

|                 |   |                                |   |                 |
|-----------------|---|--------------------------------|---|-----------------|
| Report No       | : | Voltage                        | : | V               |
| Test No         | : | Current                        | : | A               |
| LumCAT          | : | Power                          | : | 33.000 W        |
| Luminaire       | : | 0003010030 33W 3000K 4290lm PF | : |                 |
| LampCAT         | : | Ballast type                   | : |                 |
| Lamp flux       | : | 4290.0 lm                      | : | Width : 348 mm  |
| Number of Lamps | : | 1                              | : | Length : 348 mm |
| Phm Type        | : | C                              | : | Height : 0 mm   |

### Photometric Results

|                                          |   |                                          |                            |   |                      |
|------------------------------------------|---|------------------------------------------|----------------------------|---|----------------------|
| Lumens(lm)                               | : | 4290.00                                  | Central intensity(cd)      | : | 792.181              |
| Efficiency(%)                            | : | 100.00%                                  | Maximum intensity(cd)      | : | 1566.178             |
| Luminous Efficacy(lm/W)                  | : | 130.00                                   | Angle of maximum intensity | : | C=0.0 $\gamma$ =57.0 |
| Beam Angle(50%Imax)                      | : | [C0/180]Total=130.4 [C90/270]Total=136.8 |                            |   |                      |
| Field angle(10%Imax)                     | : | [C0/180]Total=140.0 [C90/270]Total=147.0 |                            |   |                      |
| Maximum s/h(1/2)                         | : | C0_180=2.22 C90_270=2.31                 |                            |   |                      |
| Maximum s/h(1/4)                         | : | C0_180=2.39 C90_270=2.21                 |                            |   |                      |
| Up flux rate of lamp(%)                  | : | 0.12%                                    |                            |   |                      |
| Down flux rate of lamp(%)                | : | 99.88%                                   |                            |   |                      |
| Up flux rate of LUM(%)                   | : | 0.12%                                    |                            |   |                      |
| Down flux rate of LUM(%)                 | : | 99.88%                                   |                            |   |                      |
| CIE Type                                 | : | Direct lighting                          |                            |   |                      |
| Output flux ratio in $\pi$ solid angle : | : | 79.439%                                  |                            |   |                      |

## Zonal flux distribution table

Appendix Page: 2 Total:21

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0                | 792.181       | 0.000       | 0         | 0.00%       | 0.00%      |
| 1.0                | 792.181       | 0.758       | 0.758     | 0.02%       | 0.02%      |
| 2.0                | 794.557       | 2.277       | 3.036     | 0.05%       | 0.07%      |
| 3.0                | 794.262       | 3.800       | 6.835     | 0.09%       | 0.16%      |
| 4.0                | 793.909       | 5.316       | 12.152    | 0.12%       | 0.28%      |
| 5.0                | 794.174       | 6.832       | 18.983    | 0.16%       | 0.44%      |
| 6.0                | 793.319       | 8.343       | 27.326    | 0.19%       | 0.64%      |
| 7.0                | 789.133       | 9.822       | 37.148    | 0.23%       | 0.87%      |
| 8.0                | 786.804       | 11.279      | 48.427    | 0.26%       | 1.13%      |
| 9.0                | 785.005       | 12.739      | 61.166    | 0.30%       | 1.43%      |
| 10.0               | 778.519       | 14.149      | 75.315    | 0.33%       | 1.76%      |
| 11.0               | 774.451       | 15.517      | 90.832    | 0.36%       | 2.12%      |
| 12.0               | 769.055       | 16.873      | 107.705   | 0.39%       | 2.51%      |
| 13.0               | 763.366       | 18.186      | 125.891   | 0.42%       | 2.93%      |
| 14.0               | 759.209       | 19.489      | 145.38    | 0.45%       | 3.39%      |
| 15.0               | 755.995       | 20.801      | 166.181   | 0.48%       | 3.87%      |
| 16.0               | 751.603       | 22.091      | 188.272   | 0.51%       | 4.39%      |
| 17.0               | 750.688       | 23.395      | 211.667   | 0.55%       | 4.93%      |
| 18.0               | 754.403       | 24.816      | 236.482   | 0.58%       | 5.51%      |
| 19.0               | 757.204       | 26.299      | 262.781   | 0.61%       | 6.13%      |
| 20.0               | 765.016       | 27.861      | 290.642   | 0.65%       | 6.77%      |
| 21.0               | 774.863       | 29.569      | 320.211   | 0.69%       | 7.46%      |
| 22.0               | 784.652       | 31.339      | 351.55    | 0.73%       | 8.19%      |
| 23.0               | 795.235       | 33.150      | 384.7     | 0.77%       | 8.97%      |
| 24.0               | 812.924       | 35.160      | 419.86    | 0.82%       | 9.79%      |
| 25.0               | 831.557       | 37.392      | 457.252   | 0.87%       | 10.66%     |
| 26.0               | 846.828       | 39.618      | 496.871   | 0.92%       | 11.58%     |
| 27.0               | 869.204       | 41.983      | 538.854   | 0.98%       | 12.56%     |
| 28.0               | 896.947       | 44.715      | 583.569   | 1.04%       | 13.60%     |
| 29.0               | 921.800       | 47.584      | 631.153   | 1.11%       | 14.71%     |
| 30.0               | 944.235       | 50.383      | 681.535   | 1.17%       | 15.89%     |
| 31.0               | 966.464       | 53.172      | 734.707   | 1.24%       | 17.13%     |
| 32.0               | 983.505       | 55.864      | 790.571   | 1.30%       | 18.43%     |
| 33.0               | 996.506       | 58.332      | 848.903   | 1.36%       | 19.79%     |
| 34.0               | 1015.168      | 60.879      | 909.782   | 1.42%       | 21.21%     |
| 35.0               | 1034.154      | 63.644      | 973.427   | 1.48%       | 22.69%     |
| 36.0               | 1044.708      | 66.191      | 1039.618  | 1.54%       | 24.23%     |
| 37.0               | 1055.616      | 68.501      | 1108.119  | 1.60%       | 25.83%     |

Equipment: GMS-1800  
Temperature( $^{\circ}\text{C}$ ): 24.8

Date:  
Humidity(%): 56%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 3 Total:21

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0               | 1072.863      | 71.046      | 1179.165  | 1.66%       | 27.49%     |
| 39.0               | 1087.014      | 73.723      | 1252.887  | 1.72%       | 29.20%     |
| 40.0               | 1104.113      | 76.419      | 1329.306  | 1.78%       | 30.99%     |
| 41.0               | 1118.383      | 79.142      | 1408.448  | 1.84%       | 32.83%     |
| 42.0               | 1137.103      | 81.946      | 1490.394  | 1.91%       | 34.74%     |
| 43.0               | 1155.913      | 84.940      | 1575.334  | 1.98%       | 36.72%     |
| 44.0               | 1173.602      | 87.922      | 1663.256  | 2.05%       | 38.77%     |
| 45.0               | 1190.936      | 90.872      | 1754.128  | 2.12%       | 40.89%     |
| 46.0               | 1207.800      | 93.809      | 1847.937  | 2.19%       | 43.08%     |
| 47.0               | 1221.568      | 96.622      | 1944.56   | 2.25%       | 45.33%     |
| 48.0               | 1238.933      | 99.466      | 2044.026  | 2.32%       | 47.65%     |
| 49.0               | 1256.976      | 102.496     | 2146.522  | 2.39%       | 50.04%     |
| 50.0               | 1273.043      | 105.485     | 2252.007  | 2.46%       | 52.49%     |
| 51.0               | 1287.105      | 108.316     | 2360.323  | 2.52%       | 55.02%     |
| 52.0               | 1297.984      | 110.928     | 2471.251  | 2.59%       | 57.60%     |
| 53.0               | 1308.008      | 113.360     | 2584.611  | 2.64%       | 60.25%     |
| 54.0               | 1314.199      | 115.576     | 2700.187  | 2.69%       | 62.94%     |
| 55.0               | 1312.784      | 117.264     | 2817.451  | 2.73%       | 65.67%     |
| 56.0               | 1307.065      | 118.384     | 2935.835  | 2.76%       | 68.43%     |
| 57.0               | 1297.453      | 119.085     | 3054.92   | 2.78%       | 71.21%     |
| 58.0               | 1277.023      | 119.053     | 3173.972  | 2.78%       | 73.99%     |
| 59.0               | 1248.927      | 118.090     | 3292.062  | 2.75%       | 76.74%     |
| 60.0               | 1203.348      | 115.854     | 3407.916  | 2.70%       | 79.44%     |
| 61.0               | 1143.737      | 112.008     | 3519.924  | 2.61%       | 82.05%     |
| 62.0               | 1073.600      | 106.844     | 3626.768  | 2.49%       | 84.54%     |
| 63.0               | 985.273       | 100.134     | 3726.902  | 2.33%       | 86.87%     |
| 64.0               | 897.890       | 92.406      | 3819.308  | 2.15%       | 89.03%     |
| 65.0               | 803.048       | 84.178      | 3903.486  | 1.96%       | 90.99%     |
| 66.0               | 701.838       | 75.084      | 3978.57   | 1.75%       | 92.74%     |
| 67.0               | 592.284       | 65.072      | 4043.642  | 1.52%       | 94.26%     |
| 68.0               | 491.900       | 54.921      | 4098.563  | 1.28%       | 95.54%     |
| 69.0               | 391.869       | 45.086      | 4143.649  | 1.05%       | 96.59%     |
| 70.0               | 286.796       | 34.855      | 4178.504  | 0.81%       | 97.40%     |
| 71.0               | 210.940       | 25.726      | 4204.23   | 0.60%       | 98.00%     |
| 72.0               | 156.871       | 19.125      | 4223.355  | 0.45%       | 98.45%     |
| 73.0               | 101.269       | 13.499      | 4236.854  | 0.31%       | 98.76%     |
| 74.0               | 71.906        | 9.104       | 4245.958  | 0.21%       | 98.97%     |
| 75.0               | 53.480        | 6.625       | 4252.583  | 0.15%       | 99.13%     |

Equipment: GMS-1800  
Temperature( $^{\circ}\text{C}$ ): 24.8

Date:  
Humidity(%): 56%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 4 Total:21

