



Bell-Southcn Testing Laboratory(Shenzhen)

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Client:

LumCAT: B1409-TBK

Luminaire:

Report No:

Ballast type:

Test No: BST24062902-9

Voltage(V): 120.100

LampCAT:

Current(A): 0.075

Lamp flux(lm): 740.0

Power (W): 8.590

Number of Lamps: 1

PF: 0.952

Length(mm): 180

Width(mm): 180

Phm Type: C

Height(mm): 0

#### Photometric Results

Lumens(lm): 429.44, Efficiency(%): 58.03% , Luminous Efficacy(lm/W): 49.99

Central intensity(cd): 125.55, Maximum intensity(cd): 136.00

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

Beam Angle(50%Imax): [C0/180]Total=136.2

[C90/270]Total=134.6

Field angle(10%Imax): [C0/180]Total=154.8

[C90/270]Total=155.0

Maximum s/h(1/2): C0\_180=1.46 C90\_270=1.31

Maximum s/h(1/4): C0\_180=1.59 C90\_270=1.49

Up flux rate of lamp(%): 0.06%

Down flux rate of lamp(%): 57.97%

Up flux rate of LUM(%): 0.10%

Down flux rate of LUM(%): 99.90%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 76.873%

Equipment: GMS-1800  
Temperature(°C): 25.0

Date: 2024-06-29  
Humidity(%): 59.0%

Operator: Liao  
Distance(m): 10.87

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0                | 125.549       | 0.000       | 0.000     | 0.000%      | 0.000%     |
| 1.0                | 125.527       | 0.120       | 0.120     | 0.016%      | 0.028%     |
| 2.0                | 125.468       | 0.360       | 0.480     | 0.049%      | 0.112%     |
| 3.0                | 125.424       | 0.600       | 1.080     | 0.081%      | 0.252%     |
| 4.0                | 125.305       | 0.839       | 1.920     | 0.113%      | 0.447%     |
| 5.0                | 125.136       | 1.077       | 2.997     | 0.146%      | 0.698%     |
| 6.0                | 124.980       | 1.314       | 4.312     | 0.178%      | 1.004%     |
| 7.0                | 124.715       | 1.550       | 5.861     | 0.209%      | 1.365%     |
| 8.0                | 124.500       | 1.784       | 7.645     | 0.241%      | 1.780%     |
| 9.0                | 124.212       | 2.016       | 9.661     | 0.272%      | 2.250%     |
| 10.0               | 123.880       | 2.245       | 11.906    | 0.303%      | 2.772%     |
| 11.0               | 123.629       | 2.473       | 14.379    | 0.334%      | 3.348%     |
| 12.0               | 123.223       | 2.698       | 17.077    | 0.365%      | 3.977%     |
| 13.0               | 122.846       | 2.920       | 19.998    | 0.395%      | 4.657%     |
| 14.0               | 122.403       | 3.139       | 23.137    | 0.424%      | 5.388%     |
| 15.0               | 121.908       | 3.354       | 26.491    | 0.453%      | 6.169%     |
| 16.0               | 121.561       | 3.568       | 30.058    | 0.482%      | 6.999%     |
| 17.0               | 121.044       | 3.778       | 33.836    | 0.511%      | 7.879%     |
| 18.0               | 120.535       | 3.983       | 37.819    | 0.538%      | 8.807%     |
| 19.0               | 120.084       | 4.186       | 42.006    | 0.566%      | 9.782%     |
| 20.0               | 119.434       | 4.384       | 46.390    | 0.592%      | 10.802%    |
| 21.0               | 118.977       | 4.578       | 50.968    | 0.619%      | 11.868%    |
| 22.0               | 118.342       | 4.769       | 55.737    | 0.644%      | 12.979%    |
| 23.0               | 117.699       | 4.953       | 60.689    | 0.669%      | 14.132%    |
| 24.0               | 117.285       | 5.138       | 65.827    | 0.694%      | 15.329%    |
| 25.0               | 116.599       | 5.318       | 71.145    | 0.719%      | 16.567%    |
| 26.0               | 115.912       | 5.488       | 76.633    | 0.742%      | 17.845%    |
| 27.0               | 115.277       | 5.656       | 82.289    | 0.764%      | 19.162%    |
| 28.0               | 114.524       | 5.818       | 88.108    | 0.786%      | 20.517%    |
| 29.0               | 114.103       | 5.982       | 94.089    | 0.808%      | 21.910%    |
| 30.0               | 113.320       | 6.140       | 100.229   | 0.830%      | 23.340%    |
| 31.0               | 112.522       | 6.285       | 106.514   | 0.849%      | 24.803%    |
| 32.0               | 111.917       | 6.430       | 112.944   | 0.869%      | 26.300%    |
| 33.0               | 111.067       | 6.569       | 119.513   | 0.888%      | 27.830%    |
| 34.0               | 110.440       | 6.703       | 126.217   | 0.906%      | 29.391%    |
| 35.0               | 109.583       | 6.833       | 133.050   | 0.923%      | 30.982%    |
| 36.0               | 108.749       | 6.952       | 140.002   | 0.939%      | 32.601%    |
| 37.0               | 108.202       | 7.076       | 147.077   | 0.956%      | 34.249%    |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0               | 107.286       | 7.193       | 154.270   | 0.972%      | 35.924%    |
| 39.0               | 106.467       | 7.296       | 161.566   | 0.986%      | 37.622%    |
| 40.0               | 105.632       | 7.397       | 168.963   | 1.000%      | 39.345%    |
| 41.0               | 104.643       | 7.488       | 176.451   | 1.012%      | 41.089%    |
| 42.0               | 104.059       | 7.583       | 184.034   | 1.025%      | 42.854%    |
| 43.0               | 103.033       | 7.671       | 191.705   | 1.037%      | 44.641%    |
| 44.0               | 102.014       | 7.739       | 199.444   | 1.046%      | 46.443%    |
| 45.0               | 101.253       | 7.812       | 207.256   | 1.056%      | 48.262%    |
| 46.0               | 100.064       | 7.873       | 215.129   | 1.064%      | 50.095%    |
| 47.0               | 99.193        | 7.925       | 223.054   | 1.071%      | 51.941%    |
| 48.0               | 98.151        | 7.978       | 231.031   | 1.078%      | 53.798%    |
| 49.0               | 97.110        | 8.019       | 239.050   | 1.084%      | 55.666%    |
| 50.0               | 96.482        | 8.072       | 247.122   | 1.091%      | 57.545%    |
| 51.0               | 95.537        | 8.124       | 255.246   | 1.098%      | 59.437%    |
| 52.0               | 94.777        | 8.167       | 263.412   | 1.104%      | 61.339%    |
| 53.0               | 94.023        | 8.213       | 271.625   | 1.110%      | 63.251%    |
| 54.0               | 93.204        | 8.252       | 279.877   | 1.115%      | 65.173%    |
| 55.0               | 92.694        | 8.298       | 288.175   | 1.121%      | 67.105%    |
| 56.0               | 91.904        | 8.341       | 296.517   | 1.127%      | 69.047%    |
| 57.0               | 91.084        | 8.367       | 304.883   | 1.131%      | 70.996%    |
| 58.0               | 90.508        | 8.397       | 313.281   | 1.135%      | 72.951%    |
| 59.0               | 89.526        | 8.417       | 321.698   | 1.137%      | 74.911%    |
| 60.0               | 88.817        | 8.426       | 330.123   | 1.139%      | 76.873%    |
| 61.0               | 87.192        | 8.400       | 338.523   | 1.135%      | 78.829%    |
| 62.0               | 84.903        | 8.293       | 346.815   | 1.121%      | 80.760%    |
| 63.0               | 82.924        | 8.162       | 354.977   | 1.103%      | 82.661%    |
| 64.0               | 78.884        | 7.940       | 362.917   | 1.073%      | 84.509%    |
| 65.0               | 74.594        | 7.596       | 370.513   | 1.026%      | 86.278%    |
| 66.0               | 69.986        | 7.214       | 377.726   | 0.975%      | 87.958%    |
| 67.0               | 64.322        | 6.753       | 384.480   | 0.913%      | 89.531%    |
| 68.0               | 60.659        | 6.331       | 390.811   | 0.856%      | 91.005%    |
| 69.0               | 54.921        | 5.896       | 396.707   | 0.797%      | 92.378%    |
| 70.0               | 49.190        | 5.347       | 402.054   | 0.723%      | 93.623%    |
| 71.0               | 44.715        | 4.854       | 406.908   | 0.656%      | 94.753%    |
| 72.0               | 38.423        | 4.323       | 411.231   | 0.584%      | 95.760%    |
| 73.0               | 34.059        | 3.790       | 415.021   | 0.512%      | 96.642%    |
| 74.0               | 28.852        | 3.307       | 418.328   | 0.447%      | 97.413%    |
| 75.0               | 23.506        | 2.766       | 421.095   | 0.374%      | 98.057%    |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0               | 19.850        | 2.302       | 423.396   | 0.311%      | 98.593%    |
| 77.0               | 15.154        | 1.866       | 425.263   | 0.252%      | 99.027%    |
| 78.0               | 10.789        | 1.389       | 426.651   | 0.188%      | 99.351%    |
| 79.0               | 7.385         | 0.976       | 427.628   | 0.132%      | 99.578%    |
| 80.0               | 4.593         | 0.646       | 428.274   | 0.087%      | 99.728%    |
| 81.0               | 2.983         | 0.410       | 428.683   | 0.055%      | 99.824%    |
| 82.0               | 1.086         | 0.221       | 428.904   | 0.030%      | 99.875%    |
| 83.0               | 0.266         | 0.073       | 428.977   | 0.010%      | 99.892%    |
| 84.0               | 0.074         | 0.019       | 428.996   | 0.003%      | 99.897%    |
| 85.0               | 0.000         | 0.004       | 429.000   | 0.001%      | 99.898%    |
| 86.0               | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 87.0               | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 88.0               | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 89.0               | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 90.0               | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 91.0               | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 92.0               | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 93.0               | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 94.0               | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 95.0               | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 96.0               | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 97.0               | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 98.0               | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 99.0               | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 100.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 101.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 102.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 103.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 104.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 105.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 106.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 107.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 108.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 109.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 110.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 111.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 112.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 113.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |

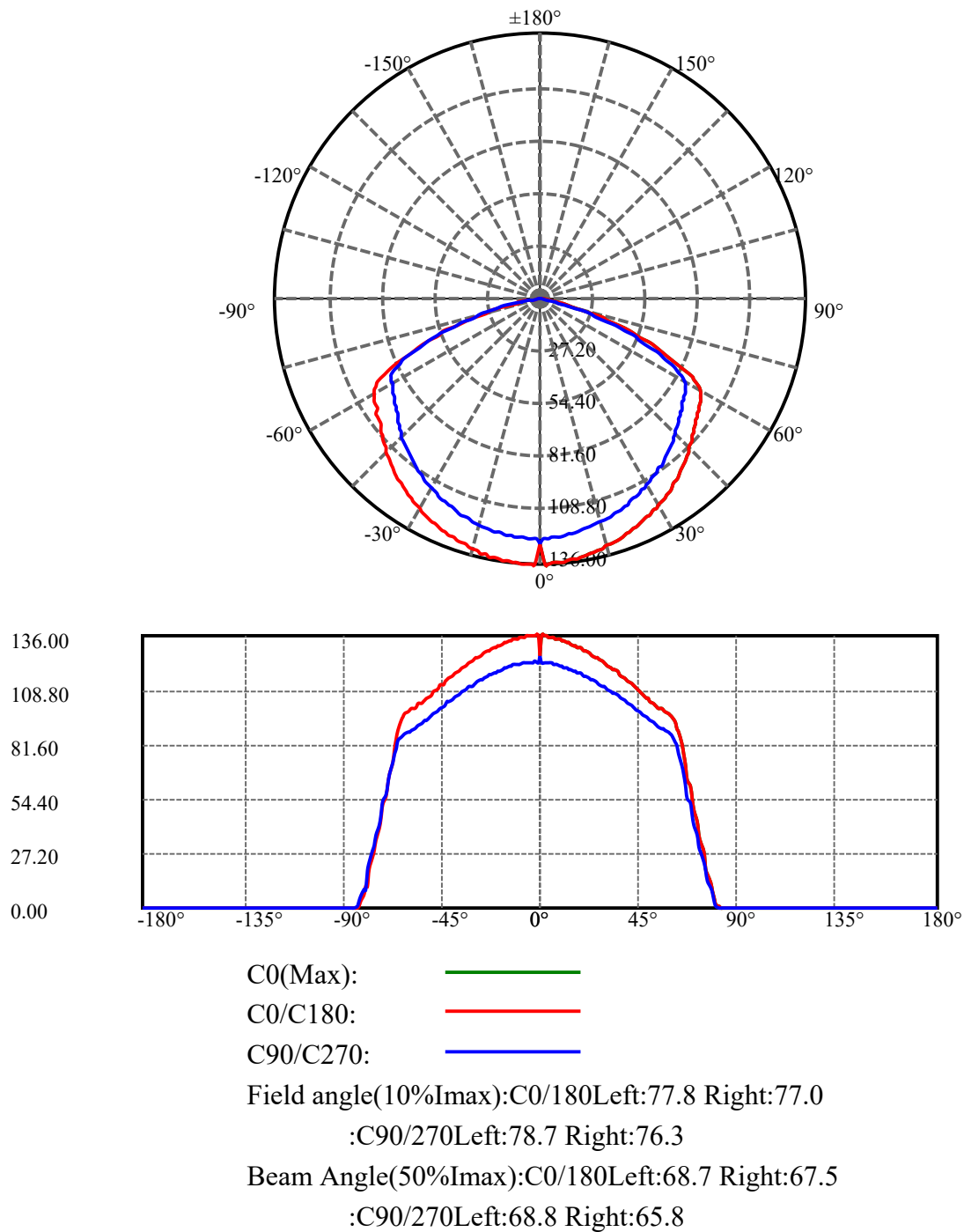
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 114.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 115.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 116.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 117.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 118.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 119.0              | 0.000         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 120.0              | 0.007         | 0.000       | 429.000   | 0.000%      | 99.898%    |
| 121.0              | 0.007         | 0.001       | 429.001   | 0.000%      | 99.898%    |
| 122.0              | 0.015         | 0.001       | 429.002   | 0.000%      | 99.898%    |
| 123.0              | 0.022         | 0.002       | 429.004   | 0.000%      | 99.898%    |
| 124.0              | 0.022         | 0.002       | 429.006   | 0.000%      | 99.899%    |
| 125.0              | 0.037         | 0.003       | 429.008   | 0.000%      | 99.899%    |
| 126.0              | 0.030         | 0.003       | 429.011   | 0.000%      | 99.900%    |
| 127.0              | 0.052         | 0.004       | 429.015   | 0.000%      | 99.901%    |
| 128.0              | 0.081         | 0.006       | 429.021   | 0.001%      | 99.902%    |
| 129.0              | 0.096         | 0.008       | 429.028   | 0.001%      | 99.904%    |
| 130.0              | 0.096         | 0.008       | 429.036   | 0.001%      | 99.906%    |
| 131.0              | 0.111         | 0.009       | 429.045   | 0.001%      | 99.908%    |
| 132.0              | 0.118         | 0.009       | 429.054   | 0.001%      | 99.910%    |
| 133.0              | 0.118         | 0.010       | 429.064   | 0.001%      | 99.912%    |
| 134.0              | 0.126         | 0.010       | 429.074   | 0.001%      | 99.915%    |
| 135.0              | 0.126         | 0.010       | 429.084   | 0.001%      | 99.917%    |
| 136.0              | 0.126         | 0.010       | 429.093   | 0.001%      | 99.919%    |
| 137.0              | 0.126         | 0.009       | 429.103   | 0.001%      | 99.921%    |
| 138.0              | 0.126         | 0.009       | 429.112   | 0.001%      | 99.924%    |
| 139.0              | 0.133         | 0.009       | 429.121   | 0.001%      | 99.926%    |
| 140.0              | 0.126         | 0.009       | 429.131   | 0.001%      | 99.928%    |
| 141.0              | 0.133         | 0.009       | 429.140   | 0.001%      | 99.930%    |
| 142.0              | 0.148         | 0.010       | 429.149   | 0.001%      | 99.932%    |
| 143.0              | 0.148         | 0.010       | 429.159   | 0.001%      | 99.935%    |
| 144.0              | 0.162         | 0.010       | 429.169   | 0.001%      | 99.937%    |
| 145.0              | 0.170         | 0.011       | 429.180   | 0.001%      | 99.939%    |
| 146.0              | 0.185         | 0.011       | 429.191   | 0.001%      | 99.942%    |
| 147.0              | 0.192         | 0.011       | 429.202   | 0.002%      | 99.945%    |
| 148.0              | 0.214         | 0.012       | 429.214   | 0.002%      | 99.947%    |
| 149.0              | 0.236         | 0.013       | 429.227   | 0.002%      | 99.950%    |
| 150.0              | 0.214         | 0.013       | 429.240   | 0.002%      | 99.953%    |
| 151.0              | 0.229         | 0.012       | 429.251   | 0.002%      | 99.956%    |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 152.0              | 0.229         | 0.012       | 429.263   | 0.002%      | 99.959%    |
| 153.0              | 0.229         | 0.012       | 429.275   | 0.002%      | 99.962%    |
| 154.0              | 0.222         | 0.011       | 429.286   | 0.001%      | 99.964%    |
| 155.0              | 0.236         | 0.011       | 429.297   | 0.001%      | 99.967%    |
| 156.0              | 0.236         | 0.011       | 429.308   | 0.001%      | 99.969%    |
| 157.0              | 0.236         | 0.010       | 429.318   | 0.001%      | 99.972%    |
| 158.0              | 0.236         | 0.010       | 429.328   | 0.001%      | 99.974%    |
| 159.0              | 0.244         | 0.010       | 429.338   | 0.001%      | 99.976%    |
| 160.0              | 0.236         | 0.009       | 429.347   | 0.001%      | 99.978%    |
| 161.0              | 0.236         | 0.009       | 429.355   | 0.001%      | 99.980%    |
| 162.0              | 0.236         | 0.008       | 429.364   | 0.001%      | 99.982%    |
| 163.0              | 0.244         | 0.008       | 429.372   | 0.001%      | 99.984%    |
| 164.0              | 0.244         | 0.008       | 429.379   | 0.001%      | 99.986%    |
| 165.0              | 0.236         | 0.007       | 429.386   | 0.001%      | 99.987%    |
| 166.0              | 0.244         | 0.007       | 429.393   | 0.001%      | 99.989%    |
| 167.0              | 0.244         | 0.006       | 429.399   | 0.001%      | 99.990%    |
| 168.0              | 0.244         | 0.006       | 429.405   | 0.001%      | 99.992%    |
| 169.0              | 0.251         | 0.005       | 429.410   | 0.001%      | 99.993%    |
| 170.0              | 0.251         | 0.005       | 429.415   | 0.001%      | 99.994%    |
| 171.0              | 0.258         | 0.005       | 429.420   | 0.001%      | 99.995%    |
| 172.0              | 0.251         | 0.004       | 429.424   | 0.001%      | 99.996%    |
| 173.0              | 0.273         | 0.004       | 429.428   | 0.001%      | 99.997%    |
| 174.0              | 0.258         | 0.003       | 429.431   | 0.000%      | 99.998%    |
| 175.0              | 0.266         | 0.003       | 429.434   | 0.000%      | 99.999%    |
| 176.0              | 0.258         | 0.002       | 429.436   | 0.000%      | 99.999%    |
| 177.0              | 0.266         | 0.002       | 429.438   | 0.000%      | 99.999%    |
| 178.0              | 0.258         | 0.001       | 429.439   | 0.000%      | 100.000%   |
| 179.0              | 0.273         | 0.001       | 429.440   | 0.000%      | 100.000%   |
| 180.0              | 0.266         | 0.000       | 429.440   | 0.000%      | 100.000%   |

