

Report No.: KUPU-BX155-A500-3D

Test Time: 2025/10/9 14:50:24

## LUMINAIRE PHOTOMETRIC TEST REPORT

### Luminaire Property

Manufacturer: GZAILITELED  
Luminaire Type: KUPU-BX155-A500  
Lamp Type:  
Luminous Width: 78 mm  
Luminous Length: 208 mm  
Luminous Height: 0 mm

Voltage(V): 221.40 V  
Current(A): 0.2900 A  
Power(W): 62.51 W  
Power Factor: 0.9730  
Lamp Luminous Flux: 5190.94

### Photometric Results

CIE Class: Direct  
Luminaire Luminous Flux: 5190.942 lm  
Downward Ratio: 100.00%  
Luminaire Efficacy Rating(LER): 83.04 lm/W  
Beam Angle(50%) C0-180,C90-270: 5.4,4.5  
Field Angle(10%) C0-180,C90-270: 11.1,8.9  
S/MH C0-180,C90-270: 0.140,0.140

Max. Intensity: 329609.90 cd  
Max.Intensity Angle: C=235 Gamma=0  
Upward Ratio: 0.00%  
Efficacy: 100.00%  
Center Intensity: 153446.00 cd  
Effective Luminous Flux: 1963.37 lm  
ERP( $\phi$ use)(120deg): 4713.60 lm

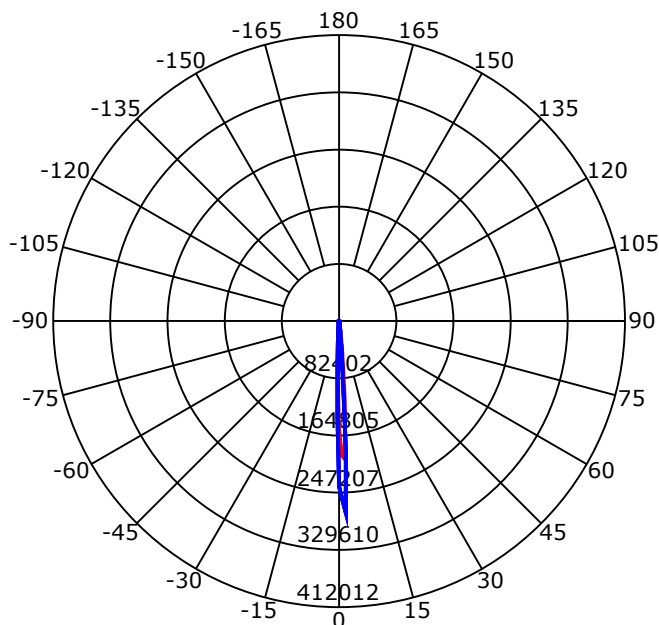
### CIE Color Parameter

Chromaticity coordinates:  $x = y = v = u^{\wedge} = v^{\wedge} = 0.0000$   
Color temperature:K (duv=) Color difference:SDCM(CIE)= Main Wl: $\lambda_d$ = Purity:  
Peak wavelength: $\lambda_p$ = FWHM: $\Delta\lambda_p$ = Color ratio:R= G= B=  
Color rendering index :Ra=  
R1= R2= R3= R4= R5= R6= R7= R8=  
R9= R10= R11= R12= R13= R14= R15=

Picture of Luminaire



Luminous Intensity Distribution Curve



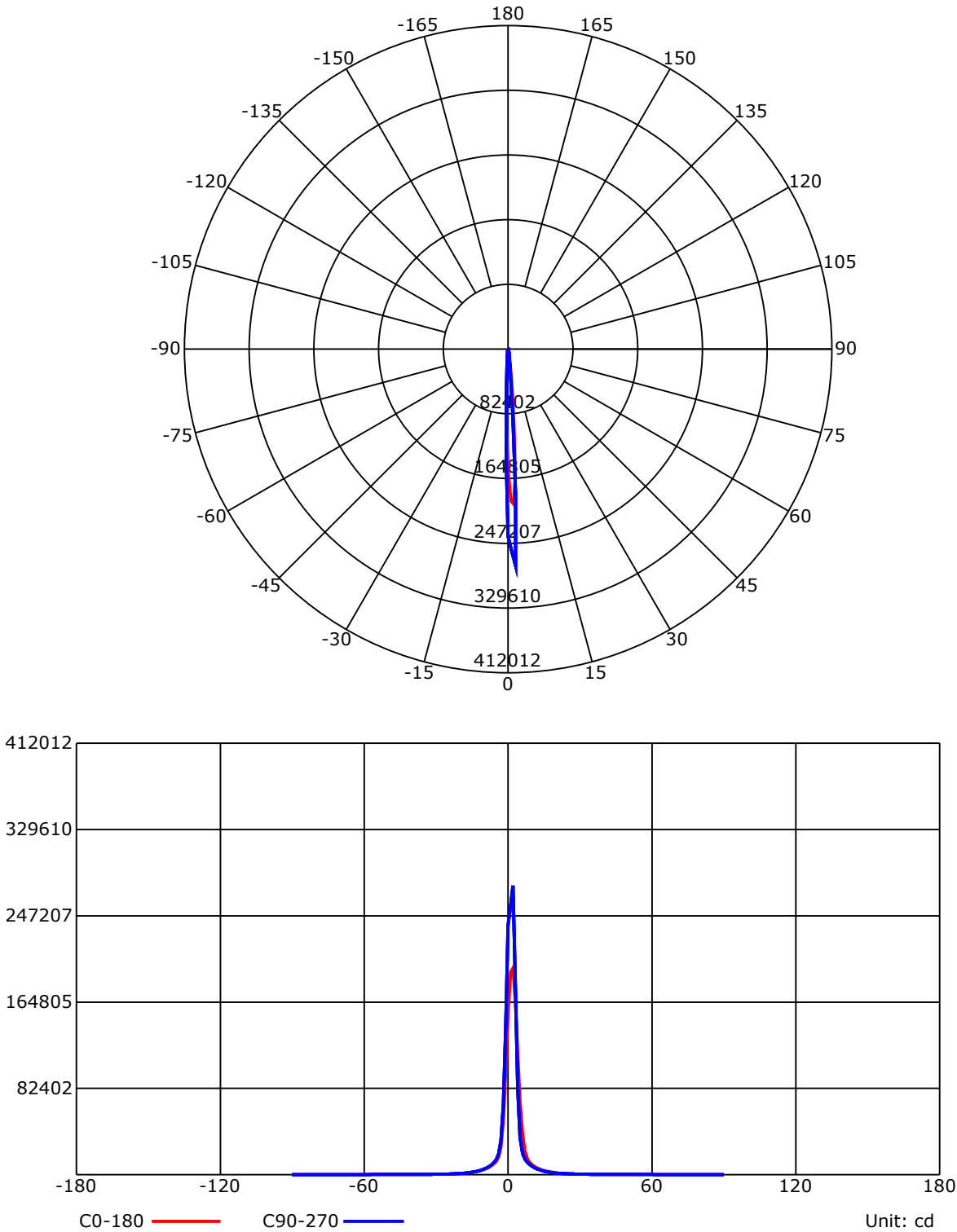
Beam Angle(50%) C0-180,C90-270: 5.4 deg,4.5 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg  
C Interval: 5.0 Deg  
Test Speed: High  
Temperature: 7.061  
Operators:  
Test Date: 2025/10/9 14:50:24