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0               | 42.218        | 5.080       | 4257.663  | 0.12%       | 99.25%     |
| 77.0               | 34.611        | 4.096       | 4261.759  | 0.10%       | 99.34%     |
| 78.0               | 30.484        | 3.485       | 4265.244  | 0.08%       | 99.42%     |
| 79.0               | 27.153        | 3.097       | 4268.34   | 0.07%       | 99.50%     |
| 80.0               | 23.644        | 2.739       | 4271.079  | 0.06%       | 99.56%     |
| 81.0               | 20.873        | 2.407       | 4273.486  | 0.06%       | 99.62%     |
| 82.0               | 18.455        | 2.133       | 4275.619  | 0.05%       | 99.66%     |
| 83.0               | 15.949        | 1.870       | 4277.489  | 0.04%       | 99.71%     |
| 84.0               | 13.650        | 1.612       | 4279.102  | 0.04%       | 99.75%     |
| 85.0               | 11.940        | 1.397       | 4280.498  | 0.03%       | 99.78%     |
| 86.0               | 10.112        | 1.205       | 4281.704  | 0.03%       | 99.81%     |
| 87.0               | 8.314         | 1.008       | 4282.712  | 0.02%       | 99.83%     |
| 88.0               | 6.840         | 0.830       | 4283.542  | 0.02%       | 99.85%     |
| 89.0               | 5.602         | 0.682       | 4284.224  | 0.02%       | 99.87%     |
| 90.0               | 4.393         | 0.548       | 4284.772  | 0.01%       | 99.88%     |
| 91.0               | 3.685         | 0.443       | 4285.215  | 0.01%       | 99.89%     |
| 92.0               | 3.007         | 0.367       | 4285.582  | 0.01%       | 99.90%     |
| 93.0               | 2.683         | 0.312       | 4285.894  | 0.01%       | 99.90%     |
| 94.0               | 2.476         | 0.282       | 4286.176  | 0.01%       | 99.91%     |
| 95.0               | 2.358         | 0.264       | 4286.44   | 0.01%       | 99.92%     |
| 96.0               | 2.300         | 0.254       | 4286.694  | 0.01%       | 99.92%     |
| 97.0               | 2.152         | 0.243       | 4286.937  | 0.01%       | 99.93%     |
| 98.0               | 2.034         | 0.228       | 4287.165  | 0.01%       | 99.93%     |
| 99.0               | 1.946         | 0.216       | 4287.38   | 0.01%       | 99.94%     |
| 100.0              | 1.916         | 0.209       | 4287.589  | 0.00%       | 99.94%     |
| 101.0              | 1.710         | 0.195       | 4287.785  | 0.00%       | 99.95%     |
| 102.0              | 1.563         | 0.176       | 4287.961  | 0.00%       | 99.95%     |
| 103.0              | 1.474         | 0.163       | 4288.123  | 0.00%       | 99.96%     |
| 104.0              | 1.297         | 0.148       | 4288.271  | 0.00%       | 99.96%     |
| 105.0              | 1.179         | 0.131       | 4288.402  | 0.00%       | 99.96%     |
| 106.0              | 1.091         | 0.120       | 4288.522  | 0.00%       | 99.97%     |
| 107.0              | 1.061         | 0.113       | 4288.635  | 0.00%       | 99.97%     |
| 108.0              | 0.972         | 0.106       | 4288.742  | 0.00%       | 99.97%     |
| 109.0              | 0.825         | 0.093       | 4288.835  | 0.00%       | 99.97%     |
| 110.0              | 0.796         | 0.084       | 4288.919  | 0.00%       | 99.97%     |
| 111.0              | 0.707         | 0.077       | 4288.996  | 0.00%       | 99.98%     |
| 112.0              | 0.678         | 0.071       | 4289.067  | 0.00%       | 99.98%     |
| 113.0              | 0.560         | 0.063       | 4289.129  | 0.00%       | 99.98%     |

Equipment: GMS-1800  
Temperature( $^{\circ}\text{C}$ ): 24.8

Date:  
Humidity(%): 56%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 5 Total:21

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 114.0              | 0.501         | 0.053       | 4289.183  | 0.00%       | 99.98%     |
| 115.0              | 0.471         | 0.048       | 4289.231  | 0.00%       | 99.98%     |
| 116.0              | 0.471         | 0.047       | 4289.278  | 0.00%       | 99.98%     |
| 117.0              | 0.412         | 0.043       | 4289.321  | 0.00%       | 99.98%     |
| 118.0              | 0.412         | 0.040       | 4289.361  | 0.00%       | 99.99%     |
| 119.0              | 0.383         | 0.038       | 4289.4    | 0.00%       | 99.99%     |
| 120.0              | 0.383         | 0.037       | 4289.436  | 0.00%       | 99.99%     |
| 121.0              | 0.353         | 0.035       | 4289.471  | 0.00%       | 99.99%     |
| 122.0              | 0.353         | 0.033       | 4289.504  | 0.00%       | 99.99%     |
| 123.0              | 0.353         | 0.033       | 4289.537  | 0.00%       | 99.99%     |
| 124.0              | 0.353         | 0.032       | 4289.569  | 0.00%       | 99.99%     |
| 125.0              | 0.353         | 0.032       | 4289.601  | 0.00%       | 99.99%     |
| 126.0              | 0.353         | 0.032       | 4289.632  | 0.00%       | 99.99%     |
| 127.0              | 0.353         | 0.031       | 4289.663  | 0.00%       | 99.99%     |
| 128.0              | 0.353         | 0.031       | 4289.694  | 0.00%       | 99.99%     |
| 129.0              | 0.324         | 0.029       | 4289.723  | 0.00%       | 99.99%     |
| 130.0              | 0.324         | 0.027       | 4289.751  | 0.00%       | 99.99%     |
| 131.0              | 0.324         | 0.027       | 4289.778  | 0.00%       | 99.99%     |
| 132.0              | 0.324         | 0.027       | 4289.804  | 0.00%       | 100.00%    |
| 133.0              | 0.265         | 0.024       | 4289.828  | 0.00%       | 100.00%    |
| 134.0              | 0.265         | 0.021       | 4289.849  | 0.00%       | 100.00%    |
| 135.0              | 0.294         | 0.022       | 4289.871  | 0.00%       | 100.00%    |
| 136.0              | 0.324         | 0.024       | 4289.895  | 0.00%       | 100.00%    |
| 137.0              | 0.324         | 0.024       | 4289.919  | 0.00%       | 100.00%    |
| 138.0              | 0.294         | 0.023       | 4289.942  | 0.00%       | 100.00%    |
| 139.0              | 0.206         | 0.018       | 4289.96   | 0.00%       | 100.00%    |
| 140.0              | 0.206         | 0.015       | 4289.975  | 0.00%       | 100.00%    |
| 141.0              | 0.147         | 0.012       | 4289.987  | 0.00%       | 100.00%    |
| 142.0              | 0.088         | 0.008       | 4289.995  | 0.00%       | 100.00%    |
| 143.0              | 0.030         | 0.004       | 4289.999  | 0.00%       | 100.00%    |
| 144.0              | 0.030         | 0.002       | 4290.001  | 0.00%       | 100.00%    |
| 145.0              | 0.000         | 0.001       | 4290.002  | 0.00%       | 100.00%    |
| 146.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 147.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 148.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 149.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 150.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 151.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |

Equipment: GMS-1800  
Temperature( $^{\circ}\text{C}$ ): 24.8

Date:  
Humidity(%): 56%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 6 Total:21

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 152.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 153.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 154.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 155.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 156.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 157.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 158.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 159.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 160.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 161.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 162.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 163.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 164.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 165.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 166.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 167.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 168.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 169.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 170.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 171.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 172.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 173.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 174.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 175.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 176.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 177.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 178.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 179.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |
| 180.0              | 0.000         | 0.000       | 4290.002  | 0.00%       | 100.00%    |

