 120.030

LampCAT:

Current(A): 0.287

Lamp flux(lm): 1623.0

Power (W): 34.210

Number of Lamps: 1

PF: 0.994

Length(mm): 400

Width(mm): 400

Phm Type: C

Height(mm): 90

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Photometric Results

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Lumens(lm): 1623.04, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 47.44

Central intensity(cd): 1.821, Maximum intensity(cd): 205.821

Angle of maximum intensity: C=30.0  $\gamma$ =105.0

Beam Angle(50%Imax): [C0/180]Total=288.9

[C90/270]Total=282.6

Field angle(10%Imax): [C0/180]Total=336.2

[C90/270]Total=333.8

Maximum s/h(1/2): C0\_180=11.19 C90\_270=155.04

Maximum s/h(1/4): C0\_180=11.03 C90\_270=113.01

Up flux rate of lamp(%): 50.55%

Down flux rate of lamp(%): 49.45%

Up flux rate of LUM(%): 50.55%

Down flux rate of LUM(%): 49.45%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 17.412%

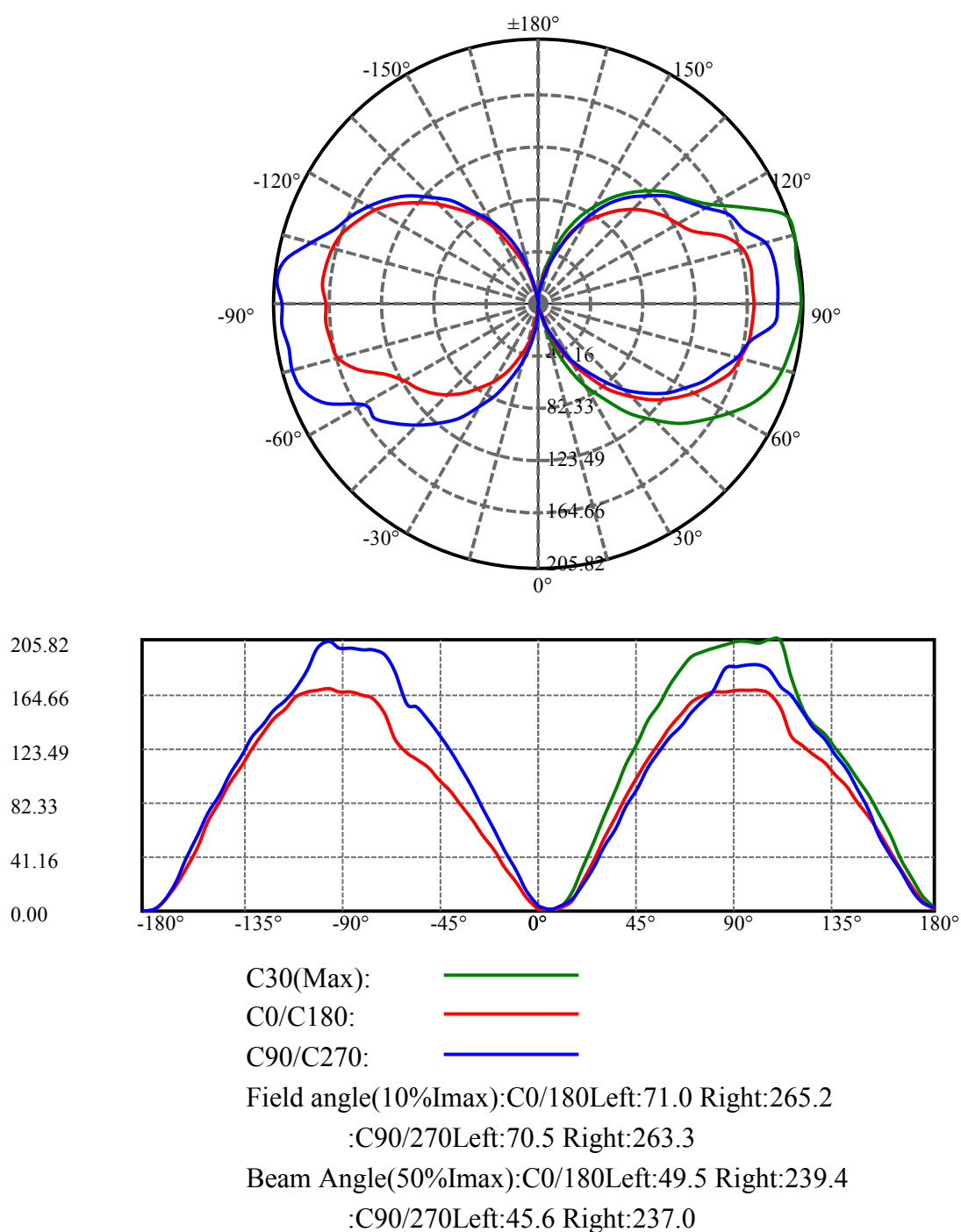
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0                | 2.277         | 0.000       | 0         | 0.00%       | 0.00%      |
| 5.0                | 5.654         | 0.095       | 0.095     | 0.01%       | 0.01%      |
| 10.0               | 13.243        | 0.676       | 0.771     | 0.04%       | 0.05%      |
| 15.0               | 24.058        | 2.213       | 2.984     | 0.14%       | 0.18%      |
| 20.0               | 37.643        | 5.085       | 8.069     | 0.31%       | 0.50%      |
| 25.0               | 52.328        | 9.436       | 17.505    | 0.58%       | 1.08%      |
| 30.0               | 66.937        | 15.093      | 32.598    | 0.93%       | 2.01%      |
| 35.0               | 81.091        | 21.798      | 54.396    | 1.34%       | 3.35%      |
| 40.0               | 94.372        | 29.275      | 83.671    | 1.80%       | 5.16%      |
| 45.0               | 107.312       | 37.344      | 121.015   | 2.30%       | 7.46%      |
| 50.0               | 118.962       | 45.722      | 166.736   | 2.82%       | 10.27%     |
| 55.0               | 129.093       | 53.935      | 220.672   | 3.32%       | 13.60%     |
| 60.0               | 138.808       | 61.925      | 282.596   | 3.82%       | 17.41%     |
| 65.0               | 149.888       | 70.182      | 352.779   | 4.32%       | 21.74%     |
| 70.0               | 159.564       | 78.355      | 431.134   | 4.83%       | 26.56%     |
| 75.0               | 168.444       | 85.736      | 516.87    | 5.28%       | 31.85%     |
| 80.0               | 174.933       | 91.878      | 608.748   | 5.66%       | 37.51%     |
| 85.0               | 178.234       | 95.964      | 704.712   | 5.91%       | 43.42%     |
| 90.0               | 179.069       | 97.832      | 802.544   | 6.03%       | 49.45%     |
| 95.0               | 178.044       | 97.780      | 900.324   | 6.02%       | 55.47%     |
| 100.0              | 176.071       | 96.222      | 996.546   | 5.93%       | 61.40%     |
| 105.0              | 170.910       | 92.842      | 1089.388  | 5.72%       | 67.12%     |
| 110.0              | 162.979       | 87.273      | 1176.662  | 5.38%       | 72.50%     |
| 115.0              | 152.203       | 79.806      | 1256.468  | 4.92%       | 77.41%     |
| 120.0              | 142.413       | 71.622      | 1328.09   | 4.41%       | 81.83%     |
| 125.0              | 132.584       | 63.565      | 1391.654  | 3.92%       | 85.74%     |
| 130.0              | 122.718       | 55.511      | 1447.166  | 3.42%       | 89.16%     |
| 135.0              | 111.638       | 47.355      | 1494.521  | 2.92%       | 92.08%     |
| 140.0              | 99.609        | 39.114      | 1533.635  | 2.41%       | 94.49%     |
| 145.0              | 85.759        | 30.927      | 1564.562  | 1.91%       | 96.40%     |
| 150.0              | 71.832        | 23.206      | 1587.769  | 1.43%       | 97.83%     |
| 155.0              | 56.692        | 16.265      | 1604.033  | 1.00%       | 98.83%     |
| 160.0              | 41.589        | 10.308      | 1614.341  | 0.64%       | 99.46%     |
| 165.0              | 25.993        | 5.570       | 1619.911  | 0.34%       | 99.81%     |
| 170.0              | 13.775        | 2.359       | 1622.27   | 0.15%       | 99.95%     |
| 175.0              | 5.540         | 0.691       | 1622.961  | 0.04%       | 99.99%     |
| 180.0              | 1.404         | 0.083       | 1623.044  | 0.01%       | 100.00%    |