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 1  
Test Distance: 7.061 m  
Remarks:

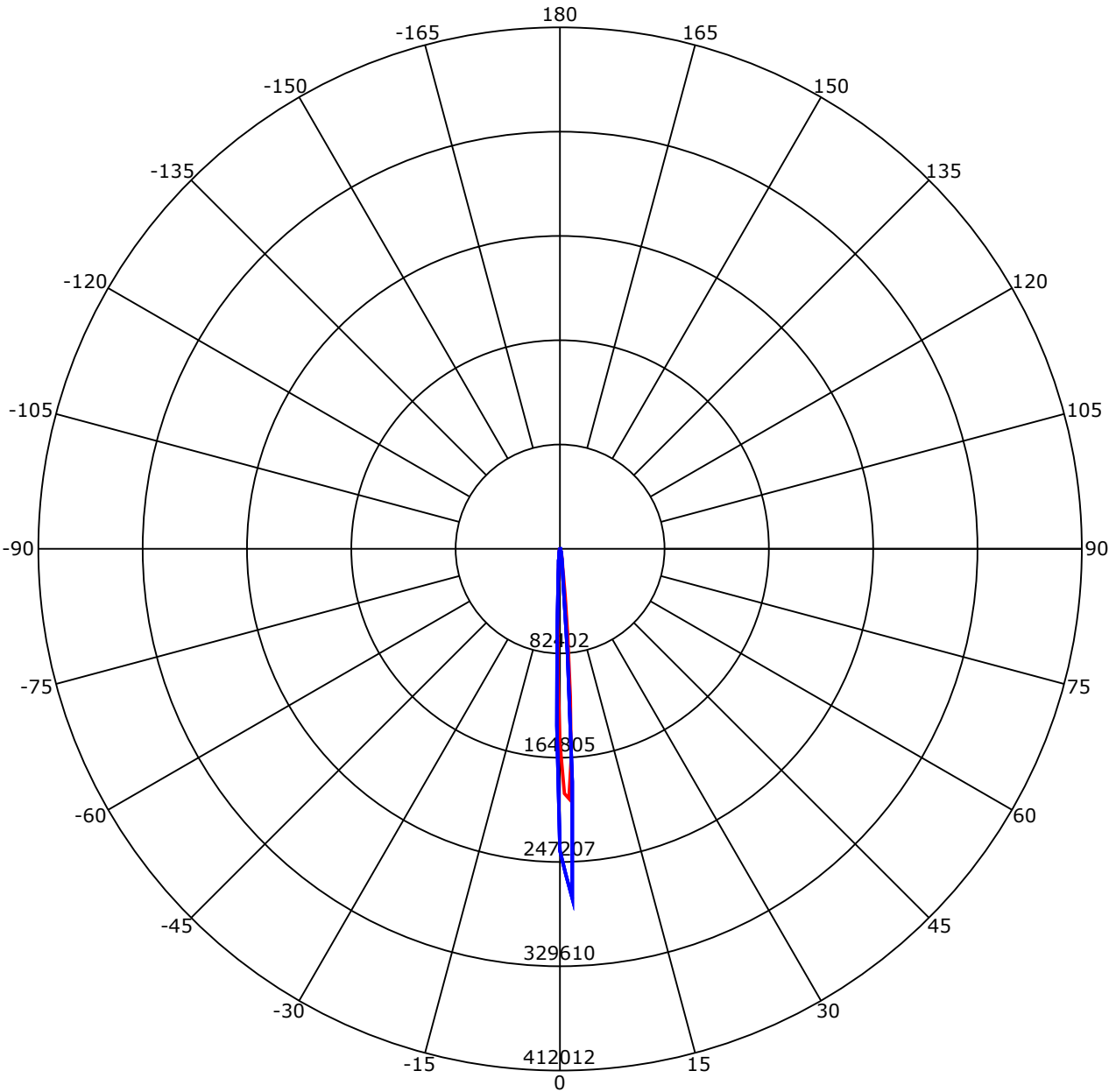
Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg  
C Interval: 5.0 Deg  
Test Speed: High  
Temperature: 7.061  
Operators:  
Test Date: 2025/10/9 14:50:24

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 1  
Test Distance: 7.061 m  
Remarks:

Luminous Intensity Distribution Curve

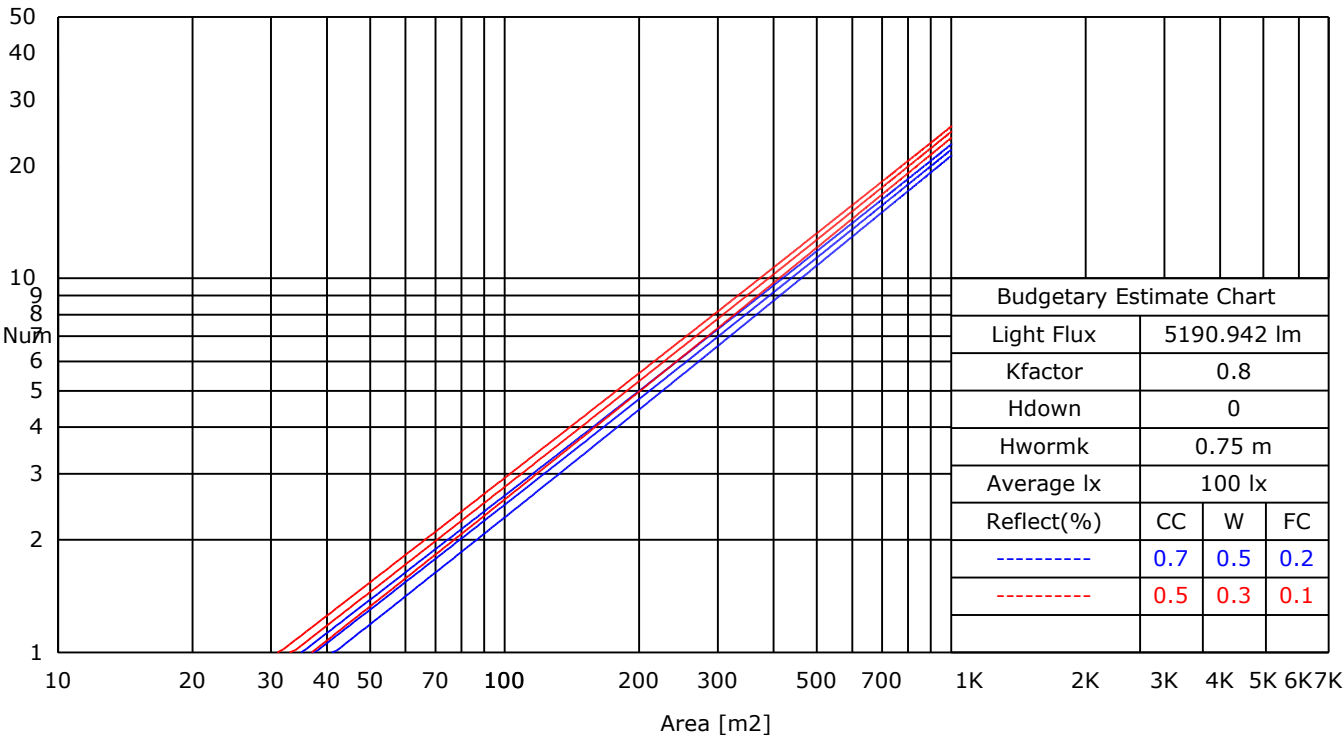


C0-180 — C90-270  
Unit: cd/klm

UTILIZATION FACTORS TABLE

| 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 FOR RHOFC=20 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0     | 1.16                                    | 1.16 | 1.16 | 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     | 1.12                                    | 1.12 | 1.11 | 1.11 | 1.10 | 1.09 | 1.06 | 1.05 | 1.04 | 1.01 | 1.00 | 0.99 | 0.94 | 0.93 | 0.92 | 0.87 |
| 2     | 1.07                                    | 1.06 | 1.05 | 1.05 | 1.04 | 1.03 | 1.01 | 1.00 | 0.98 | 0.96 | 0.95 | 0.93 | 0.90 | 0.88 | 0.87 | 0.82 |
| 3     | 1.02                                    | 1.01 | 1.00 | 1.01 | 0.99 | 0.98 | 0.97 | 0.95 | 0.94 | 0.93 | 0.91 | 0.89 | 0.87 | 0.85 | 0.83 | 0.79 |
| 4     | 0.99                                    | 0.97 | 0.97 | 0.97 | 0.96 | 0.95 | 0.94 | 0.92 | 0.90 | 0.90 | 0.87 | 0.85 | 0.85 | 0.82 | 0.80 | 0.76 |
| 5     | 0.96                                    | 0.95 | 0.94 | 0.94 | 0.93 | 0.92 | 0.91 | 0.89 | 0.87 | 0.87 | 0.85 | 0.83 | 0.83 | 0.80 | 0.78 | 0.74 |
| 6     | 0.93                                    | 0.92 | 0.91 | 0.92 | 0.90 | 0.89 | 0.89 | 0.86 | 0.85 | 0.85 | 0.82 | 0.80 | 0.81 | 0.78 | 0.76 | 0.72 |
| 7     | 0.91                                    | 0.90 | 0.89 | 0.90 | 0.88 | 0.87 | 0.87 | 0.84 | 0.83 | 0.83 | 0.81 | 0.79 | 0.80 | 0.76 | 0.74 | 0.70 |
| 8     | 0.89                                    | 0.88 | 0.88 | 0.88 | 0.86 | 0.86 | 0.85 | 0.83 | 0.81 | 0.82 | 0.79 | 0.77 | 0.78 | 0.75 | 0.72 | 0.69 |
| 9     | 0.88                                    | 0.87 | 0.86 | 0.86 | 0.85 | 0.84 | 0.83 | 0.81 | 0.80 | 0.80 | 0.77 | 0.76 | 0.77 | 0.74 | 0.71 | 0.68 |
| 10    | 0.86                                    | 0.85 | 0.85 | 0.85 | 0.84 | 0.83 | 0.82 | 0.80 | 0.79 | 0.79 | 0.76 | 0.74 | 0.76 | 0.72 | 0.70 | 0.67 |

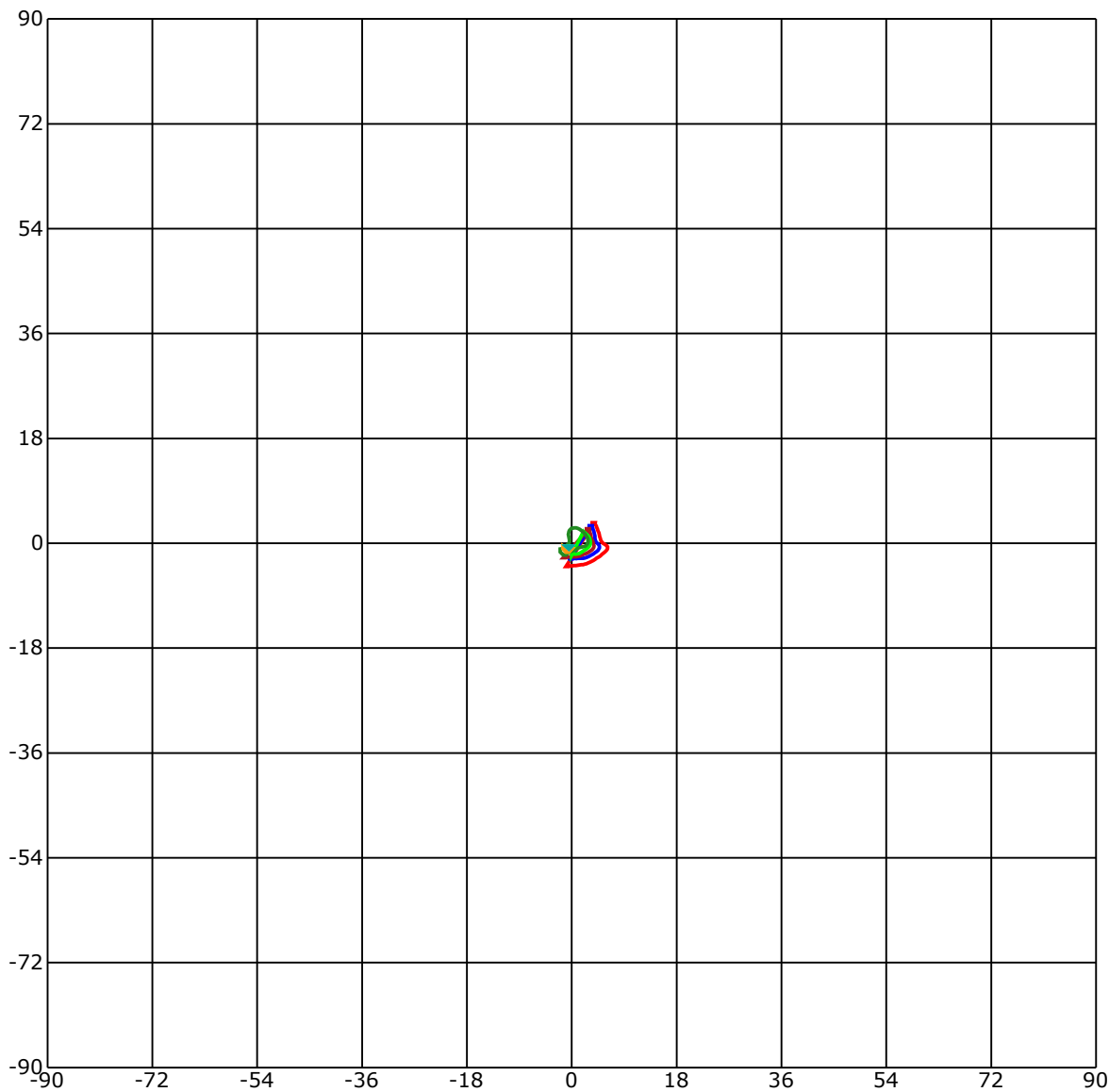
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg  
C Interval: 5.0 Deg  
Test Speed: High  
Temperature: 7.061  
Operators:  
Test Date: 2025/10/9 14:50:24