Equipment: GMS-1800  
Temperature( $^{\circ}\text{C}$ ): 24.8

Date:  
Humidity(%): 56%

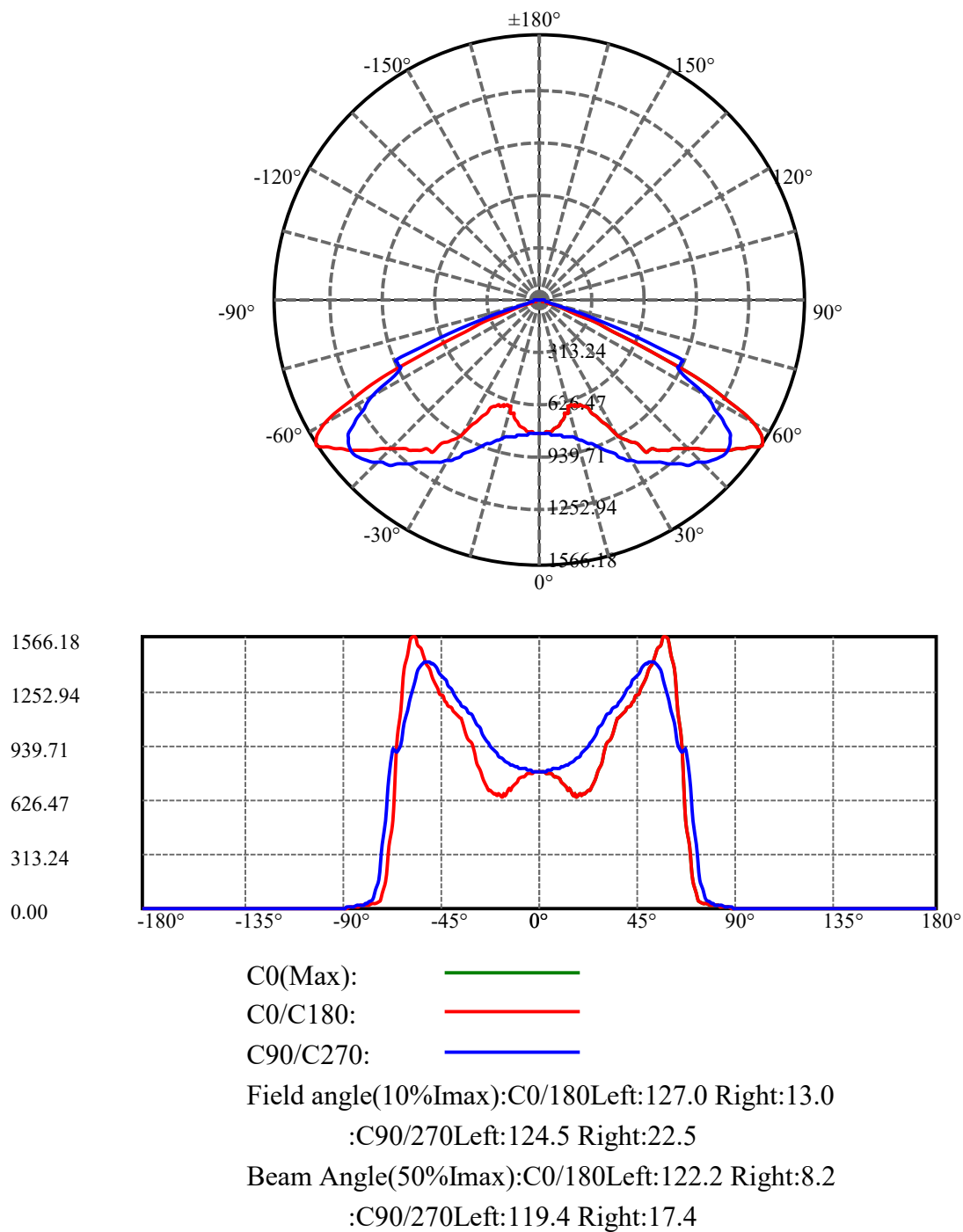
Operator: LSC

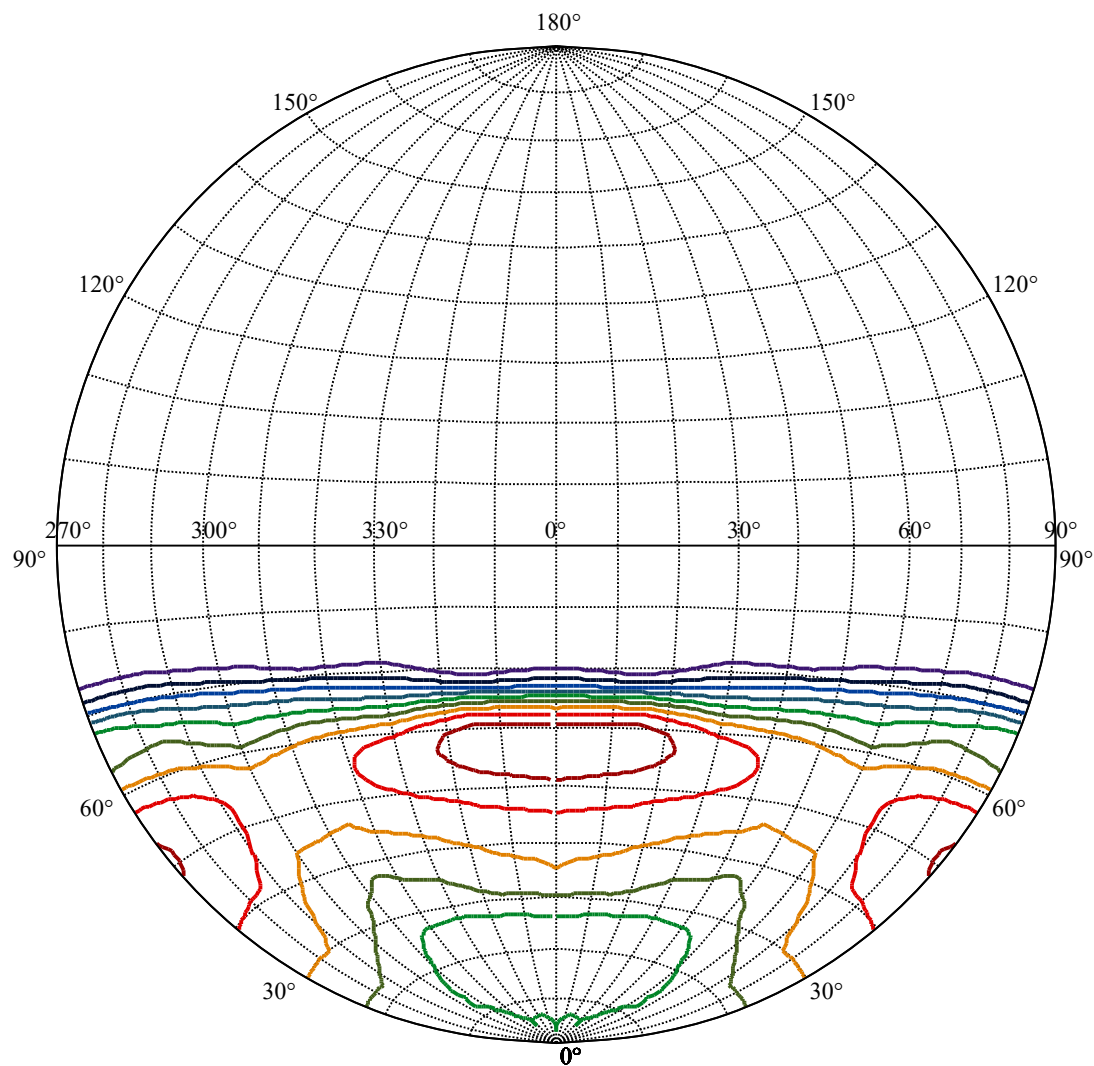
## ZONAL LUMEN SUMMARY

| Zone    | Lumens  | %Lamp   | %Fixt   |
|---------|---------|---------|---------|
| 0-30    | 681.54  | 15.89%  | 15.89%  |
| 0-40    | 1329.31 | 30.99%  | 30.99%  |
| 0-60    | 3407.92 | 79.44%  | 79.44%  |
| 0-90    | 4284.77 | 99.88%  | 99.88%  |
| 0-120   | 4289.44 | 99.99%  | 99.99%  |
| 0-180   | 4290.00 | 100.00% | 100.00% |
| 60-90   | 876.86  | 20.44%  | 20.44%  |
| 90-120  | 4.66    | 0.11%   | 0.11%   |
| 90-130  | 4.98    | 0.12%   | 0.12%   |
| 90-150  | 5.23    | 0.12%   | 0.12%   |
| 90-180  | 5.23    | 0.12%   | 0.12%   |
| 0-60.22 | 3432.00 | 80.00%  | 80.00%  |

## ZONAL LUMEN SUMMARY

|         |         |
|---------|---------|
| 0-10    | 75.32   |
| 10-20   | 215.33  |
| 20-30   | 390.89  |
| 30-40   | 647.77  |
| 40-50   | 922.70  |
| 50-60   | 1155.91 |
| 60-70   | 770.59  |
| 70-80   | 92.57   |
| 80-90   | 13.69   |
| 90-100  | 2.82    |
| 100-110 | 1.33    |
| 110-120 | 0.52    |
| 120-130 | 0.31    |
| 130-140 | 0.22    |
| 140-150 | 0.03    |
| 150-160 | 0.00    |
| 160-170 | 0.00    |
| 170-180 | 0.00    |



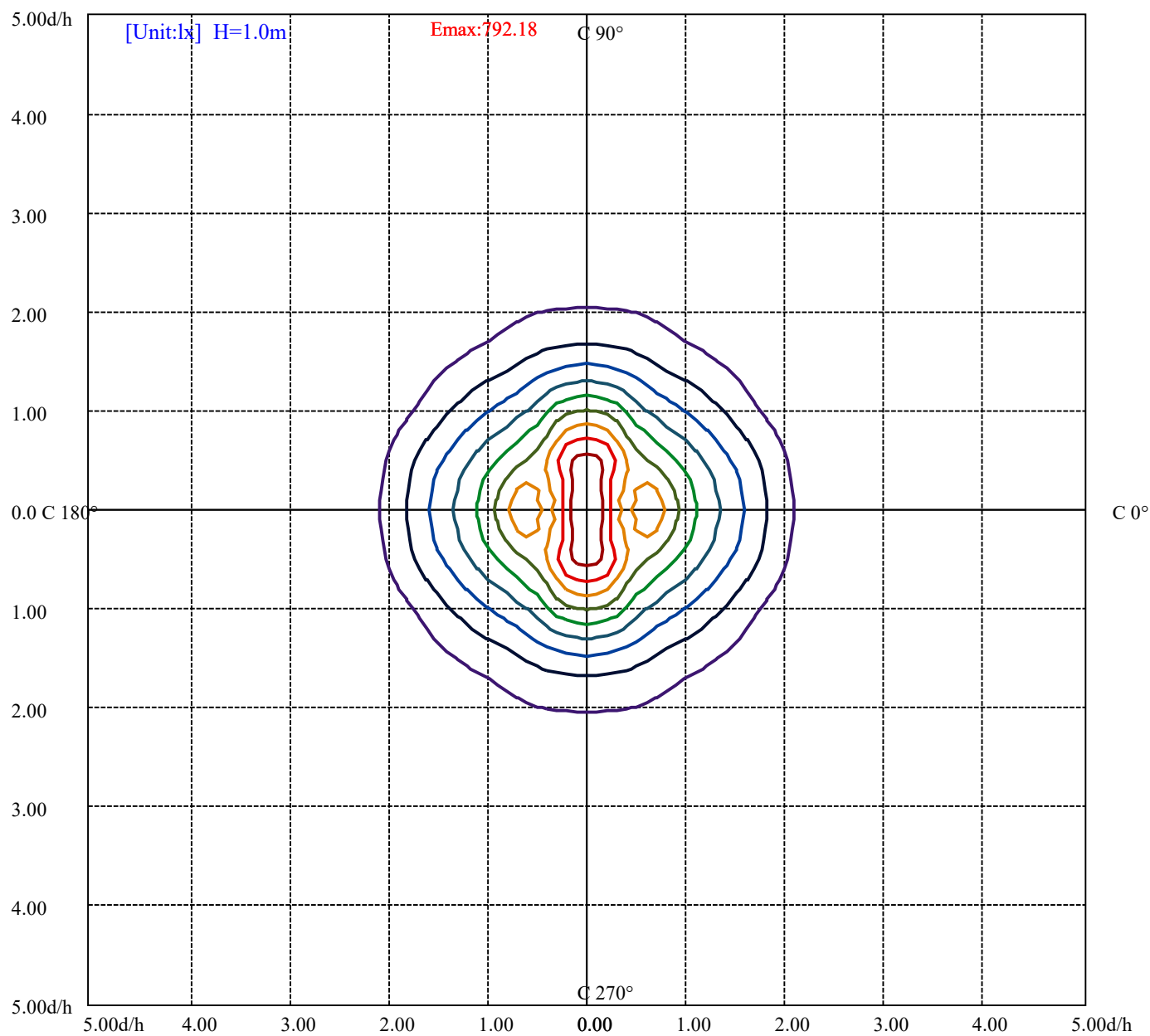


House

[Unit:cd]

Road

|                                |  |
|--------------------------------|--|
| I <sub>max</sub> :1566.18      |  |
| (10%I <sub>max</sub> ) 156.618 |  |
| (20%I <sub>max</sub> ) 313.236 |  |
| (30%I <sub>max</sub> ) 469.853 |  |
| (40%I <sub>max</sub> ) 626.471 |  |
| (50%I <sub>max</sub> ) 783.089 |  |
| (60%I <sub>max</sub> ) 939.707 |  |
| (70%I <sub>max</sub> ) 1096.32 |  |
| (80%I <sub>max</sub> ) 1252.94 |  |
| (90%I <sub>max</sub> ) 1409.56 |  |



|           |         |  |
|-----------|---------|--|
| (10%Emax) | 79.2181 |  |
| (20%Emax) | 158.436 |  |
| (30%Emax) | 237.654 |  |
| (40%Emax) | 316.872 |  |
| (50%Emax) | 396.091 |  |
| (60%Emax) | 475.309 |  |
| (70%Emax) | 554.527 |  |
| (80%Emax) | 633.745 |  |
| (90%Emax) | 712.963 |  |

## Intensity data(cd)

Appendix Page: 11 Total:21

| C/γ(°) | 0.0    | 1.0    | 2.0    | 3.0    | 4.0    | 5.0    | 6.0    | 7.0    | 8.0    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0    | 792.18 | 792.18 | 787.51 | 781.14 | 781.85 | 781.14 | 772.30 | 761.33 | 755.32 |
| 15.0   | 792.18 | 792.18 | 794.06 | 796.36 | 796.36 | 795.29 | 788.57 | 781.85 | 774.24 |
| 30.0   | 792.18 | 792.18 | 789.81 | 788.40 | 784.86 | 782.38 | 782.91 | 772.30 | 772.12 |
| 45.0   | 792.18 | 792.18 | 801.13 | 800.96 | 799.01 | 799.72 | 801.31 | 796.89 | 786.27 |
| 60.0   | 792.18 | 792.18 | 788.57 | 788.40 | 789.46 | 790.87 | 791.58 | 789.81 | 793.35 |
| 75.0   | 792.18 | 792.18 | 805.38 | 805.55 | 806.26 | 806.62 | 808.03 | 810.68 | 812.81 |
| 90.0   | 792.18 | 792.18 | 789.28 | 790.70 | 793.17 | 799.19 | 802.72 | 805.20 | 808.74 |
| 105.0  | 792.18 | 792.18 | 805.38 | 805.55 | 806.26 | 806.62 | 808.03 | 810.68 | 812.81 |
| 120.0  | 792.18 | 792.18 | 788.57 | 788.40 | 789.46 | 790.87 | 791.58 | 789.81 | 793.35 |
| 135.0  | 792.18 | 792.18 | 801.13 | 800.96 | 799.01 | 799.72 | 801.31 | 796.89 | 786.27 |
| 150.0  | 792.18 | 792.18 | 789.81 | 788.40 | 784.86 | 782.38 | 782.91 | 772.30 | 772.12 |
| 165.0  | 792.18 | 792.18 | 794.06 | 796.36 | 796.36 | 795.29 | 788.57 | 781.85 | 774.24 |
| 180.0  | 792.18 | 792.18 | 787.51 | 781.14 | 781.85 | 781.14 | 772.30 | 761.33 | 755.32 |
| 195.0  | 792.18 | 792.18 | 794.06 | 796.36 | 796.36 | 795.29 | 788.57 | 781.85 | 774.24 |
| 210.0  | 792.18 | 792.18 | 789.81 | 788.40 | 784.86 | 782.38 | 782.91 | 772.30 | 772.12 |
| 225.0  | 792.18 | 792.18 | 801.13 | 800.96 | 799.01 | 799.72 | 801.31 | 796.89 | 786.27 |
| 240.0  | 792.18 | 792.18 | 788.57 | 788.40 | 789.46 | 790.87 | 791.58 | 789.81 | 793.35 |
| 255.0  | 792.18 | 792.18 | 805.38 | 805.55 | 806.26 | 806.62 | 808.03 | 810.68 | 812.81 |
| 270.0  | 792.18 | 792.18 | 789.28 | 790.70 | 793.17 | 799.19 | 802.72 | 805.20 | 808.74 |
| 285.0  | 792.18 | 792.18 | 805.38 | 805.55 | 806.26 | 806.62 | 808.03 | 810.68 | 812.81 |
| 300.0  | 792.18 | 792.18 | 788.57 | 788.40 | 789.46 | 790.87 | 791.58 | 789.81 | 793.35 |
| 315.0  | 792.18 | 792.18 | 801.13 | 800.96 | 799.01 | 799.72 | 801.31 | 796.89 | 786.27 |
| 330.0  | 792.18 | 792.18 | 789.81 | 788.40 | 784.86 | 782.38 | 782.91 | 772.30 | 772.12 |
| 345.0  | 792.18 | 792.18 | 794.06 | 796.36 | 796.36 | 795.29 | 788.57 | 781.85 | 774.24 |
| 360.0  | 792.18 | 792.18 | 787.51 | 781.14 | 781.85 | 781.14 | 772.30 | 761.33 | 755.32 |

