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NT

Client: NT

LumCAT: 1-1761-LM2

Luminaire: 92.70.492.00 LED HOLDER

Report No: 20251218-C002

Ballast type: AC

Test No: 20251218-C002

Voltage(V): 35.140

LampCAT: CITIZEN CLU028 LES9.8

Current(A): 0.362

Lamp flux(lm): 1573.0

Power (W): 12.720

Number of Lamps: 1

PF: 0.000

Length(mm): 50

Width(mm): 50

Phm Type: C

Height(mm): 22

#### Photometric Results

Lumens(lm): 1524.37, Efficiency(%): 96.91% , Luminous Efficacy(lm/W): 119.84

Central intensity(cd): 1720.209, Maximum intensity(cd): 1720.209

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

Beam Angle(50%Imax): [C0/180]Total=54.8

[C90/270]Total=54.8

Field angle(10%Imax): [C0/180]Total=90.8

[C90/270]Total=90.8

Maximum s/h(1/2): C0\_180=0.82 C90\_270=0.82

Maximum s/h(1/4): C0\_180=0.88 C90\_270=0.88

Up flux rate of lamp(%): 0.00%

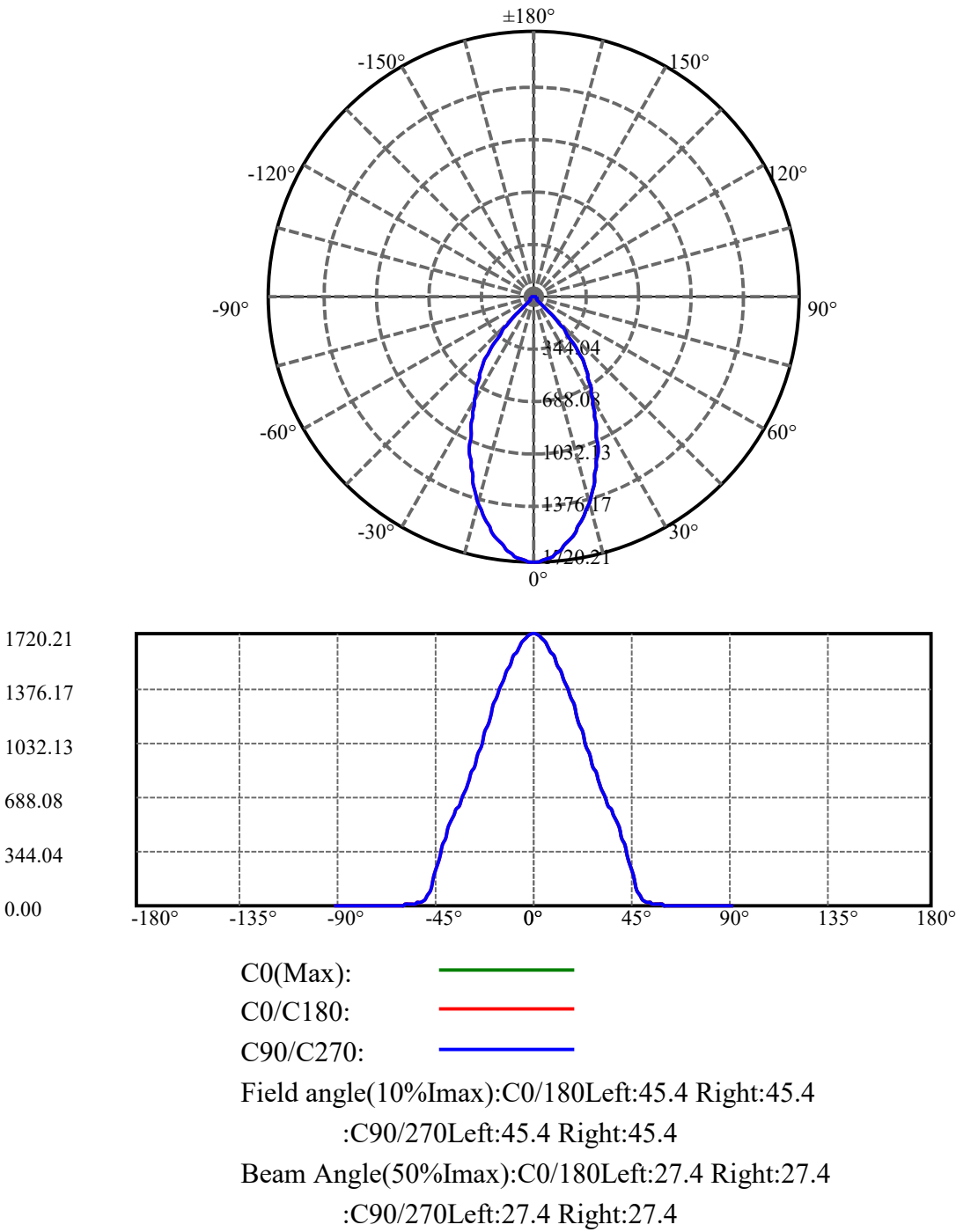
Down flux rate of lamp(%): 96.91%

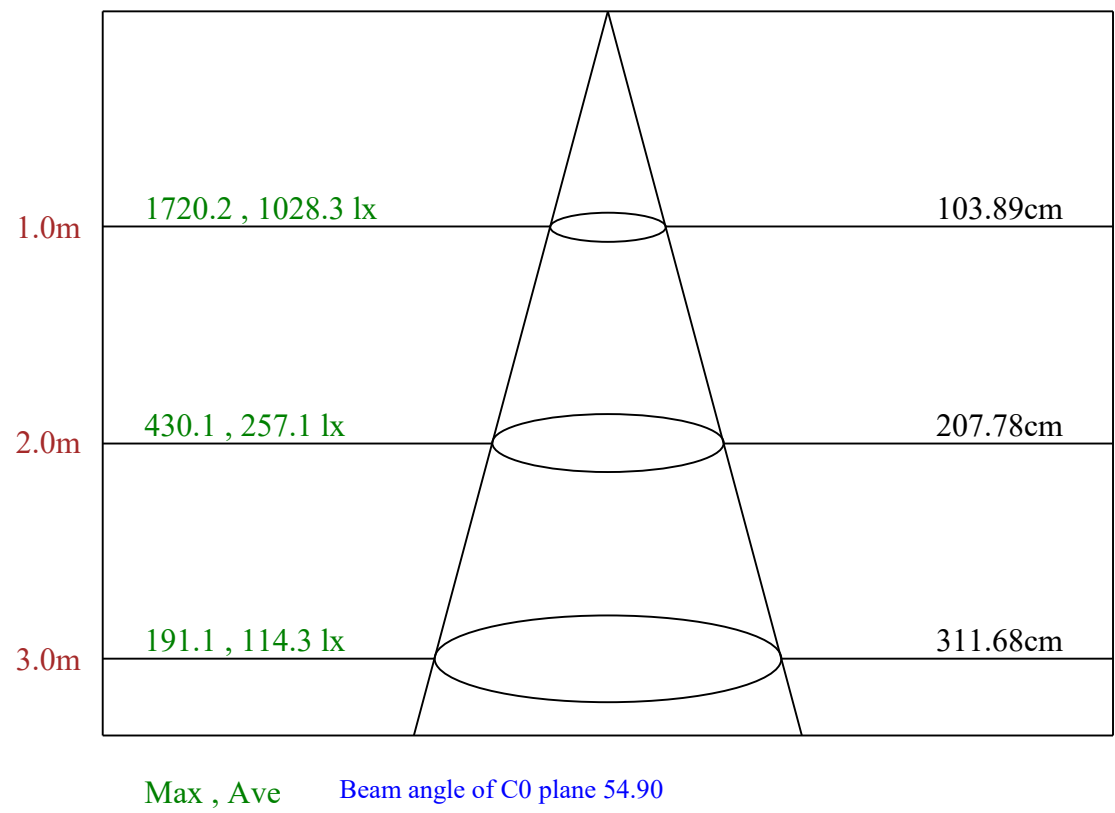
Up flux rate of LUM(%): - -

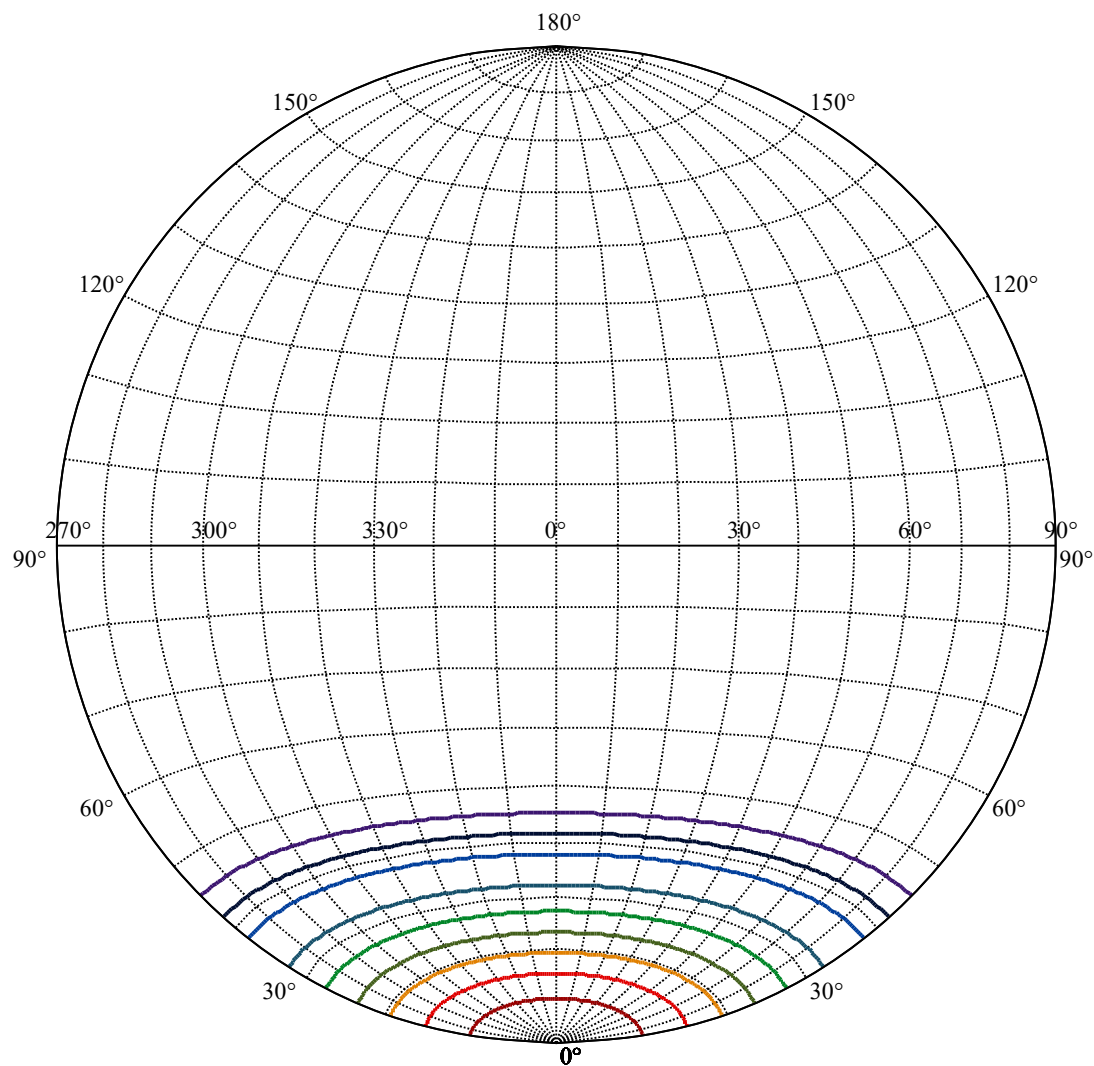
Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 99.769%