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 1  
Test Distance: 7.061 m  
Remarks:

ISOCANDELA DIAGRAM (RECTANGULAR)



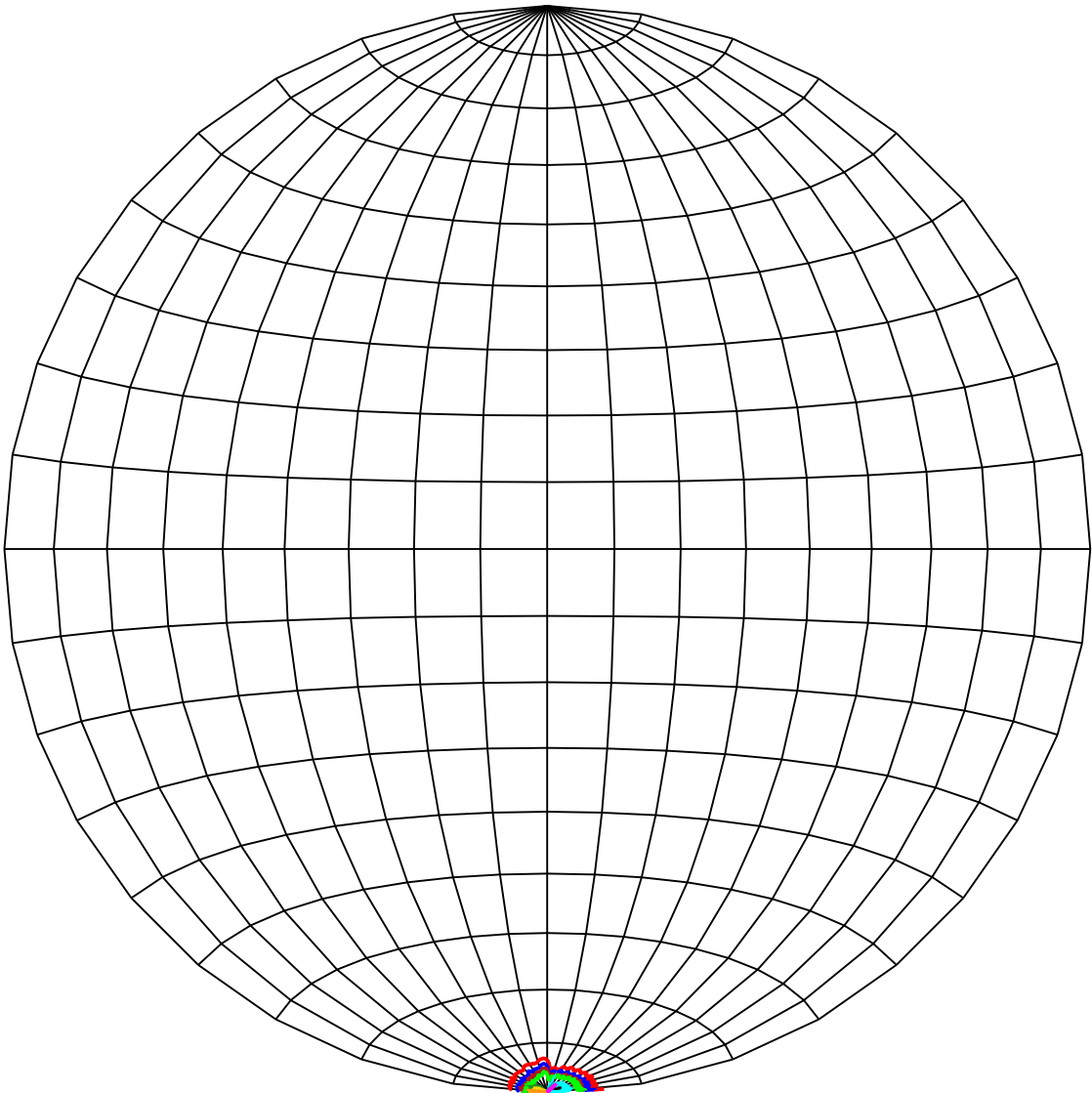
Unit of intensity:cd      I<sub>max</sub>(100%): 329609.9 cd

- |                                |                                |
|--------------------------------|--------------------------------|
| 313129.4(95%I <sub>max</sub> ) | 164805.0(50%I <sub>max</sub> ) |
| 296648.9(90%I <sub>max</sub> ) | 131844.0(40%I <sub>max</sub> ) |
| 263687.9(80%I <sub>max</sub> ) | 98882.98(30%I <sub>max</sub> ) |
| 230726.9(70%I <sub>max</sub> ) | 65921.98(20%I <sub>max</sub> ) |
| 197766.0(60%I <sub>max</sub> ) | 32960.99(10%I <sub>max</sub> ) |