| C/γ(°) | 9.0    | 10.0   | 11.0   | 12.0   | 13.0   | 14.0   | 15.0   | 16.0   | 17.0   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0    | 746.47 | 728.43 | 723.12 | 705.08 | 684.92 | 688.10 | 653.78 | 656.97 | 646.00 |
| 15.0   | 768.23 | 750.19 | 737.10 | 724.36 | 701.19 | 675.01 | 667.40 | 652.19 | 641.93 |
| 30.0   | 766.64 | 754.96 | 744.35 | 739.75 | 731.08 | 722.95 | 714.81 | 696.77 | 686.86 |
| 45.0   | 785.03 | 780.61 | 779.37 | 766.46 | 765.93 | 760.09 | 753.19 | 742.40 | 740.28 |
| 60.0   | 795.29 | 794.41 | 793.35 | 792.46 | 792.11 | 798.83 | 800.42 | 802.37 | 808.03 |
| 75.0   | 815.81 | 819.00 | 821.30 | 826.78 | 832.62 | 836.33 | 849.07 | 858.97 | 869.59 |
| 90.0   | 811.57 | 815.46 | 819.35 | 823.95 | 829.61 | 835.98 | 848.36 | 856.85 | 868.88 |
| 105.0  | 815.81 | 819.00 | 821.30 | 826.78 | 832.62 | 836.33 | 849.07 | 858.97 | 869.59 |
| 120.0  | 795.29 | 794.41 | 793.35 | 792.46 | 792.11 | 798.83 | 800.42 | 802.37 | 808.03 |
| 135.0  | 785.03 | 780.61 | 779.37 | 766.46 | 765.93 | 760.09 | 753.19 | 742.40 | 740.28 |
| 150.0  | 766.64 | 754.96 | 744.35 | 739.75 | 731.08 | 722.95 | 714.81 | 696.77 | 686.86 |
| 165.0  | 768.23 | 750.19 | 737.10 | 724.36 | 701.19 | 675.01 | 667.40 | 652.19 | 641.93 |
| 180.0  | 746.47 | 728.43 | 723.12 | 705.08 | 684.92 | 688.10 | 653.78 | 656.97 | 646.00 |
| 195.0  | 768.23 | 750.19 | 737.10 | 724.36 | 701.19 | 675.01 | 667.40 | 652.19 | 641.93 |
| 210.0  | 766.64 | 754.96 | 744.35 | 739.75 | 731.08 | 722.95 | 714.81 | 696.77 | 686.86 |
| 225.0  | 785.03 | 780.61 | 779.37 | 766.46 | 765.93 | 760.09 | 753.19 | 742.40 | 740.28 |
| 240.0  | 795.29 | 794.41 | 793.35 | 792.46 | 792.11 | 798.83 | 800.42 | 802.37 | 808.03 |
| 255.0  | 815.81 | 819.00 | 821.30 | 826.78 | 832.62 | 836.33 | 849.07 | 858.97 | 869.59 |
| 270.0  | 811.57 | 815.46 | 819.35 | 823.95 | 829.61 | 835.98 | 848.36 | 856.85 | 868.88 |
| 285.0  | 815.81 | 819.00 | 821.30 | 826.78 | 832.62 | 836.33 | 849.07 | 858.97 | 869.59 |
| 300.0  | 795.29 | 794.41 | 793.35 | 792.46 | 792.11 | 798.83 | 800.42 | 802.37 | 808.03 |
| 315.0  | 785.03 | 780.61 | 779.37 | 766.46 | 765.93 | 760.09 | 753.19 | 742.40 | 740.28 |
| 330.0  | 766.64 | 754.96 | 744.35 | 739.75 | 731.08 | 722.95 | 714.81 | 696.77 | 686.86 |
| 345.0  | 768.23 | 750.19 | 737.10 | 724.36 | 701.19 | 675.01 | 667.40 | 652.19 | 641.93 |
| 360.0  | 746.47 | 728.43 | 723.12 | 705.08 | 684.92 | 688.10 | 653.78 | 656.97 | 646.00 |

## Intensity data(cd)

Appendix Page: 12 Total:21

| C/ $\gamma$ (°) | 18.0   | 19.0   | 20.0   | 21.0   | 22.0   | 23.0   | 24.0   | 25.0   | 26.0    |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0.0             | 662.27 | 651.31 | 666.17 | 665.10 | 682.44 | 679.96 | 701.54 | 735.15 | 770.88  |
| 15.0            | 636.62 | 634.50 | 644.76 | 660.86 | 661.21 | 675.89 | 705.79 | 736.57 | 742.58  |
| 30.0            | 679.61 | 677.31 | 674.83 | 679.25 | 681.91 | 694.64 | 709.86 | 718.53 | 733.91  |
| 45.0            | 743.47 | 745.94 | 747.18 | 750.37 | 755.32 | 753.02 | 760.09 | 774.07 | 783.97  |
| 60.0            | 815.11 | 821.83 | 832.09 | 844.65 | 865.17 | 880.56 | 895.41 | 906.03 | 914.87  |
| 75.0            | 880.73 | 892.23 | 905.67 | 922.12 | 936.45 | 952.37 | 972.18 | 988.99 | 1013.22 |
| 90.0            | 879.49 | 891.52 | 904.97 | 918.76 | 933.27 | 949.90 | 966.88 | 995.18 | 1013.93 |
| 105.0           | 880.73 | 892.23 | 905.67 | 922.12 | 936.45 | 952.37 | 972.18 | 988.99 | 1013.22 |
| 120.0           | 815.11 | 821.83 | 832.09 | 844.65 | 865.17 | 880.56 | 895.41 | 906.03 | 914.87  |
| 135.0           | 743.47 | 745.94 | 747.18 | 750.37 | 755.32 | 753.02 | 760.09 | 774.07 | 783.97  |
| 150.0           | 679.61 | 677.31 | 674.83 | 679.25 | 681.91 | 694.64 | 709.86 | 718.53 | 733.91  |
| 165.0           | 636.62 | 634.50 | 644.76 | 660.86 | 661.21 | 675.89 | 705.79 | 736.57 | 742.58  |
| 180.0           | 662.27 | 651.31 | 666.17 | 665.10 | 682.44 | 679.96 | 701.54 | 735.15 | 770.88  |
| 195.0           | 636.62 | 634.50 | 644.76 | 660.86 | 661.21 | 675.89 | 705.79 | 736.57 | 742.58  |
| 210.0           | 679.61 | 677.31 | 674.83 | 679.25 | 681.91 | 694.64 | 709.86 | 718.53 | 733.91  |
| 225.0           | 743.47 | 745.94 | 747.18 | 750.37 | 755.32 | 753.02 | 760.09 | 774.07 | 783.97  |
| 240.0           | 815.11 | 821.83 | 832.09 | 844.65 | 865.17 | 880.56 | 895.41 | 906.03 | 914.87  |
| 255.0           | 880.73 | 892.23 | 905.67 | 922.12 | 936.45 | 952.37 | 972.18 | 988.99 | 1013.22 |
| 270.0           | 879.49 | 891.52 | 904.97 | 918.76 | 933.27 | 949.90 | 966.88 | 995.18 | 1013.93 |
| 285.0           | 880.73 | 892.23 | 905.67 | 922.12 | 936.45 | 952.37 | 972.18 | 988.99 | 1013.22 |
| 300.0           | 815.11 | 821.83 | 832.09 | 844.65 | 865.17 | 880.56 | 895.41 | 906.03 | 914.87  |
| 315.0           | 743.47 | 745.94 | 747.18 | 750.37 | 755.32 | 753.02 | 760.09 | 774.07 | 783.97  |
| 330.0           | 679.61 | 677.31 | 674.83 | 679.25 | 681.91 | 694.64 | 709.86 | 718.53 | 733.91  |
| 345.0           | 636.62 | 634.50 | 644.76 | 660.86 | 661.21 | 675.89 | 705.79 | 736.57 | 742.58  |
| 360.0           | 662.27 | 651.31 | 666.17 | 665.10 | 682.44 | 679.96 | 701.54 | 735.15 | 770.88  |

