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Client:

LumCAT: LIT by CARDI

Luminaire: 0027060004 9W 900lm 6000K

Report No:

Test No: KYZ-A250820066-01-001

LampCAT: LED

Lamp flux(lm): -1.0

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 230.0800

Current(A): 0.0450

Power (W): 9.4600

PF: 0.9117

Ballast type:

Width(mm): 0

Height(mm): 0

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#### Photometric Results

Lumens(lm): 885.72

Efficiency(%): 0.00%

Lumens(lm)/Power(W): 93.63

Central intensity(cd): 310.973

Maximum intensity(cd): 337.447

Angle of maximum intensity: C=90.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=114.8

[C90/270]Total=102.0

Field angle(10%Imax): [C0/180]Total=149.1

[C90/270]Total=174.4

Maximum s/h(1/2): C0\_180=1.35 C90\_270=1.18

Maximum s/h(1/4): C0\_180=1.40 C90\_270=1.34

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 2.26%

Down flux rate of LUM(%): 97.74%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 80.412%

## LIT by CARDI

## Zonal flux distribution table

Appendix Page: 2 Total:12

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0                | 322.109       | 0.000       | 0         | .000%       | .000%      |
| 5.0                | 320.060       | 7.677       | 7.677     | .000%       | .867%      |
| 10.0               | 308.556       | 22.488      | 30.165    | .000%       | 3.406%     |
| 15.0               | 310.290       | 36.710      | 66.874    | .000%       | 7.550%     |
| 20.0               | 301.307       | 50.404      | 117.278   | .000%       | 13.241%    |
| 25.0               | 284.708       | 61.462      | 178.74    | .000%       | 20.180%    |
| 30.0               | 270.210       | 70.225      | 248.966   | .000%       | 28.109%    |
| 35.0               | 255.029       | 77.345      | 326.311   | .000%       | 36.841%    |
| 40.0               | 234.175       | 81.620      | 407.931   | .000%       | 46.057%    |
| 45.0               | 209.329       | 82.118      | 490.049   | .000%       | 55.328%    |
| 50.0               | 187.161       | 80.117      | 570.166   | .000%       | 64.373%    |
| 55.0               | 160.109       | 75.508      | 645.674   | .000%       | 72.898%    |
| 60.0               | 127.803       | 66.550      | 712.224   | .000%       | 80.412%    |
| 65.0               | 92.084        | 53.455      | 765.679   | .000%       | 86.447%    |
| 70.0               | 59.621        | 38.412      | 804.091   | .000%       | 90.784%    |
| 75.0               | 38.294        | 25.593      | 829.685   | .000%       | 93.674%    |
| 80.0               | 22.482        | 16.262      | 845.947   | .000%       | 95.510%    |
| 85.0               | 18.070        | 11.019      | 856.966   | .000%       | 96.754%    |
| 90.0               | 13.973        | 8.774       | 865.739   | .000%       | 97.744%    |
| 95.0               | 10.663        | 6.746       | 872.485   | .000%       | 98.506%    |
| 100.0              | 6.934         | 4.782       | 877.267   | .000%       | 99.046%    |
| 105.0              | 0.368         | 1.954       | 879.22    | .000%       | 99.266%    |
| 110.0              | 1.103         | 0.384       | 879.605   | .000%       | 99.310%    |
| 115.0              | 2.416         | 0.891       | 880.496   | .000%       | 99.410%    |
| 120.0              | 1.891         | 1.047       | 881.543   | .000%       | 99.529%    |
| 125.0              | 1.576         | 0.801       | 882.344   | .000%       | 99.619%    |
| 130.0              | 0.630         | 0.480       | 882.824   | .000%       | 99.673%    |
| 135.0              | 0.998         | 0.329       | 883.153   | .000%       | 99.710%    |
| 140.0              | 0.000         | 0.185       | 883.338   | .000%       | 99.731%    |
| 145.0              | 0.420         | 0.070       | 883.408   | .000%       | 99.739%    |
| 150.0              | 3.309         | 0.549       | 883.957   | .000%       | 99.801%    |
| 155.0              | 0.840         | 0.525       | 884.482   | .000%       | 99.860%    |
| 160.0              | 1.471         | 0.242       | 884.725   | .000%       | 99.888%    |
| 165.0              | 2.154         | 0.299       | 885.024   | .000%       | 99.922%    |
| 170.0              | 5.726         | 0.467       | 885.491   | .000%       | 99.974%    |
| 175.0              | 0.000         | 0.205       | 885.696   | .000%       | 99.997%    |
| 180.0              | 1.891         | 0.023       | 885.718   | .000%       | 100.000%   |