C Range: 0 - 360 Deg  
C Interval: 5.0 Deg  
Test Speed: High  
Temperature: 7.061  
Operators:  
Test Date: 2025/10/9 14:50:24

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 1  
Test Distance: 7.061 m  
Remarks:

ISOCANDELA DIAGRAM (SPHERE)



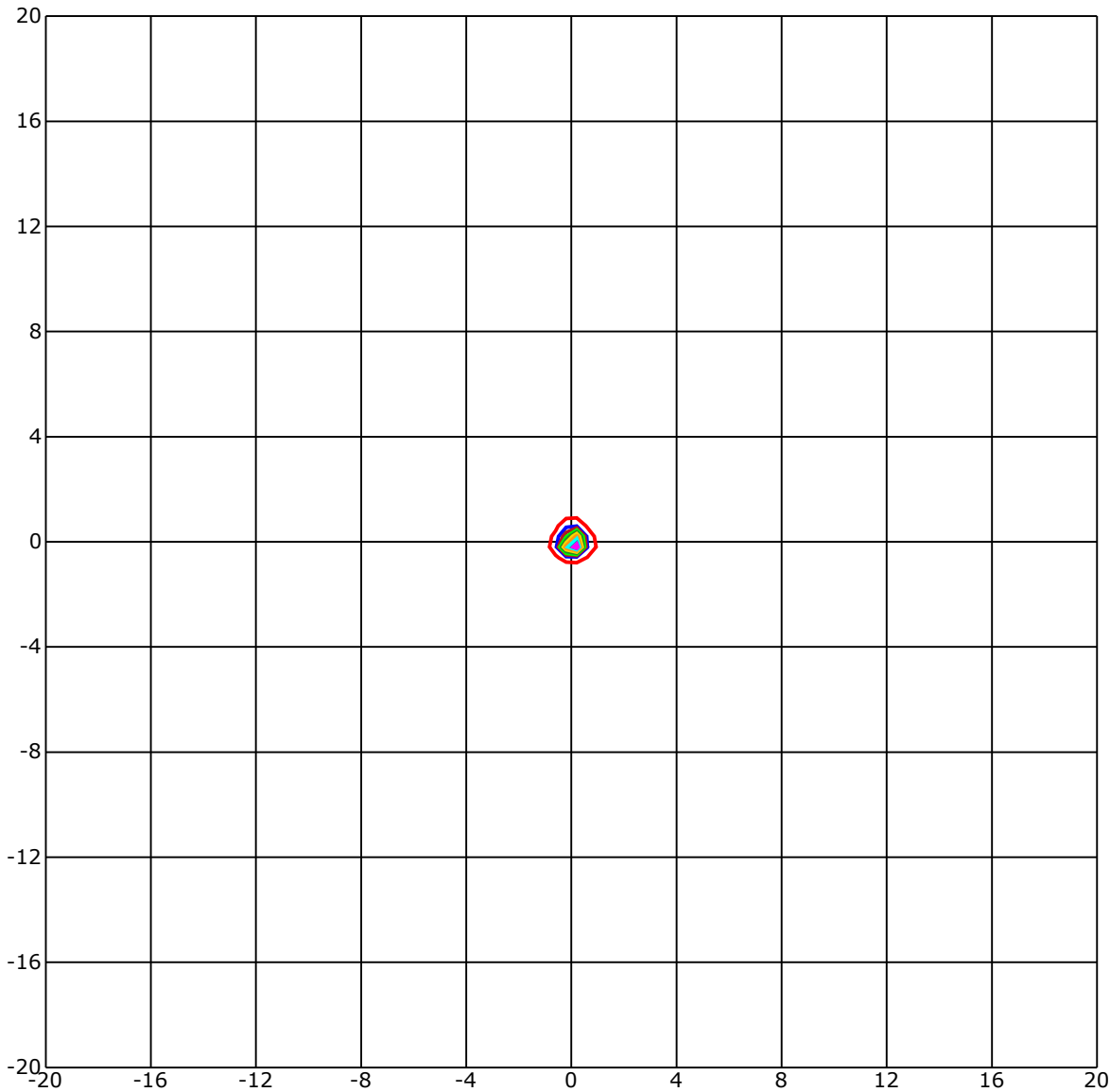
Unit of intensity:cd    I<sub>max</sub>(100%): 329609.9 cd

|                                |                                |
|--------------------------------|--------------------------------|
| 313129.4(95%I <sub>max</sub> ) | 164805.0(50%I <sub>max</sub> ) |
| 296648.9(90%I <sub>max</sub> ) | 131844.0(40%I <sub>max</sub> ) |
| 263687.9(80%I <sub>max</sub> ) | 98882.98(30%I <sub>max</sub> ) |
| 230726.9(70%I <sub>max</sub> ) | 65921.98(20%I <sub>max</sub> ) |
| 197766.0(60%I <sub>max</sub> ) | 32960.99(10%I <sub>max</sub> ) |

C Range: 0 - 360 Deg  
C Interval: 5.0 Deg  
Test Speed: High  
Temperature: 7.061  
Operators:  
Test Date: 2025/10/9 14:50:24

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 1  
Test Distance: 7.061 m  
Remarks:

ISOLX DIAGRAM



Unit of illumination:lx      Height of plane:4.0(m)/13.12(ft)

