



SGSO

Address: LIT by CARDI

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Client:

LumCAT: 0017440218 RIO 12W 3000K 1200lm

Luminaire:

Report No:

Voltage(V): 230.4500

Test No: KYZ-A251014055-01-003

Current(A): 0.0434

LampCAT: LED

Power (W): 12.0000

Lamp flux(lm): -1.0

PF: 0.9572

Number of Lamps: 1

Ballast type:

Length(mm): -80

Width(mm): -80

Phm Type: C

Height(mm): 0

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Photometric Results

Lumens(lm): 1200.00

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 100.00

Central intensity(cd): 580.986

Maximum intensity(cd): 601.190

Angle of maximum intensity: C=225.0  $\gamma$ =10.0

Beam Angle(50%Imax): [C0/180]Total=88.8

[C90/270]Total=87.0

Field angle(10%Imax): [C0/180]Total=143.6

[C90/270]Total=138.7

Maximum s/h(1/2): C0\_180=1.20 C90\_270=1.18

Maximum s/h(1/4): C0\_180=1.22 C90\_270=1.22

Up flux rate of lamp(%): 0.45%

Down flux rate of lamp(%): 99.55%

Up flux rate of LUM(%): 0.45%

Down flux rate of LUM(%): 99.55%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 87.858%

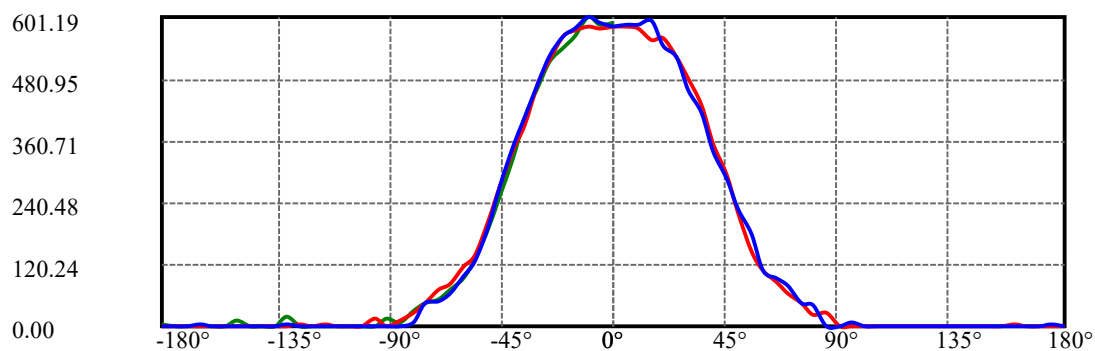
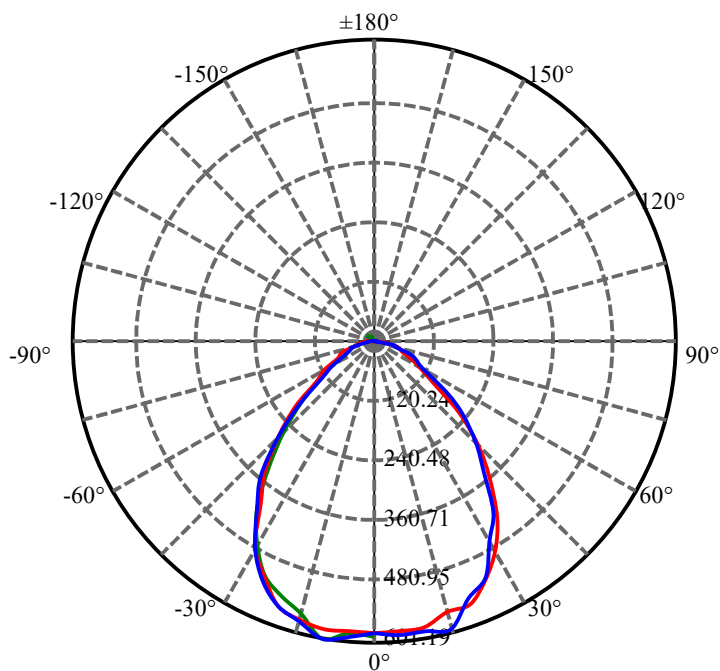
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0                | 610.231       | 0.000       | 0         | .000%       | .000%      |
| 5.0                | 612.946       | 13.879      | 13.879    | .000%       | 1.157%     |
| 10.0               | 613.272       | 41.634      | 55.512    | .000%       | 4.626%     |
| 15.0               | 606.104       | 68.652      | 124.165   | .000%       | 10.347%    |
| 20.0               | 586.636       | 93.297      | 217.462   | .000%       | 18.122%    |
| 25.0               | 546.965       | 112.844     | 330.306   | .000%       | 27.526%    |
| 30.0               | 493.529       | 124.976     | 455.282   | .000%       | 37.940%    |
| 35.0               | 431.132       | 129.235     | 584.516   | .000%       | 48.710%    |
| 40.0               | 363.820       | 125.883     | 710.4     | .000%       | 59.200%    |
| 45.0               | 285.267       | 114.069     | 824.468   | .000%       | 68.706%    |
| 50.0               | 210.787       | 95.135      | 919.603   | .000%       | 76.634%    |
| 55.0               | 156.128       | 75.720      | 995.323   | .000%       | 82.944%    |
| 60.0               | 112.657       | 58.968      | 1054.291  | .000%       | 87.858%    |
| 65.0               | 85.341        | 45.685      | 1099.976  | .000%       | 91.665%    |
| 70.0               | 63.538        | 35.779      | 1135.755  | .000%       | 94.647%    |
| 75.0               | 47.979        | 27.666      | 1163.42   | .000%       | 96.952%    |
| 80.0               | 27.750        | 19.232      | 1182.652  | .000%       | 98.555%    |
| 85.0               | 8.716         | 9.405       | 1192.057  | .000%       | 99.338%    |
| 90.0               | 1.005         | 2.526       | 1194.583  | .000%       | 99.549%    |
| 95.0               | 1.819         | 0.734       | 1195.317  | .000%       | 99.610%    |
| 100.0              | 0.570         | 0.616       | 1195.933  | .000%       | 99.661%    |
| 105.0              | 0.869         | 0.365       | 1196.299  | .000%       | 99.692%    |
| 110.0              | 0.462         | 0.330       | 1196.629  | .000%       | 99.719%    |
| 115.0              | 0.299         | 0.183       | 1196.811  | .000%       | 99.735%    |
| 120.0              | 0.652         | 0.219       | 1197.031  | .000%       | 99.753%    |
| 125.0              | 0.896         | 0.340       | 1197.37   | .000%       | 99.781%    |
| 130.0              | 1.955         | 0.588       | 1197.958  | .000%       | 99.830%    |
| 135.0              | 0.190         | 0.411       | 1198.37   | .000%       | 99.864%    |
| 140.0              | 1.331         | 0.267       | 1198.637  | .000%       | 99.887%    |
| 145.0              | 0.896         | 0.353       | 1198.99   | .000%       | 99.916%    |
| 150.0              | 2.335         | 0.452       | 1199.441  | .000%       | 99.954%    |
| 155.0              | 0.054         | 0.287       | 1199.728  | .000%       | 99.978%    |
| 160.0              | 0.570         | 0.062       | 1199.79   | .000%       | 99.983%    |
| 165.0              | 0.787         | 0.106       | 1199.897  | .000%       | 99.992%    |
| 170.0              | 0.272         | 0.060       | 1199.956  | .000%       | 99.997%    |
| 175.0              | 0.543         | 0.028       | 1199.984  | .000%       | 99.999%    |
| 180.0              | 0.543         | 0.012       | 1199.996  | .000%       | 100.000%   |