Equipment: Goniophotometer  
Temperature( $^{\circ}\text{C}$ ): 0.0

Date: 2025/8/26  
Humidity(%): 0.0%

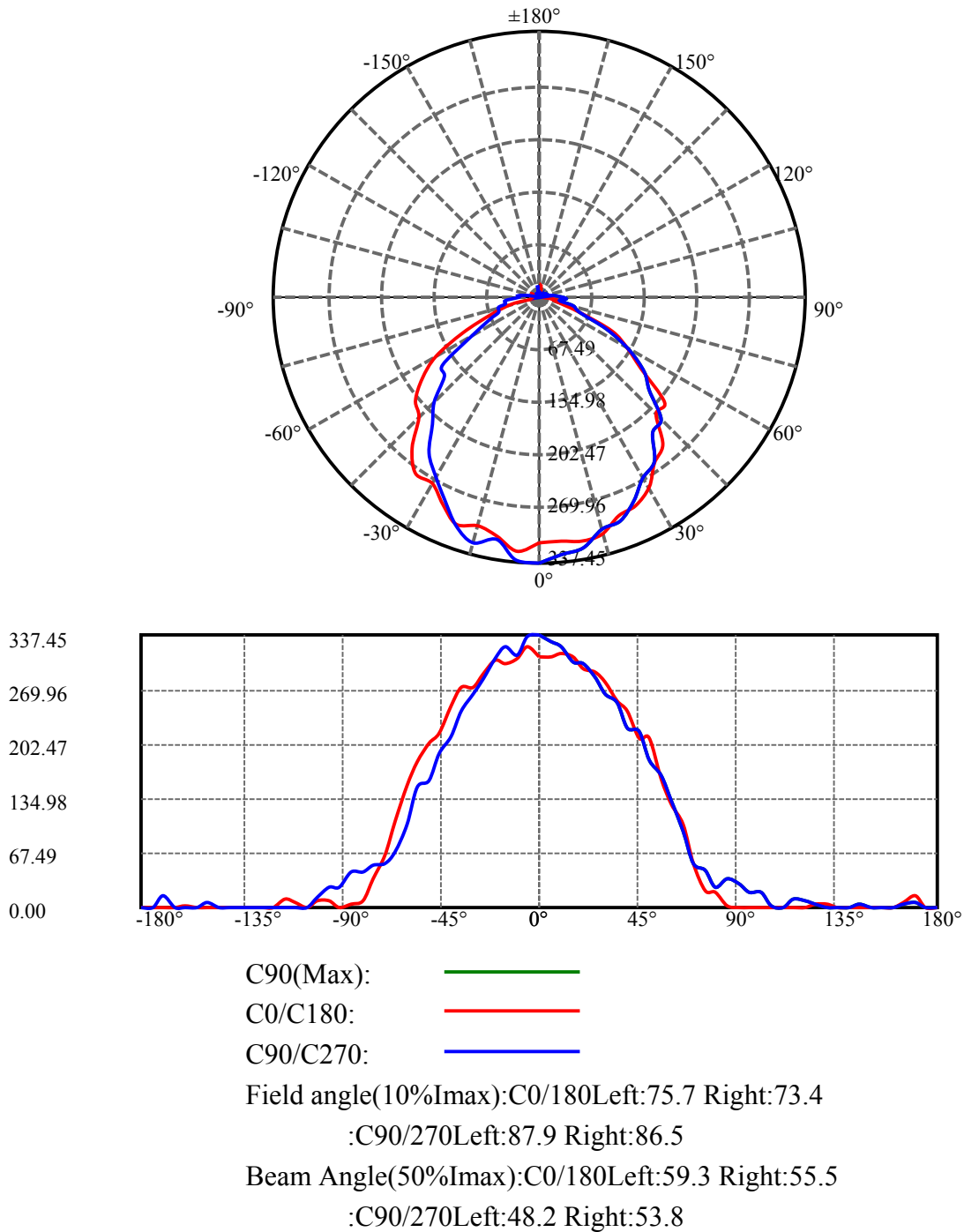
Operator: ZBY  
Distance(m): 20.15

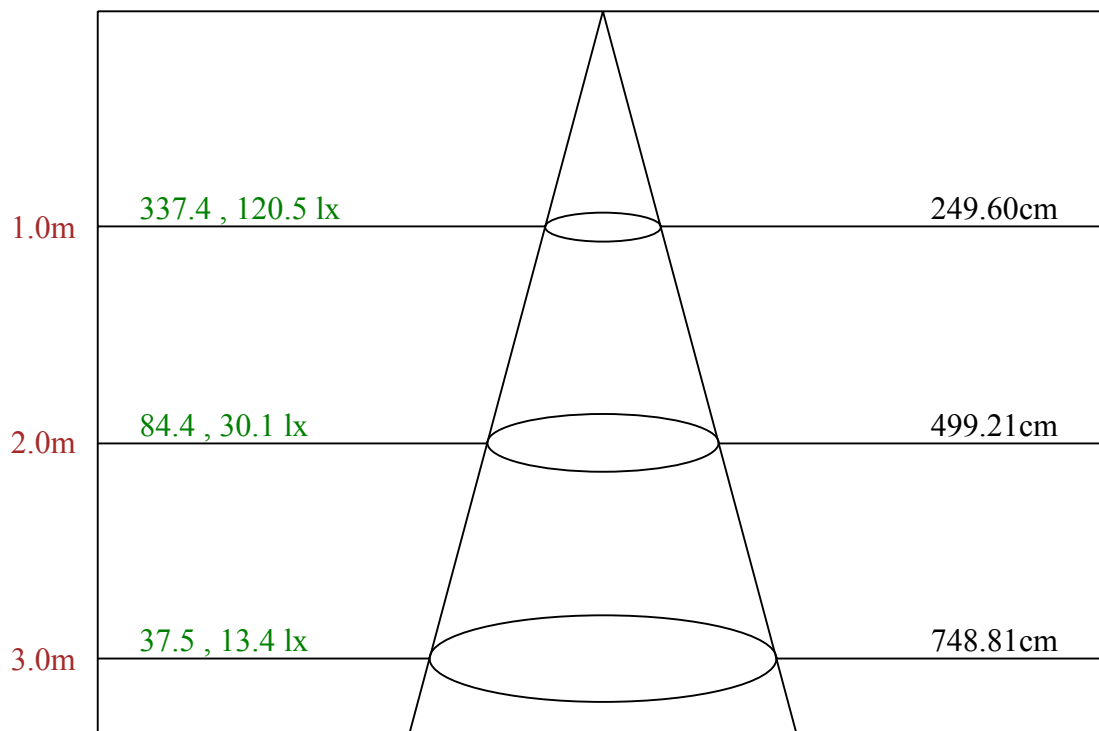
## ZONAL LUMEN SUMMARY

| Zone    | Lumens | %Lamp | %Fixt   |
|---------|--------|-------|---------|
| 0-30    | 248.97 | N.A.  | 28.11%  |
| 0-40    | 407.93 | N.A.  | 46.06%  |
| 0-60    | 712.22 | N.A.  | 80.41%  |
| 0-90    | 865.74 | N.A.  | 97.74%  |
| 0-120   | 881.54 | N.A.  | 99.53%  |
| 0-180   | 885.72 | N.A.  | 100.00% |
| 60-90   | 220.07 | N.A.  | 24.85%  |
| 90-120  | 24.58  | N.A.  | 2.77%   |