| C/ $\gamma$ (°) | 27.0    | 28.0    | 29.0    | 30.0    | 31.0    | 32.0    | 33.0    | 34.0    | 35.0    |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0.0             | 802.37  | 840.23  | 883.74  | 926.55  | 954.49  | 973.25  | 994.12  | 1025.96 | 1093.53 |
| 15.0            | 781.14  | 816.87  | 865.52  | 901.25  | 938.57  | 978.20  | 1004.02 | 1033.56 | 1047.54 |
| 30.0            | 760.27  | 790.87  | 811.39  | 830.67  | 864.11  | 877.19  | 895.24  | 923.01  | 947.24  |
| 45.0            | 792.29  | 825.01  | 837.04  | 852.43  | 867.47  | 874.54  | 878.79  | 889.75  | 908.68  |
| 60.0            | 927.78  | 947.24  | 959.62  | 974.13  | 982.80  | 992.88  | 996.77  | 1007.92 | 1015.52 |
| 75.0            | 1031.27 | 1051.43 | 1076.37 | 1094.77 | 1110.87 | 1126.96 | 1135.10 | 1144.30 | 1154.03 |
| 90.0            | 1042.59 | 1060.27 | 1077.96 | 1097.78 | 1115.46 | 1129.26 | 1144.12 | 1158.98 | 1170.30 |
| 105.0           | 1031.27 | 1051.43 | 1076.37 | 1094.77 | 1110.87 | 1126.96 | 1135.10 | 1144.30 | 1154.03 |
| 120.0           | 927.78  | 947.24  | 959.62  | 974.13  | 982.80  | 992.88  | 996.77  | 1007.92 | 1015.52 |
| 135.0           | 792.29  | 825.01  | 837.04  | 852.43  | 867.47  | 874.54  | 878.79  | 889.75  | 908.68  |
| 150.0           | 760.27  | 790.87  | 811.39  | 830.67  | 864.11  | 877.19  | 895.24  | 923.01  | 947.24  |
| 165.0           | 781.14  | 816.87  | 865.52  | 901.25  | 938.57  | 978.20  | 1004.02 | 1033.56 | 1047.54 |
| 180.0           | 802.37  | 840.23  | 883.74  | 926.55  | 954.49  | 973.25  | 994.12  | 1025.96 | 1093.53 |
| 195.0           | 781.14  | 816.87  | 865.52  | 901.25  | 938.57  | 978.20  | 1004.02 | 1033.56 | 1047.54 |
| 210.0           | 760.27  | 790.87  | 811.39  | 830.67  | 864.11  | 877.19  | 895.24  | 923.01  | 947.24  |
| 225.0           | 792.29  | 825.01  | 837.04  | 852.43  | 867.47  | 874.54  | 878.79  | 889.75  | 908.68  |
| 240.0           | 927.78  | 947.24  | 959.62  | 974.13  | 982.80  | 992.88  | 996.77  | 1007.92 | 1015.52 |
| 255.0           | 1031.27 | 1051.43 | 1076.37 | 1094.77 | 1110.87 | 1126.96 | 1135.10 | 1144.30 | 1154.03 |
| 270.0           | 1042.59 | 1060.27 | 1077.96 | 1097.78 | 1115.46 | 1129.26 | 1144.12 | 1158.98 | 1170.30 |
| 285.0           | 1031.27 | 1051.43 | 1076.37 | 1094.77 | 1110.87 | 1126.96 | 1135.10 | 1144.30 | 1154.03 |
| 300.0           | 927.78  | 947.24  | 959.62  | 974.13  | 982.80  | 992.88  | 996.77  | 1007.92 | 1015.52 |
| 315.0           | 792.29  | 825.01  | 837.04  | 852.43  | 867.47  | 874.54  | 878.79  | 889.75  | 908.68  |
| 330.0           | 760.27  | 790.87  | 811.39  | 830.67  | 864.11  | 877.19  | 895.24  | 923.01  | 947.24  |
| 345.0           | 781.14  | 816.87  | 865.52  | 901.25  | 938.57  | 978.20  | 1004.02 | 1033.56 | 1047.54 |
| 360.0           | 802.37  | 840.23  | 883.74  | 926.55  | 954.49  | 973.25  | 994.12  | 1025.96 | 1093.53 |

## Intensity data(cd)

Appendix Page: 13 Total:21

| C/γ(°) | 36.0    | 37.0    | 38.0    | 39.0    | 40.0    | 41.0    | 42.0    | 43.0    | 44.0    |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0.0    | 1099.90 | 1104.50 | 1127.14 | 1140.23 | 1160.04 | 1170.65 | 1183.04 | 1201.08 | 1222.30 |
| 15.0   | 1058.51 | 1074.60 | 1086.81 | 1099.54 | 1113.69 | 1132.80 | 1148.54 | 1168.00 | 1187.64 |
| 30.0   | 962.99  | 984.57  | 1007.92 | 1027.20 | 1049.48 | 1068.06 | 1083.45 | 1103.26 | 1120.77 |
| 45.0   | 923.19  | 928.49  | 952.90  | 960.33  | 980.32  | 990.76  | 1015.35 | 1043.65 | 1068.06 |
| 60.0   | 1013.22 | 1014.64 | 1017.64 | 1033.39 | 1045.42 | 1053.02 | 1068.41 | 1082.39 | 1093.53 |
| 75.0   | 1168.35 | 1180.21 | 1196.48 | 1210.63 | 1225.49 | 1240.53 | 1260.69 | 1275.55 | 1292.89 |
| 90.0   | 1184.10 | 1197.89 | 1223.72 | 1241.76 | 1260.51 | 1279.62 | 1309.33 | 1324.19 | 1335.16 |
| 105.0  | 1168.35 | 1180.21 | 1196.48 | 1210.63 | 1225.49 | 1240.53 | 1260.69 | 1275.55 | 1292.89 |
| 120.0  | 1013.22 | 1014.64 | 1017.64 | 1033.39 | 1045.42 | 1053.02 | 1068.41 | 1082.39 | 1093.53 |
| 135.0  | 923.19  | 928.49  | 952.90  | 960.33  | 980.32  | 990.76  | 1015.35 | 1043.65 | 1068.06 |
| 150.0  | 962.99  | 984.57  | 1007.92 | 1027.20 | 1049.48 | 1068.06 | 1083.45 | 1103.26 | 1120.77 |
| 165.0  | 1058.51 | 1074.60 | 1086.81 | 1099.54 | 1113.69 | 1132.80 | 1148.54 | 1168.00 | 1187.64 |
| 180.0  | 1099.90 | 1104.50 | 1127.14 | 1140.23 | 1160.04 | 1170.65 | 1183.04 | 1201.08 | 1222.30 |
| 195.0  | 1058.51 | 1074.60 | 1086.81 | 1099.54 | 1113.69 | 1132.80 | 1148.54 | 1168.00 | 1187.64 |
| 210.0  | 962.99  | 984.57  | 1007.92 | 1027.20 | 1049.48 | 1068.06 | 1083.45 | 1103.26 | 1120.77 |
| 225.0  | 923.19  | 928.49  | 952.90  | 960.33  | 980.32  | 990.76  | 1015.35 | 1043.65 | 1068.06 |
| 240.0  | 1013.22 | 1014.64 | 1017.64 | 1033.39 | 1045.42 | 1053.02 | 1068.41 | 1082.39 | 1093.53 |
| 255.0  | 1168.35 | 1180.21 | 1196.48 | 1210.63 | 1225.49 | 1240.53 | 1260.69 | 1275.55 | 1292.89 |
| 270.0  | 1184.10 | 1197.89 | 1223.72 | 1241.76 | 1260.51 | 1279.62 | 1309.33 | 1324.19 | 1335.16 |
| 285.0  | 1168.35 | 1180.21 | 1196.48 | 1210.63 | 1225.49 | 1240.53 | 1260.69 | 1275.55 | 1292.89 |
| 300.0  | 1013.22 | 1014.64 | 1017.64 | 1033.39 | 1045.42 | 1053.02 | 1068.41 | 1082.39 | 1093.53 |
| 315.0  | 923.19  | 928.49  | 952.90  | 960.33  | 980.32  | 990.76  | 1015.35 | 1043.65 | 1068.06 |
| 330.0  | 962.99  | 984.57  | 1007.92 | 1027.20 | 1049.48 | 1068.06 | 1083.45 | 1103.26 | 1120.77 |
| 345.0  | 1058.51 | 1074.60 | 1086.81 | 1099.54 | 1113.69 | 1132.80 | 1148.54 | 1168.00 | 1187.64 |
| 360.0  | 1099.90 | 1104.50 | 1127.14 | 1140.23 | 1160.04 | 1170.65 | 1183.04 | 1201.08 | 1222.30 |
| C/γ(°) | 45.0    | 46.0    | 47.0    | 48.0    | 49.0    | 50.0    | 51.0    | 52.0    | 53.0    |
| 0.0    | 1239.29 | 1266.17 | 1286.69 | 1323.13 | 1348.96 | 1376.91 | 1406.62 | 1436.34 | 1466.77 |
| 15.0   | 1209.04 | 1234.51 | 1259.45 | 1278.56 | 1307.39 | 1342.59 | 1366.82 | 1390.17 | 1412.64 |
| 30.0   | 1142.53 | 1166.05 | 1186.40 | 1206.03 | 1236.81 | 1253.79 | 1278.38 | 1298.72 | 1315.35 |
| 45.0   | 1083.80 | 1093.00 | 1099.19 | 1119.71 | 1131.92 | 1151.20 | 1170.83 | 1184.27 | 1193.30 |
| 60.0   | 1107.68 | 1113.69 | 1119.53 | 1130.32 | 1142.00 | 1148.90 | 1151.73 | 1152.08 | 1158.63 |
| 75.0   | 1306.68 | 1319.95 | 1328.26 | 1334.28 | 1341.88 | 1343.12 | 1340.82 | 1334.81 | 1328.97 |
| 90.0   | 1352.50 | 1373.01 | 1386.46 | 1406.27 | 1414.76 | 1420.42 | 1421.48 | 1419.36 | 1411.58 |
| 105.0  | 1306.68 | 1319.95 | 1328.26 | 1334.28 | 1341.88 | 1343.12 | 1340.82 | 1334.81 | 1328.97 |
| 120.0  | 1107.68 | 1113.69 | 1119.53 | 1130.32 | 1142.00 | 1148.90 | 1151.73 | 1152.08 | 1158.63 |
| 135.0  | 1083.80 | 1093.00 | 1099.19 | 1119.71 | 1131.92 | 1151.20 | 1170.83 | 1184.27 | 1193.30 |
| 150.0  | 1142.53 | 1166.05 | 1186.40 | 1206.03 | 1236.81 | 1253.79 | 1278.38 | 1298.72 | 1315.35 |
| 165.0  | 1209.04 | 1234.51 | 1259.45 | 1278.56 | 1307.39 | 1342.59 | 1366.82 | 1390.17 | 1412.64 |
| 180.0  | 1239.29 | 1266.17 | 1286.69 | 1323.13 | 1348.96 | 1376.91 | 1406.62 | 1436.34 | 1466.77 |
| 195.0  | 1209.04 | 1234.51 | 1259.45 | 1278.56 | 1307.39 | 1342.59 | 1366.82 | 1390.17 | 1412.64 |
| 210.0  | 1142.53 | 1166.05 | 1186.40 | 1206.03 | 1236.81 | 1253.79 | 1278.38 | 1298.72 | 1315.35 |
| 225.0  | 1083.80 | 1093.00 | 1099.19 | 1119.71 | 1131.92 | 1151.20 | 1170.83 | 1184.27 | 1193.30 |
| 240.0  | 1107.68 | 1113.69 | 1119.53 | 1130.32 | 1142.00 | 1148.90 | 1151.73 | 1152.08 | 1158.63 |
| 255.0  | 1306.68 | 1319.95 | 1328.26 | 1334.28 | 1341.88 | 1343.12 | 1340.82 | 1334.81 | 1328.97 |
| 270.0  | 1352.50 | 1373.01 | 1386.46 | 1406.27 | 1414.76 | 1420.42 | 1421.48 | 1419.36 | 1411.58 |
| 285.0  | 1306.68 | 1319.95 | 1328.26 | 1334.28 | 1341.88 | 1343.12 | 1340.82 | 1334.81 | 1328.97 |
| 300.0  | 1107.68 | 1113.69 | 1119.53 | 1130.32 | 1142.00 | 1148.90 | 1151.73 | 1152.08 | 1158.63 |
| 315.0  | 1083.80 | 1093.00 | 1099.19 | 1119.71 | 1131.92 | 1151.20 | 1170.83 | 1184.27 | 1193.30 |
| 330.0  | 1142.53 | 1166.05 | 1186.40 | 1206.03 | 1236.81 | 1253.79 | 1278.38 | 1298.72 | 1315.35 |
| 345.0  | 1209.04 | 1234.51 | 1259.45 | 1278.56 | 1307.39 | 1342.59 | 1366.82 | 1390.17 | 1412.64 |
| 360.0  | 1239.29 | 1266.17 | 1286.69 | 1323.13 | 1348.96 | 1376.91 | 1406.62 | 1436.34 | 1466.77 |