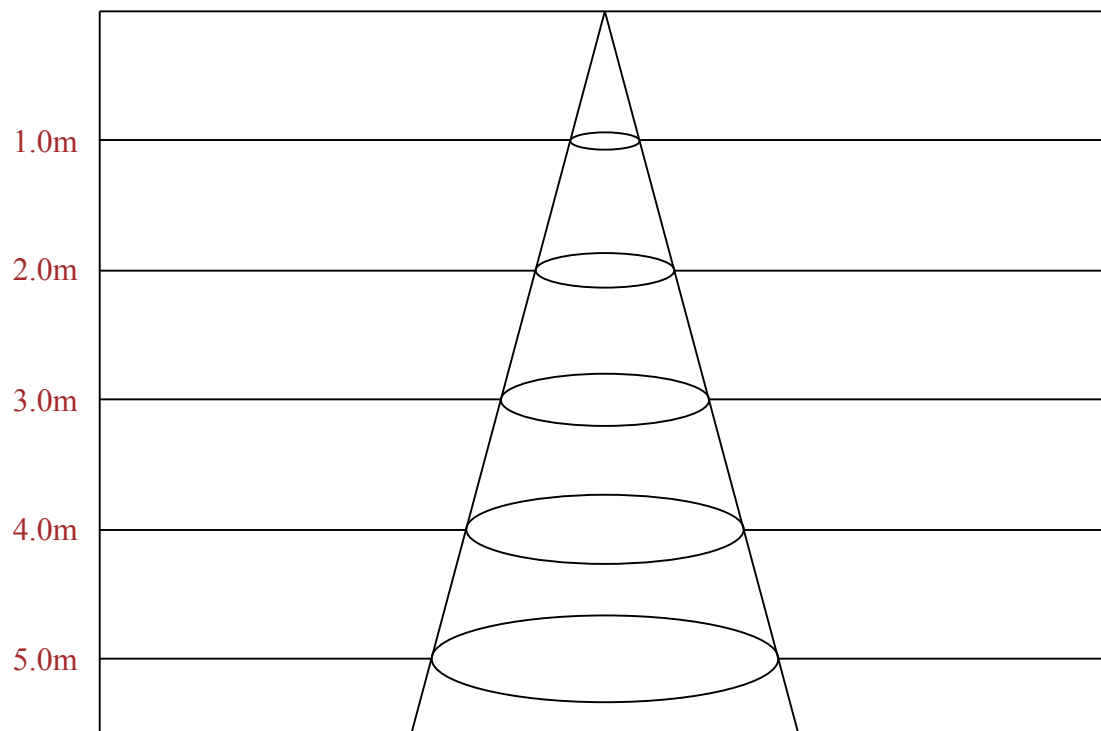
## ZONAL LUMEN SUMMARY

| Zone     | Lumens  | %Lamp   | %Fixt   |
|----------|---------|---------|---------|
| 0-30     | 32.60   | 2.01%   | 2.01%   |
| 0-40     | 83.67   | 5.16%   | 5.16%   |
| 0-60     | 282.60  | 17.41%  | 17.41%  |
| 0-90     | 802.54  | 49.45%  | 49.45%  |
| 0-120    | 1328.09 | 81.83%  | 81.83%  |
| 0-180    | 1623.04 | 100.00% | 100.00% |
| 60-90    | 519.95  | 32.04%  | 32.04%  |
| 90-120   | 525.55  | 32.38%  | 32.38%  |
| 90-130   | 644.62  | 39.72%  | 39.72%  |
| 90-150   | 785.22  | 48.38%  | 48.38%  |
| 90-180   | 820.42  | 50.55%  | 50.55%  |
| 0-117.93 | 1298.44 | 80.00%  | 80.00%  |

## ZONAL LUMEN SUMMARY

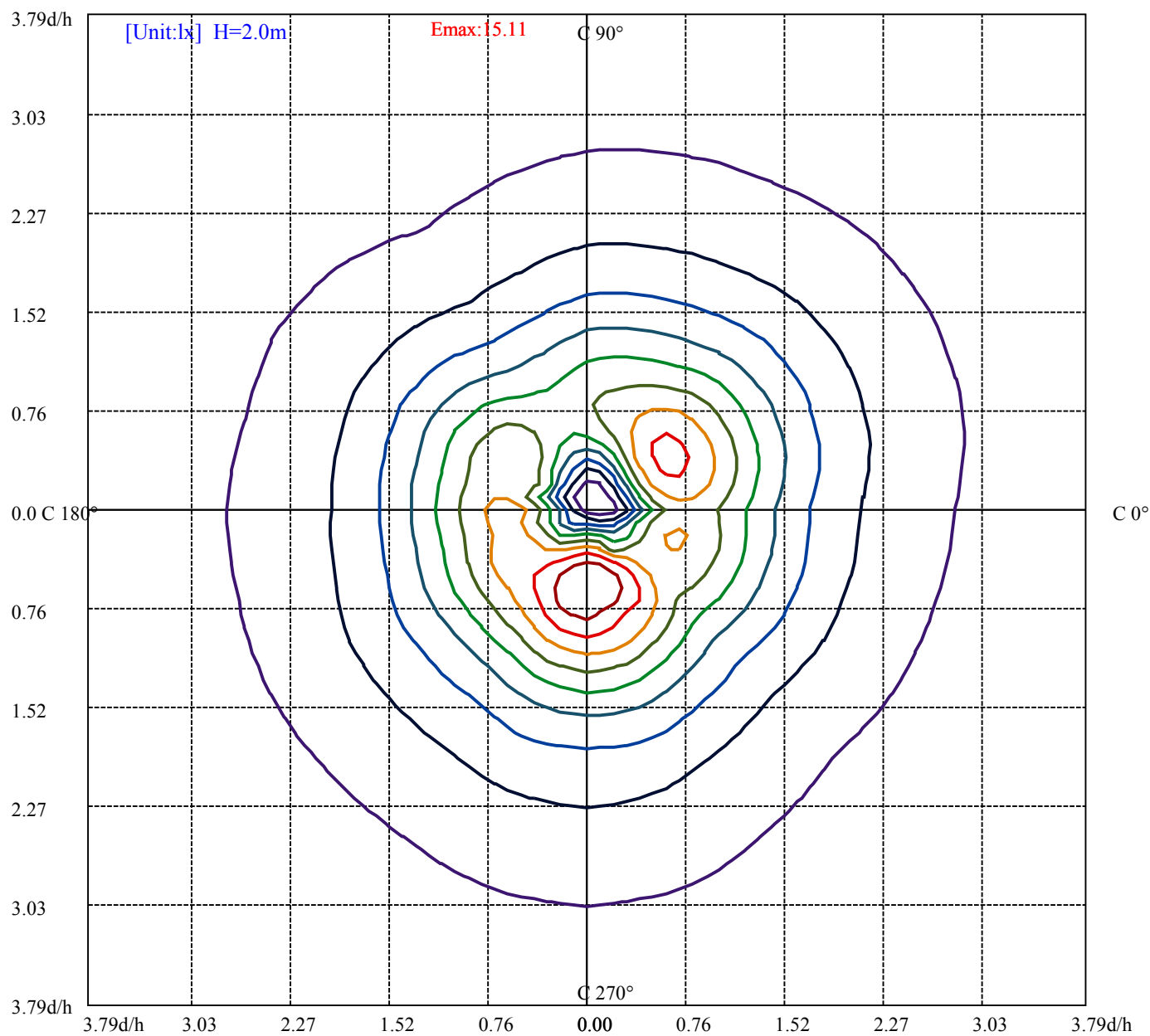
|         |        |
|---------|--------|
| 0-10    | 0.77   |
| 10-20   | 7.30   |
| 20-30   | 24.53  |
| 30-40   | 51.07  |
| 40-50   | 83.07  |
| 50-60   | 115.86 |
| 60-70   | 148.54 |
| 70-80   | 177.61 |
| 80-90   | 193.80 |
| 90-100  | 194.00 |
| 100-110 | 180.12 |
| 110-120 | 151.43 |
| 120-130 | 119.08 |
| 130-140 | 86.47  |
| 140-150 | 54.13  |
| 150-160 | 26.57  |
| 160-170 | 7.93   |
| 170-180 | 0.69   |