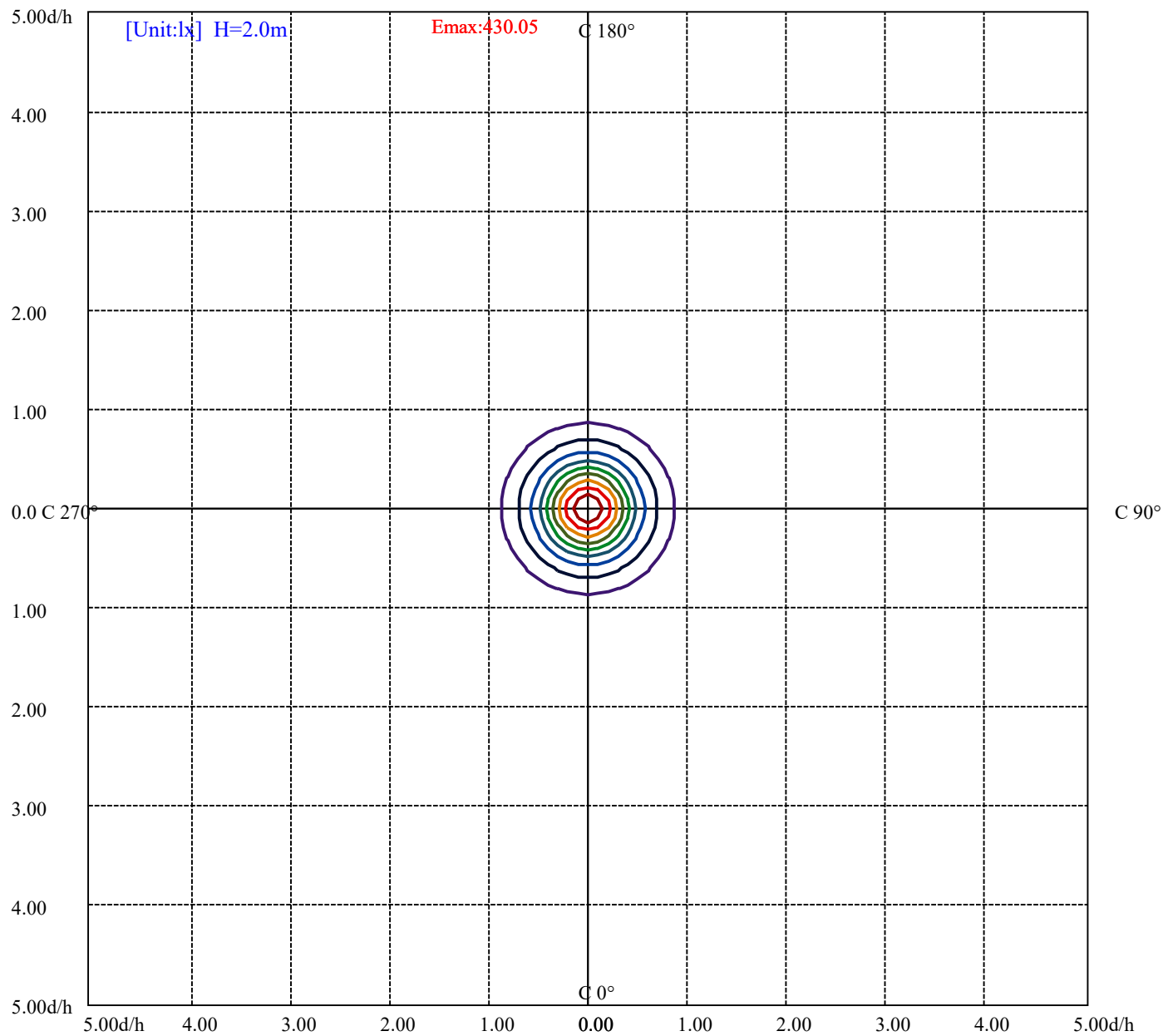


House

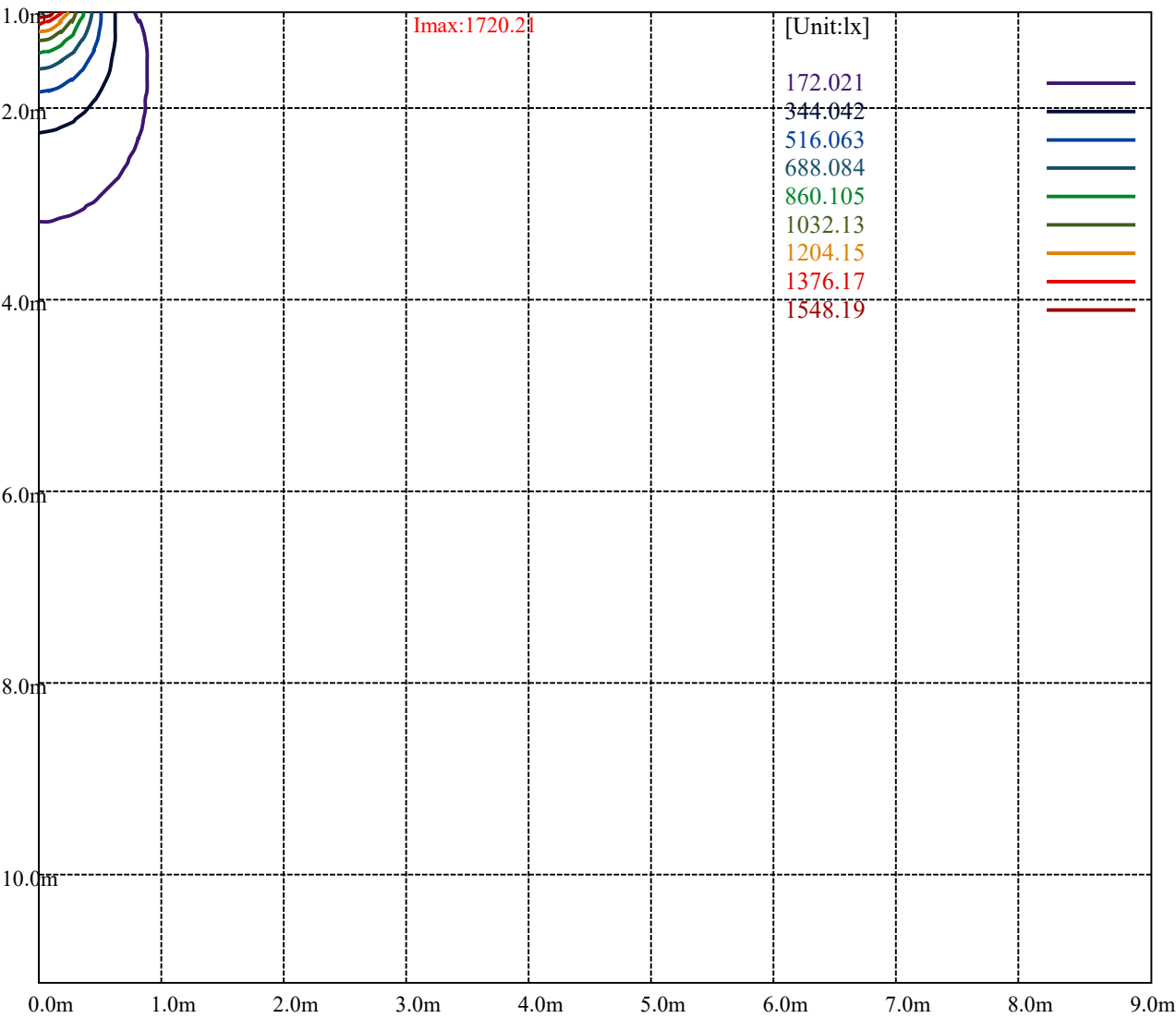
[Unit:cd]

Road

|              |         |
|--------------|---------|
| Imax:1720.21 |         |
| (10%Imax)    | 172.021 |
| (20%Imax)    | 344.042 |
| (30%Imax)    | 516.063 |
| (40%Imax)    | 688.084 |
| (50%Imax)    | 860.105 |
| (60%Imax)    | 1032.13 |
| (70%Imax)    | 1204.15 |
| (80%Imax)    | 1376.17 |
| (90%Imax)    | 1548.19 |



|           |          |   |
|-----------|----------|---|
| (10%Emax) | 43.00525 | — |
| (20%Emax) | 86.0105  | — |
| (30%Emax) | 129.0157 | — |
| (40%Emax) | 172.021  | — |
| (50%Emax) | 215.026  | — |
| (60%Emax) | 258.0325 | — |
| (70%Emax) | 301.0375 | — |
| (80%Emax) | 344.0425 | — |
| (90%Emax) | 387.0475 | — |