| 90-130  | 25.86  | N.A.  | 2.92%   |
| 90-150  | 26.99  | N.A.  | 3.05%   |
| 90-180  | 28.73  | N.A.  | 3.24%   |
| 0-59.73 | 708.57 | N.A.  | 80.00%  |

## ZONAL LUMEN SUMMARY

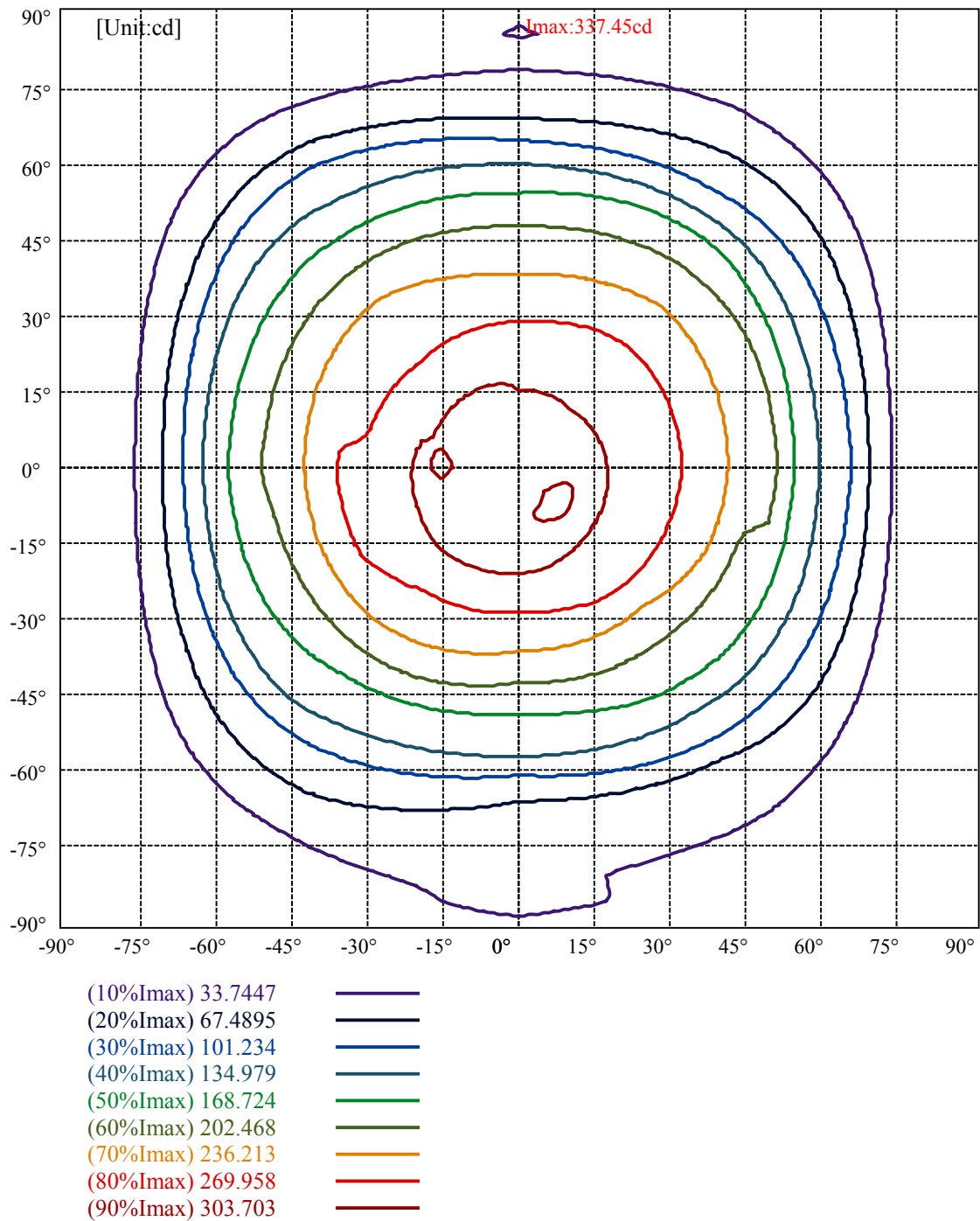
|         |        |
|---------|--------|
| 0-10    | 30.16  |
| 10-20   | 87.11  |
| 20-30   | 131.69 |
| 30-40   | 158.97 |
| 40-50   | 162.23 |
| 50-60   | 142.06 |
| 60-70   | 91.87  |
| 70-80   | 41.86  |
| 80-90   | 19.79  |
| 90-100  | 11.53  |
| 100-110 | 2.34   |
| 110-120 | 1.94   |
| 120-130 | 1.28   |
| 130-140 | 0.51   |
| 140-150 | 0.62   |
| 150-160 | 0.77   |
| 160-170 | 0.77   |
| 170-180 | 0.20   |