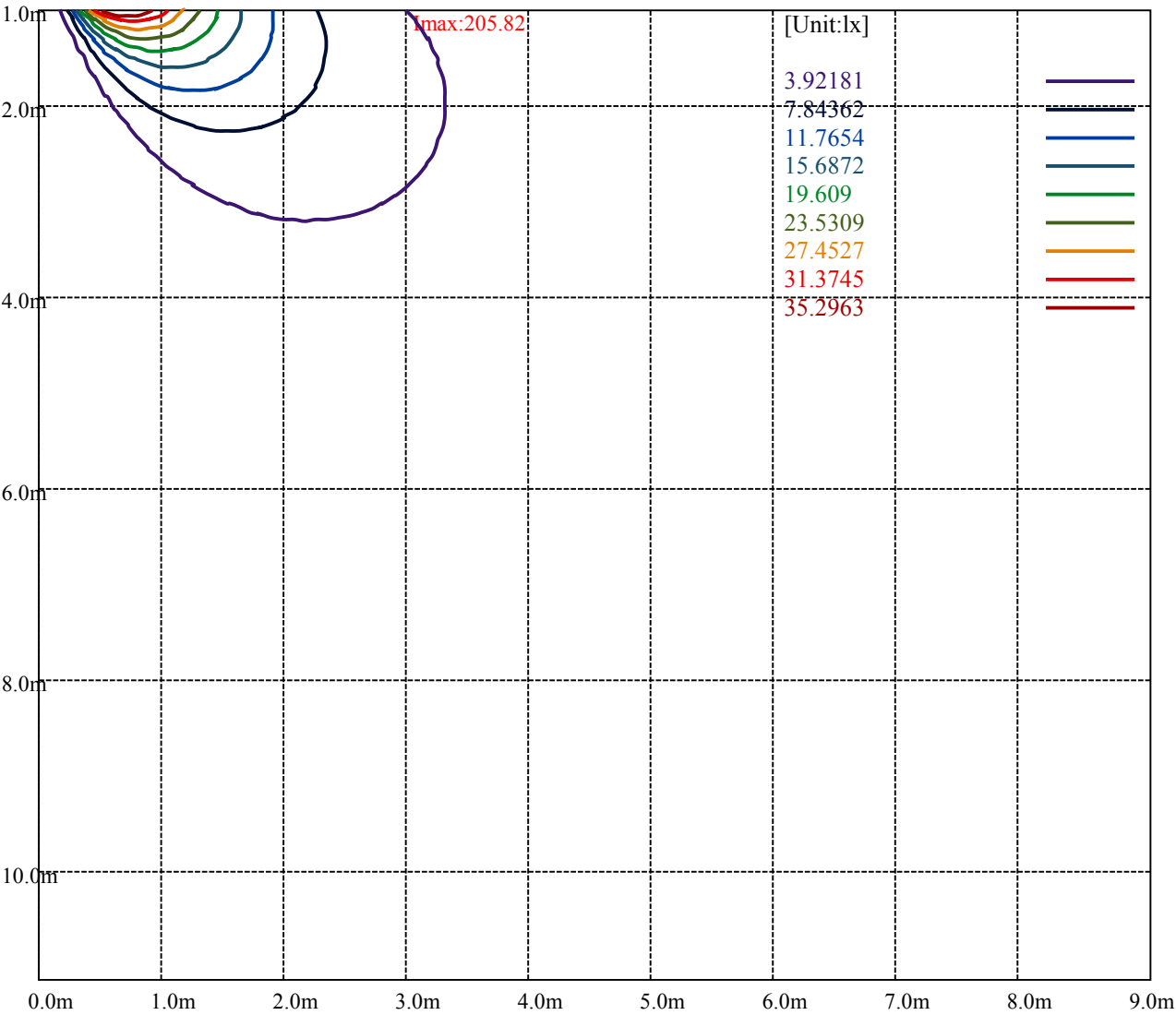


Max , Ave

Beam angle of C30 plane 348.89



|           |          |   |
|-----------|----------|---|
| (10%Emax) | 1.511282 | — |
| (20%Emax) | 3.022575 | — |
| (30%Emax) | 4.53385  | — |
| (40%Emax) | 6.045125 | — |
| (50%Emax) | 7.556425 | — |
| (60%Emax) | 9.0677   | — |
| (70%Emax) | 10.57897 | — |
| (80%Emax) | 12.09027 | — |
| (90%Emax) | 13.60155 | — |