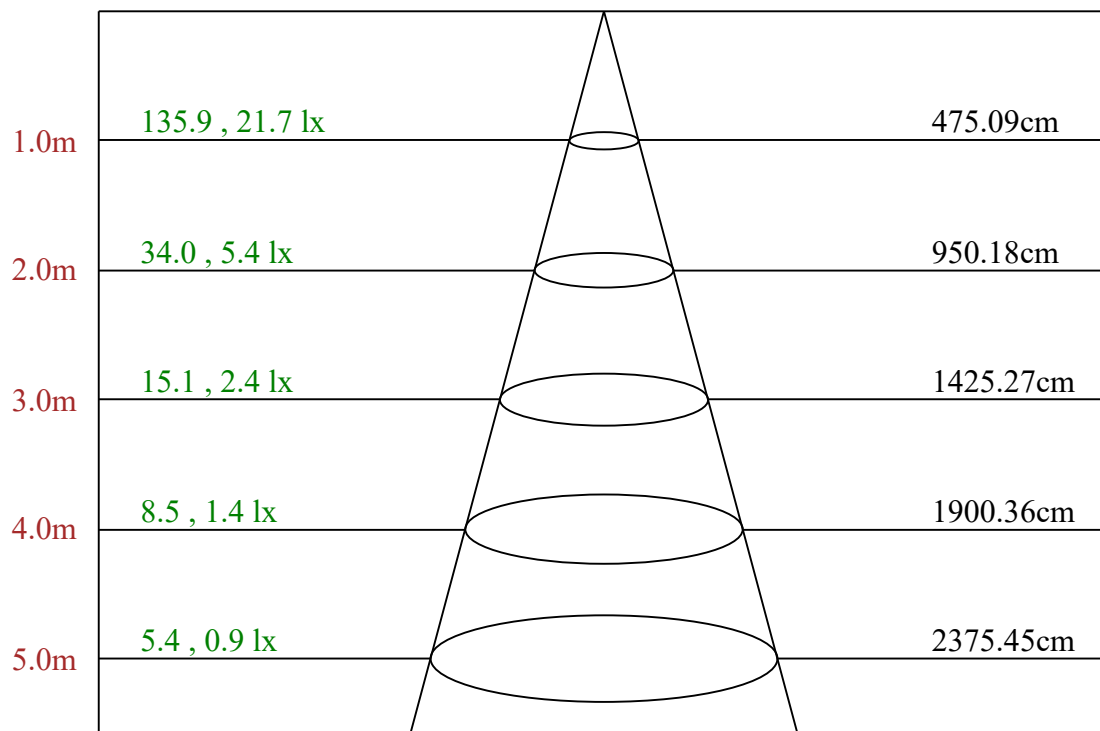
| ZONAL LUMEN SUMMARY |        |        |         |
|---------------------|--------|--------|---------|
| Zone                | Lumens | %Lamp  | %Fixt   |
| 0-30                | 100.23 | 13.54% | 23.34%  |
| 0-40                | 168.96 | 22.83% | 39.35%  |
| 0-60                | 330.12 | 44.61% | 76.87%  |
| 0-90                | 429.00 | 57.97% | 99.90%  |
| 0-120               | 429.00 | 57.97% | 99.90%  |
| 0-180               | 429.44 | 58.03% | 100.00% |
| 60-90               | 98.88  | 13.36% | 23.02%  |
| 90-120              | 0.00   | 0.00%  | 0.00%   |
| 90-130              | 0.04   | 0.00%  | 0.01%   |
| 90-150              | 0.24   | 0.03%  | 0.06%   |
| 90-180              | 0.44   | 0.06%  | 0.10%   |
| 0-61.61             | 343.55 | 46.43% | 80.00%  |

ZONAL LUMEN SUMMARY

|         |       |
|---------|-------|
| 0-10    | 11.91 |
| 10-20   | 34.48 |
| 20-30   | 53.84 |
| 30-40   | 68.73 |
| 40-50   | 78.16 |
| 50-60   | 83.00 |
| 60-70   | 71.93 |
| 70-80   | 26.22 |
| 80-90   | 0.73  |
| 90-100  | 0.00  |
| 100-110 | 0.00  |
| 110-120 | 0.00  |
| 120-130 | 0.04  |
| 130-140 | 0.09  |
| 140-150 | 0.11  |
| 150-160 | 0.11  |
| 160-170 | 0.07  |
| 170-180 | 0.02  |