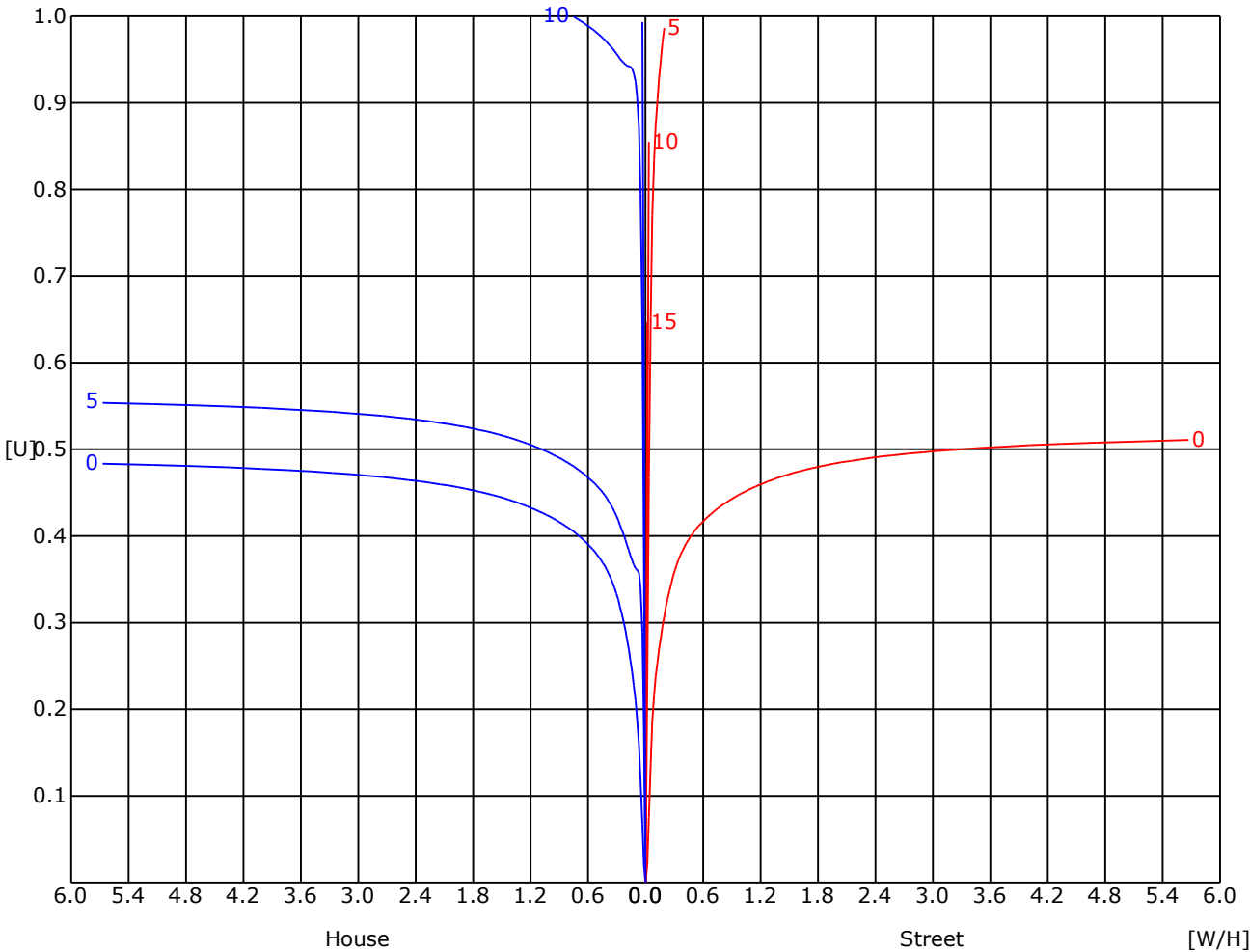
|                   |                   |
|-------------------|-------------------|
| 18952.57(92%Emax) | 10300.31(50%Emax) |
| 18540.56(90%Emax) | 8240.248(40%Emax) |
| 16480.5(80%Emax)  | 6180.186(30%Emax) |
| 14420.43(70%Emax) | 4120.124(20%Emax) |
| 12360.37(60%Emax) | 2060.062(10%Emax) |

C Range: 0 - 360 Deg  
C Interval: 5.0 Deg  
Test Speed: High  
Temperature: 7.061  
Operators:  
Test Date: 2025/10/9 14:50:24

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 1  
Test Distance: 7.061 m  
Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)

15

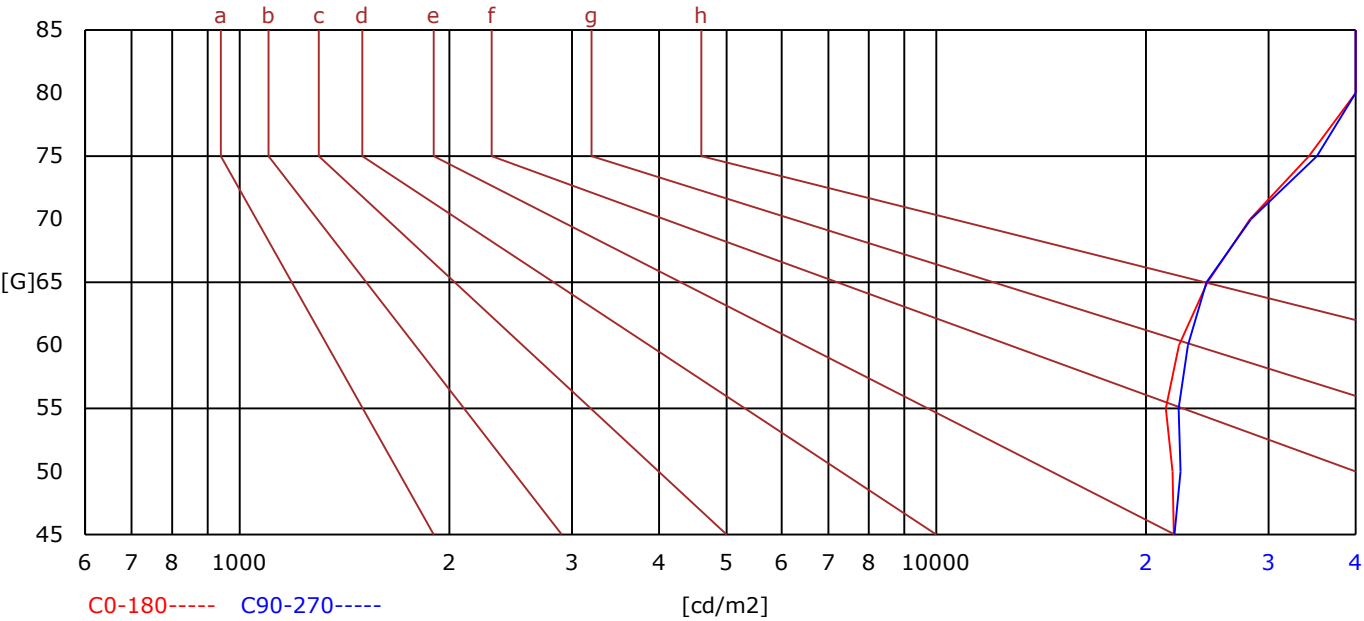


C Range: 0 - 360 Deg  
C Interval: 5.0 Deg  
Test Speed: High  
Temperature: 7.061  
Operators:  
Test Date: 2025/10/9 14:50:24

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 1  
Test Distance: 7.061 m  
Remarks:

BRIGHT LIMIT DIAGRAM

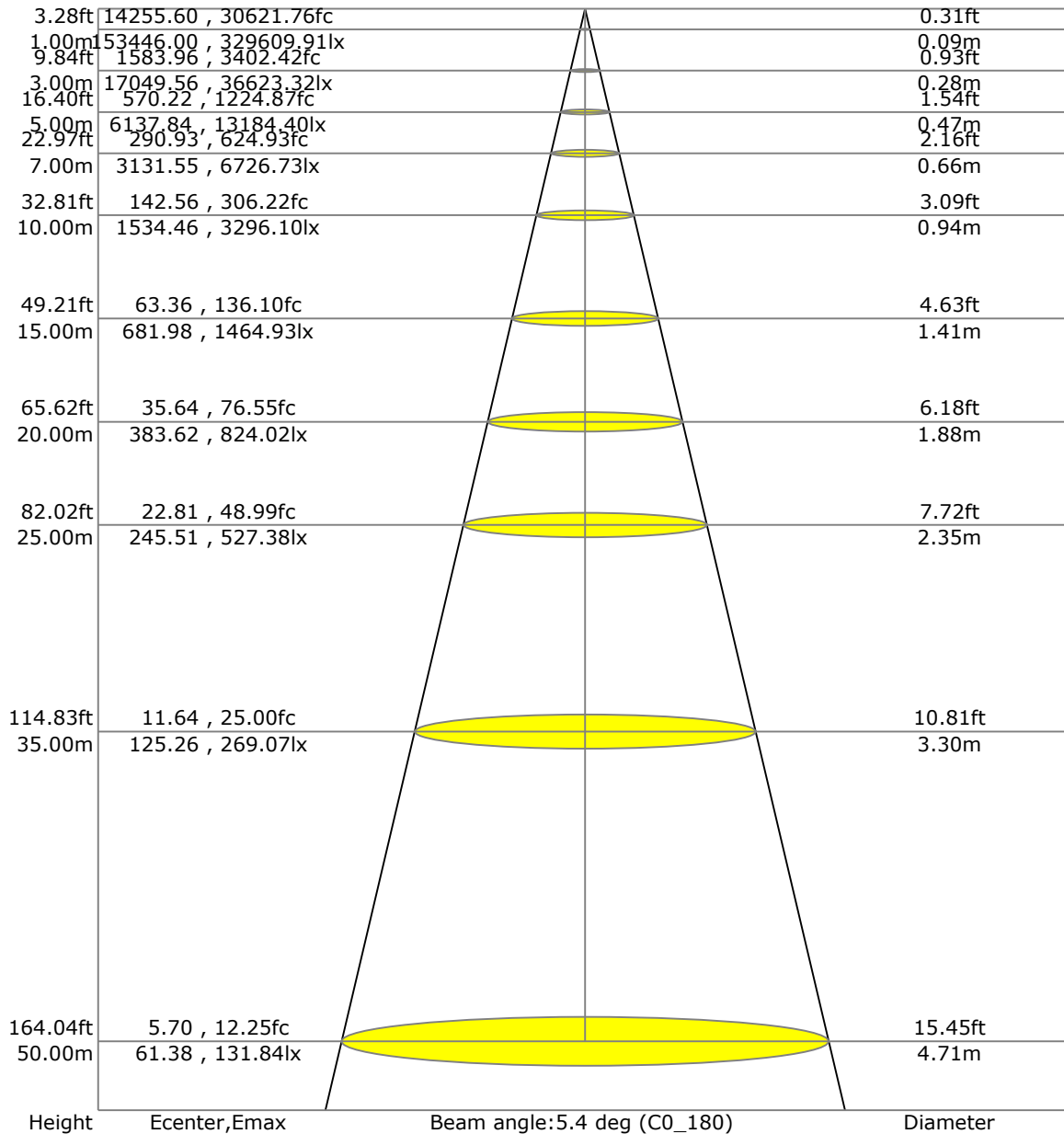
|        |         |             |       |       |       |       |       |       |       |
|--------|---------|-------------|-------|-------|-------|-------|-------|-------|-------|
| C/G    | 45      | 50          | 55    | 60    | 65    | 70    | 75    | 80    | 85    |
| C0     | 21917   | 21829       | 21356 | 22298 | 24512 | 28213 | 34255 | 49552 | 93015 |
| C90    | 21973   | 22422       | 22288 | 22974 | 24432 | 28303 | 35193 | 49552 | 92768 |
| Dazzle | Quality | Illuminance | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 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     |



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## LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/10/9 14:50:24

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

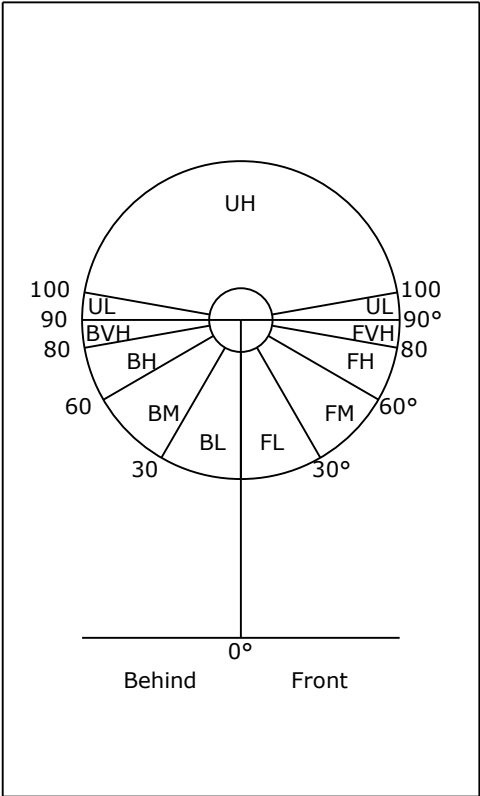
Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

Test Distance: 7.061 m

Remarks:

BUG Class



| Zonal         | Light Flux(lm) | Light Flux(%) |
|---------------|----------------|---------------|
| Front         | 2660.9         | 51.3          |
| FL (0°-30°)   | 2100.9         | 40.5          |
| FM (30°-60°)  | 322.7          | 6.2           |
| FH (60°-80°)  | 164.9          | 3.2           |
| FVH (80°-90°) | 72.4           | 1.4           |