Luminance Table

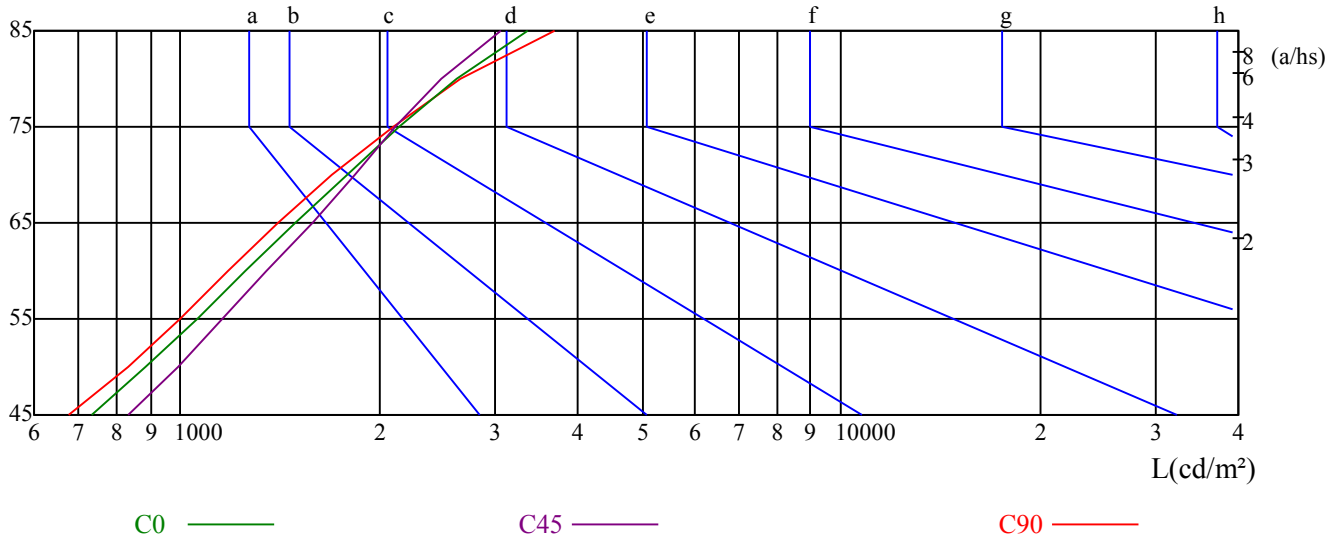
| $\gamma$ | 45  | 50  | 55   | 60   | 65   | 70   | 75   | 80   | 85   |
|----------|-----|-----|------|------|------|------|------|------|------|
| C0       | 736 | 887 | 1059 | 1253 | 1490 | 1789 | 2140 | 2621 | 3346 |
| C45      | 830 | 989 | 1160 | 1350 | 1585 | 1838 | 2111 | 2489 | 3056 |
| C90      | 677 | 831 | 999  | 1180 | 1408 | 1697 | 2104 | 2650 | 3693 |

| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 2067       | 2391       | 2199    | 3915       | 4332       | 4030    | 11919      | 13747      | 12751   |

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

 $\gamma(^{\circ})$ 



| RHOCC | 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     | 1.07                                    | 1.07 | 1.07 | 0.99 | 0.99 | 0.99 | 0.83 | 0.83 | 0.83 | 0.69 | 0.69 | 0.69 | 0.56 | 0.56 | 0.56 | 0.49 |
| 1     | 0.85                                    | 0.78 | 0.73 | 0.77 | 0.72 | 0.67 | 0.64 | 0.59 | 0.55 | 0.51 | 0.48 | 0.45 | 0.39 | 0.37 | 0.35 | 0.29 |
| 2     | 0.71                                    | 0.62 | 0.55 | 0.64 | 0.57 | 0.50 | 0.52 | 0.46 | 0.41 | 0.41 | 0.37 | 0.33 | 0.31 | 0.28 | 0.25 | 0.20 |
| 3     | 0.60                                    | 0.50 | 0.43 | 0.55 | 0.46 | 0.39 | 0.44 | 0.38 | 0.32 | 0.35 | 0.30 | 0.25 | 0.26 | 0.22 | 0.19 | 0.14 |
| 4     | 0.52                                    | 0.42 | 0.35 | 0.47 | 0.38 | 0.32 | 0.38 | 0.31 | 0.26 | 0.30 | 0.24 | 0.20 | 0.22 | 0.18 | 0.14 | 0.10 |
| 5     | 0.45                                    | 0.36 | 0.28 | 0.41 | 0.33 | 0.26 | 0.33 | 0.26 | 0.21 | 0.26 | 0.21 | 0.16 | 0.19 | 0.15 | 0.12 | 0.08 |
| 6     | 0.40                                    | 0.31 | 0.24 | 0.37 | 0.28 | 0.22 | 0.30 | 0.23 | 0.18 | 0.23 | 0.18 | 0.13 | 0.17 | 0.13 | 0.09 | 0.06 |
| 7     | 0.36                                    | 0.27 | 0.20 | 0.33 | 0.24 | 0.18 | 0.26 | 0.20 | 0.15 | 0.21 | 0.15 | 0.11 | 0.15 | 0.11 | 0.08 | 0.05 |
| 8     | 0.32                                    | 0.23 | 0.17 | 0.29 | 0.21 | 0.16 | 0.24 | 0.17 | 0.13 | 0.19 | 0.14 | 0.10 | 0.14 | 0.10 | 0.07 | 0.04 |
| 9     | 0.29                                    | 0.21 | 0.15 | 0.27 | 0.19 | 0.14 | 0.22 | 0.15 | 0.11 | 0.17 | 0.12 | 0.08 | 0.13 | 0.09 | 0.06 | 0.03 |
| 10    | 0.27                                    | 0.19 | 0.13 | 0.24 | 0.17 | 0.12 | 0.20 | 0.14 | 0.10 | 0.16 | 0.11 | 0.07 | 0.12 | 0.08 | 0.05 | 0.03 |