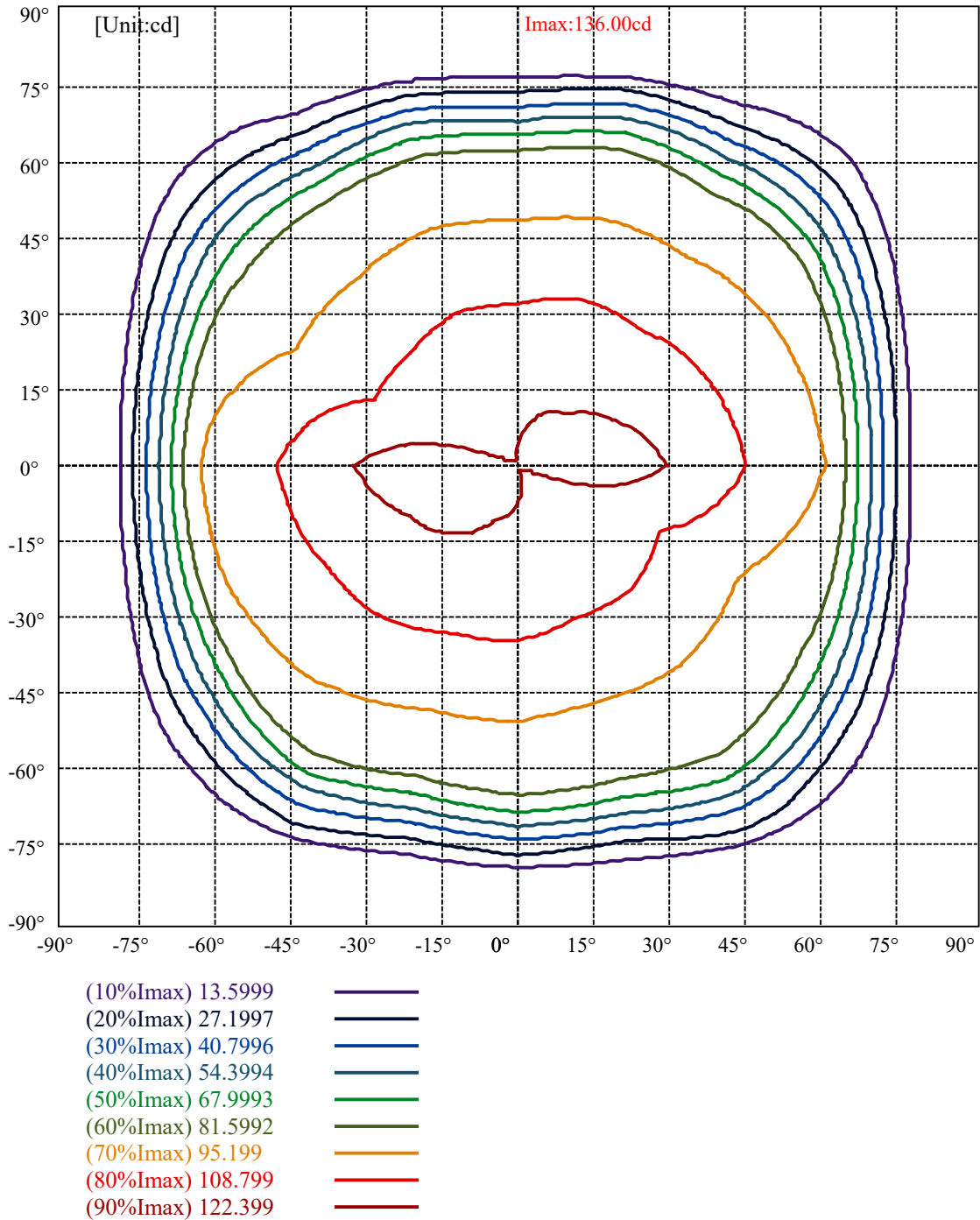


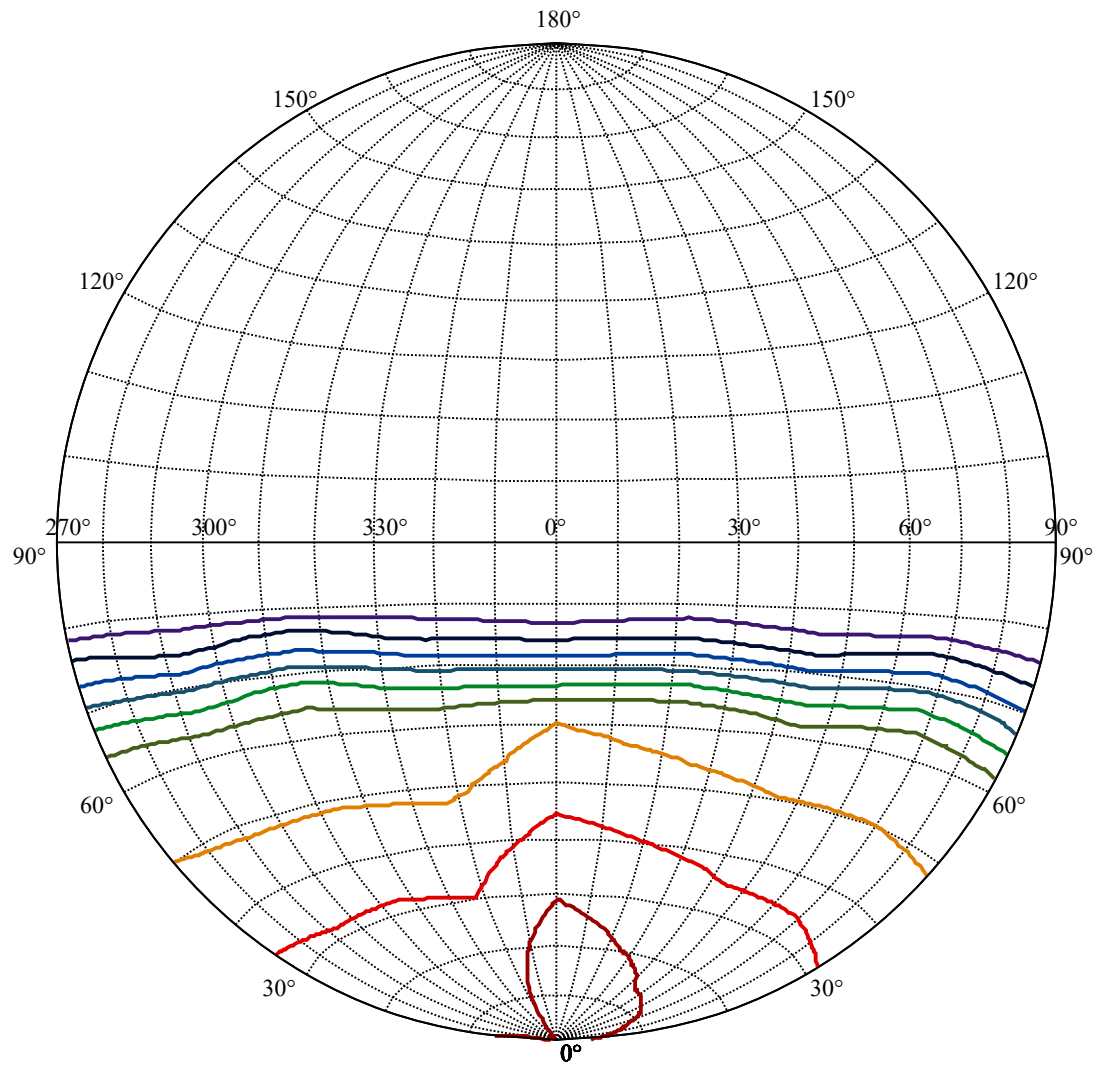




Max , Ave

Beam angle of C0 plane 134.34



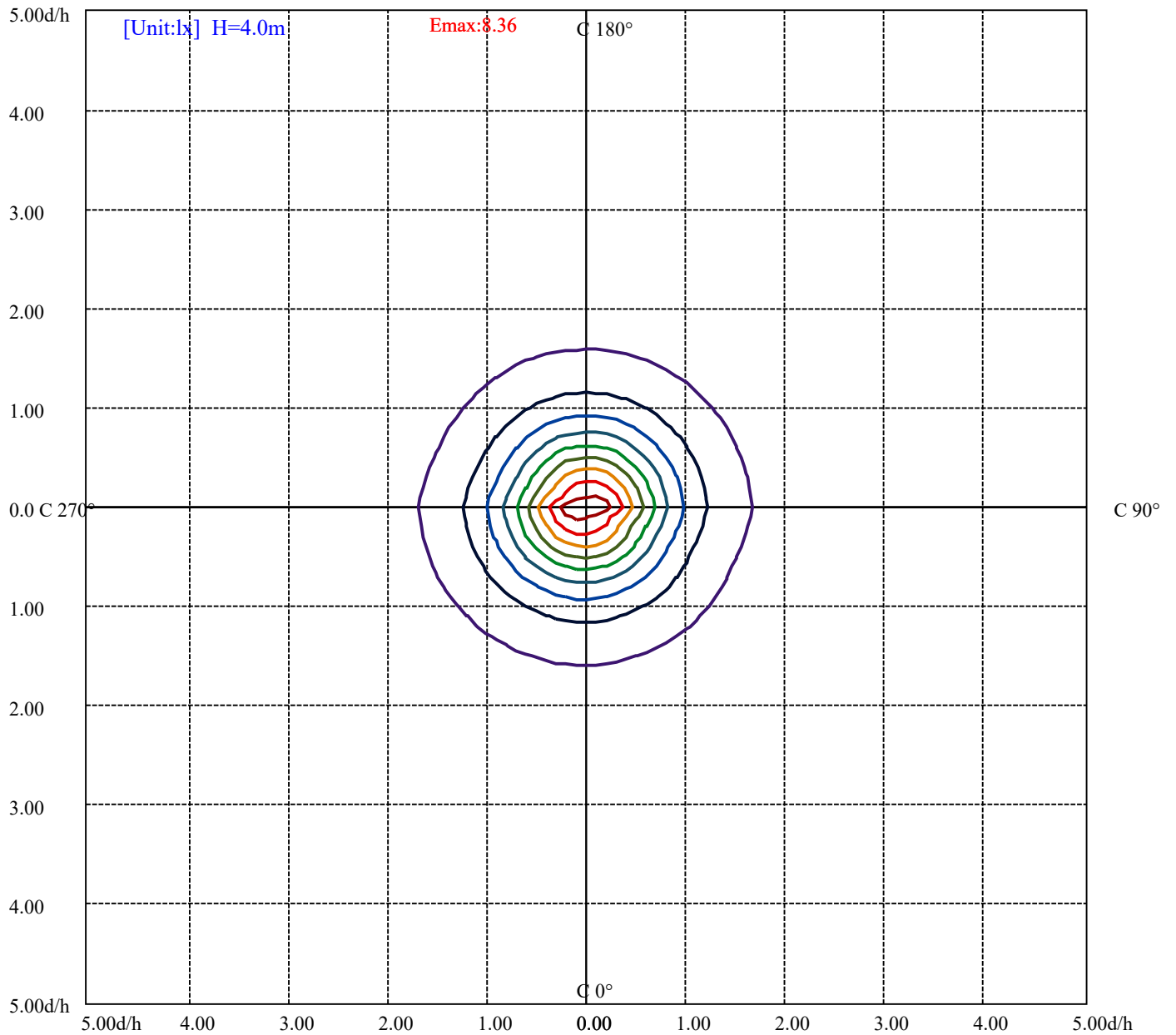


House

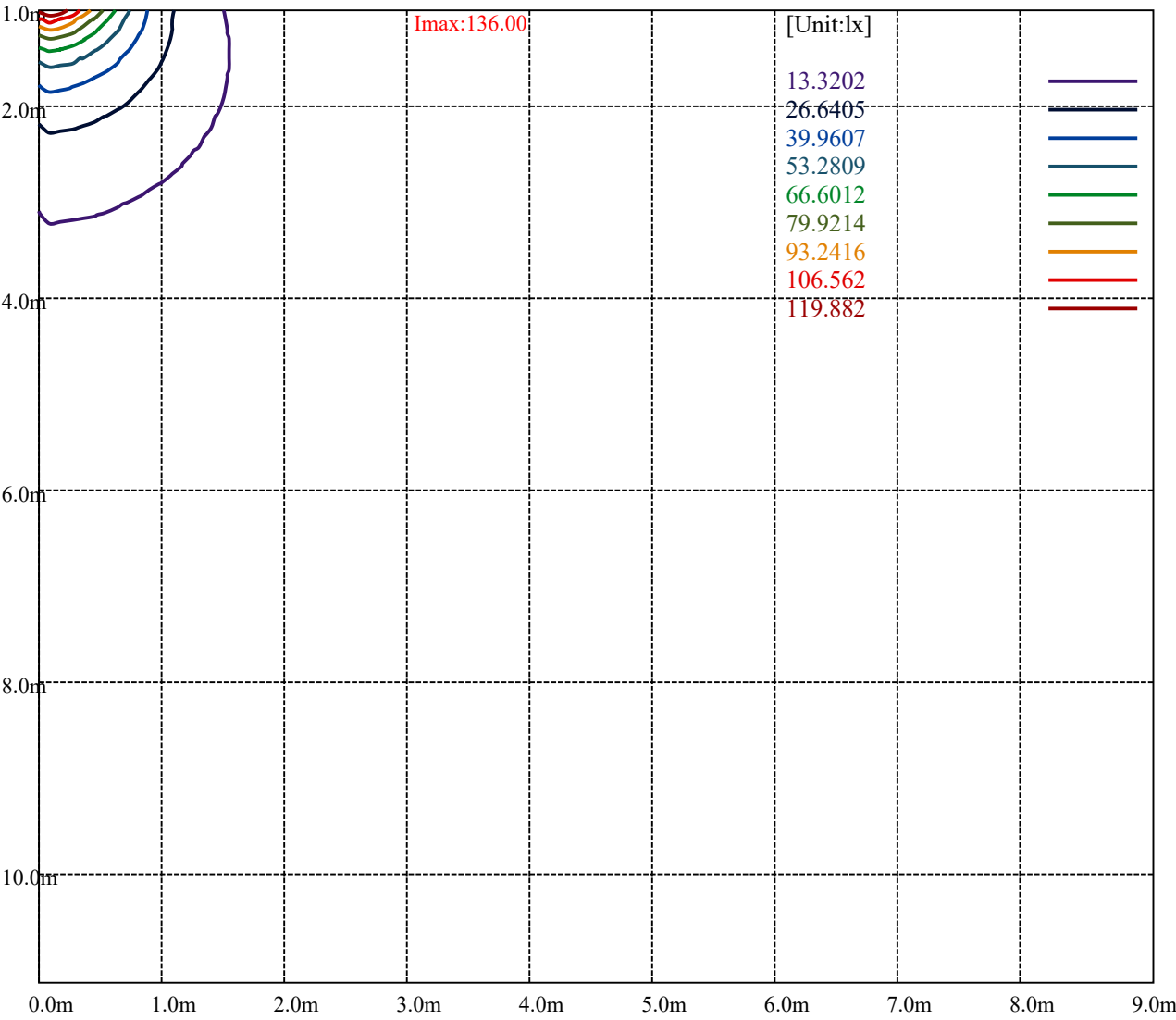
[Unit:cd]