## Intensity data(cd)

Appendix Page: 14 Total:21

| C/ $\gamma$ (°) | 54.0    | 55.0    | 56.0    | 57.0    | 58.0    | 59.0    | 60.0    | 61.0    | 62.0    |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0.0             | 1495.07 | 1520.89 | 1551.67 | 1566.18 | 1552.38 | 1520.54 | 1463.58 | 1379.74 | 1269.71 |
| 15.0            | 1436.87 | 1457.92 | 1475.08 | 1490.47 | 1494.36 | 1495.60 | 1456.86 | 1404.32 | 1323.49 |
| 30.0            | 1327.91 | 1332.15 | 1333.21 | 1326.67 | 1307.03 | 1275.90 | 1226.90 | 1163.22 | 1053.91 |
| 45.0            | 1200.02 | 1201.61 | 1198.25 | 1192.41 | 1184.63 | 1160.93 | 1126.78 | 1064.17 | 1006.85 |
| 60.0            | 1158.45 | 1149.78 | 1134.57 | 1113.87 | 1085.92 | 1045.42 | 1005.26 | 939.46  | 891.17  |
| 75.0            | 1315.70 | 1286.87 | 1261.22 | 1233.45 | 1201.26 | 1163.58 | 1105.03 | 1065.23 | 1031.44 |
| 90.0            | 1397.43 | 1375.85 | 1328.44 | 1289.52 | 1225.49 | 1183.74 | 1134.92 | 1072.30 | 999.78  |
| 105.0           | 1315.70 | 1286.87 | 1261.22 | 1233.45 | 1201.26 | 1163.58 | 1105.03 | 1065.23 | 1031.44 |
| 120.0           | 1158.45 | 1149.78 | 1134.57 | 1113.87 | 1085.92 | 1045.42 | 1005.26 | 939.46  | 891.17  |
| 135.0           | 1200.02 | 1201.61 | 1198.25 | 1192.41 | 1184.63 | 1160.93 | 1126.78 | 1064.17 | 1006.85 |
| 150.0           | 1327.91 | 1332.15 | 1333.21 | 1326.67 | 1307.03 | 1275.90 | 1226.90 | 1163.22 | 1053.91 |
| 165.0           | 1436.87 | 1457.92 | 1475.08 | 1490.47 | 1494.36 | 1495.60 | 1456.86 | 1404.32 | 1323.49 |
| 180.0           | 1495.07 | 1520.89 | 1551.67 | 1566.18 | 1552.38 | 1520.54 | 1463.58 | 1379.74 | 1269.71 |
| 195.0           | 1436.87 | 1457.92 | 1475.08 | 1490.47 | 1494.36 | 1495.60 | 1456.86 | 1404.32 | 1323.49 |
| 210.0           | 1327.91 | 1332.15 | 1333.21 | 1326.67 | 1307.03 | 1275.90 | 1226.90 | 1163.22 | 1053.91 |
| 225.0           | 1200.02 | 1201.61 | 1198.25 | 1192.41 | 1184.63 | 1160.93 | 1126.78 | 1064.17 | 1006.85 |
| 240.0           | 1158.45 | 1149.78 | 1134.57 | 1113.87 | 1085.92 | 1045.42 | 1005.26 | 939.46  | 891.17  |
| 255.0           | 1315.70 | 1286.87 | 1261.22 | 1233.45 | 1201.26 | 1163.58 | 1105.03 | 1065.23 | 1031.44 |
| 270.0           | 1397.43 | 1375.85 | 1328.44 | 1289.52 | 1225.49 | 1183.74 | 1134.92 | 1072.30 | 999.78  |
| 285.0           | 1315.70 | 1286.87 | 1261.22 | 1233.45 | 1201.26 | 1163.58 | 1105.03 | 1065.23 | 1031.44 |
| 300.0           | 1158.45 | 1149.78 | 1134.57 | 1113.87 | 1085.92 | 1045.42 | 1005.26 | 939.46  | 891.17  |
| 315.0           | 1200.02 | 1201.61 | 1198.25 | 1192.41 | 1184.63 | 1160.93 | 1126.78 | 1064.17 | 1006.85 |
| 330.0           | 1327.91 | 1332.15 | 1333.21 | 1326.67 | 1307.03 | 1275.90 | 1226.90 | 1163.22 | 1053.91 |
| 345.0           | 1436.87 | 1457.92 | 1475.08 | 1490.47 | 1494.36 | 1495.60 | 1456.86 | 1404.32 | 1323.49 |
| 360.0           | 1495.07 | 1520.89 | 1551.67 | 1566.18 | 1552.38 | 1520.54 | 1463.58 | 1379.74 | 1269.71 |

| C/ $\gamma$ (°) | 63.0    | 64.0    | 65.0   | 66.0   | 67.0   | 68.0   | 69.0   | 70.0   | 71.0   |
|-----------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0.0             | 1140.94 | 994.47  | 838.81 | 614.51 | 475.48 | 356.26 | 244.82 | 153.89 | 89.86  |
| 15.0            | 1169.95 | 1016.94 | 838.28 | 647.95 | 421.53 | 267.81 | 150.89 | 65.63  | 50.06  |
| 30.0            | 935.57  | 831.20  | 701.37 | 604.08 | 513.16 | 428.43 | 319.82 | 252.42 | 176.36 |
| 45.0            | 938.75  | 845.18  | 763.63 | 679.43 | 593.82 | 504.31 | 382.08 | 275.95 | 167.87 |
| 60.0            | 838.28  | 793.70  | 751.25 | 699.07 | 627.78 | 545.00 | 464.51 | 346.53 | 273.12 |
| 75.0            | 988.63  | 948.48  | 889.75 | 815.11 | 707.03 | 650.60 | 592.40 | 451.24 | 366.51 |
| 90.0            | 939.99  | 909.21  | 909.21 | 916.29 | 905.32 | 754.26 | 638.22 | 504.13 | 373.59 |
| 105.0           | 988.63  | 948.48  | 889.75 | 815.11 | 707.03 | 650.60 | 592.40 | 451.24 | 366.51 |
| 120.0           | 838.28  | 793.70  | 751.25 | 699.07 | 627.78 | 545.00 | 464.51 | 346.53 | 273.12 |
| 135.0           | 938.75  | 845.18  | 763.63 | 679.43 | 593.82 | 504.31 | 382.08 | 275.95 | 167.87 |
| 150.0           | 935.57  | 831.20  | 701.37 | 604.08 | 513.16 | 428.43 | 319.82 | 252.42 | 176.36 |
| 165.0           | 1169.95 | 1016.94 | 838.28 | 647.95 | 421.53 | 267.81 | 150.89 | 65.63  | 50.06  |
| 180.0           | 1140.94 | 994.47  | 838.81 | 614.51 | 475.48 | 356.26 | 244.82 | 153.89 | 89.86  |
| 195.0           | 1169.95 | 1016.94 | 838.28 | 647.95 | 421.53 | 267.81 | 150.89 | 65.63  | 50.06  |
| 210.0           | 935.57  | 831.20  | 701.37 | 604.08 | 513.16 | 428.43 | 319.82 | 252.42 | 176.36 |
| 225.0           | 938.75  | 845.18  | 763.63 | 679.43 | 593.82 | 504.31 | 382.08 | 275.95 | 167.87 |
| 240.0           | 838.28  | 793.70  | 751.25 | 699.07 | 627.78 | 545.00 | 464.51 | 346.53 | 273.12 |
| 255.0           | 988.63  | 948.48  | 889.75 | 815.11 | 707.03 | 650.60 | 592.40 | 451.24 | 366.51 |
| 270.0           | 939.99  | 909.21  | 909.21 | 916.29 | 905.32 | 754.26 | 638.22 | 504.13 | 373.59 |
| 285.0           | 988.63  | 948.48  | 889.75 | 815.11 | 707.03 | 650.60 | 592.40 | 451.24 | 366.51 |
| 300.0           | 838.28  | 793.70  | 751.25 | 699.07 | 627.78 | 545.00 | 464.51 | 346.53 | 273.12 |
| 315.0           | 938.75  | 845.18  | 763.63 | 679.43 | 593.82 | 504.31 | 382.08 | 275.95 | 167.87 |
| 330.0           | 935.57  | 831.20  | 701.37 | 604.08 | 513.16 | 428.43 | 319.82 | 252.42 | 176.36 |
| 345.0           | 1169.95 | 1016.94 | 838.28 | 647.95 | 421.53 | 267.81 | 150.89 | 65.63  | 50.06  |
| 360.0           | 1140.94 | 994.47  | 838.81 | 614.51 | 475.48 | 356.26 | 244.82 | 153.89 | 89.86  |