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| Intensity data(cd) |        |        |        |        |        |        |        |        |        | Appendix Page: 10 Total:12 |  |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------------|--|
| C/γ(°)             | 0.0    | 5.0    | 10.0   | 15.0   | 20.0   | 25.0   | 30.0   | 35.0   | 40.0   |                            |  |
| 0.0                | 1.82   | 0.91   | 2.73   | 8.20   | 21.86  | 38.25  | 54.64  | 71.04  | 86.52  |                            |  |
| 15.0               | 1.82   | 0.91   | 2.73   | 11.84  | 29.14  | 48.27  | 67.39  | 85.61  | 102.91 |                            |  |
| 30.0               | 1.82   | 0.91   | 2.73   | 13.66  | 31.87  | 52.82  | 71.95  | 91.98  | 111.11 |                            |  |
| 45.0               | 2.73   | 0.91   | 2.73   | 12.75  | 30.96  | 50.09  | 70.12  | 88.34  | 107.46 |                            |  |
| 60.0               | 2.73   | 0.91   | 2.73   | 10.02  | 25.50  | 41.89  | 60.11  | 77.41  | 94.71  |                            |  |
| 75.0               | 3.64   | 0.91   | 2.73   | 8.20   | 20.04  | 35.52  | 52.82  | 68.30  | 85.61  |                            |  |
| 90.0               | 3.64   | 0.91   | 3.64   | 9.11   | 19.12  | 32.79  | 48.27  | 62.84  | 79.23  |                            |  |
| 105.0              | 2.73   | 0.91   | 5.46   | 13.66  | 23.68  | 33.70  | 44.62  | 57.37  | 70.12  |                            |  |
| 120.0              | 2.73   | 0.91   | 8.20   | 18.21  | 29.14  | 40.98  | 52.82  | 63.75  | 74.68  |                            |  |
| 135.0              | 0.91   | 1.82   | 9.11   | 20.95  | 33.70  | 47.36  | 61.02  | 72.86  | 85.61  |                            |  |
| 150.0              | 1.82   | 0.91   | 10.02  | 21.86  | 46.45  | 50.09  | 63.75  | 76.50  | 89.25  |                            |  |
| 165.0              | 0.91   | 1.82   | 9.11   | 21.86  | 33.70  | 47.36  | 60.11  | 73.77  | 87.43  |                            |  |
| 180.0              | 1.82   | 10.02  | 21.86  | 32.79  | 45.54  | 57.37  | 69.21  | 80.14  | 90.16  |                            |  |
| 195.0              | 1.82   | 8.20   | 19.12  | 30.05  | 41.89  | 54.64  | 66.48  | 78.32  | 88.34  |                            |  |
| 210.0              | 1.82   | 8.20   | 19.12  | 31.87  | 44.62  | 57.37  | 69.21  | 81.96  | 93.80  |                            |  |
| 225.0              | 2.73   | 9.11   | 20.95  | 31.87  | 45.54  | 59.20  | 71.95  | 84.70  | 94.71  |                            |  |
| 240.0              | 2.73   | 11.84  | 24.59  | 38.25  | 51.91  | 64.66  | 78.32  | 90.16  | 101.09 |                            |  |
| 255.0              | 3.64   | 14.57  | 28.23  | 43.71  | 59.20  | 75.59  | 90.16  | 103.82 | 115.66 |                            |  |
| 270.0              | 3.64   | 15.48  | 30.05  | 46.45  | 61.93  | 77.41  | 92.89  | 108.37 | 122.04 |                            |  |
| 285.0              | 2.73   | 14.57  | 28.23  | 43.71  | 60.11  | 75.59  | 91.07  | 104.73 | 108.37 |                            |  |
| 300.0              | 2.73   | 12.75  | 24.59  | 38.25  | 40.07  | 66.48  | 80.14  | 92.89  | 104.73 |                            |  |
| 315.0              | 0.91   | 9.11   | 18.21  | 29.14  | 40.98  | 51.91  | 63.75  | 75.59  | 87.43  |                            |  |
| 330.0              | 1.82   | 5.46   | 12.75  | 20.95  | 32.79  | 47.36  | 61.93  | 76.50  | 91.07  |                            |  |
| 345.0              | 0.91   | 3.64   | 8.20   | 20.04  | 33.70  | 49.18  | 63.75  | 79.23  | 92.89  |                            |  |