## ZONAL LUMEN SUMMARY

| Zone    | Lumens  | %Lamp | %Fixt   |
|---------|---------|-------|---------|
| 0-30    | 455.28  | N.A.  | 37.94%  |
| 0-40    | 710.40  | N.A.  | 59.20%  |
| 0-60    | 1054.29 | N.A.  | 87.86%  |
| 0-90    | 1194.58 | N.A.  | 99.55%  |
| 0-120   | 1197.03 | N.A.  | 99.75%  |
| 0-180   | 1200.00 | N.A.  | 100.00% |
| 60-90   | 199.26  | N.A.  | 16.61%  |
| 90-120  | 4.97    | N.A.  | 0.41%   |
| 90-130  | 5.90    | N.A.  | 0.49%   |
| 90-150  | 7.38    | N.A.  | 0.62%   |
| 90-180  | 7.93    | N.A.  | 0.66%   |
| 0-52.67 | 960.00  | N.A.  | 80.00%  |

## ZONAL LUMEN SUMMARY

|         |        |
|---------|--------|
| 0-10    | 55.51  |
| 10-20   | 161.95 |
| 20-30   | 237.82 |
| 30-40   | 255.12 |
| 40-50   | 209.20 |
| 50-60   | 134.69 |
| 60-70   | 81.46  |
| 70-80   | 46.90  |
| 80-90   | 11.93  |
| 90-100  | 1.35   |
| 100-110 | 0.70   |
| 110-120 | 0.40   |
| 120-130 | 0.93   |
| 130-140 | 0.68   |
| 140-150 | 0.80   |
| 150-160 | 0.35   |
| 160-170 | 0.17   |
| 170-180 | 0.03   |



C225(Max):

C0/C180:

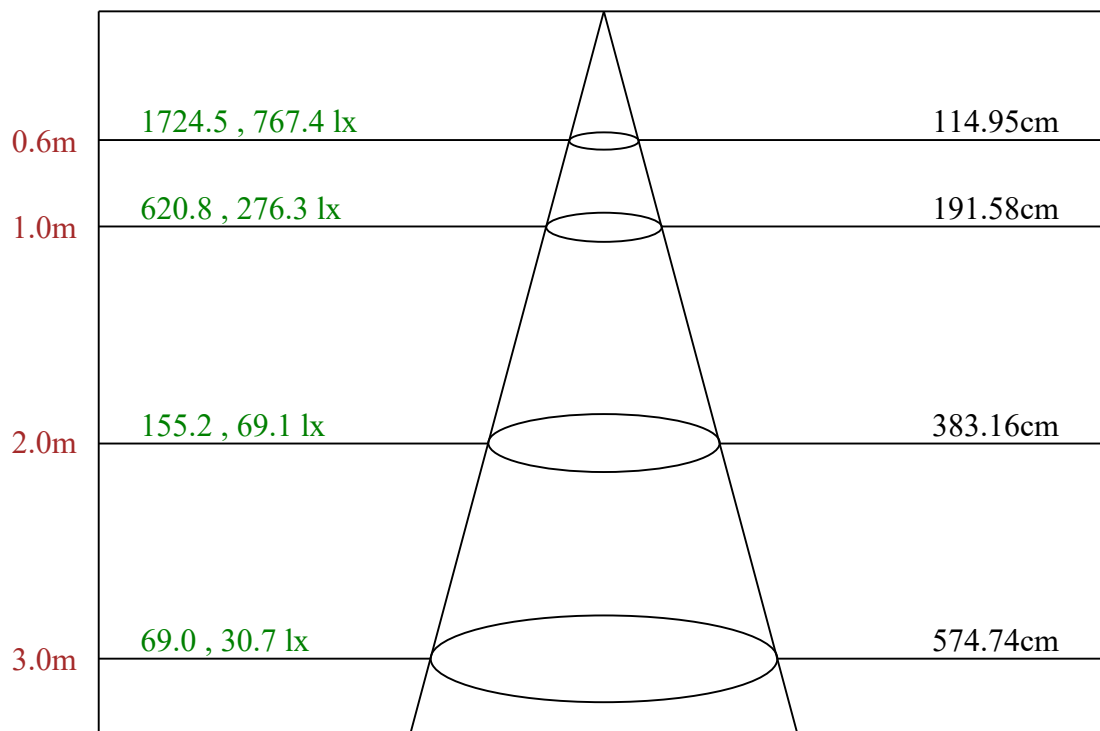
C90/C270:

Field angle(10%Imax):C0/180Left:62.2 Right:81.5

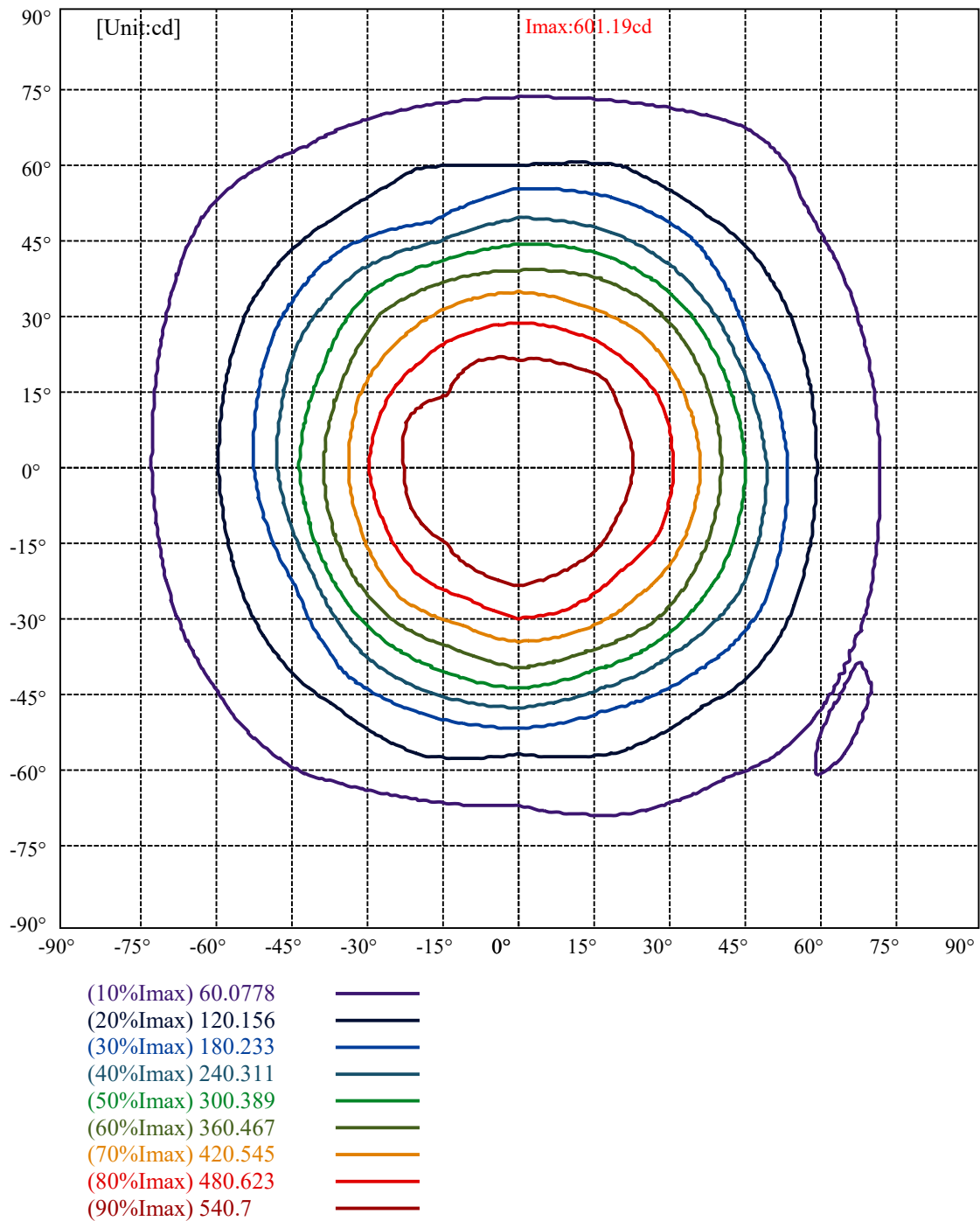
:C90/270Left:56.1 Right:82.6

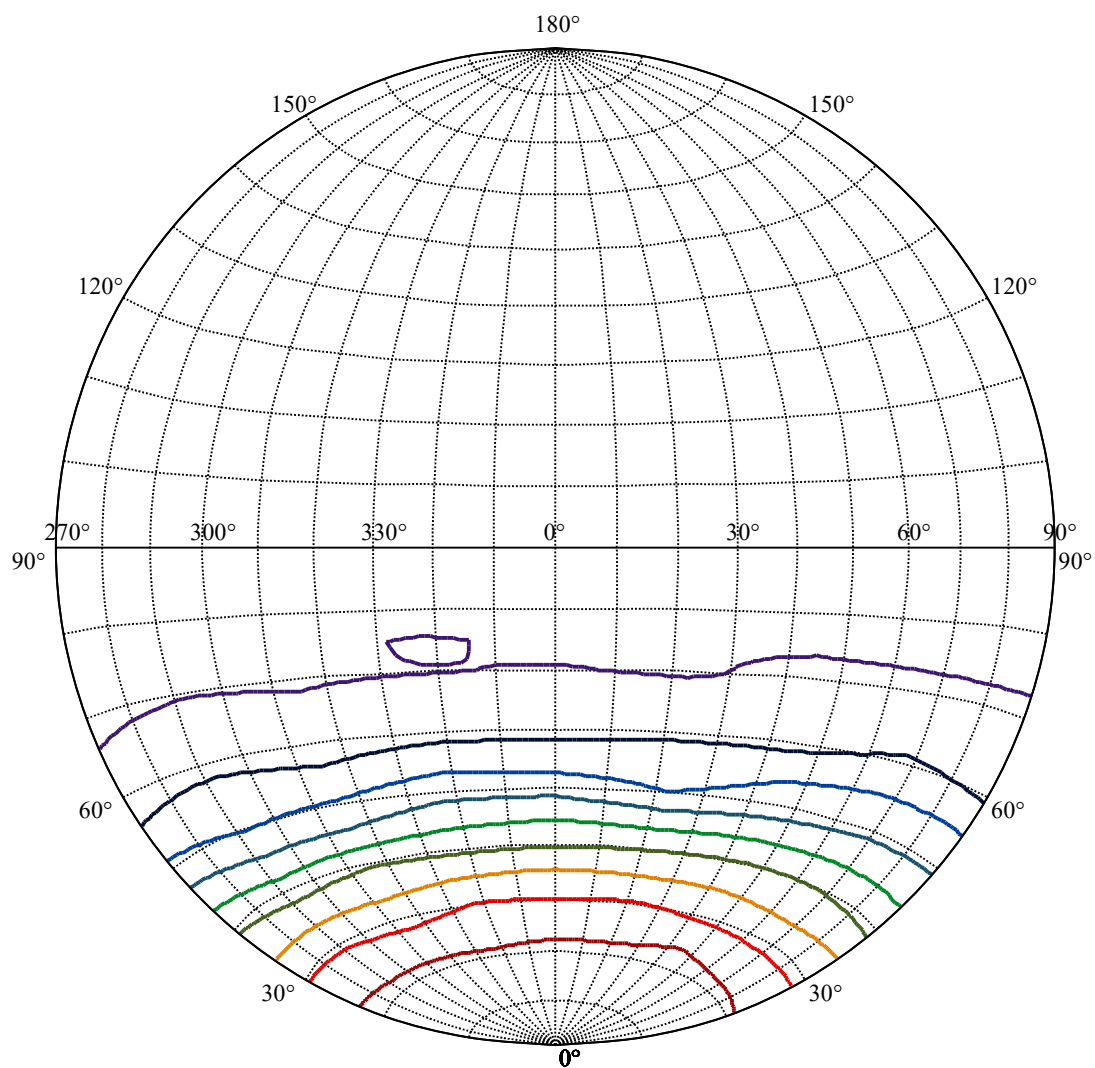
Beam Angle(50%Imax):C0/180Left:33.6 Right:55.2