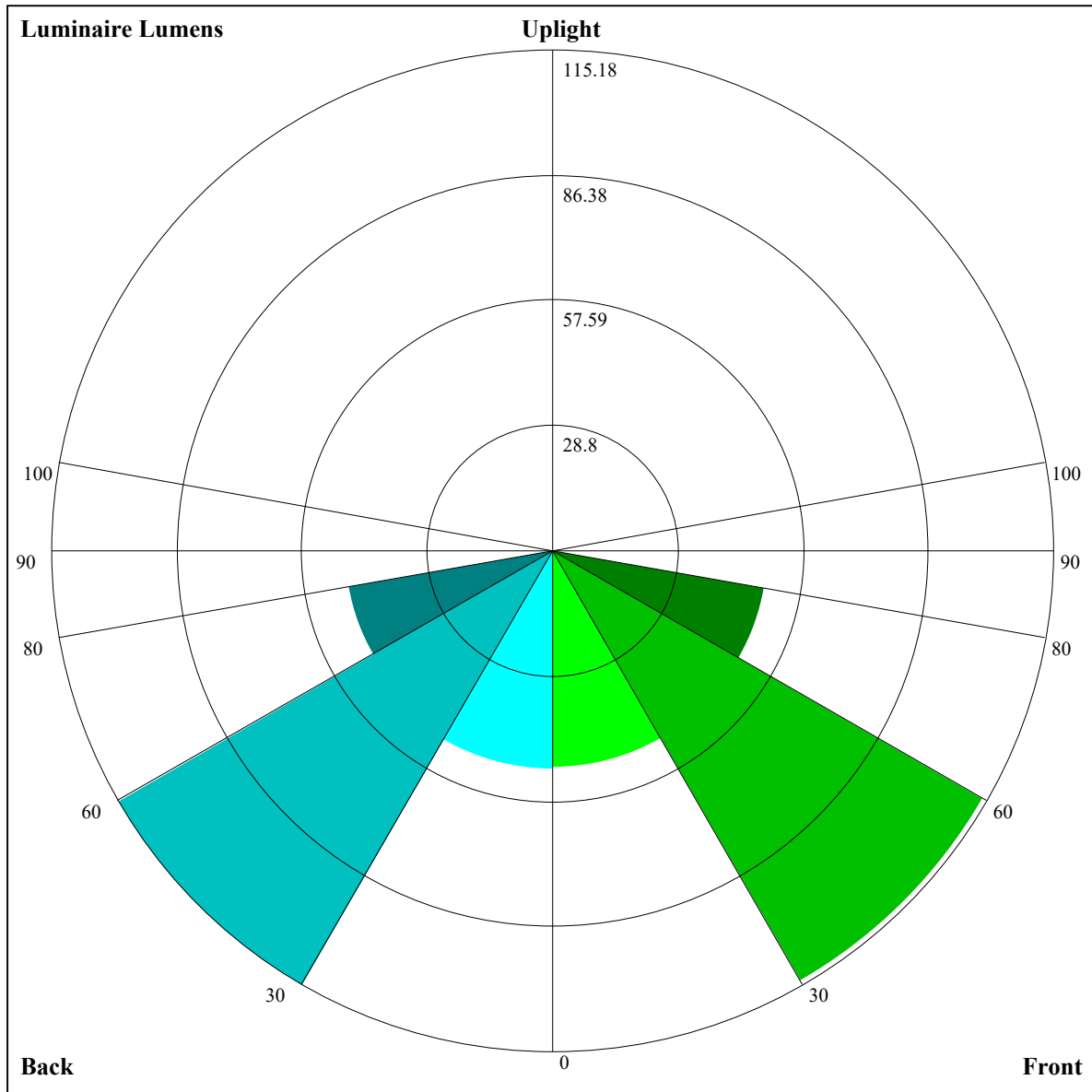
Road

|                   |  |
|-------------------|--|
| Imax:136.00       |  |
| (10%Imax) 13.5999 |  |
| (20%Imax) 27.1997 |  |
| (30%Imax) 40.7996 |  |
| (40%Imax) 54.3994 |  |
| (50%Imax) 67.9993 |  |
| (60%Imax) 81.5992 |  |
| (70%Imax) 95.199  |  |
| (80%Imax) 108.799 |  |
| (90%Imax) 122.399 |  |



|                     |   |
|---------------------|---|
| (10%Emax) 0.8359312 | — |
| (20%Emax) 1.671869  | — |
| (30%Emax) 2.5078    | — |
| (40%Emax) 3.343731  | — |
| (50%Emax) 4.179669  | — |
| (60%Emax) 5.0156    | — |
| (70%Emax) 5.851531  | — |
| (80%Emax) 6.687438  | — |
| (90%Emax) 7.523375  | — |





Luminaire Lumens:

FL=49.88,FM=114.22,FH=49.65,FVH=0.33

BL=50.07,BM=115.18,BH=47.97,BVH=0.22

UL=0,UH=0

BUG Rating:B0-U0-G0

## Intensity data(cd)

Appendix Page: 15 Total:21

| C/γ(°) | 0.0    | 1.0    | 2.0    | 3.0    | 4.0    | 5.0    | 6.0    | 7.0    | 8.0    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0    | 125.55 | 135.88 | 135.76 | 135.64 | 135.53 | 135.29 | 135.17 | 134.70 | 134.58 |
| 22.5   | 125.55 | 129.97 | 129.85 | 129.74 | 129.50 | 129.26 | 129.15 | 128.91 | 128.55 |
| 45.0   | 125.55 | 126.43 | 126.07 | 126.07 | 125.84 | 125.60 | 125.36 | 125.13 | 124.89 |
| 67.5   | 125.55 | 124.30 | 124.18 | 124.18 | 124.06 | 123.83 | 123.71 | 123.36 | 123.12 |
| 90.0   | 125.55 | 122.77 | 122.65 | 122.53 | 122.41 | 122.17 | 121.94 | 121.58 | 121.35 |
| 112.5  | 125.55 | 122.17 | 122.06 | 121.94 | 121.82 | 121.58 | 121.47 | 121.23 | 120.99 |
| 135.0  | 125.55 | 121.35 | 121.35 | 121.23 | 120.99 | 120.87 | 120.52 | 120.17 | 120.05 |
| 157.5  | 125.55 | 121.11 | 120.99 | 120.99 | 120.87 | 120.64 | 120.52 | 120.28 | 120.05 |
| 180.0  | 125.55 | 136.00 | 136.00 | 136.00 | 136.00 | 135.76 | 135.76 | 135.53 | 135.17 |
| 202.5  | 125.55 | 129.97 | 129.97 | 130.09 | 129.97 | 129.85 | 129.74 | 129.50 | 129.38 |
| 225.0  | 125.55 | 126.55 | 126.66 | 126.66 | 126.66 | 126.55 | 126.43 | 126.31 | 125.96 |
| 247.5  | 125.55 | 124.30 | 124.30 | 124.30 | 124.18 | 124.06 | 123.83 | 123.59 | 123.47 |
| 270.0  | 125.55 | 122.88 | 123.00 | 122.88 | 122.77 | 122.77 | 122.65 | 122.41 | 122.29 |
| 292.5  | 125.55 | 122.17 | 122.06 | 121.94 | 121.82 | 121.82 | 121.58 | 121.35 | 121.23 |
| 315.0  | 125.55 | 121.47 | 121.47 | 121.47 | 121.35 | 121.35 | 121.23 | 120.99 | 120.76 |
| 337.5  | 125.55 | 121.11 | 121.11 | 121.11 | 120.99 | 120.76 | 120.64 | 120.40 | 120.17 |
| 360.0  | 125.55 | 135.88 | 135.76 | 135.64 | 135.53 | 135.29 | 135.17 | 134.70 | 134.58 |
| C/γ(°) | 9.0    | 10.0   | 11.0   | 12.0   | 13.0   | 14.0   | 15.0   | 16.0   | 17.0   |
| 0.0    | 134.23 | 133.87 | 133.16 | 132.81 | 132.34 | 131.86 | 131.27 | 130.92 | 130.45 |
| 22.5   | 128.32 | 127.96 | 127.73 | 127.25 | 126.78 | 126.31 | 125.84 | 125.25 | 124.66 |
| 45.0   | 124.54 | 123.95 | 123.71 | 123.24 | 123.00 | 122.41 | 121.82 | 121.58 | 121.11 |
| 67.5   | 122.77 | 122.53 | 122.29 | 121.94 | 121.47 | 121.11 | 120.64 | 120.05 | 119.57 |
| 90.0   | 120.99 | 120.64 | 120.28 | 119.81 | 119.46 | 118.98 | 118.39 | 118.04 | 117.57 |
| 112.5  | 120.64 | 120.40 | 120.17 | 119.69 | 119.22 | 118.87 | 118.39 | 118.16 | 117.57 |
| 135.0  | 119.81 | 119.22 | 118.98 | 118.51 | 118.28 | 117.68 | 117.21 | 116.86 | 116.38 |
| 157.5  | 119.57 | 119.34 | 119.22 | 118.75 | 118.39 | 117.92 | 117.45 | 116.98 | 116.62 |
| 180.0  | 135.05 | 134.70 | 134.58 | 134.11 | 133.87 | 133.28 | 132.81 | 132.22 | 131.74 |
| 202.5  | 129.03 | 128.67 | 128.55 | 128.20 | 127.85 | 127.37 | 126.90 | 126.55 | 126.07 |
| 225.0  | 125.84 | 125.60 | 125.36 | 125.13 | 124.77 | 124.30 | 123.95 | 123.83 | 123.12 |
| 247.5  | 123.24 | 123.00 | 122.53 | 122.17 | 121.82 | 121.47 | 120.87 | 120.64 | 120.17 |
| 270.0  | 122.06 | 121.82 | 121.70 | 121.23 | 120.87 | 120.52 | 120.05 | 119.93 | 119.22 |
| 292.5  | 120.87 | 120.52 | 120.28 | 119.93 | 119.46 | 119.10 | 118.63 | 118.28 | 117.80 |
| 315.0  | 120.52 | 120.28 | 120.17 | 119.81 | 119.46 | 119.10 | 118.75 | 118.39 | 117.80 |
| 337.5  | 119.93 | 119.57 | 119.34 | 118.98 | 118.51 | 118.16 | 117.57 | 117.33 | 116.86 |
| 360.0  | 134.23 | 133.87 | 133.16 | 132.81 | 132.34 | 131.86 | 131.27 | 130.92 | 130.45 |
| C/γ(°) | 18.0   | 19.0   | 20.0   | 21.0   | 22.0   | 23.0   | 24.0   | 25.0   | 26.0   |
| 0.0    | 129.97 | 129.38 | 128.55 | 128.20 | 127.25 | 126.90 | 126.19 | 125.36 | 124.66 |
| 22.5   | 124.18 | 123.83 | 123.12 | 122.53 | 121.94 | 121.35 | 120.87 | 120.17 | 119.46 |
| 45.0   | 120.52 | 119.93 | 119.22 | 118.63 | 118.04 | 117.33 | 116.86 | 116.38 | 115.68 |
| 67.5   | 118.98 | 118.75 | 118.04 | 117.57 | 116.98 | 116.38 | 116.03 | 115.32 | 114.61 |
| 90.0   | 117.09 | 116.50 | 115.91 | 115.56 | 114.97 | 114.38 | 113.67 | 112.96 | 112.37 |
| 112.5  | 117.09 | 116.62 | 115.91 | 115.44 | 114.85 | 114.26 | 113.90 | 113.31 | 112.60 |
| 135.0  | 115.91 | 115.32 | 114.73 | 114.14 | 113.67 | 112.96 | 112.60 | 112.01 | 111.30 |
| 157.5  | 116.03 | 115.79 | 115.08 | 114.49 | 114.02 | 113.43 | 113.08 | 112.37 | 111.54 |
| 180.0  | 131.27 | 131.04 | 130.33 | 129.85 | 129.15 | 128.67 | 128.20 | 127.37 | 126.78 |
| 202.5  | 125.60 | 125.13 | 124.54 | 124.18 | 123.59 | 122.65 | 122.29 | 121.58 | 120.87 |
| 225.0  | 122.53 | 122.17 | 121.58 | 121.11 | 120.52 | 119.93 | 119.57 | 118.87 | 118.28 |
| 247.5  | 119.69 | 119.10 | 118.51 | 118.16 | 117.33 | 116.62 | 116.38 | 115.68 | 114.97 |
| 270.0  | 118.63 | 118.39 | 117.80 | 117.33 | 116.74 | 116.15 | 115.79 | 115.08 | 114.38 |
| 292.5  | 117.33 | 116.74 | 116.15 | 115.79 | 115.20 | 114.26 | 113.90 | 113.31 | 112.60 |
| 315.0  | 117.45 | 116.86 | 116.38 | 115.79 | 115.20 | 114.73 | 114.26 | 113.55 | 112.84 |
| 337.5  | 116.27 | 115.79 | 115.08 | 114.85 | 114.02 | 113.19 | 112.96 | 112.25 | 111.66 |
| 360.0  | 129.97 | 129.38 | 128.55 | 128.20 | 127.26 | 126.90 | 126.19 | 125.36 | 124.66 |