| 360.0              | 1.82   | 0.91   | 2.73   | 8.20   | 21.86  | 38.25  | 54.64  | 71.04  | 86.52  |                            |  |
| C/γ(°)             | 45.0   | 50.0   | 55.0   | 60.0   | 65.0   | 70.0   | 75.0   | 80.0   | 85.0   |                            |  |
| 0.0                | 102.00 | 115.66 | 128.41 | 139.34 | 149.36 | 158.46 | 163.02 | 165.75 | 166.66 |                            |  |
| 15.0               | 119.30 | 135.70 | 149.36 | 162.11 | 173.95 | 183.05 | 186.70 | 190.34 | 191.25 |                            |  |
| 30.0               | 128.41 | 143.89 | 157.55 | 171.21 | 183.96 | 193.07 | 196.71 | 199.45 | 202.18 |                            |  |
| 45.0               | 123.86 | 140.25 | 154.82 | 167.57 | 180.32 | 188.52 | 191.25 | 193.98 | 197.62 |                            |  |
| 60.0               | 110.20 | 123.86 | 138.43 | 149.36 | 161.20 | 170.30 | 172.12 | 173.04 | 177.59 |                            |  |
| 75.0               | 100.18 | 115.66 | 128.41 | 140.25 | 149.36 | 159.37 | 163.93 | 166.66 | 177.59 |                            |  |
| 90.0               | 93.80  | 108.37 | 121.12 | 131.14 | 141.16 | 150.27 | 160.29 | 167.57 | 183.96 |                            |  |
| 105.0              | 83.79  | 95.62  | 105.64 | 114.75 | 122.95 | 133.87 | 148.45 | 169.39 | 173.95 |                            |  |
| 120.0              | 84.70  | 92.89  | 100.18 | 106.55 | 110.20 | 117.48 | 136.61 | 157.55 | 161.20 |                            |  |
| 135.0              | 95.62  | 106.55 | 114.75 | 121.12 | 126.59 | 138.43 | 163.02 | 176.68 | 181.23 |                            |  |
| 150.0              | 101.09 | 112.02 | 121.12 | 128.41 | 134.79 | 148.45 | 177.59 | 187.61 | 185.79 |                            |  |
| 165.0              | 97.45  | 107.46 | 116.57 | 123.86 | 131.14 | 142.98 | 167.57 | 181.23 | 178.50 |                            |  |
| 180.0              | 99.27  | 108.37 | 114.75 | 120.21 | 130.23 | 149.36 | 161.20 | 163.93 | 165.75 |                            |  |
| 195.0              | 98.36  | 106.55 | 114.75 | 122.95 | 136.61 | 149.36 | 163.93 | 168.48 | 169.39 |                            |  |
| 210.0              | 103.82 | 112.93 | 121.12 | 133.87 | 149.36 | 156.64 | 162.11 | 177.59 | 177.59 |                            |  |
| 225.0              | 105.64 | 113.84 | 121.12 | 134.79 | 151.18 | 159.37 | 162.11 | 168.48 | 172.12 |                            |  |
| 240.0              | 111.11 | 119.30 | 126.59 | 137.52 | 155.73 | 166.66 | 169.39 | 169.39 | 171.21 |                            |  |
| 255.0              | 126.59 | 136.61 | 143.89 | 155.73 | 174.86 | 187.61 | 189.43 | 189.43 | 192.16 |                            |  |
| 270.0              | 133.87 | 144.80 | 154.82 | 156.64 | 182.14 | 194.89 | 198.54 | 197.62 | 199.45 |                            |  |
| 285.0              | 130.23 | 140.25 | 150.27 | 160.29 | 172.12 | 187.61 | 188.52 | 189.43 | 191.25 |                            |  |
| 300.0              | 115.66 | 125.68 | 134.79 | 142.98 | 150.27 | 158.46 | 164.84 | 168.48 | 169.39 |                            |  |
| 315.0              | 99.27  | 111.11 | 121.12 | 130.23 | 136.61 | 138.43 | 151.18 | 157.55 | 160.29 |                            |  |
| 330.0              | 104.73 | 117.48 | 128.41 | 139.34 | 145.71 | 146.62 | 150.27 | 163.93 | 168.48 |                            |  |
| 345.0              | 106.55 | 120.21 | 130.23 | 141.16 | 147.54 | 150.27 | 153.91 | 154.82 | 163.02 |                            |  |
| 360.0              | 102.00 | 115.66 | 128.41 | 139.34 | 149.36 | 158.46 | 163.02 | 165.75 | 166.66 |                            |  |