:C90/270Left:33.2 Right:53.8



Max , Ave      Beam angle of C225 plane 87.54





House

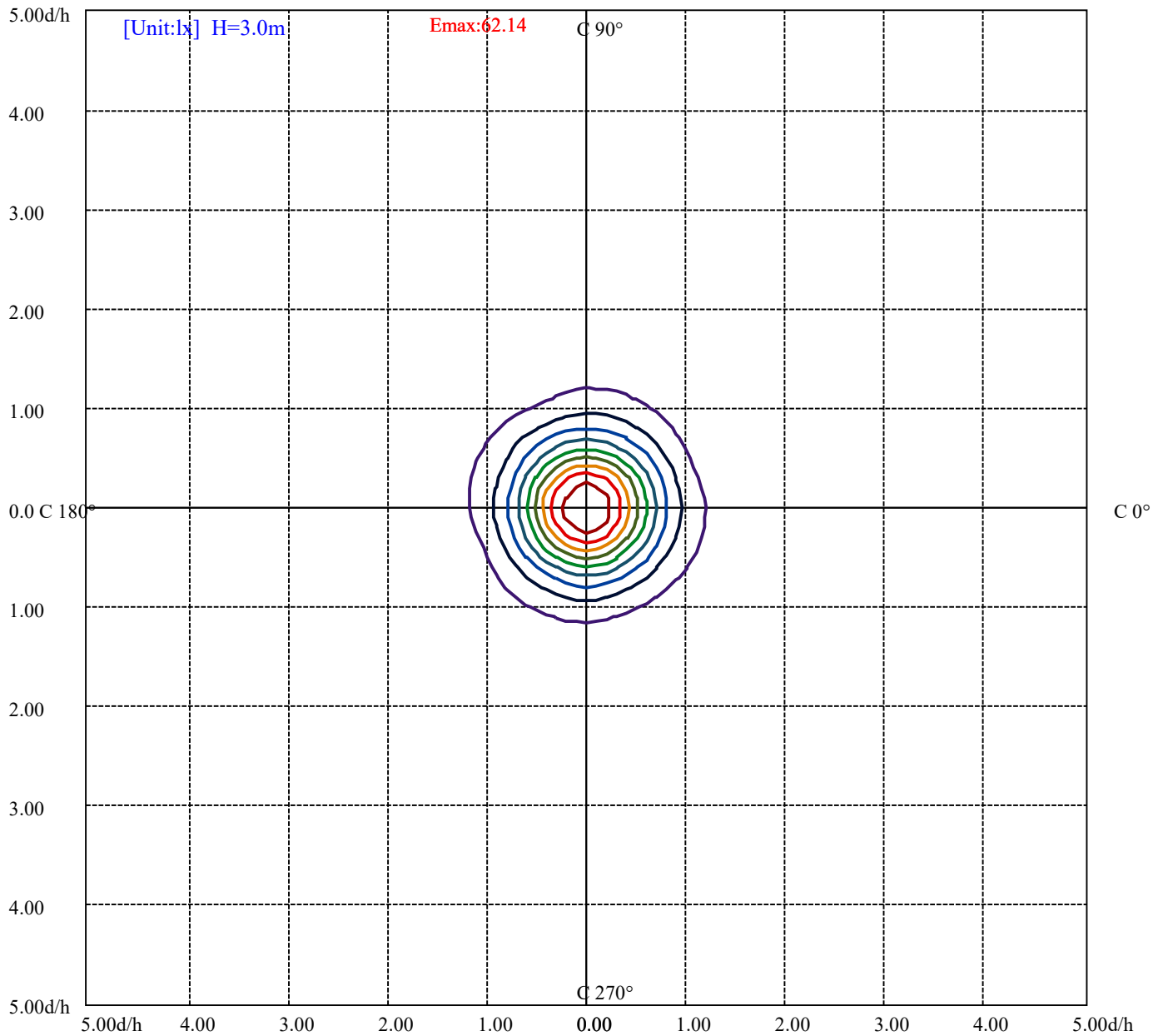
[Unit:cd]