## Intensity data(cd)

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| C/γ(°) | 72.0   | 73.0   | 74.0   | 75.0  | 76.0  | 77.0  | 78.0  | 79.0  | 80.0  |
|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0.0    | 52.01  | 37.85  | 33.61  | 30.78 | 27.95 | 23.70 | 21.23 | 19.11 | 16.27 |
| 15.0   | 44.58  | 39.98  | 36.44  | 33.26 | 30.25 | 25.47 | 23.88 | 21.94 | 18.75 |
| 30.0   | 142.57 | 94.46  | 64.04  | 45.11 | 36.97 | 33.79 | 30.25 | 27.60 | 24.41 |
| 45.0   | 111.44 | 75.71  | 53.95  | 43.51 | 37.85 | 33.43 | 30.78 | 26.53 | 24.06 |
| 60.0   | 205.55 | 118.52 | 81.55  | 58.73 | 44.93 | 37.15 | 32.55 | 29.89 | 25.83 |
| 75.0   | 280.90 | 174.94 | 124.35 | 88.97 | 64.74 | 48.47 | 39.27 | 34.49 | 29.36 |
| 90.0   | 260.38 | 170.17 | 108.61 | 71.82 | 49.18 | 35.03 | 31.13 | 25.83 | 22.64 |
| 105.0  | 280.90 | 174.94 | 124.35 | 88.97 | 64.74 | 48.47 | 39.27 | 34.49 | 29.36 |
| 120.0  | 205.55 | 118.52 | 81.55  | 58.73 | 44.93 | 37.15 | 32.55 | 29.89 | 25.83 |
| 135.0  | 111.44 | 75.71  | 53.95  | 43.51 | 37.85 | 33.43 | 30.78 | 26.53 | 24.06 |
| 150.0  | 142.57 | 94.46  | 64.04  | 45.11 | 36.97 | 33.79 | 30.25 | 27.60 | 24.41 |
| 165.0  | 44.58  | 39.98  | 36.44  | 33.26 | 30.25 | 25.47 | 23.88 | 21.94 | 18.75 |
| 180.0  | 52.01  | 37.85  | 33.61  | 30.78 | 27.95 | 23.70 | 21.23 | 19.11 | 16.27 |
| 195.0  | 44.58  | 39.98  | 36.44  | 33.26 | 30.25 | 25.47 | 23.88 | 21.94 | 18.75 |
| 210.0  | 142.57 | 94.46  | 64.04  | 45.11 | 36.97 | 33.79 | 30.25 | 27.60 | 24.41 |
| 225.0  | 111.44 | 75.71  | 53.95  | 43.51 | 37.85 | 33.43 | 30.78 | 26.53 | 24.06 |
| 240.0  | 205.55 | 118.52 | 81.55  | 58.73 | 44.93 | 37.15 | 32.55 | 29.89 | 25.83 |
| 255.0  | 280.90 | 174.94 | 124.35 | 88.97 | 64.74 | 48.47 | 39.27 | 34.49 | 29.36 |
| 270.0  | 260.38 | 170.17 | 108.61 | 71.82 | 49.18 | 35.03 | 31.13 | 25.83 | 22.64 |
| 285.0  | 280.90 | 174.94 | 124.35 | 88.97 | 64.74 | 48.47 | 39.27 | 34.49 | 29.36 |
| 300.0  | 205.55 | 118.52 | 81.55  | 58.73 | 44.93 | 37.15 | 32.55 | 29.89 | 25.83 |
| 315.0  | 111.44 | 75.71  | 53.95  | 43.51 | 37.85 | 33.43 | 30.78 | 26.53 | 24.06 |
| 330.0  | 142.57 | 94.46  | 64.04  | 45.11 | 36.97 | 33.79 | 30.25 | 27.60 | 24.41 |
| 345.0  | 44.58  | 39.98  | 36.44  | 33.26 | 30.25 | 25.47 | 23.88 | 21.94 | 18.75 |
| 360.0  | 52.01  | 37.85  | 33.61  | 30.78 | 27.95 | 23.70 | 21.23 | 19.11 | 16.27 |
| C/γ(°) | 81.0   | 82.0   | 83.0   | 84.0  | 85.0  | 86.0  | 87.0  | 88.0  | 89.0  |
| 0.0    | 14.86  | 12.74  | 11.32  | 9.20  | 7.43  | 6.37  | 4.25  | 3.18  | 2.48  |
| 15.0   | 17.16  | 15.21  | 12.74  | 10.97 | 9.37  | 7.78  | 6.37  | 4.42  | 3.18  |
| 30.0   | 20.70  | 18.75  | 16.45  | 13.62 | 12.21 | 10.08 | 8.49  | 7.25  | 5.84  |
| 45.0   | 21.58  | 18.22  | 16.27  | 14.68 | 12.91 | 11.14 | 9.73  | 8.31  | 7.08  |
| 60.0   | 22.64  | 20.17  | 17.87  | 15.04 | 13.80 | 11.85 | 10.26 | 9.20  | 7.96  |
| 75.0   | 26.36  | 23.70  | 19.28  | 16.80 | 14.50 | 12.56 | 10.26 | 8.49  | 7.25  |
| 90.0   | 18.75  | 16.63  | 14.86  | 12.38 | 10.26 | 8.14  | 5.31  | 3.54  | 2.12  |
| 105.0  | 26.36  | 23.70  | 19.28  | 16.80 | 14.50 | 12.56 | 10.26 | 8.49  | 7.25  |
| 120.0  | 22.64  | 20.17  | 17.87  | 15.04 | 13.80 | 11.85 | 10.26 | 9.20  | 7.96  |
| 135.0  | 21.58  | 18.22  | 16.27  | 14.68 | 12.91 | 11.14 | 9.73  | 8.31  | 7.08  |
| 150.0  | 20.70  | 18.75  | 16.45  | 13.62 | 12.21 | 10.08 | 8.49  | 7.25  | 5.84  |
| 165.0  | 17.16  | 15.21  | 12.74  | 10.97 | 9.37  | 7.78  | 6.37  | 4.42  | 3.18  |
| 180.0  | 14.86  | 12.74  | 11.32  | 9.20  | 7.43  | 6.37  | 4.25  | 3.18  | 2.48  |
| 195.0  | 17.16  | 15.21  | 12.74  | 10.97 | 9.37  | 7.78  | 6.37  | 4.42  | 3.18  |
| 210.0  | 20.70  | 18.75  | 16.45  | 13.62 | 12.21 | 10.08 | 8.49  | 7.25  | 5.84  |
| 225.0  | 21.58  | 18.22  | 16.27  | 14.68 | 12.91 | 11.14 | 9.73  | 8.31  | 7.08  |
| 240.0  | 22.64  | 20.17  | 17.87  | 15.04 | 13.80 | 11.85 | 10.26 | 9.20  | 7.96  |
| 255.0  | 26.36  | 23.70  | 19.28  | 16.80 | 14.50 | 12.56 | 10.26 | 8.49  | 7.25  |
| 270.0  | 18.75  | 16.63  | 14.86  | 12.38 | 10.26 | 8.14  | 5.31  | 3.54  | 2.12  |
| 285.0  | 26.36  | 23.70  | 19.28  | 16.80 | 14.50 | 12.56 | 10.26 | 8.49  | 7.25  |
| 300.0  | 22.64  | 20.17  | 17.87  | 15.04 | 13.80 | 11.85 | 10.26 | 9.20  | 7.96  |
| 315.0  | 21.58  | 18.22  | 16.27  | 14.68 | 12.91 | 11.14 | 9.73  | 8.31  | 7.08  |
| 330.0  | 20.70  | 18.75  | 16.45  | 13.62 | 12.21 | 10.08 | 8.49  | 7.25  | 5.84  |
| 345.0  | 17.16  | 15.21  | 12.74  | 10.97 | 9.37  | 7.78  | 6.37  | 4.42  | 3.18  |
| 360.0  | 14.86  | 12.74  | 11.32  | 9.20  | 7.43  | 6.37  | 4.25  | 3.18  | 2.48  |

## Intensity data(cd)

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| C/ $\gamma$ (°) | 90.0 | 91.0  | 92.0  | 93.0  | 94.0  | 95.0  | 96.0  | 97.0  | 98.0  |
|-----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0             | 1.77 | 1.42  | 0.71  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 15.0            | 1.77 | 0.88  | 0.53  | 0.53  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 30.0            | 4.60 | 3.54  | 2.83  | 2.30  | 1.95  | 1.59  | 1.42  | 1.42  | 1.06  |
| 45.0            | 5.66 | 4.95  | 3.89  | 3.72  | 3.54  | 3.36  | 3.18  | 3.01  | 2.83  |
| 60.0            | 6.90 | 6.37  | 6.01  | 5.48  | 4.95  | 4.78  | 4.78  | 4.25  | 4.25  |
| 75.0            | 5.84 | 5.31  | 4.42  | 3.89  | 3.89  | 3.89  | 3.89  | 3.72  | 3.54  |
| 90.0            | 1.42 | 0.71  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 105.0           | 5.84 | 5.31  | 4.42  | 3.89  | 3.89  | 3.89  | 3.89  | 3.72  | 3.54  |
| 120.0           | 6.90 | 6.37  | 6.01  | 5.48  | 4.95  | 4.78  | 4.78  | 4.25  | 4.25  |
| 135.0           | 5.66 | 4.95  | 3.89  | 3.72  | 3.54  | 3.36  | 3.18  | 3.01  | 2.83  |
| 150.0           | 4.60 | 3.54  | 2.83  | 2.30  | 1.95  | 1.59  | 1.42  | 1.42  | 1.06  |
| 165.0           | 1.77 | 0.88  | 0.53  | 0.53  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 180.0           | 1.77 | 1.42  | 0.71  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 195.0           | 1.77 | 0.88  | 0.53  | 0.53  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 210.0           | 4.60 | 3.54  | 2.83  | 2.30  | 1.95  | 1.59  | 1.42  | 1.42  | 1.06  |
| 225.0           | 5.66 | 4.95  | 3.89  | 3.72  | 3.54  | 3.36  | 3.18  | 3.01  | 2.83  |
| 240.0           | 6.90 | 6.37  | 6.01  | 5.48  | 4.95  | 4.78  | 4.78  | 4.25  | 4.25  |
| 255.0           | 5.84 | 5.31  | 4.42  | 3.89  | 3.89  | 3.89  | 3.89  | 3.72  | 3.54  |
| 270.0           | 1.42 | 0.71  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 285.0           | 5.84 | 5.31  | 4.42  | 3.89  | 3.89  | 3.89  | 3.89  | 3.72  | 3.54  |
| 300.0           | 6.90 | 6.37  | 6.01  | 5.48  | 4.95  | 4.78  | 4.78  | 4.25  | 4.25  |
| 315.0           | 5.66 | 4.95  | 3.89  | 3.72  | 3.54  | 3.36  | 3.18  | 3.01  | 2.83  |
| 330.0           | 4.60 | 3.54  | 2.83  | 2.30  | 1.95  | 1.59  | 1.42  | 1.42  | 1.06  |
| 345.0           | 1.77 | 0.88  | 0.53  | 0.53  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 360.0           | 1.77 | 1.42  | 0.71  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| C/ $\gamma$ (°) | 99.0 | 100.0 | 101.0 | 102.0 | 103.0 | 104.0 | 105.0 | 106.0 | 107.0 |
| 0.0             | 0.35 | 0.35  | 0.35  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.35  |
| 15.0            | 0.35 | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 30.0            | 1.06 | 1.06  | 1.06  | 1.06  | 1.06  | 0.88  | 0.71  | 0.71  | 0.71  |
| 45.0            | 2.65 | 2.48  | 2.12  | 1.95  | 1.77  | 1.42  | 1.42  | 1.42  | 1.24  |
| 60.0            | 3.89 | 3.89  | 3.36  | 3.18  | 2.83  | 2.48  | 2.30  | 1.95  | 1.95  |
| 75.0            | 3.54 | 3.54  | 3.18  | 2.83  | 2.83  | 2.65  | 2.30  | 2.12  | 1.95  |
| 90.0            | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 105.0           | 3.54 | 3.54  | 3.18  | 2.83  | 2.83  | 2.65  | 2.30  | 2.12  | 1.95  |
| 120.0           | 3.89 | 3.89  | 3.36  | 3.18  | 2.83  | 2.48  | 2.30  | 1.95  | 1.95  |
| 135.0           | 2.65 | 2.48  | 2.12  | 1.95  | 1.77  | 1.42  | 1.42  | 1.42  | 1.24  |
| 150.0           | 1.06 | 1.06  | 1.06  | 1.06  | 1.06  | 0.88  | 0.71  | 0.71  | 0.71  |
| 165.0           | 0.35 | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 180.0           | 0.35 | 0.35  | 0.35  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.35  |
| 195.0           | 0.35 | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 210.0           | 1.06 | 1.06  | 1.06  | 1.06  | 1.06  | 0.88  | 0.71  | 0.71  | 0.71  |
| 225.0           | 2.65 | 2.48  | 2.12  | 1.95  | 1.77  | 1.42  | 1.42  | 1.42  | 1.24  |
| 240.0           | 3.89 | 3.89  | 3.36  | 3.18  | 2.83  | 2.48  | 2.30  | 1.95  | 1.95  |
| 255.0           | 3.54 | 3.54  | 3.18  | 2.83  | 2.83  | 2.65  | 2.30  | 2.12  | 1.95  |
| 270.0           | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 285.0           | 3.54 | 3.54  | 3.18  | 2.83  | 2.83  | 2.65  | 2.30  | 2.12  | 1.95  |
| 300.0           | 3.89 | 3.89  | 3.36  | 3.18  | 2.83  | 2.48  | 2.30  | 1.95  | 1.95  |
| 315.0           | 2.65 | 2.48  | 2.12  | 1.95  | 1.77  | 1.42  | 1.42  | 1.42  | 1.24  |
| 330.0           | 1.06 | 1.06  | 1.06  | 1.06  | 1.06  | 0.88  | 0.71  | 0.71  | 0.71  |
| 345.0           | 0.35 | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 360.0           | 0.35 | 0.35  | 0.35  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.35  |