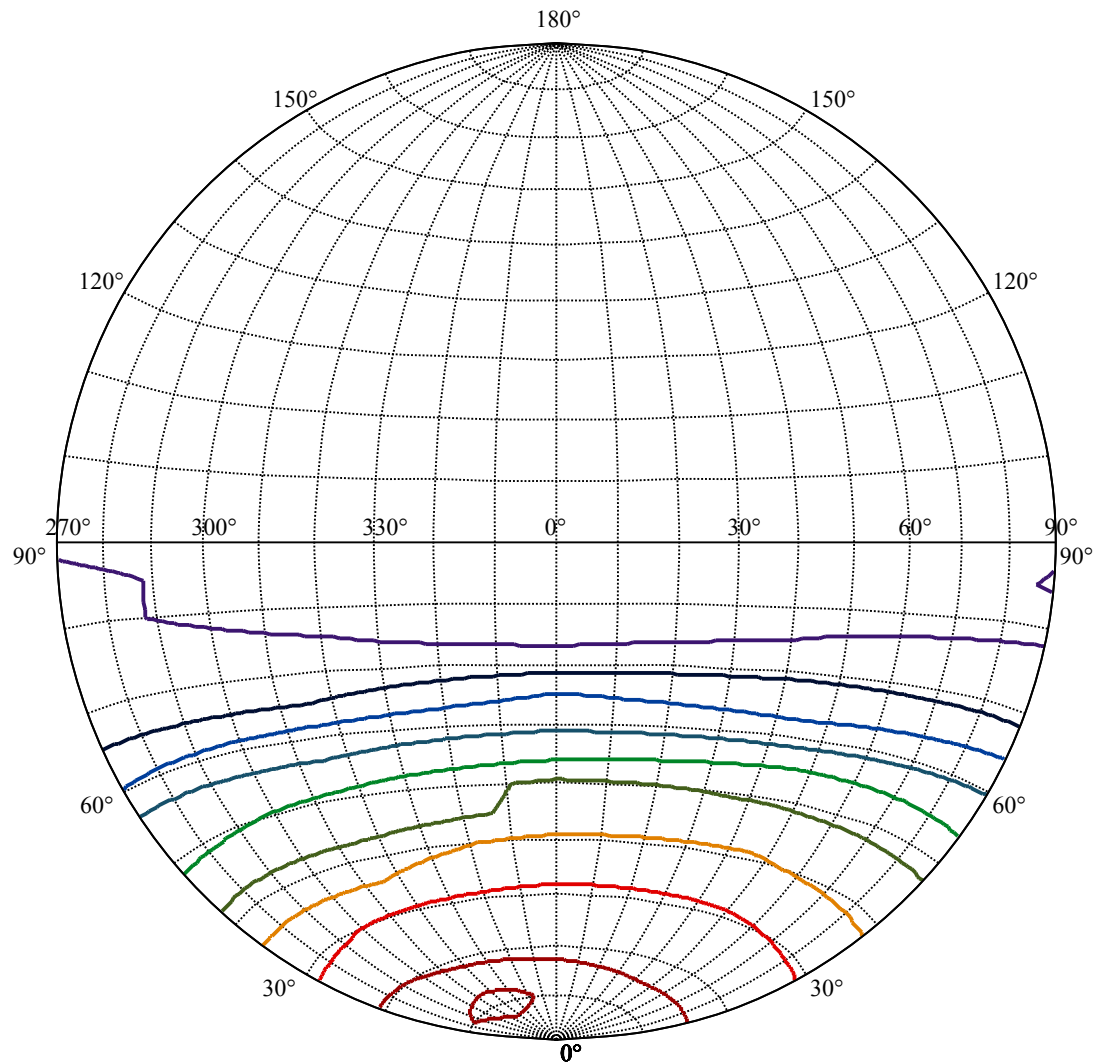




Max , Ave

Beam angle of C90 plane 102.59





[Unit:cd]