Road

Imax:601.19

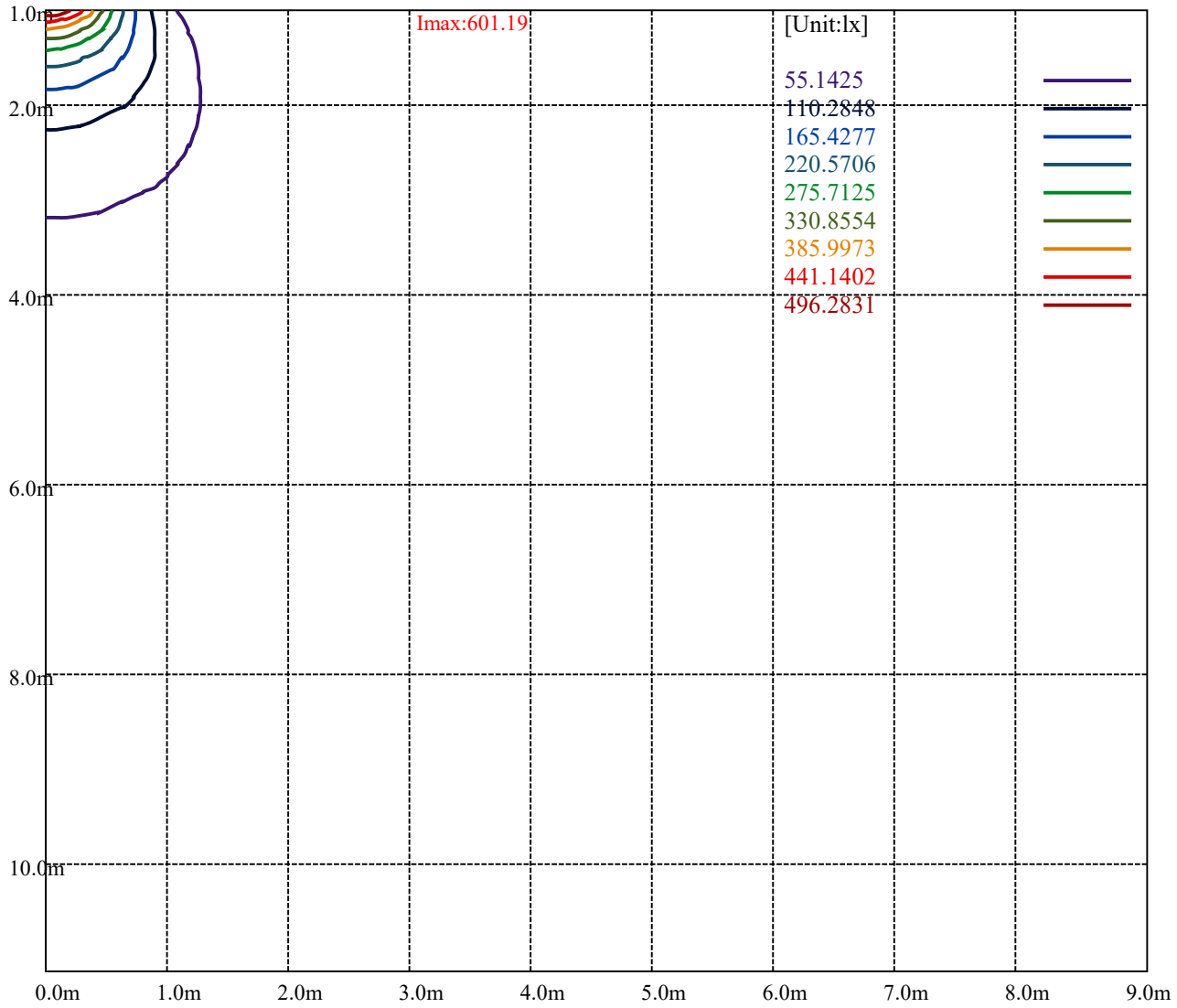
(10%Imax) 57.0601  
(20%Imax) 114.1202  
(30%Imax) 171.1803  
(40%Imax) 228.2404  
(50%Imax) 285.3005  
(60%Imax) 342.3606  
(70%Imax) 399.4207  
(80%Imax) 456.4808  
(90%Imax) 513.5409





|           |          |             |
|-----------|----------|-------------|
| (10%Emax) | 6.213894 | <div></div> |
| (20%Emax) | 12.42777 | <div></div> |
| (30%Emax) | 18.64165 | <div></div> |
| (40%Emax) | 24.85554 | <div></div> |
| (50%Emax) | 31.06952 | <div></div> |
| (60%Emax) | 37.28341 | <div></div> |
| (70%Emax) | 43.4973  | <div></div> |
| (80%Emax) | 49.71118 | <div></div> |
| (90%Emax) | 55.92506 | <div></div> |





Luminance Table

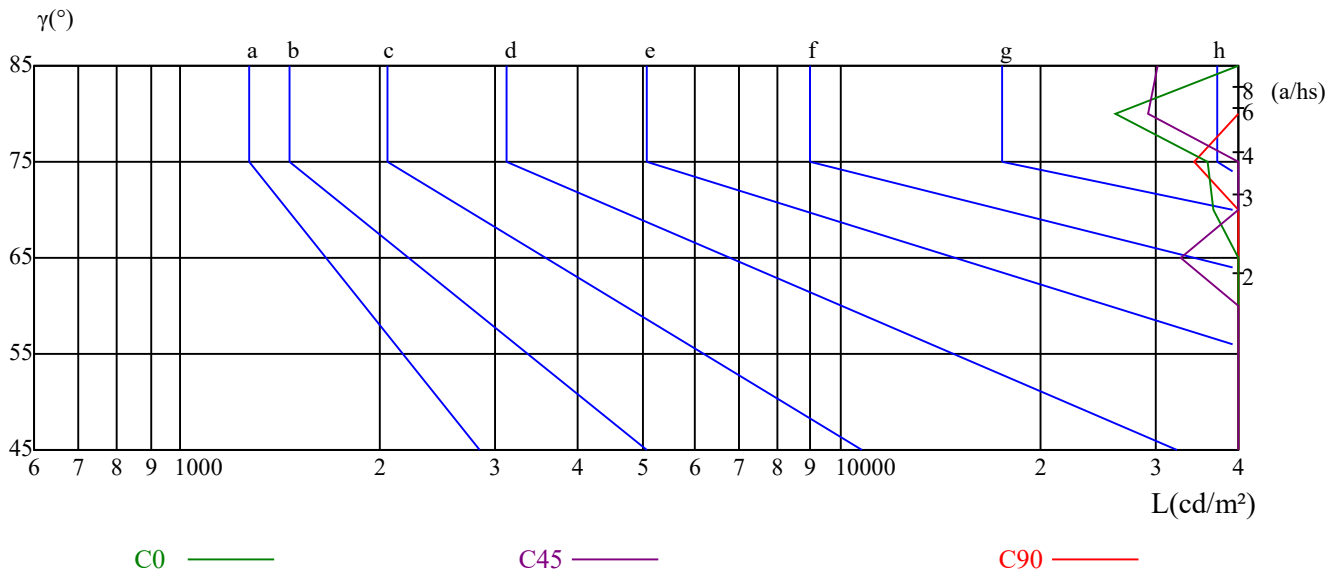
| $\gamma$ | 45    | 50    | 55    | 60    | 65    | 70    | 75    | 80    | 85    |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C0       | 82716 | 68277 | 50772 | 42985 | 40762 | 36697 | 35815 | 25982 | 59297 |
| C45      | 80860 | 63937 | 59925 | 40524 | 32804 | 43172 | 41837 | 29290 | 30118 |
| C90      | 80976 | 70446 | 61641 | 43641 | 43674 | 44612 | 34230 | 46768 | 0     |

| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 39597      | 36686      | 34211   | 34547      | 34230      | 35578   | 41885      | 0          | 23059   |