## Intensity data(cd)

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| C/ $\gamma$ (°) | 108.0 | 109.0 | 110.0 | 111.0 | 112.0 | 113.0 | 114.0 | 115.0 | 116.0 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0             | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 15.0            | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 30.0            | 0.71  | 0.71  | 0.71  | 0.71  | 0.53  | 0.35  | 0.35  | 0.35  | 0.35  |
| 45.0            | 1.24  | 0.88  | 0.88  | 0.71  | 0.71  | 0.35  | 0.35  | 0.35  | 0.35  |
| 60.0            | 1.59  | 1.24  | 1.24  | 1.06  | 1.06  | 1.06  | 0.88  | 0.71  | 0.71  |
| 75.0            | 1.77  | 1.59  | 1.42  | 1.24  | 1.24  | 1.06  | 0.88  | 0.88  | 0.88  |
| 90.0            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 105.0           | 1.77  | 1.59  | 1.42  | 1.24  | 1.24  | 1.06  | 0.88  | 0.88  | 0.88  |
| 120.0           | 1.59  | 1.24  | 1.24  | 1.06  | 1.06  | 1.06  | 0.88  | 0.71  | 0.71  |
| 135.0           | 1.24  | 0.88  | 0.88  | 0.71  | 0.71  | 0.35  | 0.35  | 0.35  | 0.35  |
| 150.0           | 0.71  | 0.71  | 0.71  | 0.71  | 0.53  | 0.35  | 0.35  | 0.35  | 0.35  |
| 165.0           | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 180.0           | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 195.0           | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 210.0           | 0.71  | 0.71  | 0.71  | 0.71  | 0.53  | 0.35  | 0.35  | 0.35  | 0.35  |
| 225.0           | 1.24  | 0.88  | 0.88  | 0.71  | 0.71  | 0.35  | 0.35  | 0.35  | 0.35  |
| 240.0           | 1.59  | 1.24  | 1.24  | 1.06  | 1.06  | 1.06  | 0.88  | 0.71  | 0.71  |
| 255.0           | 1.77  | 1.59  | 1.42  | 1.24  | 1.24  | 1.06  | 0.88  | 0.88  | 0.88  |
| 270.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 285.0           | 1.77  | 1.59  | 1.42  | 1.24  | 1.24  | 1.06  | 0.88  | 0.88  | 0.88  |
| 300.0           | 1.59  | 1.24  | 1.24  | 1.06  | 1.06  | 1.06  | 0.88  | 0.71  | 0.71  |
| 315.0           | 1.24  | 0.88  | 0.88  | 0.71  | 0.71  | 0.35  | 0.35  | 0.35  | 0.35  |
| 330.0           | 0.71  | 0.71  | 0.71  | 0.71  | 0.53  | 0.35  | 0.35  | 0.35  | 0.35  |
| 345.0           | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 360.0           | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| C/ $\gamma$ (°) | 117.0 | 118.0 | 119.0 | 120.0 | 121.0 | 122.0 | 123.0 | 124.0 | 125.0 |
| 0.0             | 0.35  | 0.35  | 0.35  | 0.35  | 0.71  | 0.71  | 0.71  | 0.71  | 0.71  |
| 15.0            | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 30.0            | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 45.0            | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 60.0            | 0.71  | 0.71  | 0.53  | 0.53  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 75.0            | 0.53  | 0.53  | 0.53  | 0.53  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 90.0            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 105.0           | 0.53  | 0.53  | 0.53  | 0.53  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 120.0           | 0.71  | 0.71  | 0.53  | 0.53  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 135.0           | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 150.0           | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 165.0           | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 180.0           | 0.35  | 0.35  | 0.35  | 0.35  | 0.71  | 0.71  | 0.71  | 0.71  | 0.71  |
| 195.0           | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 210.0           | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 225.0           | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 240.0           | 0.71  | 0.71  | 0.53  | 0.53  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 255.0           | 0.53  | 0.53  | 0.53  | 0.53  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 270.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 285.0           | 0.53  | 0.53  | 0.53  | 0.53  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 300.0           | 0.71  | 0.71  | 0.53  | 0.53  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 315.0           | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 330.0           | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 345.0           | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 360.0           | 0.35  | 0.35  | 0.35  | 0.35  | 0.71  | 0.71  | 0.71  | 0.71  | 0.71  |

| C/γ(°) | 126.0 | 127.0 | 128.0 | 129.0 | 130.0 | 131.0 | 132.0 | 133.0 | 134.0 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0    | 0.71  | 0.71  | 0.71  | 0.71  | 0.71  | 0.71  | 0.71  | 0.35  | 0.35  |
| 15.0   | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 30.0   | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 45.0   | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 60.0   | 0.35  | 0.35  | 0.35  | 0.18  | 0.18  | 0.35  | 0.35  | 0.18  | 0.18  |
| 75.0   | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.18  | 0.18  | 0.18  | 0.18  |
| 90.0   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 105.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.18  | 0.18  | 0.18  | 0.18  |
| 120.0  | 0.35  | 0.35  | 0.35  | 0.18  | 0.18  | 0.35  | 0.35  | 0.18  | 0.18  |
| 135.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 150.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 165.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 180.0  | 0.71  | 0.71  | 0.71  | 0.71  | 0.71  | 0.71  | 0.71  | 0.35  | 0.35  |
| 195.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 210.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 225.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 240.0  | 0.35  | 0.35  | 0.35  | 0.18  | 0.18  | 0.35  | 0.35  | 0.18  | 0.18  |
| 255.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.18  | 0.18  | 0.18  | 0.18  |
| 270.0  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 285.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.18  | 0.18  | 0.18  | 0.18  |
| 300.0  | 0.35  | 0.35  | 0.35  | 0.18  | 0.18  | 0.35  | 0.35  | 0.18  | 0.18  |
| 315.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 330.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 345.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 360.0  | 0.71  | 0.71  | 0.71  | 0.71  | 0.71  | 0.71  | 0.71  | 0.35  | 0.35  |
|        |       |       |       |       |       |       |       |       |       |
| C/γ(°) | 135.0 | 136.0 | 137.0 | 138.0 | 139.0 | 140.0 | 141.0 | 142.0 | 143.0 |
| 0.0    | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.00  |
| 15.0   | 0.35  | 0.53  | 0.53  | 0.35  | 0.18  | 0.18  | 0.18  | 0.00  | 0.00  |
| 30.0   | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.18  |
| 45.0   | 0.35  | 0.35  | 0.35  | 0.35  | 0.18  | 0.18  | 0.18  | 0.00  | 0.00  |
| 60.0   | 0.35  | 0.35  | 0.35  | 0.35  | 0.18  | 0.18  | 0.00  | 0.00  | 0.00  |
| 75.0   | 0.18  | 0.18  | 0.18  | 0.18  | 0.18  | 0.18  | 0.00  | 0.00  | 0.00  |
| 90.0   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 105.0  | 0.18  | 0.18  | 0.18  | 0.18  | 0.18  | 0.18  | 0.00  | 0.00  | 0.00  |
| 120.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.18  | 0.18  | 0.00  | 0.00  | 0.00  |
| 135.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.18  | 0.18  | 0.18  | 0.00  | 0.00  |
| 150.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.18  |
| 165.0  | 0.35  | 0.53  | 0.53  | 0.35  | 0.18  | 0.18  | 0.18  | 0.00  | 0.00  |
| 180.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.00  |
| 195.0  | 0.35  | 0.53  | 0.53  | 0.35  | 0.18  | 0.18  | 0.18  | 0.00  | 0.00  |
| 210.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.18  |
| 225.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.18  | 0.18  | 0.18  | 0.00  | 0.00  |
| 240.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.18  | 0.18  | 0.00  | 0.00  | 0.00  |
| 255.0  | 0.18  | 0.18  | 0.18  | 0.18  | 0.18  | 0.18  | 0.00  | 0.00  | 0.00  |
| 270.0  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 285.0  | 0.18  | 0.18  | 0.18  | 0.18  | 0.18  | 0.18  | 0.00  | 0.00  | 0.00  |
| 300.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.18  | 0.18  | 0.00  | 0.00  | 0.00  |
| 315.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.18  | 0.18  | 0.18  | 0.00  | 0.00  |
| 330.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.18  |
| 345.0  | 0.35  | 0.53  | 0.53  | 0.35  | 0.18  | 0.18  | 0.18  | 0.00  | 0.00  |
| 360.0  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.00  |

| C/ $\gamma$ (°) | 144.0 | 145.0 | 146.0 | 147.0 | 148.0 | 149.0 | 150.0 | 151.0 | 152.0 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0             | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 15.0            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 30.0            | 0.18  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 45.0            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 60.0            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 75.0            | 0.00  | 0.00  | 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  | 0.00  |
| 105.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 120.0           | 0.00  | 0.00  | 0.00  | 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  | 0.00  | 0.00  | 0.00  |
| 150.0           | 0.18  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 165.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 180.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 195.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 210.0           | 0.18  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 225.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 240.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 255.0           | 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  | 0.00  |
| 285.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 300.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 315.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 330.0           | 0.18  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 345.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 360.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| C/ $\gamma$ (°) | 153.0 | 154.0 | 155.0 | 156.0 | 157.0 | 158.0 | 159.0 | 160.0 | 161.0 |
| 0.0             | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 15.0            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 30.0            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 45.0            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 60.0            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 75.0            | 0.00  | 0.00  | 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  | 0.00  |
| 105.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 120.0           | 0.00  | 0.00  | 0.00  | 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  | 0.00  | 0.00  | 0.00  |
| 150.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 165.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 180.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 195.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 210.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 225.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 240.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 255.0           | 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  | 0.00  |
| 285.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 300.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 315.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 330.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 345.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 360.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |

## Intensity data(cd)

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| C/ $\gamma$ (°) | 162.0 | 163.0 | 164.0 | 165.0 | 166.0 | 167.0 | 168.0 | 169.0 | 170.0 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0             | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 15.0            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 30.0            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 45.0            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 60.0            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 75.0            | 0.00  | 0.00  | 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  | 0.00  |
| 105.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 120.0           | 0.00  | 0.00  | 0.00  | 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  | 0.00  | 0.00  | 0.00  |
| 150.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 165.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 180.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 195.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 210.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 225.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 240.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 255.0           | 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  | 0.00  |
| 285.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 300.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 315.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 330.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 345.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 360.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| C/ $\gamma$ (°) | 171.0 | 172.0 | 173.0 | 174.0 | 175.0 | 176.0 | 177.0 | 178.0 | 179.0 |
| 0.0             | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 15.0            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 30.0            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 45.0            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 60.0            | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 75.0            | 0.00  | 0.00  | 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  | 0.00  |
| 105.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 120.0           | 0.00  | 0.00  | 0.00  | 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  | 0.00  | 0.00  | 0.00  |
| 150.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 165.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 180.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 195.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 210.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 225.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 240.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 255.0           | 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  | 0.00  |
| 285.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 300.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 315.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 330.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 345.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 360.0           | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |

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**Intensity data(cd)**

Appendix Page: 21 Total:21

|                                 |              |
|---------------------------------|--------------|
| <b>C/<math>\gamma</math>(°)</b> | <b>180.0</b> |
| <b>0.0</b>                      | <b>0.00</b>  |
| <b>15.0</b>                     | <b>0.00</b>  |
| <b>30.0</b>                     | <b>0.00</b>  |
| <b>45.0</b>                     | <b>0.00</b>  |
| <b>60.0</b>                     | <b>0.00</b>  |
| <b>75.0</b>                     | <b>0.00</b>  |
| <b>90.0</b>                     | <b>0.00</b>  |
| <b>105.0</b>                    | <b>0.00</b>  |
| <b>120.0</b>                    | <b>0.00</b>  |
| <b>135.0</b>                    | <b>0.00</b>  |
| <b>150.0</b>                    | <b>0.00</b>  |
| <b>165.0</b>                    | <b>0.00</b>  |
| <b>180.0</b>                    | <b>0.00</b>  |
| <b>195.0</b>                    | <b>0.00</b>  |
| <b>210.0</b>                    | <b>0.00</b>  |
| <b>225.0</b>                    | <b>0.00</b>  |
| <b>240.0</b>                    | <b>0.00</b>  |
| <b>255.0</b>                    | <b>0.00</b>  |
| <b>270.0</b>                    | <b>0.00</b>  |
| <b>285.0</b>                    | <b>0.00</b>  |
| <b>300.0</b>                    | <b>0.00</b>  |
| <b>315.0</b>                    | <b>0.00</b>  |
| <b>330.0</b>                    | <b>0.00</b>  |
| <b>345.0</b>                    | <b>0.00</b>  |
| <b>360.0</b>                    | <b>0.00</b>  |