Imax:337.45

(10%Imax) 33.7447

(20%Imax) 67.4895

(30%Imax) 101.234

(40%Imax) 134.979

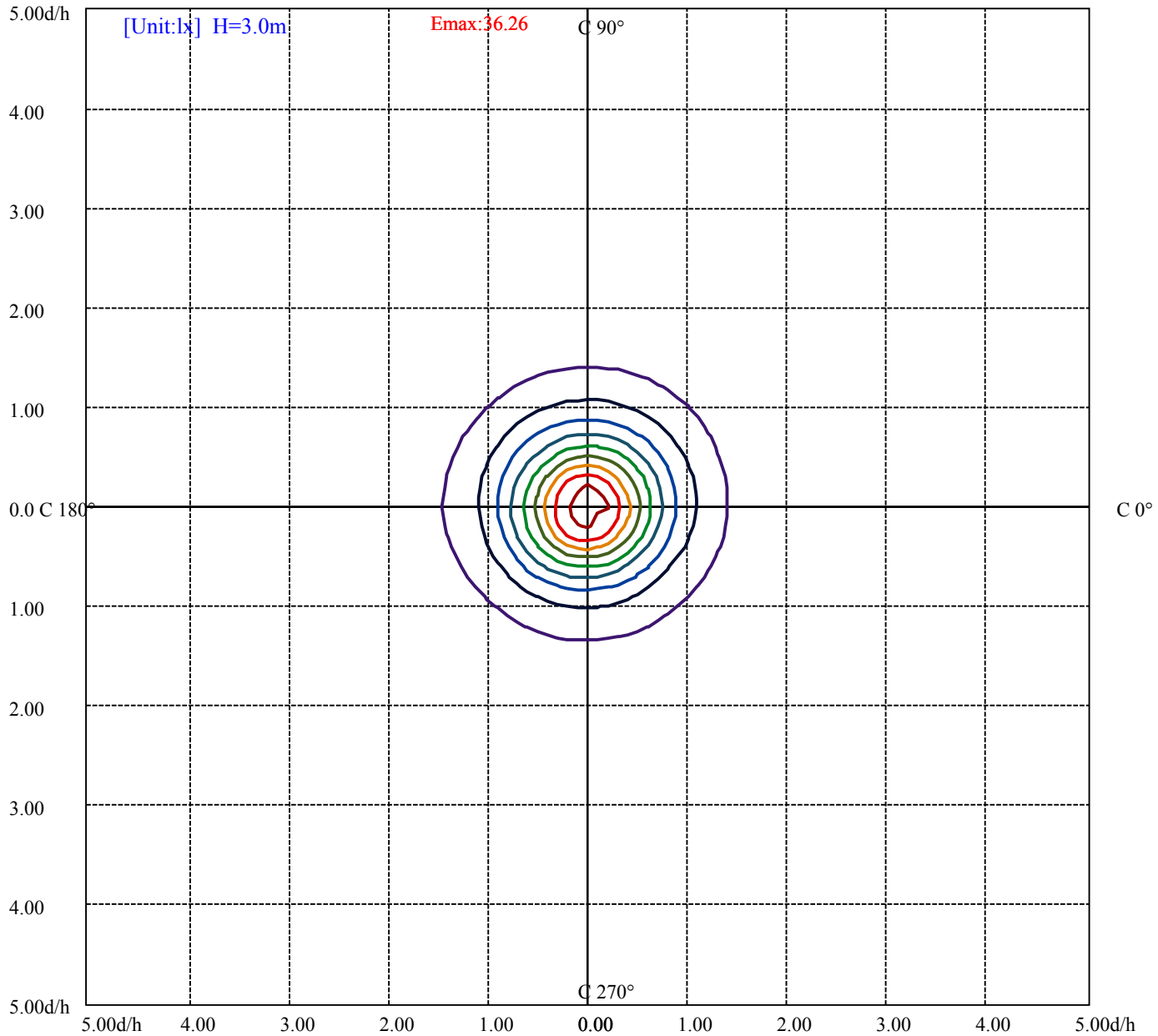
(50%Imax) 168.724

(60%Imax) 202.468

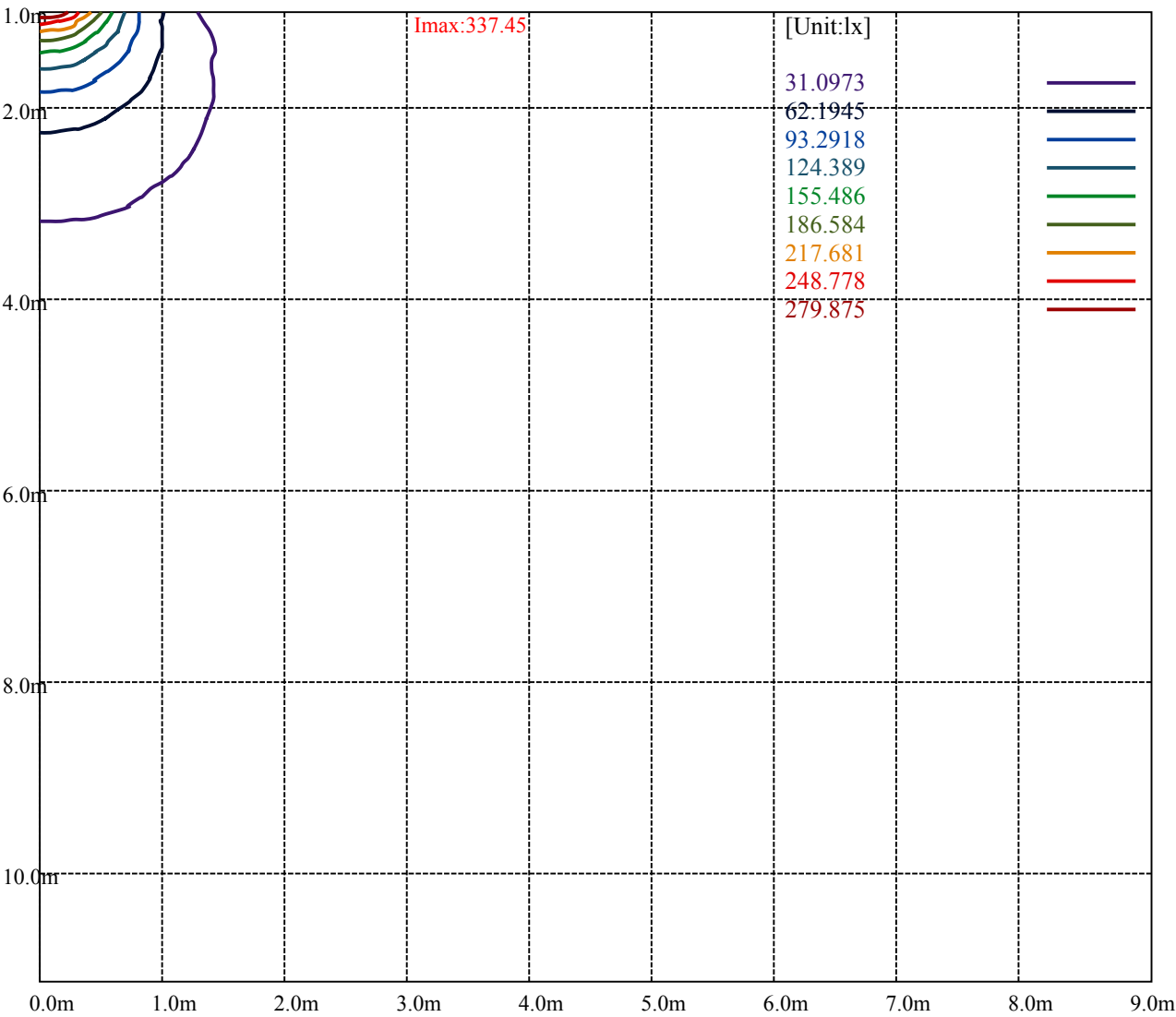
(70%Imax) 236.213

(80%Imax) 269.958

(90%Imax) 303.703



|                    |   |
|--------------------|---|
| (10%Emax) 3.626333 | — |
| (20%Emax) 7.252678 | — |
| (30%Emax) 10.87901 | — |
| (40%Emax) 14.50533 | — |
| (50%Emax) 18.13167 | — |
| (60%Emax) 21.758   | — |
| (70%Emax) 25.38433 | — |
| (80%Emax) 29.01067 | — |