Luminance Table

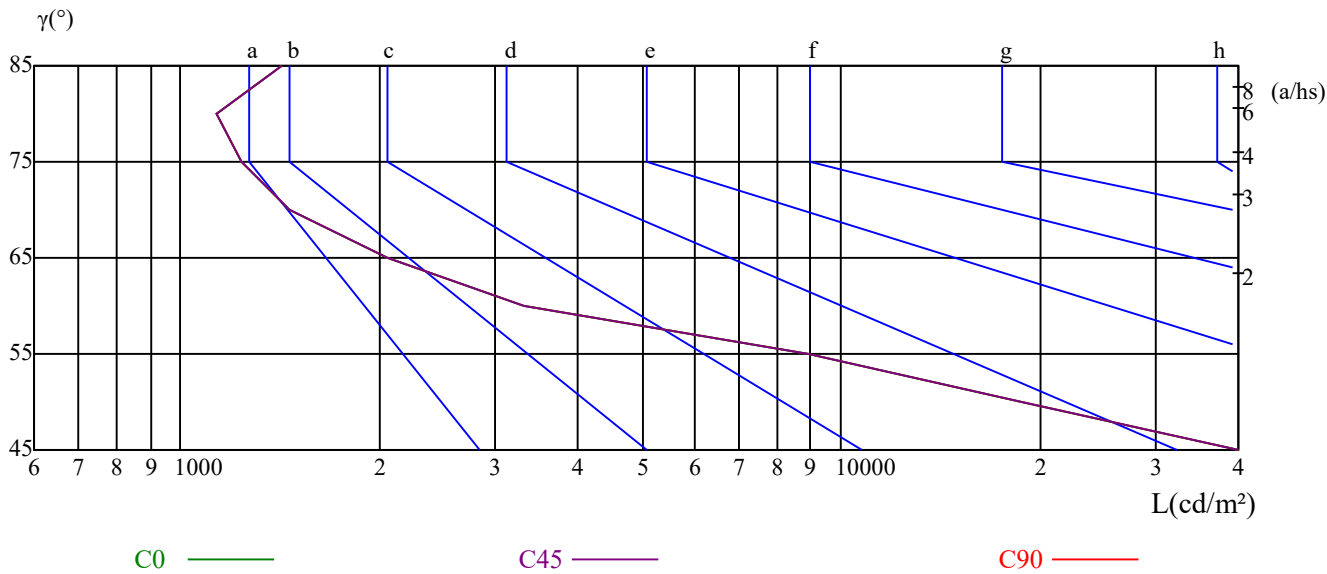
| $\gamma$ | 45     | 50    | 55   | 60   | 65   | 70   | 75   | 80   | 85   |
|----------|--------|-------|------|------|------|------|------|------|------|
| C0       | 108979 | 18758 | 8929 | 3313 | 2063 | 1464 | 1239 | 1134 | 1420 |
| C45      | 108979 | 18758 | 8929 | 3313 | 2063 | 1464 | 1239 | 1134 | 1420 |
| C90      | 108979 | 18758 | 8929 | 3313 | 2063 | 1464 | 1239 | 1134 | 1420 |

| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 2063       | 2063       | 2063    | 1239       | 1239       | 1239    | 1420       | 1420       | 1420    |

Glare Table

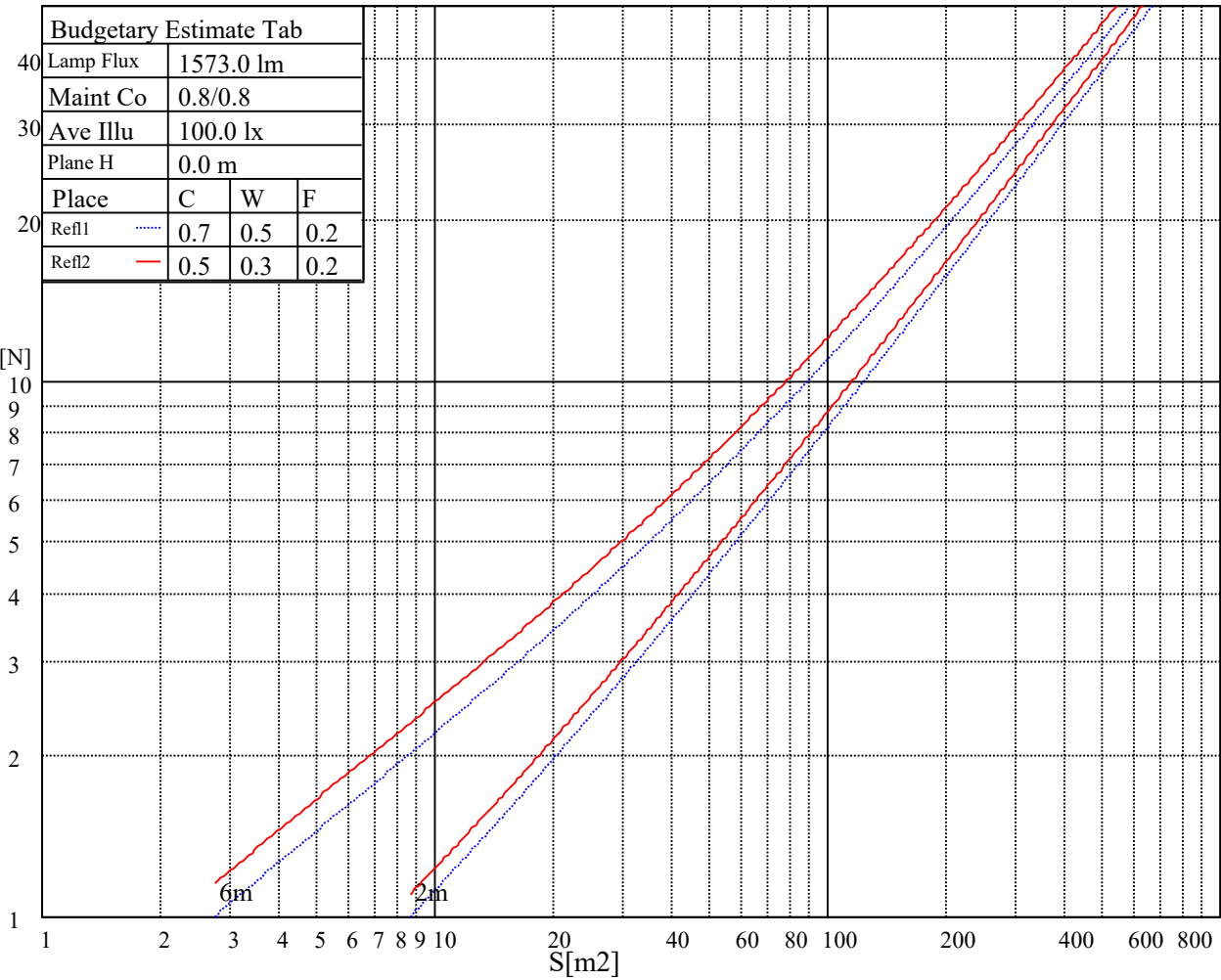
| Glare | Quality | Service Values Illuminance(lx) |      |      |       |       |       |       |       |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15  | A       | 2000                           | 1000 | 500  | <=300 |       |       |       |       |
| 1.5   | B       |                                | 2000 | 1000 | 500   | <=300 |       |       |       |
| 1.85  | C       |                                |      | 2000 | 1000  | 500   | <=300 |       |       |
| 2.2   | D       |                                |      |      | 2000  | 1000  | 500   | <=300 |       |
| 2.55  | E       |                                |      |      |       | 2000  | 1000  | 500   | <=300 |
|       |         | a                              | b    | c    | d     | e     | f     | g     | h     |