## B1409-TBK

Intensity data(cd)

Appendix Page: 16 Total:21

| C/γ(°) | 27.0   | 28.0   | 29.0   | 30.0   | 31.0   | 32.0   | 33.0   | 34.0   | 35.0   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0    | 124.06 | 123.12 | 122.53 | 121.82 | 120.99 | 120.28 | 119.34 | 118.75 | 117.92 |
| 22.5   | 118.75 | 118.04 | 117.68 | 116.86 | 115.79 | 115.32 | 114.38 | 113.67 | 112.84 |
| 45.0   | 114.97 | 114.02 | 113.67 | 112.84 | 112.25 | 111.19 | 110.48 | 110.00 | 108.94 |
| 67.5   | 114.02 | 113.31 | 112.96 | 112.13 | 111.19 | 110.71 | 109.89 | 109.18 | 108.35 |
| 90.0   | 111.66 | 110.95 | 110.48 | 109.89 | 109.18 | 108.47 | 107.64 | 107.17 | 106.10 |
| 112.5  | 112.01 | 111.30 | 110.95 | 110.24 | 109.30 | 108.82 | 108.23 | 107.29 | 106.58 |
| 135.0  | 110.71 | 109.89 | 109.53 | 108.82 | 108.23 | 107.40 | 106.70 | 106.34 | 105.28 |
| 157.5  | 111.19 | 110.59 | 110.24 | 109.18 | 108.47 | 108.00 | 107.29 | 106.58 | 105.87 |
| 180.0  | 125.96 | 125.13 | 124.89 | 123.83 | 123.00 | 122.53 | 121.58 | 120.76 | 120.05 |
| 202.5  | 120.28 | 119.57 | 119.10 | 118.39 | 117.68 | 117.09 | 116.03 | 115.56 | 114.38 |
| 225.0  | 117.57 | 116.98 | 116.50 | 115.68 | 114.61 | 114.26 | 113.31 | 112.60 | 111.78 |
| 247.5  | 114.26 | 113.43 | 113.08 | 112.37 | 111.66 | 110.83 | 109.89 | 109.41 | 108.70 |
| 270.0  | 113.79 | 112.96 | 112.25 | 111.54 | 110.83 | 110.48 | 109.65 | 108.94 | 108.11 |
| 292.5  | 112.01 | 111.19 | 110.71 | 110.00 | 109.30 | 108.59 | 107.76 | 106.93 | 106.22 |
| 315.0  | 112.25 | 111.66 | 111.30 | 110.48 | 109.53 | 109.06 | 108.23 | 107.52 | 106.70 |
| 337.5  | 110.95 | 110.24 | 109.77 | 109.06 | 108.35 | 107.64 | 106.70 | 106.34 | 105.51 |
| 360.0  | 124.06 | 123.12 | 122.53 | 121.82 | 120.99 | 120.28 | 119.34 | 118.75 | 117.92 |
| C/γ(°) | 36.0   | 37.0   | 38.0   | 39.0   | 40.0   | 41.0   | 42.0   | 43.0   | 44.0   |
| 0.0    | 116.62 | 116.03 | 115.08 | 114.14 | 113.31 | 112.01 | 111.54 | 110.48 | 109.41 |
| 22.5   | 112.01 | 111.42 | 110.36 | 109.53 | 108.70 | 107.76 | 106.70 | 105.75 | 104.81 |
| 45.0   | 108.00 | 107.52 | 106.70 | 105.87 | 105.04 | 103.98 | 103.27 | 102.44 | 101.38 |
| 67.5   | 107.64 | 107.17 | 106.22 | 105.28 | 104.57 | 103.74 | 103.15 | 102.21 | 100.91 |
| 90.0   | 105.63 | 104.81 | 103.86 | 103.03 | 102.21 | 101.14 | 100.67 | 99.72  | 98.90  |
| 112.5  | 105.87 | 105.40 | 104.57 | 103.74 | 102.91 | 102.21 | 101.61 | 100.55 | 99.25  |
| 135.0  | 104.33 | 103.98 | 103.15 | 102.44 | 101.50 | 100.55 | 100.08 | 99.13  | 98.07  |
| 157.5  | 105.16 | 104.69 | 103.74 | 103.03 | 102.21 | 101.38 | 100.91 | 99.84  | 98.66  |
| 180.0  | 119.10 | 118.63 | 117.57 | 116.86 | 115.91 | 114.85 | 113.90 | 112.96 | 111.89 |
| 202.5  | 113.43 | 113.08 | 112.13 | 111.30 | 110.36 | 109.30 | 108.70 | 107.76 | 106.81 |
| 225.0  | 110.95 | 110.48 | 109.53 | 108.70 | 108.00 | 106.93 | 106.46 | 104.92 | 103.98 |
| 247.5  | 107.88 | 106.93 | 106.10 | 105.63 | 104.45 | 103.27 | 102.80 | 101.73 | 100.91 |
| 270.0  | 107.29 | 106.81 | 105.87 | 104.69 | 104.21 | 103.27 | 102.91 | 101.50 | 100.67 |
| 292.5  | 105.28 | 104.81 | 103.98 | 103.15 | 102.32 | 101.26 | 100.79 | 99.84  | 99.02  |
| 315.0  | 105.99 | 105.63 | 104.69 | 103.86 | 103.03 | 102.21 | 101.61 | 100.67 | 99.49  |
| 337.5  | 104.81 | 103.86 | 103.03 | 102.21 | 101.38 | 100.43 | 99.84  | 99.02  | 98.07  |
| 360.0  | 116.62 | 116.03 | 115.08 | 114.14 | 113.31 | 112.01 | 111.54 | 110.48 | 109.41 |
| C/γ(°) | 45.0   | 46.0   | 47.0   | 48.0   | 49.0   | 50.0   | 51.0   | 52.0   | 53.0   |
| 0.0    | 108.35 | 107.05 | 106.34 | 104.81 | 104.33 | 103.39 | 102.44 | 101.61 | 100.91 |
| 22.5   | 104.21 | 102.91 | 101.85 | 100.79 | 99.72  | 99.25  | 98.07  | 97.24  | 96.53  |
| 45.0   | 100.43 | 99.25  | 98.19  | 97.24  | 96.18  | 95.71  | 94.88  | 94.29  | 93.46  |
| 67.5   | 100.32 | 99.25  | 98.19  | 97.24  | 96.18  | 95.59  | 94.53  | 93.82  | 92.99  |
| 90.0   | 97.83  | 96.77  | 96.06  | 95.12  | 94.29  | 93.34  | 92.64  | 92.28  | 91.22  |
| 112.5  | 98.78  | 97.60  | 96.65  | 95.71  | 94.88  | 94.29  | 93.34  | 92.64  | 91.93  |
| 135.0  | 97.12  | 95.94  | 95.00  | 94.17  | 93.46  | 92.99  | 92.28  | 91.69  | 90.86  |
| 157.5  | 98.19  | 97.01  | 96.06  | 95.00  | 94.05  | 93.58  | 92.75  | 92.04  | 91.34  |
| 180.0  | 111.30 | 110.00 | 108.94 | 107.88 | 106.70 | 105.99 | 104.92 | 103.74 | 103.39 |
| 202.5  | 105.75 | 104.57 | 103.86 | 102.80 | 101.26 | 100.79 | 99.96  | 99.25  | 98.54  |
| 225.0  | 103.51 | 102.32 | 101.38 | 100.32 | 99.25  | 98.54  | 97.36  | 96.53  | 95.83  |
| 247.5  | 99.96  | 98.78  | 98.07  | 96.65  | 96.06  | 95.23  | 94.29  | 93.58  | 92.87  |
| 270.0  | 100.08 | 98.90  | 97.95  | 97.01  | 95.94  | 95.23  | 94.17  | 93.34  | 92.52  |
| 292.5  | 98.07  | 96.89  | 96.30  | 95.35  | 93.70  | 93.11  | 92.40  | 91.45  | 90.74  |
| 315.0  | 98.90  | 97.72  | 96.89  | 95.94  | 94.88  | 94.29  | 93.11  | 92.16  | 91.34  |
| 337.5  | 97.24  | 96.06  | 95.35  | 94.41  | 92.87  | 92.40  | 91.45  | 90.74  | 89.92  |
| 360.0  | 108.35 | 107.05 | 106.34 | 104.81 | 104.33 | 103.39 | 102.44 | 101.61 | 100.91 |