| (90%Emax) 32.637   | — |



Luminance Table

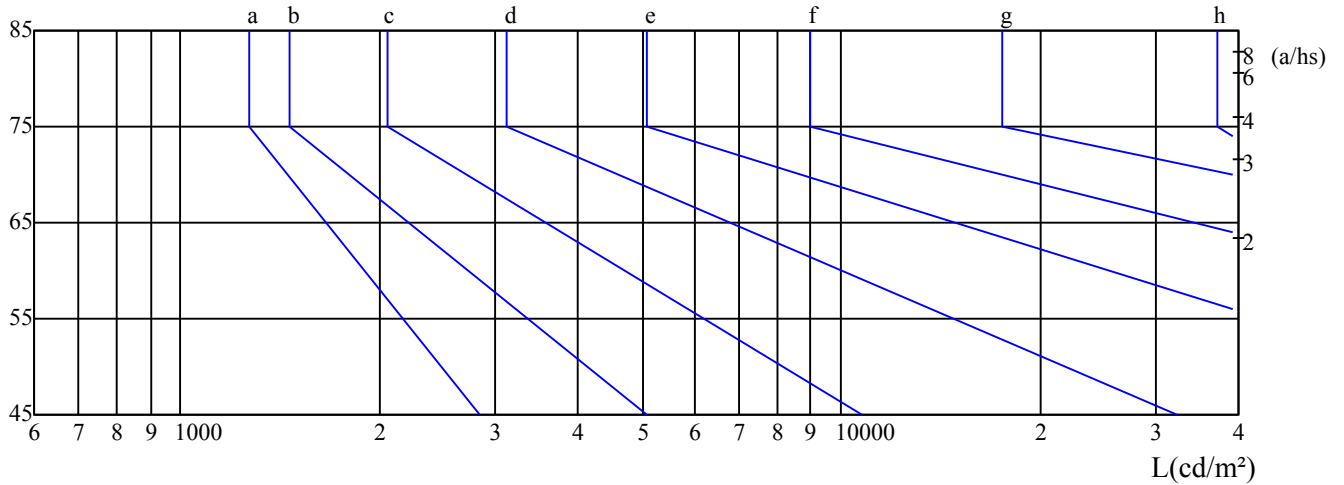
| $\gamma$ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|----|----|----|----|----|----|----|----|----|
| C0       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| C45      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| C90      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |

| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 0          | 0          | 0       | 0          | 0          | 0       | 0          | 0          | 0       |