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| 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                | 167.57 | 167.57 | 167.57 | 164.84 | 153.91 | 132.96 | 124.77 | 119.30 | 112.02 |                            |  |
| 15.0               | 193.07 | 193.07 | 192.16 | 192.16 | 188.52 | 160.29 | 143.89 | 135.70 | 128.41 |                            |  |
| 30.0               | 204.91 | 204.00 | 203.09 | 205.82 | 204.00 | 177.59 | 153.91 | 142.07 | 133.87 |                            |  |
| 45.0               | 199.45 | 199.45 | 201.27 | 198.54 | 193.07 | 171.21 | 148.45 | 136.61 | 129.32 |                            |  |
| 60.0               | 180.32 | 180.32 | 179.41 | 176.68 | 171.21 | 148.45 | 131.14 | 121.12 | 113.84 |                            |  |
| 75.0               | 181.23 | 182.14 | 181.23 | 177.59 | 168.48 | 152.09 | 137.52 | 123.86 | 115.66 |                            |  |
| 90.0               | 185.79 | 186.70 | 186.70 | 183.05 | 170.30 | 163.02 | 150.27 | 139.34 | 130.23 |                            |  |
| 105.0              | 176.68 | 185.79 | 179.41 | 170.30 | 164.84 | 162.11 | 153.00 | 142.98 | 133.87 |                            |  |
| 120.0              | 163.02 | 163.02 | 163.93 | 163.93 | 161.20 | 158.46 | 153.00 | 144.80 | 133.87 |                            |  |
| 135.0              | 180.32 | 180.32 | 180.32 | 180.32 | 179.41 | 175.77 | 171.21 | 161.20 | 152.09 |                            |  |
| 150.0              | 186.70 | 187.61 | 187.61 | 190.34 | 186.70 | 183.05 | 175.77 | 167.57 | 156.64 |                            |  |
| 165.0              | 180.32 | 180.32 | 181.23 | 183.05 | 179.41 | 177.59 | 171.21 | 162.11 | 150.27 |                            |  |
| 180.0              | 165.75 | 168.48 | 167.57 | 165.75 | 162.11 | 153.91 | 145.71 | 135.70 | 122.95 |                            |  |
| 195.0              | 162.11 | 163.93 | 162.11 | 161.20 | 157.55 | 149.36 | 140.25 | 129.32 | 117.48 |                            |  |
| 210.0              | 178.50 | 163.02 | 162.11 | 161.20 | 157.55 | 150.27 | 140.25 | 129.32 | 116.57 |                            |  |
| 225.0              | 173.04 | 166.66 | 155.73 | 155.73 | 151.18 | 142.98 | 141.16 | 121.12 | 109.29 |                            |  |
| 240.0              | 171.21 | 168.48 | 167.57 | 156.64 | 150.27 | 142.98 | 133.87 | 124.77 | 113.84 |                            |  |
| 255.0              | 192.16 | 190.34 | 187.61 | 175.77 | 165.75 | 158.46 | 149.36 | 139.34 | 127.50 |                            |  |
| 270.0              | 199.45 | 204.00 | 199.45 | 183.05 | 168.48 | 160.29 | 152.09 | 142.07 | 131.14 |                            |  |
| 285.0              | 195.80 | 193.07 | 191.25 | 175.77 | 157.55 | 149.36 | 142.98 | 133.87 | 122.95 |                            |  |
| 300.0              | 169.39 | 167.57 | 168.48 | 151.18 | 134.79 | 128.41 | 122.95 | 115.66 | 106.55 |                            |  |
| 315.0              | 159.37 | 153.91 | 153.91 | 142.98 | 127.50 | 117.48 | 112.02 | 104.73 | 95.62  |                            |  |
| 330.0              | 167.57 | 160.29 | 151.18 | 145.71 | 131.14 | 120.21 | 112.93 | 105.64 | 97.45  |                            |  |
| 345.0              | 163.93 | 163.02 | 154.82 | 140.25 | 126.59 | 116.57 | 110.20 | 103.82 | 93.80  |                            |  |
| 360.0              | 167.57 | 167.57 | 167.57 | 164.84 | 153.91 | 132.96 | 124.77 | 119.30 | 112.02 |                            |  |
| C/γ(°)             | 135.0  | 140.0  | 145.0  | 150.0  | 155.0  | 160.0  | 165.0  | 170.0  | 175.0  |                            |  |
| 0.0                | 103.82 | 94.71  | 82.87  | 71.95  | 60.11  | 44.62  | 31.87  | 17.30  | 7.29   |                            |  |
| 15.0               | 118.39 | 107.46 | 95.62  | 82.87  | 70.12  | 52.82  | 36.43  | 21.86  | 10.02  |                            |  |