Luminance Limiting Curve

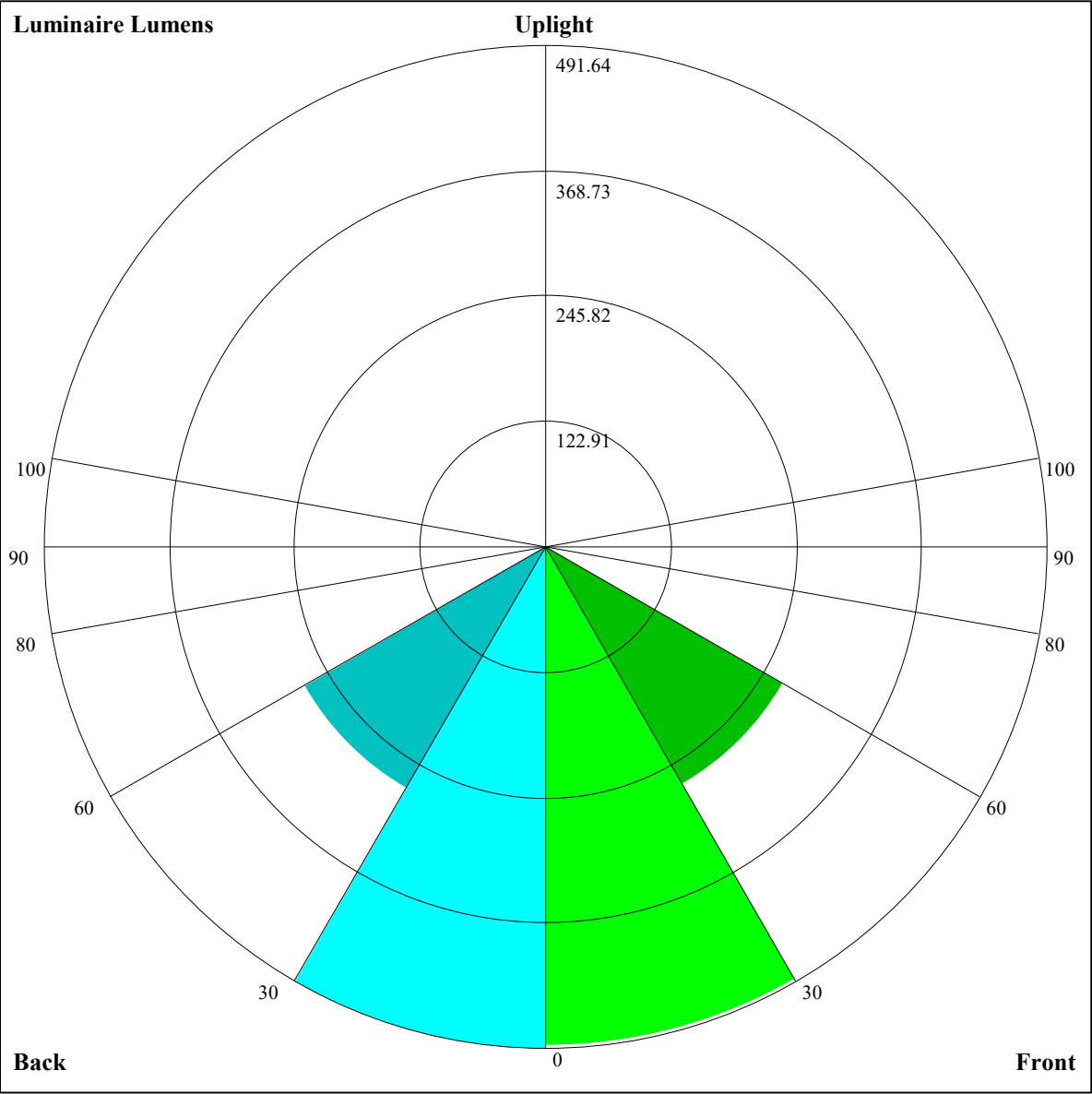


| Illumination assessment according UGR             |     |                  |       |       |       |       |                |       |       |       |       |
|---------------------------------------------------|-----|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Rf of Ceiling                                     | 70  | 70               | 50    | 50    | 30    | 70    | 70             | 50    | 50    | 30    |       |
| Rf of Wall                                        | 50  | 30               | 50    | 30    | 30    | 50    | 30             | 50    | 30    | 30    |       |
| Rf of Floor                                       | 20  | 20               | 20    | 20    | 20    | 20    | 20             | 20    | 20    | 20    |       |
| Room dimensions                                   |     | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X                                                 | Y   |                  |       |       |       |       |                |       |       |       |       |
| 2H                                                | 2H  | 24.87            | 25.90 | 25.23 | 26.21 | 26.52 | 25.02          | 26.04 | 25.38 | 26.35 | 26.67 |
|                                                   | 3H  | 24.68            | 25.58 | 25.06 | 25.92 | 26.26 | 24.82          | 25.72 | 25.21 | 26.06 | 26.41 |
|                                                   | 4H  | 24.58            | 25.41 | 24.98 | 25.76 | 26.13 | 24.72          | 25.56 | 25.12 | 25.91 | 26.28 |
|                                                   | 6H  | 24.49            | 25.25 | 24.91 | 25.63 | 26.03 | 24.63          | 25.40 | 25.05 | 25.77 | 26.17 |
|                                                   | 8H  | 24.41            | 25.14 | 24.84 | 25.53 | 25.93 | 24.56          | 25.29 | 24.98 | 25.67 | 26.08 |
|                                                   | 12H | 24.34            | 25.03 | 24.77 | 25.43 | 25.84 | 24.49          | 25.18 | 24.91 | 25.57 | 25.99 |
| 4H                                                | 2H  | 24.58            | 25.41 | 24.98 | 25.76 | 26.13 | 24.72          | 25.56 | 25.12 | 25.91 | 26.28 |
|                                                   | 3H  | 24.34            | 25.03 | 24.77 | 25.43 | 25.84 | 24.49          | 25.18 | 24.91 | 25.57 | 25.99 |
|                                                   | 4H  | 24.27            | 24.86 | 24.71 | 25.29 | 25.73 | 24.41          | 25.01 | 24.85 | 25.43 | 25.88 |
|                                                   | 6H  | 24.13            | 24.65 | 24.60 | 25.10 | 25.55 | 24.27          | 24.79 | 24.74 | 25.25 | 25.70 |
|                                                   | 8H  | 24.07            | 24.55 | 24.55 | 25.01 | 25.48 | 24.21          | 24.70 | 24.70 | 25.15 | 25.63 |
|                                                   | 12H | 24.01            | 24.46 | 24.50 | 24.91 | 25.43 | 24.16          | 24.61 | 24.65 | 25.06 | 25.58 |
| 8H                                                | 4H  | 24.06            | 24.55 | 24.55 | 25.01 | 25.48 | 24.21          | 24.70 | 24.70 | 25.15 | 25.63 |
|                                                   | 6H  | 23.91            | 24.31 | 24.41 | 24.78 | 25.30 | 24.05          | 24.45 | 24.56 | 24.93 | 25.44 |
|                                                   | 8H  | 23.89            | 24.22 | 24.42 | 24.75 | 25.24 | 24.03          | 24.37 | 24.56 | 24.89 | 25.39 |
|                                                   | 12H | 23.83            | 24.09 | 24.37 | 24.61 | 25.13 | 23.97          | 24.24 | 24.52 | 24.75 | 25.28 |
| 12H                                               | 4H  | 24.01            | 24.46 | 24.50 | 24.91 | 25.43 | 24.16          | 24.60 | 24.65 | 25.06 | 25.58 |
|                                                   | 6H  | 23.89            | 24.22 | 24.42 | 24.75 | 25.24 | 24.03          | 24.37 | 24.56 | 24.89 | 25.39 |
|                                                   | 8H  | 23.83            | 24.09 | 24.37 | 24.61 | 25.13 | 23.97          | 24.24 | 24.52 | 24.75 | 25.28 |
| Variation with the observer position at spacings: |     |                  |       |       |       |       |                |       |       |       |       |
| S = 1.0H                                          |     | 3.3/-15.7        |       |       |       |       | 3.3/-15.7      |       |       |       |       |
| S = 1.5H                                          |     | 5.9/-20.9        |       |       |       |       | 5.9/-20.9      |       |       |       |       |
| S = 2.0H                                          |     | 7.9/-22.0        |       |       |       |       | 7.9/-22.0      |       |       |       |       |
| Standard tables:                                  |     | BK0              |       |       |       |       | BK0            |       |       |       |       |
| Uncorrected UGR                                   |     | 5.9              |       |       |       |       | 5.9            |       |       |       |       |