## Intensity data(cd)

Appendix Page: 17 Total:21

| C/γ(°) | 54.0   | 55.0   | 56.0   | 57.0   | 58.0  | 59.0  | 60.0  | 61.0  | 62.0  |
|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0.0    | 99.84  | 99.37  | 98.54  | 97.72  | 97.01 | 95.94 | 95.47 | 93.23 | 89.44 |
| 22.5   | 95.71  | 95.23  | 94.29  | 93.23  | 92.75 | 91.81 | 90.98 | 90.15 | 88.62 |
| 45.0   | 92.64  | 92.16  | 91.45  | 90.74  | 89.80 | 88.97 | 88.38 | 86.37 | 81.06 |
| 67.5   | 92.28  | 91.45  | 90.63  | 89.92  | 89.56 | 88.62 | 87.91 | 87.08 | 85.78 |
| 90.0   | 90.39  | 89.92  | 89.21  | 88.50  | 87.79 | 86.85 | 86.14 | 82.83 | 80.82 |
| 112.5  | 91.22  | 90.86  | 90.04  | 89.09  | 88.74 | 87.67 | 86.85 | 85.07 | 82.36 |
| 135.0  | 90.15  | 89.80  | 89.09  | 87.91  | 87.32 | 85.43 | 83.89 | 79.05 | 73.85 |
| 157.5  | 90.63  | 89.80  | 89.09  | 88.50  | 88.03 | 87.20 | 86.37 | 84.72 | 82.00 |
| 180.0  | 102.44 | 102.09 | 100.79 | 100.08 | 99.72 | 98.78 | 98.07 | 97.01 | 95.23 |
| 202.5  | 97.72  | 97.24  | 96.42  | 95.71  | 95.00 | 94.05 | 93.58 | 91.10 | 89.44 |
| 225.0  | 95.00  | 94.64  | 93.82  | 92.99  | 92.28 | 91.45 | 90.63 | 89.92 | 88.97 |
| 247.5  | 91.93  | 91.45  | 90.86  | 90.04  | 89.44 | 88.50 | 88.03 | 86.96 | 82.83 |
| 270.0  | 91.69  | 90.86  | 90.27  | 89.44  | 89.09 | 88.15 | 87.44 | 86.73 | 86.02 |
| 292.5  | 89.92  | 89.44  | 88.74  | 88.03  | 87.32 | 86.37 | 85.90 | 84.84 | 83.54 |
| 315.0  | 90.63  | 90.15  | 89.33  | 88.26  | 87.79 | 86.96 | 86.25 | 85.55 | 84.84 |
| 337.5  | 89.09  | 88.62  | 87.91  | 87.20  | 86.49 | 85.66 | 85.19 | 84.48 | 83.66 |
| 360.0  | 99.84  | 99.37  | 98.54  | 97.72  | 97.01 | 95.94 | 95.47 | 93.23 | 89.44 |
| C/γ(°) | 63.0   | 64.0   | 65.0   | 66.0   | 67.0  | 68.0  | 69.0  | 70.0  | 71.0  |
| 0.0    | 87.79  | 82.12  | 76.92  | 71.48  | 64.51 | 60.85 | 54.94 | 49.15 | 43.36 |
| 22.5   | 87.08  | 82.83  | 78.57  | 73.73  | 68.41 | 61.91 | 56.48 | 50.93 | 47.62 |
| 45.0   | 78.46  | 73.73  | 68.77  | 63.57  | 57.19 | 53.88 | 48.44 | 43.01 | 37.81 |
| 67.5   | 84.36  | 80.58  | 76.57  | 72.08  | 67.23 | 64.16 | 57.90 | 50.45 | 47.26 |
| 90.0   | 76.80  | 71.37  | 66.52  | 61.56  | 55.18 | 51.99 | 46.67 | 41.59 | 36.39 |
| 112.5  | 80.23  | 75.38  | 70.89  | 66.17  | 60.97 | 57.90 | 51.63 | 44.43 | 41.35 |
| 135.0  | 71.01  | 66.29  | 61.21  | 56.12  | 49.86 | 46.67 | 41.47 | 36.39 | 30.60 |
| 157.5  | 79.99  | 75.15  | 70.78  | 66.05  | 60.97 | 58.02 | 51.75 | 44.55 | 41.47 |
| 180.0  | 93.34  | 88.85  | 84.36  | 79.17  | 72.67 | 67.11 | 61.32 | 55.42 | 51.87 |
| 202.5  | 85.78  | 80.46  | 75.62  | 70.30  | 63.57 | 60.26 | 54.71 | 49.04 | 43.48 |
| 225.0  | 87.91  | 84.72  | 81.06  | 76.57  | 71.84 | 68.77 | 60.38 | 54.94 | 51.63 |
| 247.5  | 80.70  | 76.57  | 71.96  | 66.99  | 60.73 | 57.54 | 52.23 | 47.03 | 41.59 |
| 270.0  | 85.43  | 83.30  | 79.05  | 76.68  | 72.31 | 66.52 | 61.56 | 56.36 | 53.05 |
| 292.5  | 82.24  | 79.40  | 75.62  | 71.13  | 65.34 | 62.27 | 57.19 | 51.99 | 46.67 |
| 315.0  | 84.36  | 83.06  | 81.06  | 77.98  | 73.97 | 71.37 | 65.81 | 60.73 | 55.53 |
| 337.5  | 81.29  | 78.34  | 74.56  | 70.19  | 64.40 | 61.32 | 56.24 | 51.04 | 45.73 |
| 360.0  | 87.79  | 82.12  | 76.92  | 71.48  | 64.51 | 60.85 | 54.94 | 49.15 | 43.36 |
| C/γ(°) | 72.0   | 73.0   | 74.0   | 75.0   | 76.0  | 77.0  | 78.0  | 79.0  | 80.0  |
| 0.0    | 36.51  | 33.08  | 27.77  | 19.73  | 17.01 | 12.64 | 8.63  | 5.08  | 1.77  |
| 22.5   | 41.00  | 35.57  | 30.48  | 25.52  | 22.57 | 17.13 | 12.88 | 9.10  | 5.67  |
| 45.0   | 31.55  | 26.59  | 21.86  | 16.54  | 14.06 | 10.16 | 6.62  | 3.66  | 0.95  |
| 67.5   | 40.88  | 35.68  | 30.72  | 25.88  | 16.54 | 13.59 | 9.81  | 9.81  | 6.38  |
| 90.0   | 30.48  | 27.53  | 22.80  | 18.43  | 13.59 | 9.81  | 7.68  | 3.43  | 0.95  |
| 112.5  | 35.21  | 30.25  | 25.52  | 21.03  | 13.47 | 13.47 | 9.81  | 6.38  | 3.54  |
| 135.0  | 25.88  | 21.27  | 17.01  | 12.29  | 10.16 | 6.73  | 3.78  | 1.54  | 0.00  |
| 157.5  | 35.33  | 30.48  | 25.76  | 21.27  | 18.67 | 13.82 | 10.04 | 6.62  | 3.78  |
| 180.0  | 44.90  | 39.35  | 33.91  | 28.71  | 25.52 | 19.73 | 11.11 | 11.11 | 6.62  |
| 202.5  | 36.86  | 33.67  | 28.59  | 20.80  | 18.08 | 13.71 | 9.69  | 6.26  | 2.72  |
| 225.0  | 45.14  | 39.94  | 34.74  | 29.66  | 26.70 | 16.66 | 12.52 | 8.86  | 8.86  |
| 247.5  | 35.33  | 32.37  | 27.53  | 22.80  | 18.31 | 13.23 | 9.45  | 6.14  | 2.72  |
| 270.0  | 46.79  | 41.59  | 36.39  | 31.43  | 28.48 | 22.80 | 18.43 | 9.45  | 9.69  |
| 292.5  | 40.29  | 37.22  | 30.25  | 24.46  | 21.74 | 17.25 | 13.23 | 9.45  | 5.55  |
| 315.0  | 49.15  | 43.95  | 38.76  | 33.67  | 30.72 | 24.93 | 16.19 | 12.17 | 9.10  |
| 337.5  | 39.46  | 36.39  | 29.54  | 23.87  | 21.98 | 16.78 | 12.76 | 9.10  | 5.20  |
| 360.0  | 36.51  | 33.08  | 27.77  | 19.73  | 17.01 | 12.64 | 8.63  | 5.08  | 1.77  |

Intensity data(cd)