| 30.0               | 123.86 | 112.93 | 101.09 | 88.34  | 73.77  | 57.37  | 39.16  | 24.59  | 10.93  |                            |  |
| 45.0               | 120.21 | 110.20 | 98.36  | 85.61  | 71.95  | 54.64  | 38.25  | 23.68  | 10.93  |                            |  |
| 60.0               | 107.46 | 97.45  | 88.34  | 76.50  | 63.75  | 50.09  | 33.70  | 20.95  | 9.11   |                            |  |
| 75.0               | 106.55 | 96.54  | 84.70  | 72.86  | 59.20  | 44.62  | 30.05  | 17.30  | 7.29   |                            |  |
| 90.0               | 119.30 | 107.46 | 93.80  | 76.50  | 57.37  | 42.80  | 30.05  | 15.48  | 6.37   |                            |  |
| 105.0              | 122.95 | 108.37 | 91.98  | 79.23  | 63.75  | 44.62  | 30.96  | 18.21  | 7.29   |                            |  |
| 120.0              | 122.04 | 111.11 | 97.45  | 83.79  | 69.21  | 52.82  | 35.52  | 22.77  | 10.93  |                            |  |
| 135.0              | 139.34 | 125.68 | 111.11 | 94.71  | 78.32  | 61.93  | 41.89  | 25.50  | 11.84  |                            |  |
| 150.0              | 144.80 | 131.14 | 116.57 | 100.18 | 81.96  | 64.66  | 45.54  | 27.32  | 12.75  |                            |  |
| 165.0              | 139.34 | 126.59 | 112.02 | 96.54  | 80.14  | 62.84  | 42.80  | 26.41  | 11.84  |                            |  |
| 180.0              | 110.20 | 96.54  | 82.87  | 67.39  | 49.18  | 31.87  | 19.12  | 7.29   | 0.91   |                            |  |
| 195.0              | 103.82 | 88.34  | 73.77  | 57.37  | 40.07  | 35.52  | 14.57  | 4.55   | 0.91   |                            |  |
| 210.0              | 102.91 | 99.27  | 70.12  | 54.64  | 36.43  | 23.68  | 11.84  | 3.64   | 0.91   |                            |  |
| 225.0              | 95.62  | 81.96  | 68.30  | 55.55  | 41.89  | 26.41  | 12.75  | 5.46   | 0.91   |                            |  |
| 240.0              | 102.00 | 89.25  | 76.50  | 61.02  | 48.27  | 33.70  | 16.39  | 6.37   | 0.91   |                            |  |
| 255.0              | 114.75 | 101.09 | 86.52  | 71.04  | 54.64  | 38.25  | 20.95  | 8.20   | 0.91   |                            |  |
| 270.0              | 117.48 | 103.82 | 88.34  | 73.77  | 57.37  | 40.07  | 21.86  | 8.20   | 1.82   |                            |  |
| 285.0              | 112.02 | 97.45  | 84.70  | 69.21  | 53.73  | 37.34  | 20.04  | 7.29   | 1.82   |                            |  |
| 300.0              | 96.54  | 84.70  | 72.86  | 60.11  | 46.45  | 32.79  | 16.39  | 5.46   | 1.82   |                            |  |
| 315.0              | 84.70  | 73.77  | 61.93  | 50.09  | 37.34  | 24.59  | 12.75  | 4.55   | 1.82   |                            |  |
| 330.0              | 86.52  | 72.86  | 61.02  | 48.27  | 31.87  | 20.04  | 10.02  | 3.64   | 1.82   |                            |  |
| 345.0              | 84.70  | 71.95  | 57.37  | 46.45  | 33.70  | 20.04  | 10.93  | 4.55   | 1.82   |                            |  |
| 360.0              | 103.82 | 94.71  | 82.87  | 71.95  | 60.11  | 44.62  | 31.87  | 17.30  | 7.29   |                            |  |

# 弗格斯莱 KNOF18LAJUDLB

## Intensity data(cd)

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|                       |       |
|-----------------------|-------|
| C/ $\gamma(^{\circ})$ | 180.0 |
| 0.0                   | 0.91  |
| 15.0                  | 2.73  |
| 30.0                  | 2.73  |
| 45.0                  | 2.73  |
| 60.0                  | 2.73  |
| 75.0                  | 2.73  |
| 90.0                  | 2.73  |
| 105.0                 | 2.73  |
| 120.0                 | 2.73  |
| 135.0                 | 3.64  |
| 150.0                 | 3.64  |
| 165.0                 | 3.64  |
| 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                 | 0.91  |