Glare Table

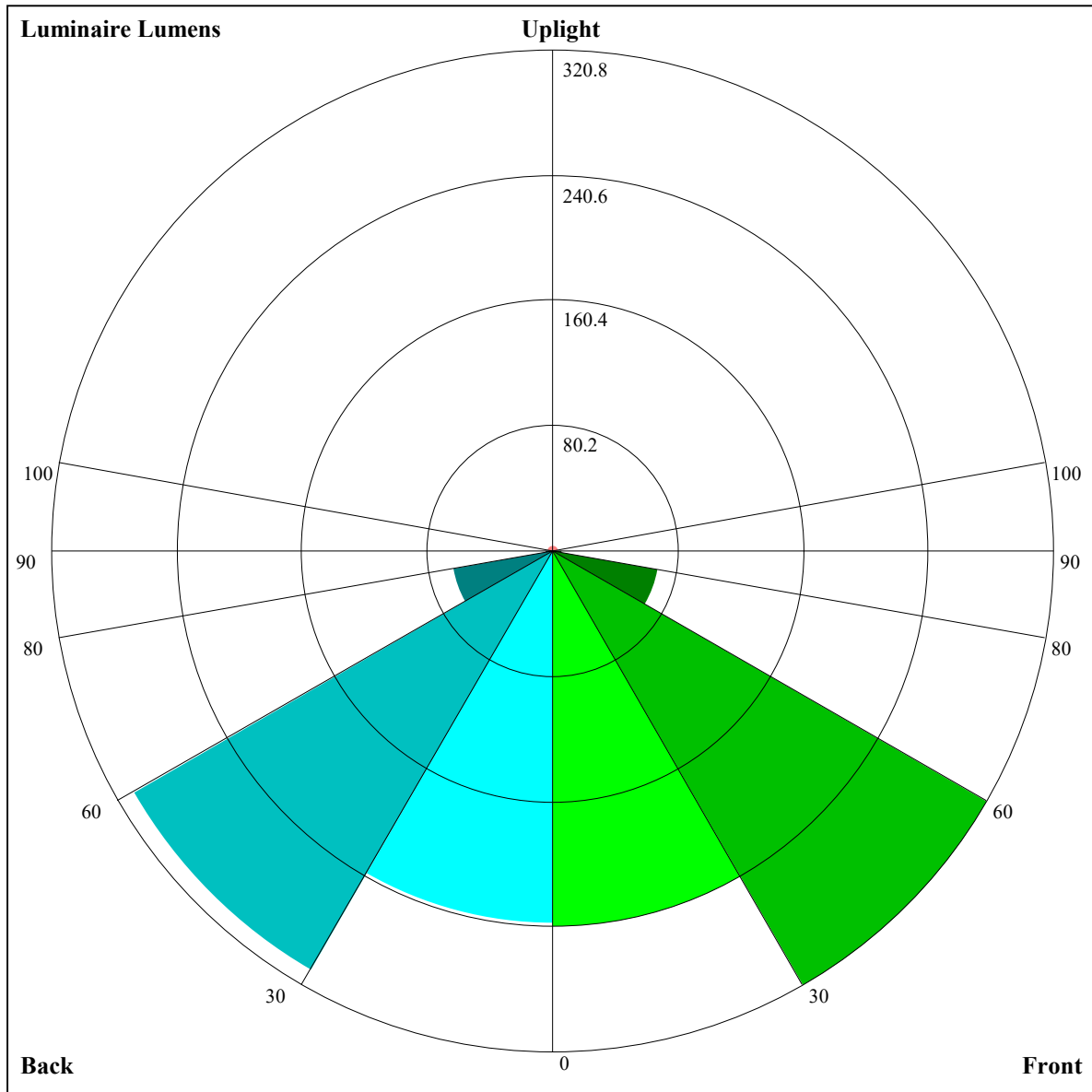
| Glare | Quality | Service Values Illuminance(lx) |      |      |            |            |            |            |            |
|-------|---------|--------------------------------|------|------|------------|------------|------------|------------|------------|
| 1.15  | A       | 2000                           | 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