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



| RHOCC | 80                                     |      |      | 70   |      |      | 50   |      |      | 30   |      |      | 10   |      |      | 0    |
|-------|----------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| RHOW  | 50                                     | 30   | 10   | 50   | 30   | 10   | 50   | 30   | 10   | 50   | 30   | 10   | 50   | 30   | 10   | 0    |
| RCR   | COEFFCIENTS OF UTILIZATION RHOFC=20 CU |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0     | 1.15                                   | 1.15 | 1.15 | 1.13 | 1.13 | 1.13 | 1.08 | 1.08 | 1.08 | 1.03 | 1.03 | 1.03 | 0.99 | 0.99 | 0.99 | 0.97 |
| 1     | 1.07                                   | 1.05 | 1.02 | 1.05 | 1.03 | 1.01 | 1.01 | 0.99 | 0.98 | 0.97 | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 | 0.90 |
| 2     | 0.99                                   | 0.95 | 0.92 | 0.98 | 0.94 | 0.91 | 0.95 | 0.92 | 0.89 | 0.92 | 0.89 | 0.87 | 0.89 | 0.87 | 0.85 | 0.84 |
| 3     | 0.92                                   | 0.87 | 0.83 | 0.91 | 0.86 | 0.83 | 0.88 | 0.85 | 0.81 | 0.86 | 0.83 | 0.80 | 0.84 | 0.81 | 0.79 | 0.77 |
| 4     | 0.86                                   | 0.80 | 0.76 | 0.85 | 0.80 | 0.76 | 0.83 | 0.78 | 0.75 | 0.81 | 0.77 | 0.74 | 0.79 | 0.76 | 0.73 | 0.72 |
| 5     | 0.80                                   | 0.74 | 0.70 | 0.79 | 0.74 | 0.70 | 0.77 | 0.73 | 0.69 | 0.76 | 0.72 | 0.68 | 0.74 | 0.71 | 0.68 | 0.66 |
| 6     | 0.75                                   | 0.69 | 0.65 | 0.74 | 0.68 | 0.64 | 0.73 | 0.68 | 0.64 | 0.71 | 0.67 | 0.64 | 0.70 | 0.66 | 0.63 | 0.62 |
| 7     | 0.70                                   | 0.64 | 0.60 | 0.69 | 0.64 | 0.60 | 0.68 | 0.63 | 0.59 | 0.67 | 0.62 | 0.59 | 0.66 | 0.62 | 0.59 | 0.57 |
| 8     | 0.66                                   | 0.60 | 0.56 | 0.65 | 0.60 | 0.56 | 0.64 | 0.59 | 0.55 | 0.63 | 0.59 | 0.55 | 0.62 | 0.58 | 0.55 | 0.54 |
| 9     | 0.62                                   | 0.56 | 0.52 | 0.61 | 0.56 | 0.52 | 0.61 | 0.55 | 0.52 | 0.60 | 0.55 | 0.52 | 0.59 | 0.55 | 0.51 | 0.50 |
| 10    | 0.58                                   | 0.53 | 0.49 | 0.58 | 0.52 | 0.49 | 0.57 | 0.52 | 0.49 | 0.56 | 0.52 | 0.48 | 0.56 | 0.51 | 0.48 | 0.47 |



Luminaire Lumens:

FL=489.46,FM=268.12,FH=1.42,FVH=0.17

BL=491.64,BM=273.02,BH=1.65,BVH=0.19

UL=0,UH=0

BUG Rating:B1-U0-G0

## Intensity data(cd)

| C/ $\gamma$ (°) | 0.0     | 1.0     | 2.0     | 3.0     | 4.0     | 5.0     | 6.0     | 7.0     | 8.0     |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0.0             | 1723.44 | 1720.07 | 1708.26 | 1699.82 | 1684.63 | 1659.88 | 1636.82 | 1611.51 | 1578.32 |
| 45.0            | 1717.82 | 1721.19 | 1718.94 | 1712.19 | 1705.44 | 1688.57 | 1670.57 | 1649.76 | 1626.69 |
| 90.0            | 1722.88 | 1721.19 | 1713.88 | 1702.63 | 1688.01 | 1666.07 | 1654.26 | 1631.19 | 1606.44 |
| 135.0           | 1716.69 | 1717.82 | 1717.26 | 1709.94 | 1700.38 | 1687.44 | 1671.13 | 1659.88 | 1634.01 |
| 180.0           | 1723.44 | 1724.01 | 1718.94 | 1711.07 | 1698.69 | 1689.69 | 1667.76 | 1646.94 | 1622.76 |
| 225.0           | 1717.82 | 1707.69 | 1694.76 | 1679.01 | 1655.38 | 1643.01 | 1619.94 | 1594.07 | 1567.07 |
| 270.0           | 1722.88 | 1720.63 | 1711.07 | 1704.32 | 1686.88 | 1669.44 | 1649.19 | 1626.13 | 1611.51 |
| 315.0           | 1716.69 | 1710.51 | 1701.51 | 1685.19 | 1675.07 | 1648.07 | 1619.38 | 1604.76 | 1577.19 |
| 360.0           | 1723.44 | 1720.07 | 1708.26 | 1699.82 | 1684.63 | 1659.88 | 1636.82 | 1611.51 | 1578.32 |
| C/ $\gamma$ (°) | 9.0     | 10.0    | 11.0    | 12.0    | 13.0    | 14.0    | 15.0    | 16.0    | 17.0    |
| 0.0             | 1560.32 | 1527.69 | 1495.07 | 1460.76 | 1419.13 | 1397.19 | 1344.88 | 1299.32 | 1276.26 |
| 45.0            | 1610.94 | 1578.32 | 1537.82 | 1519.26 | 1487.76 | 1447.82 | 1414.07 | 1379.19 | 1357.82 |
| 90.0            | 1580.01 | 1544.57 | 1526.57 | 1495.07 | 1442.19 | 1428.13 | 1385.94 | 1349.94 | 1311.69 |
| 135.0           | 1609.82 | 1583.38 | 1547.94 | 1516.44 | 1483.82 | 1448.94 | 1427.01 | 1383.13 | 1344.32 |
| 180.0           | 1597.44 | 1563.13 | 1532.76 | 1500.69 | 1481.01 | 1439.94 | 1404.51 | 1367.94 | 1329.69 |
| 225.0           | 1532.76 | 1515.32 | 1484.38 | 1452.32 | 1419.13 | 1378.07 | 1356.69 | 1304.94 | 1257.13 |
| 270.0           | 1580.01 | 1551.32 | 1521.51 | 1490.57 | 1451.76 | 1418.57 | 1383.69 | 1362.88 | 1319.01 |
| 315.0           | 1547.38 | 1516.44 | 1477.07 | 1456.82 | 1421.38 | 1385.38 | 1348.26 | 1302.13 | 1277.38 |
| 360.0           | 1560.32 | 1527.69 | 1495.07 | 1460.76 | 1419.13 | 1397.19 | 1344.88 | 1299.32 | 1276.26 |
| C/ $\gamma$ (°) | 18.0    | 19.0    | 20.0    | 21.0    | 22.0    | 23.0    | 24.0    | 25.0    | 26.0    |
| 0.0             | 1235.76 | 1193.57 | 1109.36 | 1109.36 | 1063.07 | 1017.56 | 966.38  | 941.68  | 902.36  |
| 45.0            | 1313.38 | 1274.57 | 1234.63 | 1191.32 | 1163.19 | 1105.26 | 1036.07 | 1006.82 | 948.88  |
| 90.0            | 1262.76 | 1237.44 | 1193.01 | 1103.40 | 1103.40 | 1054.24 | 1005.98 | 959.68  | 907.03  |
| 135.0           | 1303.26 | 1260.51 | 1234.63 | 1180.63 | 1134.51 | 1087.26 | 1030.44 | 986.01  | 944.38  |
| 180.0           | 1306.63 | 1257.69 | 1214.94 | 1169.38 | 1122.69 | 1094.01 | 1018.63 | 972.51  | 946.63  |
| 225.0           | 1231.82 | 1194.69 | 1107.00 | 1096.76 | 1045.41 | 995.34  | 947.08  | 890.16  | 862.31  |
| 270.0           | 1280.76 | 1241.38 | 1198.63 | 1171.63 | 1116.51 | 1050.13 | 1022.57 | 978.13  | 952.26  |
| 315.0           | 1219.44 | 1109.36 | 1109.36 | 1109.36 | 1062.96 | 1009.97 | 968.51  | 929.81  | 892.97  |
| 360.0           | 1235.76 | 1193.57 | 1109.36 | 1109.36 | 1063.07 | 1017.56 | 966.38  | 941.68  | 902.36  |
| C/ $\gamma$ (°) | 27.0    | 28.0    | 29.0    | 30.0    | 31.0    | 32.0    | 33.0    | 34.0    | 35.0    |
| 0.0             | 864.45  | 827.55  | 784.46  | 763.43  | 729.84  | 697.28  | 659.08  | 628.48  | 610.71  |
| 45.0            | 901.63  | 855.51  | 810.51  | 785.19  | 735.69  | 696.32  | 659.76  | 626.01  | 606.88  |
| 90.0            | 881.72  | 840.66  | 801.06  | 763.20  | 720.73  | 700.54  | 668.25  | 619.65  | 602.49  |
| 135.0           | 905.01  | 882.51  | 839.19  | 805.44  | 773.38  | 741.88  | 724.44  | 689.57  | 651.88  |
| 180.0           | 895.44  | 854.38  | 815.57  | 778.44  | 755.94  | 714.32  | 681.69  | 650.76  | 615.32  |
| 225.0           | 816.69  | 773.04  | 731.31  | 684.62  | 662.63  | 627.98  | 577.86  | 560.87  | 534.60  |
| 270.0           | 886.44  | 847.07  | 824.57  | 779.57  | 744.13  | 709.82  | 676.63  | 656.94  | 620.94  |
| 315.0           | 851.01  | 830.98  | 798.41  | 767.14  | 736.71  | 700.93  | 683.61  | 644.57  | 628.54  |
| 360.0           | 864.45  | 827.55  | 784.46  | 763.43  | 729.84  | 697.28  | 659.08  | 628.48  | 610.71  |
| C/ $\gamma$ (°) | 36.0    | 37.0    | 38.0    | 39.0    | 40.0    | 41.0    | 42.0    | 43.0    | 44.0    |
| 0.0             | 571.78  | 531.00  | 506.03  | 460.18  | 408.83  | 355.11  | 288.73  | 255.99  | 202.39  |
| 45.0            | 571.44  | 544.44  | 519.13  | 482.01  | 442.63  | 398.19  | 349.26  | 318.88  | 318.88  |
| 90.0            | 575.66  | 547.65  | 511.14  | 458.44  | 429.19  | 378.51  | 326.87  | 274.61  | 212.96  |
| 135.0           | 635.57  | 604.63  | 593.94  | 541.07  | 497.76  | 468.51  | 407.19  | 353.76  | 300.32  |
| 180.0           | 587.19  | 570.88  | 532.07  | 511.26  | 460.63  | 412.82  | 361.63  | 307.63  | 296.94  |
| 225.0           | 519.86  | 478.74  | 431.38  | 404.61  | 358.14  | 307.91  | 257.06  | 196.88  | 167.51  |
| 270.0           | 591.69  | 564.69  | 524.19  | 480.32  | 452.76  | 381.32  | 349.82  | 298.63  | 298.63  |
| 315.0           | 602.49  | 562.16  | 519.30  | 470.64  | 408.49  | 375.69  | 321.13  | 267.24  | 214.88  |
| 360.0           | 571.78  | 531.00  | 506.03  | 460.18  | 408.83  | 355.11  | 288.73  | 255.99  | 202.39  |