Appendix Page: 18 Total:21

|                       |      |       |       |       |       |       |       |       |       |
|-----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| C/ $\gamma(^{\circ})$ | 81.0 | 82.0  | 83.0  | 84.0  | 85.0  | 86.0  | 87.0  | 88.0  | 89.0  |
| 0.0                   | 0.71 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 22.5                  | 3.90 | 0.47  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 45.0                  | 0.12 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 67.5                  | 3.07 | 1.65  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 90.0                  | 0.12 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 112.5                 | 2.13 | 0.12  | 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  |
| 157.5                 | 1.06 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 180.0                 | 3.54 | 1.18  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 202.5                 | 1.42 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 225.0                 | 6.73 | 3.19  | 0.95  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 247.5                 | 1.42 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 270.0                 | 6.26 | 3.31  | 1.18  | 0.24  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 292.5                 | 3.78 | 1.42  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 315.0                 | 9.93 | 4.73  | 2.13  | 0.95  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 337.5                 | 3.54 | 1.30  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 360.0                 | 0.71 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| C/ $\gamma(^{\circ})$ | 90.0 | 91.0  | 92.0  | 93.0  | 94.0  | 95.0  | 96.0  | 97.0  | 98.0  |
| 0.0                   | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 22.5                  | 0.00 | 0.00  | 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  |
| 67.5                  | 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  |
| 112.5                 | 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  |
| 157.5                 | 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  |
| 202.5                 | 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  |
| 247.5                 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 270.0                 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 292.5                 | 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  |
| 337.5                 | 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/ $\gamma(^{\circ})$ | 99.0 | 100.0 | 101.0 | 102.0 | 103.0 | 104.0 | 105.0 | 106.0 | 107.0 |
| 0.0                   | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 22.5                  | 0.00 | 0.00  | 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  |
| 67.5                  | 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  |
| 112.5                 | 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  |
| 157.5                 | 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  |
| 202.5                 | 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  |
| 247.5                 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 270.0                 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 292.5                 | 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  |
| 337.5                 | 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)

Appendix Page: 19 Total:21

| C/ $\gamma(^{\circ})$ | 108.0 | 109.0 | 110.0 | 111.0 | 112.0 | 113.0 | 114.0 | 115.0 | 116.0 |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0                   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 22.5                  | 0.00  | 0.00  | 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  |
| 67.5                  | 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  |
| 112.5                 | 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  |
| 157.5                 | 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  |
| 202.5                 | 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  |
| 247.5                 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 270.0                 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 292.5                 | 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  |
| 337.5                 | 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/ $\gamma(^{\circ})$ | 117.0 | 118.0 | 119.0 | 120.0 | 121.0 | 122.0 | 123.0 | 124.0 | 125.0 |
| 0.0                   | 0.00  | 0.00  | 0.00  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 22.5                  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.12  | 0.12  | 0.00  |
| 45.0                  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.12  | 0.00  | 0.12  |
| 67.5                  | 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  | 0.12  | 0.00  | 0.00  | 0.12  |
| 112.5                 | 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  | 0.12  | 0.12  |
| 157.5                 | 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  | 0.12  |
| 202.5                 | 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  |
| 247.5                 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 270.0                 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 292.5                 | 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  |
| 337.5                 | 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  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| C/ $\gamma(^{\circ})$ | 126.0 | 127.0 | 128.0 | 129.0 | 130.0 | 131.0 | 132.0 | 133.0 | 134.0 |
| 0.0                   | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.24  | 0.24  |
| 22.5                  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 45.0                  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 67.5                  | 0.00  | 0.12  | 0.00  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 90.0                  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 112.5                 | 0.00  | 0.00  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 135.0                 | 0.00  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 157.5                 | 0.00  | 0.00  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 180.0                 | 0.00  | 0.00  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 202.5                 | 0.00  | 0.00  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 225.0                 | 0.00  | 0.00  | 0.00  | 0.00  | 0.12  | 0.00  | 0.12  | 0.00  | 0.12  |
| 247.5                 | 0.00  | 0.12  | 0.12  | 0.12  | 0.00  | 0.12  | 0.12  | 0.12  | 0.12  |
| 270.0                 | 0.00  | 0.00  | 0.00  | 0.00  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 292.5                 | 0.00  | 0.00  | 0.00  | 0.12  | 0.00  | 0.12  | 0.12  | 0.12  | 0.12  |
| 315.0                 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.12  | 0.12  | 0.12  | 0.12  |
| 337.5                 | 0.00  | 0.00  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 360.0                 | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.24  | 0.24  |

Intensity data(cd)

| C/ $\gamma(^{\circ})$ | 135.0 | 136.0 | 137.0 | 138.0 | 139.0 | 140.0 | 141.0 | 142.0 | 143.0 |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0                   | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 22.5                  | 0.12  | 0.12  | 0.12  | 0.12  | 0.24  | 0.12  | 0.12  | 0.24  | 0.24  |
| 45.0                  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.24  | 0.12  | 0.12  |
| 67.5                  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 90.0                  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 112.5                 | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 135.0                 | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 157.5                 | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 180.0                 | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.24  | 0.24  |
| 202.5                 | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.24  | 0.24  |
| 225.0                 | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 247.5                 | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 270.0                 | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 292.5                 | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 315.0                 | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 337.5                 | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  |
| 360.0                 | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| C/ $\gamma(^{\circ})$ | 144.0 | 145.0 | 146.0 | 147.0 | 148.0 | 149.0 | 150.0 | 151.0 | 152.0 |
| 0.0                   | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.35  | 0.24  | 0.35  | 0.24  |
| 22.5                  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 45.0                  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 67.5                  | 0.12  | 0.12  | 0.12  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 90.0                  | 0.24  | 0.24  | 0.12  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 112.5                 | 0.12  | 0.12  | 0.12  | 0.12  | 0.24  | 0.24  | 0.12  | 0.12  | 0.24  |
| 135.0                 | 0.12  | 0.12  | 0.24  | 0.12  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 157.5                 | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.24  | 0.12  | 0.12  | 0.24  |
| 180.0                 | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 202.5                 | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 225.0                 | 0.12  | 0.12  | 0.12  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 247.5                 | 0.12  | 0.12  | 0.12  | 0.12  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 270.0                 | 0.12  | 0.12  | 0.24  | 0.12  | 0.12  | 0.24  | 0.12  | 0.24  | 0.12  |
| 292.5                 | 0.12  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 315.0                 | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.12  | 0.24  | 0.24  | 0.24  |
| 337.5                 | 0.12  | 0.12  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 360.0                 | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.35  | 0.24  | 0.35  | 0.24  |
| C/ $\gamma(^{\circ})$ | 153.0 | 154.0 | 155.0 | 156.0 | 157.0 | 158.0 | 159.0 | 160.0 | 161.0 |
| 0.0                   | 0.24  | 0.24  | 0.24  | 0.35  | 0.24  | 0.24  | 0.35  | 0.24  | 0.24  |
| 22.5                  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 45.0                  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 67.5                  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 90.0                  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 112.5                 | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 135.0                 | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 157.5                 | 0.12  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 180.0                 | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 202.5                 | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 225.0                 | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 247.5                 | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 270.0                 | 0.24  | 0.24  | 0.24  | 0.12  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 292.5                 | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 315.0                 | 0.24  | 0.12  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 337.5                 | 0.24  | 0.12  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 360.0                 | 0.24  | 0.24  | 0.24  | 0.35  | 0.24  | 0.24  | 0.35  | 0.24  | 0.24  |

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             | 0.24  | 0.35  | 0.35  | 0.24  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 22.5            | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 45.0            | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 67.5            | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 90.0            | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 112.5           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 135.0           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 157.5           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 180.0           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.35  |
| 202.5           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.35  | 0.24  |
| 225.0           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 247.5           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 270.0           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 292.5           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 315.0           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 337.5           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 360.0           | 0.24  | 0.35  | 0.35  | 0.24  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| C/ $\gamma$ (°) | 171.0 | 172.0 | 173.0 | 174.0 | 175.0 | 176.0 | 177.0 | 178.0 | 179.0 |
| 0.0             | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| 22.5            | 0.24  | 0.24  | 0.35  | 0.24  | 0.24  | 0.24  | 0.24  | 0.35  | 0.35  |
| 45.0            | 0.35  | 0.24  | 0.24  | 0.24  | 0.35  | 0.24  | 0.24  | 0.24  | 0.24  |
| 67.5            | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 90.0            | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.35  |
| 112.5           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 135.0           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 157.5           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 180.0           | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.24  | 0.35  |
| 202.5           | 0.24  | 0.24  | 0.35  | 0.35  | 0.35  | 0.35  | 0.24  | 0.35  | 0.24  |
| 225.0           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.35  | 0.24  | 0.24  |
| 247.5           | 0.24  | 0.24  | 0.35  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.35  |
| 270.0           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 292.5           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.35  | 0.24  | 0.24  |
| 315.0           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 337.5           | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  | 0.24  |
| 360.0           | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  | 0.35  |
| C/ $\gamma$ (°) | 180.0 |       |       |       |       |       |       |       |       |
| 0.0             | 0.27  |       |       |       |       |       |       |       |       |
| 22.5            | 0.27  |       |       |       |       |       |       |       |       |
| 45.0            | 0.27  |       |       |       |       |       |       |       |       |
| 67.5            | 0.27  |       |       |       |       |       |       |       |       |
| 90.0            | 0.27  |       |       |       |       |       |       |       |       |
| 112.5           | 0.27  |       |       |       |       |       |       |       |       |
| 135.0           | 0.27  |       |       |       |       |       |       |       |       |
| 157.5           | 0.27  |       |       |       |       |       |       |       |       |
| 180.0           | 0.27  |       |       |       |       |       |       |       |       |
| 202.5           | 0.27  |       |       |       |       |       |       |       |       |
| 225.0           | 0.27  |       |       |       |       |       |       |       |       |
| 247.5           | 0.27  |       |       |       |       |       |       |       |       |
| 270.0           | 0.27  |       |       |       |       |       |       |       |       |
| 292.5           | 0.27  |       |       |       |       |       |       |       |       |
| 315.0           | 0.27  |       |       |       |       |       |       |       |       |
| 337.5           | 0.27  |       |       |       |       |       |       |       |       |
| 360.0           | 0.27  |       |       |       |       |       |       |       |       |