| Illumination assessment according UGR             |     |                  |       |       |       |       |                |       |       |       |       |
|---------------------------------------------------|-----|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Rf of Ceiling                                     |     | 70               | 70    | 50    | 50    | 30    | 70             | 70    | 50    | 50    | 30    |
| Rf of Wall                                        |     | 50               | 30    | 50    | 30    | 30    | 50             | 30    | 50    | 30    | 30    |
| Rf of Floor                                       |     | 20               | 20    | 20    | 20    | 20    | 20             | 20    | 20    | 20    | 20    |
| Room dimensions                                   |     | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X                                                 | Y   |                  |       |       |       |       |                |       |       |       |       |
| 2H                                                | 2H  | 21.32            | 22.76 | 21.69 | 23.08 | 23.41 | 21.88          | 23.31 | 22.25 | 23.64 | 23.96 |
|                                                   | 3H  | 22.26            | 23.55 | 22.65 | 23.89 | 24.25 | 22.93          | 24.22 | 23.32 | 24.57 | 24.92 |
|                                                   | 4H  | 22.72            | 23.93 | 23.13 | 24.29 | 24.66 | 23.33          | 24.53 | 23.73 | 24.89 | 25.27 |
|                                                   | 6H  | 23.08            | 24.19 | 23.49 | 24.57 | 24.98 | 23.79          | 24.90 | 24.20 | 25.28 | 25.68 |
|                                                   | 8H  | 23.21            | 24.28 | 23.63 | 24.67 | 25.08 | 23.91          | 24.98 | 24.33 | 25.37 | 25.78 |
|                                                   | 12H | 23.45            | 24.47 | 23.87 | 24.87 | 25.29 | 23.89          | 24.91 | 24.31 | 25.31 | 25.73 |
| 4H                                                | 2H  | 21.69            | 22.90 | 22.10 | 23.26 | 23.63 | 22.15          | 23.35 | 22.55 | 23.71 | 24.09 |
|                                                   | 3H  | 22.83            | 23.84 | 23.25 | 24.24 | 24.66 | 23.45          | 24.47 | 23.88 | 24.86 | 25.28 |
|                                                   | 4H  | 23.54            | 24.43 | 23.98 | 24.85 | 25.30 | 24.03          | 24.92 | 24.47 | 25.35 | 25.80 |
|                                                   | 6H  | 24.04            | 24.84 | 24.52 | 25.29 | 25.74 | 24.61          | 25.40 | 25.08 | 25.85 | 26.31 |
|                                                   | 8H  | 24.28            | 25.02 | 24.77 | 25.48 | 25.95 | 24.82          | 25.55 | 25.30 | 26.01 | 26.49 |
|                                                   | 12H | 24.62            | 25.31 | 25.11 | 25.76 | 26.28 | 24.85          | 25.53 | 25.33 | 25.98 | 26.50 |
| 8H                                                | 4H  | 23.80            | 24.53 | 24.28 | 24.99 | 25.47 | 24.22          | 24.96 | 24.71 | 25.42 | 25.89 |
|                                                   | 6H  | 24.47            | 25.08 | 24.97 | 25.56 | 26.07 | 24.92          | 25.53 | 25.42 | 26.01 | 26.52 |
|                                                   | 8H  | 24.87            | 25.41 | 25.39 | 25.93 | 26.43 | 25.26          | 25.79 | 25.78 | 26.31 | 26.81 |
|                                                   | 12H | 25.32            | 25.77 | 25.85 | 26.28 | 26.81 | 25.35          | 25.80 | 25.88 | 26.32 | 26.84 |
| 12H                                               | 4H  | 23.82            | 24.50 | 24.30 | 24.95 | 25.47 | 24.24          | 24.93 | 24.73 | 25.38 | 25.90 |
|                                                   | 6H  | 24.56            | 25.09 | 25.08 | 25.61 | 26.11 | 25.00          | 25.53 | 25.52 | 26.05 | 26.55 |
|                                                   | 8H  | 24.96            | 25.41 | 25.49 | 25.93 | 26.45 | 25.33          | 25.78 | 25.86 | 26.30 | 26.82 |
| Variation with the observer position at spacings: |     |                  |       |       |       |       |                |       |       |       |       |
| S = 1.0H                                          |     | 0.3/-0.5         |       |       |       |       | 0.3/-0.8       |       |       |       |       |
| S = 1.5H                                          |     | 0.6/-1.4         |       |       |       |       | 0.9/-1.1       |       |       |       |       |
| S = 2.0H                                          |     | 1.6/-1.1         |       |       |       |       | 1.5/-1.3       |       |       |       |       |
| Standard tables:                                  |     | BK3              |       |       |       |       | BK4            |       |       |       |       |
| Uncorrected UGR                                   |     | 10.9             |       |       |       |       | 11.1           |       |       |       |       |

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



Luminaire Lumens:

FL=240.54,FM=320.8,FH=69.13,FVH=6.48

BL=239.09,BM=310.23,BH=65.72,BVH=5.43

UL=1.42,UH=4.28

BUG Rating:B1-U1-G0

## 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    | 580.99 | 582.22 | 577.69 | 557.48 | 558.72 | 522.43 | 483.26 | 430.07 | 356.26 |
| 22.5   | 576.45 | 580.57 | 579.75 | 583.46 | 556.66 | 523.26 | 487.39 | 422.24 | 357.91 |
| 45.0   | 589.23 | 578.92 | 571.91 | 572.74 | 564.08 | 535.22 | 469.65 | 420.17 | 364.10 |
| 67.5   | 578.10 | 564.08 | 582.63 | 571.91 | 558.72 | 513.77 | 465.94 | 407.80 | 358.73 |
| 90.0   | 580.99 | 587.58 | 587.58 | 592.94 | 545.53 | 521.61 | 459.76 | 415.23 | 339.77 |
| 112.5  | 576.45 | 587.58 | 578.92 | 572.33 | 567.38 | 510.89 | 461.82 | 411.10 | 343.48 |
| 135.0  | 582.63 | 580.99 | 565.73 | 580.16 | 538.10 | 506.77 | 462.23 | 404.92 | 357.91 |
| 157.5  | 568.62 | 584.70 | 571.91 | 567.79 | 573.98 | 529.03 | 466.77 | 407.39 | 328.63 |
| 180.0  | 580.99 | 579.34 | 583.05 | 573.56 | 562.02 | 519.96 | 474.60 | 393.37 | 341.83 |
| 202.5  | 576.45 | 567.79 | 579.34 | 576.04 | 557.48 | 521.20 | 460.17 | 393.78 | 338.53 |
| 225.0  | 589.23 | 584.70 | 601.19 | 564.08 | 541.81 | 514.19 | 465.12 | 407.39 | 328.22 |
| 247.5  | 578.10 | 590.88 | 579.34 | 561.61 | 558.31 | 507.59 | 450.27 | 390.90 | 323.27 |
| 270.0  | 580.99 | 591.29 | 600.78 | 577.69 | 564.08 | 526.56 | 475.43 | 408.22 | 352.14 |
| 292.5  | 576.45 | 579.34 | 591.71 | 577.28 | 560.37 | 512.13 | 473.78 | 405.74 | 331.11 |
| 315.0  | 582.63 | 583.87 | 584.70 | 585.11 | 552.12 | 521.61 | 454.81 | 409.04 | 352.96 |
| 337.5  | 568.62 | 584.28 | 576.86 | 590.06 | 549.24 | 519.96 | 483.67 | 419.76 | 350.08 |
| 360.0  | 580.99 | 582.22 | 577.69 | 557.48 | 558.72 | 522.43 | 483.26 | 430.07 | 356.26 |
|        |        |        |        |        |        |        |        |        |        |
| C/γ(°) | 45.0   | 50.0   | 55.0   | 60.0   | 65.0   | 70.0   | 75.0   | 80.0   | 85.0   |
| 0.0    | 294.00 | 220.60 | 146.38 | 108.03 | 86.59  | 63.09  | 46.59  | 22.68  | 25.98  |
| 22.5   | 277.09 | 181.43 | 138.13 | 114.22 | 87.83  | 54.02  | 54.43  | 37.52  | 18.56  |
| 45.0   | 287.40 | 206.58 | 172.77 | 101.85 | 69.69  | 74.22  | 54.43  | 25.57  | 13.19  |
| 67.5   | 289.05 | 225.14 | 181.84 | 131.95 | 84.94  | 77.52  | 47.83  | 35.87  | 15.26  |
| 90.0   | 287.81 | 227.61 | 177.72 | 109.68 | 92.78  | 76.70  | 44.53  | 40.82  | 0.00   |
| 112.5  | 262.66 | 181.84 | 136.48 | 125.76 | 82.06  | 66.80  | 47.42  | 26.80  | 9.90   |
| 135.0  | 286.99 | 211.94 | 155.04 | 94.84  | 83.29  | 60.20  | 47.83  | 34.64  | 19.79  |
| 157.5  | 268.02 | 227.20 | 152.15 | 112.16 | 103.08 | 64.74  | 53.60  | 25.57  | 0.00   |
| 180.0  | 272.56 | 204.11 | 138.96 | 114.22 | 81.64  | 70.51  | 43.30  | 27.21  | 10.72  |
| 202.5  | 228.85 | 154.63 | 138.13 | 101.85 | 76.70  | 50.72  | 28.04  | 34.22  | 0.00   |
| 225.0  | 255.65 | 190.91 | 129.06 | 91.54  | 69.69  | 54.02  | 43.71  | 28.04  | 7.42   |
| 247.5  | 265.96 | 187.61 | 145.97 | 108.03 | 72.57  | 32.57  | 23.92  | 8.25   | 0.00   |
| 270.0  | 271.32 | 193.80 | 125.76 | 97.72  | 63.09  | 49.07  | 44.53  | 6.60   | 0.00   |
| 292.5  | 247.82 | 176.89 | 144.73 | 103.08 | 80.82  | 57.32  | 41.65  | 12.78  | 3.71   |
| 315.0  | 253.59 | 189.26 | 129.47 | 94.43  | 68.04  | 55.25  | 39.17  | 33.81  | 0.00   |
| 337.5  | 283.28 | 221.43 | 158.34 | 101.44 | 93.19  | 58.14  | 67.62  | 21.03  | 7.83   |
| 360.0  | 294.00 | 220.60 | 146.38 | 108.03 | 86.59  | 63.09  | 46.59  | 22.68  | 25.98  |
|        |        |        |        |        |        |        |        |        |        |
| 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   | 5.36   | 0.00   | 4.54   | 0.00   | 0.00   | 0.00   | 4.95   |
| 45.0   | 0.82   | 0.00   | 3.30   | 4.95   | 0.00   | 0.00   | 0.00   | 0.41   | 0.00   |
| 67.5   | 0.82   | 4.54   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| 90.0   | 0.00   | 9.07   | 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   | 0.41   | 0.00   |
| 135.0  | 0.00   | 0.00   | 0.00   | 7.42   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| 157.5  | 0.41   | 0.00   | 0.00   | 0.00   | 0.00   | 1.24   | 0.00   | 0.00   | 0.00   |
| 180.0  | 0.00   | 14.02  | 0.00   | 0.00   | 0.00   | 3.30   | 0.00   | 2.06   | 0.00   |
| 202.5  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 9.90   | 0.00   | 0.00   |
| 225.0  | 13.19  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 18.56  |
| 247.5  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| 270.0  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 2.47   |
| 292.5  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 10.72  | 0.00   |
| 315.0  | 0.00   | 0.00   | 0.00   | 0.82   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| 337.5  | 0.00   | 0.00   | 0.00   | 0.00   | 2.47   | 0.00   | 0.00   | 0.00   | 3.71   |
| 360.0  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |

## Intensity data(cd)

Appendix Page: 14 Total:14

| 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  | 2.47  | 0.00  | 0.00  | 0.00  |
| 22.5   | 2.89  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 45.0   | 0.00  | 1.24  | 0.00  | 10.31 | 0.00  | 0.00  | 0.00  | 0.00  | 0.82  |
| 67.5   | 0.00  | 6.19  | 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  | 3.30  |
| 112.5  | 0.00  | 2.89  | 2.47  | 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  | 1.24  | 0.00  | 0.00  |
| 157.5  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 2.89  | 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  | 0.82  | 7.42  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 225.0  | 0.00  | 0.00  | 0.00  | 11.55 | 0.00  | 0.00  | 0.00  | 0.00  | 0.41  |
| 247.5  | 0.00  | 3.71  | 2.89  | 13.61 | 0.00  | 0.00  | 0.00  | 4.12  | 0.00  |
| 270.0  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 4.12  | 0.00  | 0.00  |
| 292.5  | 0.00  | 0.00  | 0.00  | 0.00  | 0.82  | 6.19  | 3.71  | 0.00  | 2.47  |
| 315.0  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 337.5  | 0.00  | 5.36  | 0.82  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 1.24  |
| 360.0  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 2.47  | 0.00  | 0.00  | 0.00  |

|        |       |
|--------|-------|
| C/γ(°) | 180.0 |
| 0.0    | 0.00  |
| 22.5   | 0.00  |
| 45.0   | 4.12  |
| 67.5   | 0.00  |
| 90.0   | 0.00  |
| 112.5  | 0.00  |
| 135.0  | 0.00  |
| 157.5  | 0.00  |
| 180.0  | 0.00  |
| 202.5  | 0.00  |
| 225.0  | 4.12  |
| 247.5  | 0.00  |
| 270.0  | 0.00  |
| 292.5  | 0.00  |
| 315.0  | 0.00  |
| 337.5  | 0.00  |
| 360.0  | 0.00  |