## Intensity data(cd)

| C/ $\gamma$ (°) | 45.0   | 46.0   | 47.0   | 48.0   | 49.0  | 50.0  | 51.0  | 52.0  | 53.0  |
|-----------------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0.0             | 152.44 | 108.68 | 66.71  | 51.08  | 30.60 | 25.03 | 22.67 | 19.35 | 16.65 |
| 45.0            | 195.98 | 166.84 | 112.56 | 73.69  | 43.82 | 25.26 | 19.01 | 14.63 | 12.26 |
| 90.0            | 183.32 | 119.81 | 95.29  | 54.62  | 32.74 | 22.84 | 19.24 | 15.41 | 13.89 |
| 135.0           | 300.32 | 194.40 | 146.87 | 104.23 | 82.74 | 52.48 | 39.77 | 34.31 | 29.48 |
| 180.0           | 236.25 | 148.89 | 121.73 | 75.66  | 47.14 | 30.32 | 22.28 | 20.25 | 16.43 |
| 225.0           | 122.51 | 81.90  | 43.93  | 25.54  | 17.10 | 14.74 | 11.93 | 10.91 | 9.45  |
| 270.0           | 193.61 | 137.25 | 95.29  | 61.54  | 38.98 | 31.16 | 25.26 | 21.38 | 18.45 |
| 315.0           | 156.77 | 130.33 | 91.13  | 52.14  | 46.97 | 39.32 | 33.58 | 28.97 | 23.96 |
| 360.0           | 152.44 | 108.68 | 66.71  | 51.08  | 30.60 | 25.03 | 22.67 | 19.35 | 16.65 |
|                 |        |        |        |        |       |       |       |       |       |
| C/ $\gamma$ (°) | 54.0   | 55.0   | 56.0   | 57.0   | 58.0  | 59.0  | 60.0  | 61.0  | 62.0  |
| 0.0             | 14.23  | 11.19  | 9.11   | 4.89   | 4.16  | 3.60  | 3.09  | 2.64  | 2.36  |
| 45.0            | 10.52  | 9.22   | 7.76   | 6.36   | 3.43  | 2.81  | 2.42  | 2.19  | 1.97  |
| 90.0            | 11.81  | 10.01  | 8.44   | 5.12   | 4.33  | 3.77  | 3.21  | 2.98  | 2.59  |
| 135.0           | 27.00  | 22.67  | 18.28  | 16.48  | 12.26 | 10.63 | 9.22  | 7.99  | 7.37  |
| 180.0           | 13.95  | 11.87  | 9.51   | 7.31   | 4.84  | 4.11  | 3.83  | 3.21  | 2.81  |
| 225.0           | 7.99   | 6.41   | 2.93   | 2.70   | 2.31  | 1.97  | 1.86  | 1.69  | 1.46  |
| 270.0           | 16.14  | 13.39  | 11.81  | 5.06   | 4.50  | 3.77  | 3.21  | 2.76  | 2.48  |
| 315.0           | 21.66  | 17.66  | 12.21  | 9.56   | 8.04  | 7.31  | 6.30  | 5.34  | 4.56  |
| 360.0           | 14.23  | 11.19  | 9.11   | 4.89   | 4.16  | 3.60  | 3.09  | 2.64  | 2.36  |
|                 |        |        |        |        |       |       |       |       |       |
| C/ $\gamma$ (°) | 63.0   | 64.0   | 65.0   | 66.0   | 67.0  | 68.0  | 69.0  | 70.0  | 71.0  |
| 0.0             | 2.03   | 1.91   | 1.63   | 1.46   | 1.35  | 1.18  | 1.13  | 1.01  | 0.90  |
| 45.0            | 1.74   | 1.63   | 1.52   | 1.35   | 1.18  | 1.07  | 1.07  | 0.96  | 0.84  |
| 90.0            | 2.25   | 2.03   | 1.69   | 1.63   | 1.41  | 1.29  | 1.18  | 1.01  | 1.01  |
| 135.0           | 6.24   | 5.46   | 4.72   | 4.11   | 3.43  | 3.21  | 2.64  | 2.48  | 2.08  |
| 180.0           | 2.53   | 2.19   | 2.03   | 1.69   | 1.46  | 1.41  | 1.18  | 1.13  | 1.01  |
| 225.0           | 1.35   | 1.18   | 1.18   | 1.07   | 0.96  | 0.90  | 0.79  | 0.84  | 0.68  |
| 270.0           | 2.25   | 1.91   | 1.69   | 1.52   | 1.35  | 1.29  | 1.13  | 0.96  | 0.96  |
| 315.0           | 3.94   | 3.38   | 2.98   | 2.48   | 2.36  | 2.03  | 1.80  | 1.63  | 1.35  |
| 360.0           | 2.03   | 1.91   | 1.63   | 1.46   | 1.35  | 1.18  | 1.13  | 1.01  | 0.90  |
|                 |        |        |        |        |       |       |       |       |       |
| C/ $\gamma$ (°) | 72.0   | 73.0   | 74.0   | 75.0   | 76.0  | 77.0  | 78.0  | 79.0  | 80.0  |
| 0.0             | 0.84   | 0.79   | 0.73   | 0.68   | 0.56  | 0.62  | 0.51  | 0.45  | 0.45  |
| 45.0            | 0.84   | 0.79   | 0.73   | 0.73   | 0.56  | 0.62  | 0.51  | 0.51  | 0.45  |
| 90.0            | 0.90   | 0.79   | 0.79   | 0.68   | 0.62  | 0.56  | 0.45  | 0.51  | 0.39  |
| 135.0           | 1.80   | 1.69   | 1.52   | 1.41   | 1.18  | 1.07  | 0.96  | 0.90  | 0.84  |
| 180.0           | 0.96   | 0.90   | 0.79   | 0.79   | 0.68  | 0.62  | 0.62  | 0.56  | 0.45  |
| 225.0           | 0.62   | 0.62   | 0.56   | 0.56   | 0.51  | 0.45  | 0.45  | 0.34  | 0.34  |
| 270.0           | 0.79   | 0.79   | 0.73   | 0.62   | 0.62  | 0.56  | 0.51  | 0.51  | 0.45  |
| 315.0           | 1.35   | 1.13   | 1.07   | 0.96   | 0.79  | 0.73  | 0.68  | 0.56  | 0.56  |
| 360.0           | 0.84   | 0.79   | 0.73   | 0.68   | 0.56  | 0.62  | 0.51  | 0.45  | 0.45  |
|                 |        |        |        |        |       |       |       |       |       |
| C/ $\gamma$ (°) | 81.0   | 82.0   | 83.0   | 84.0   | 85.0  | 86.0  | 87.0  | 88.0  | 89.0  |
| 0.0             | 0.34   | 0.34   | 0.28   | 0.28   | 0.28  | 0.23  | 0.23  | 0.23  | 0.28  |
| 45.0            | 0.34   | 0.39   | 0.34   | 0.28   | 0.23  | 0.23  | 0.17  | 0.17  | 0.23  |
| 90.0            | 0.34   | 0.34   | 0.34   | 0.28   | 0.28  | 0.28  | 0.28  | 0.28  | 0.28  |
| 135.0           | 0.68   | 0.62   | 0.56   | 0.51   | 0.51  | 0.51  | 0.45  | 0.45  | 0.56  |
| 180.0           | 0.45   | 0.45   | 0.34   | 0.34   | 0.34  | 0.34  | 0.34  | 0.28  | 0.34  |
| 225.0           | 0.34   | 0.28   | 0.23   | 0.23   | 0.17  | 0.17  | 0.17  | 0.23  | 0.23  |
| 270.0           | 0.39   | 0.34   | 0.28   | 0.28   | 0.28  | 0.23  | 0.23  | 0.23  | 0.23  |
| 315.0           | 0.45   | 0.45   | 0.39   | 0.45   | 0.39  | 0.39  | 0.39  | 0.45  | 0.45  |
| 360.0           | 0.34   | 0.34   | 0.28   | 0.28   | 0.28  | 0.23  | 0.23  | 0.23  | 0.28  |

Intensity data(cd)

|                 |      |
|-----------------|------|
| C/ $\gamma$ (°) | 90.0 |
| 0.0             | 0.23 |
| 45.0            | 0.23 |
| 90.0            | 0.34 |
| 135.0           | 0.56 |
| 180.0           | 0.28 |
| 225.0           | 0.17 |
| 270.0           | 0.23 |
| 315.0           | 0.34 |
| 360.0           | 0.23 |