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          |

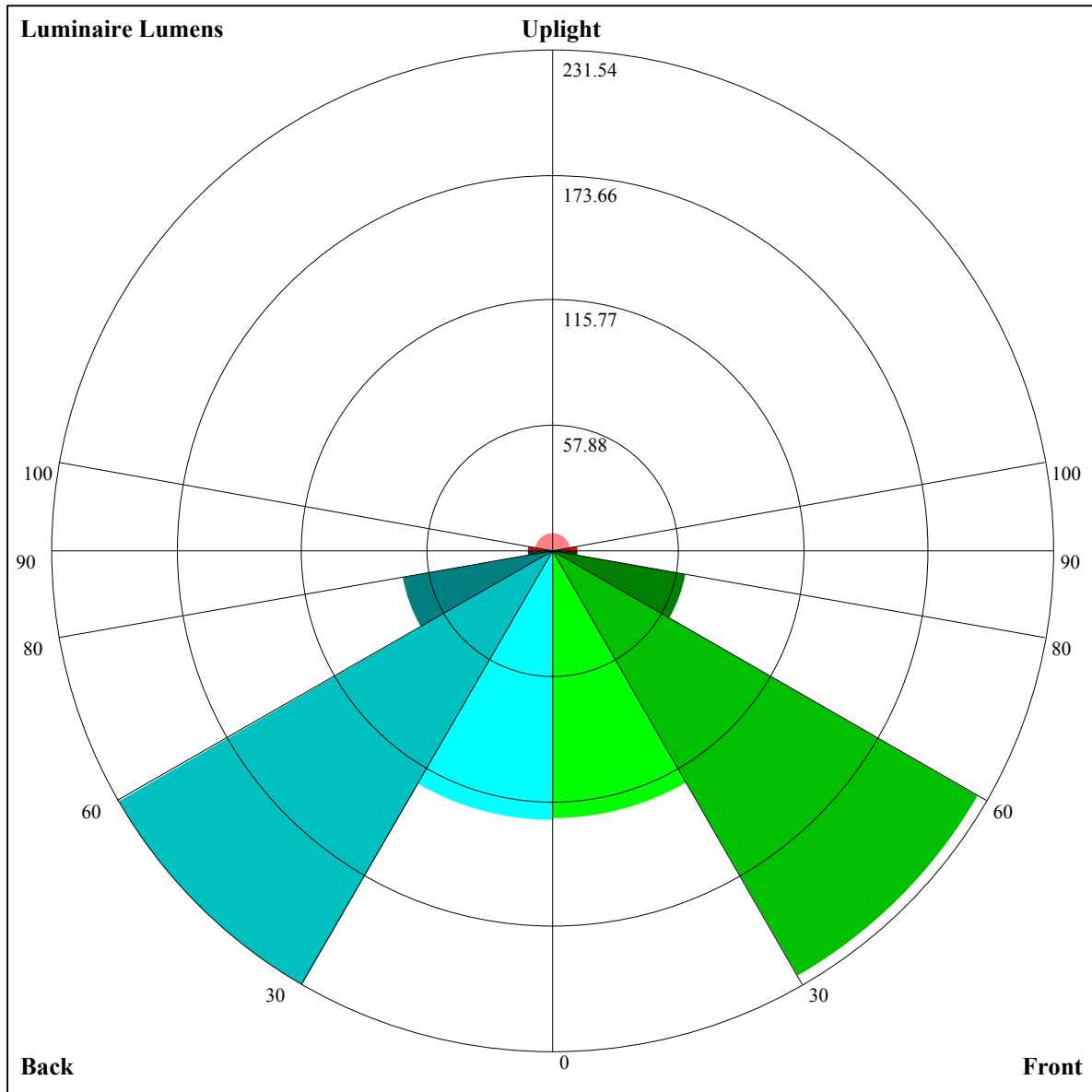
Luminance Limiting Curve

 $\gamma(^{\circ})$ 

C0 ———

C45 ———

C90 ———



Luminaire Lumens:

FL=124.23,FM=226.85,FH=62.9,FVH=12.02

BL=124.83,BM=231.54,BH=70.4,BVH=11.57

UL=11.53,UH=8.45

BUG Rating:B1-U2-G1

## LIT by CARDI

| Intensity data(cd) |        |        |        |        |        |        |        |        | Appendix Page: 12 Total:12 |  |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------------|--|
| C/γ(°)             | 0.0    | 5.0    | 10.0   | 15.0   | 20.0   | 25.0   | 30.0   | 35.0   | 40.0                       |  |
| 0.0                | 310.97 | 310.97 | 313.49 | 310.97 | 295.84 | 292.06 | 279.03 | 256.34 | 242.89                     |  |
| 45.0               | 323.58 | 319.80 | 311.39 | 304.67 | 290.80 | 280.30 | 275.25 | 257.18 | 239.95                     |  |
| 90.0               | 337.45 | 328.20 | 323.58 | 303.83 | 301.31 | 285.34 | 264.33 | 253.82 | 223.14                     |  |
| 135.0              | 316.44 | 313.07 | 304.67 | 309.71 | 297.53 | 280.30 | 262.65 | 251.30 | 243.74                     |  |
| 180.0              | 310.97 | 323.58 | 307.19 | 301.31 | 306.77 | 289.12 | 272.73 | 272.73 | 250.04                     |  |
| 225.0              | 323.58 | 316.44 | 309.71 | 313.91 | 310.97 | 291.64 | 270.63 | 268.11 | 236.17                     |  |
| 270.0              | 337.45 | 334.51 | 311.81 | 322.32 | 308.03 | 282.82 | 263.49 | 242.47 | 211.38                     |  |
| 315.0              | 316.44 | 313.91 | 286.60 | 315.60 | 299.21 | 276.09 | 273.57 | 238.27 | 226.09                     |  |
| 360.0              | 310.97 | 310.97 | 313.49 | 310.97 | 295.84 | 292.06 | 279.03 | 256.34 | 242.89                     |  |
| C/γ(°)             | 45.0   | 50.0   | 55.0   | 60.0   | 65.0   | 70.0   | 75.0   | 80.0   | 85.0                       |  |
| 0.0                | 210.12 | 208.86 | 158.43 | 128.59 | 102.54 | 55.05  | 20.17  | 18.49  | 1.26                       |  |
| 45.0               | 223.98 | 197.93 | 170.61 | 121.03 | 84.89  | 62.61  | 35.30  | 22.27  | 16.39                      |  |
| 90.0               | 218.10 | 183.22 | 163.89 | 131.95 | 94.55  | 53.79  | 45.39  | 25.63  | 35.30                      |  |
| 135.0              | 223.98 | 195.41 | 166.83 | 136.58 | 118.93 | 70.60  | 41.18  | 13.87  | 11.35                      |  |
| 180.0              | 215.58 | 204.23 | 179.86 | 151.28 | 107.58 | 65.14  | 34.88  | 8.40   | 4.62                       |  |
| 225.0              | 208.02 | 173.14 | 150.86 | 130.27 | 90.77  | 71.02  | 38.66  | 29.42  | 13.45                      |  |
| 270.0              | 189.95 | 157.17 | 149.18 | 102.96 | 68.50  | 55.05  | 53.37  | 43.70  | 44.12                      |  |
| 315.0              | 184.90 | 177.34 | 141.20 | 119.77 | 68.92  | 43.70  | 37.40  | 18.07  | 18.07                      |  |
| 360.0              | 210.12 | 208.86 | 158.43 | 128.59 | 102.54 | 55.05  | 20.17  | 18.49  | 1.26                       |  |
| 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   | 5.04   | 5.04                       |  |
| 45.0               | 10.51  | 11.35  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.42   | 0.00                       |  |
| 90.0               | 30.26  | 18.49  | 18.07  | 2.94   | 0.00   | 9.67   | 7.98   | 4.62   | 0.00                       |  |
| 135.0              | 8.82   | 7.98   | 14.71  | 0.00   | 0.00   | 0.00   | 0.00   | 2.52   | 0.00                       |  |
| 180.0              | 0.00   | 8.40   | 9.25   | 0.00   | 6.72   | 9.67   | 0.00   | 0.00   | 0.00                       |  |
| 225.0              | 20.59  | 8.82   | 0.42   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                       |  |
| 270.0              | 26.05  | 25.63  | 13.03  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                       |  |
| 315.0              | 15.55  | 4.62   | 0.00   | 0.00   | 2.10   | 0.00   | 7.14   | 0.00   | 0.00                       |  |
| 360.0              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 5.04   | 5.04                       |  |
| 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   | 7.14   | 15.55  | 0.00                       |  |
| 45.0               | 0.00   | 0.00   | 0.00   | 11.35  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                       |  |
| 90.0               | 0.00   | 0.00   | 3.36   | 0.00   | 0.00   | 0.00   | 4.20   | 5.46   | 0.00                       |  |
| 135.0              | 0.00   | 0.00   | 0.00   | 0.00   | 4.20   | 10.09  | 0.00   | 0.00   | 0.00                       |  |
| 180.0              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 1.68   | 0.00   | 0.00   | 0.00                       |  |
| 225.0              | 7.98   | 0.00   | 0.00   | 8.40   | 2.52   | 0.00   | 0.00   | 0.84   | 0.00                       |  |
| 270.0              | 0.00   | 0.00   | 0.00   | 6.72   | 0.00   | 0.00   | 0.00   | 15.13  | 0.00                       |  |
| 315.0              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 5.88   | 8.82   | 0.00                       |  |
| 360.0              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 7.14   | 15.55  | 0.00                       |  |
| C/γ(°)             | 180.0  |        |        |        |        |        |        |        |                            |  |
| 0.0                | 0.00   |        |        |        |        |        |        |        |                            |  |
| 45.0               | 0.00   |        |        |        |        |        |        |        |                            |  |
| 90.0               | 0.00   |        |        |        |        |        |        |        |                            |  |
| 135.0              | 7.56   |        |        |        |        |        |        |        |                            |  |
| 180.0              | 0.00   |        |        |        |        |        |        |        |                            |  |
| 225.0              | 0.00   |        |        |        |        |        |        |        |                            |  |
| 270.0              | 0.00   |        |        |        |        |        |        |        |                            |  |
| 315.0              | 7.56   |        |        |        |        |        |        |        |                            |  |
| 360.0              | 0.00   |        |        |        |        |        |        |        |                            |  |