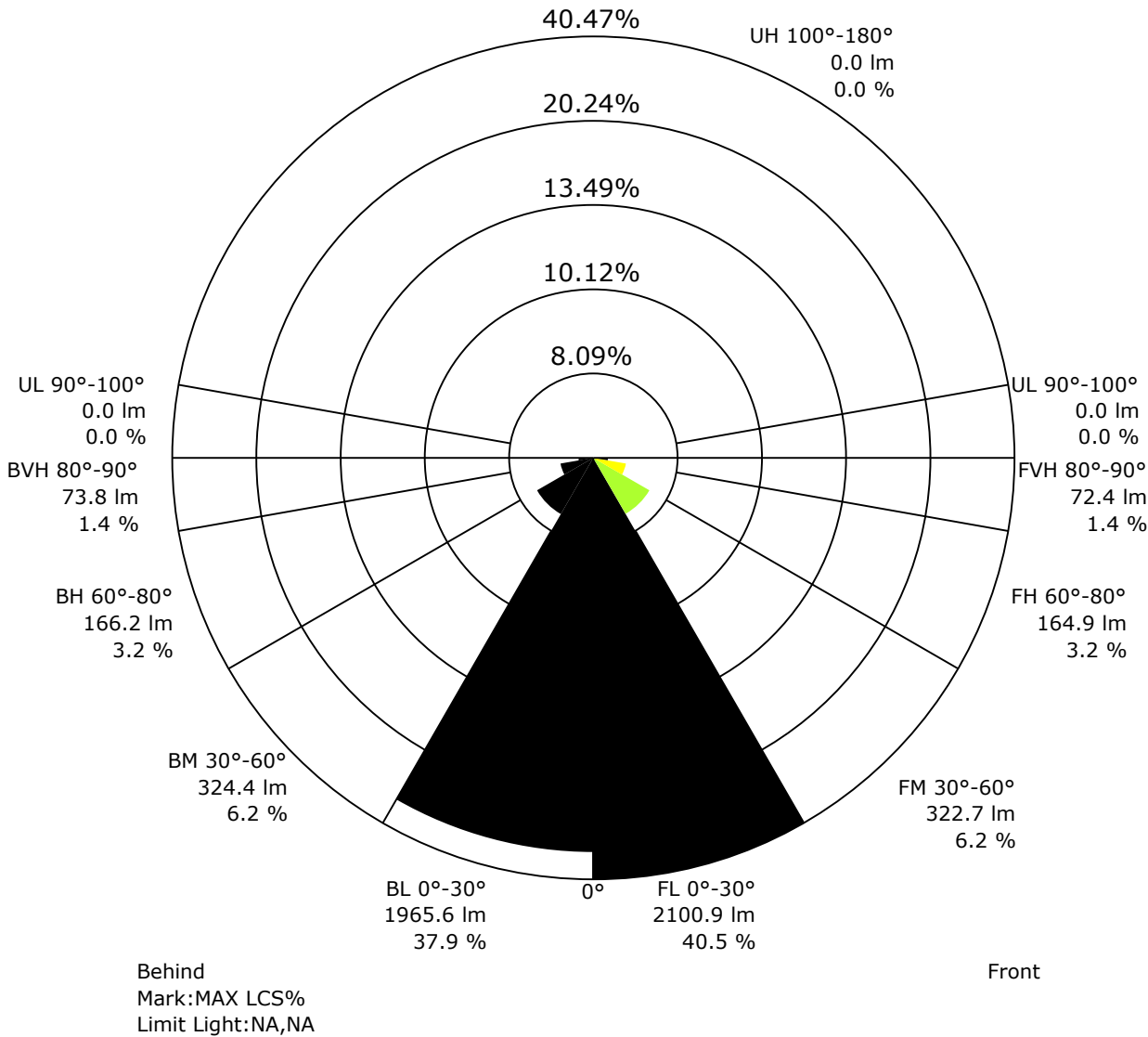
|               |        |      |
|---------------|--------|------|
| Behind        | 2530.0 | 48.7 |
| BL (0°-30°)   | 1965.6 | 37.9 |
| BM (30°-60°)  | 324.4  | 6.2  |
| BH (60°-80°)  | 166.2  | 3.2  |
| BVH (80°-90°) | 73.8   | 1.4  |

|                |     |     |
|----------------|-----|-----|
| Above          | 0.0 | 0.0 |
| UL (90°-100°)  | 0.0 | 0.0 |
| UH (100°-180°) | 0.0 | 0.0 |

|             |    |    |
|-------------|----|----|
| Limit Light | NA | NA |
|-------------|----|----|

| BUG Class(TM-15-07)                                      |          |
|----------------------------------------------------------|----------|
| Asymmetric Lighting Fixtures<br>(Type I , II , III , IV) | B3 U0 G1 |
| Symmetrical Lighting Fixtures<br>(Type V , Area Light)   | B3 U0 G1 |

LCS 图



UGR(Unified Glare Rating) TABLE

|                  |                |       |       |       |       |                  |       |       |       |       |
|------------------|----------------|-------|-------|-------|-------|------------------|-------|-------|-------|-------|
| RHOCC            | 70             | 70    | 50    | 50    | 30    | 70               | 70    | 50    | 50    | 30    |
| RHOW             | 50             | 30    | 50    | 30    | 30    | 50               | 30    | 50    | 30    | 30    |
| RHOF             | 20             | 20    | 20    | 20    | 20    | 20               | 20    | 20    | 20    | 20    |
| Room Size<br>X Y | Viewed Endwise |       |       |       |       | Viewed Crosswise |       |       |       |       |
| 2H 2H            | 18.18          | 18.34 | 18.54 | 18.82 | 19.38 | 18.23            | 18.39 | 18.59 | 18.87 | 19.44 |
| 3H               | 18.40          | 18.57 | 18.76 | 19.04 | 19.60 | 18.46            | 18.62 | 18.81 | 19.09 | 19.66 |
| 4H               | 18.47          | 18.63 | 18.83 | 19.10 | 19.67 | 18.52            | 18.68 | 18.87 | 19.15 | 19.71 |
| 6H               | 18.47          | 18.64 | 18.83 | 19.10 | 19.67 | 18.52            | 18.68 | 18.88 | 19.15 | 19.72 |
| 8H               | 18.44          | 18.60 | 18.80 | 19.06 | 19.63 | 18.49            | 18.65 | 18.85 | 19.11 | 19.68 |
| 12H              | 18.40          | 18.57 | 18.77 | 19.02 | 19.60 | 18.45            | 18.61 | 18.81 | 19.07 | 19.64 |
| 4H 2H            | 22.20          | 22.36 | 22.56 | 22.83 | 23.40 | 22.25            | 22.41 | 22.60 | 22.88 | 23.45 |
| 3H               | 22.70          | 22.86 | 23.06 | 23.32 | 23.89 | 22.74            | 22.90 | 23.10 | 23.35 | 23.93 |
| 4H               | 22.89          | 23.05 | 23.26 | 23.50 | 24.08 | 22.92            | 23.08 | 23.29 | 23.53 | 24.11 |
| 6H               | 23.02          | 23.17 | 23.39 | 23.62 | 24.20 | 23.05            | 23.20 | 23.42 | 23.65 | 24.23 |
| 8H               | 23.06          | 23.20 | 23.43 | 23.65 | 24.24 | 23.09            | 23.23 | 23.46 | 23.68 | 24.27 |
| 12H              | 23.05          | 23.19 | 23.43 | 23.63 | 24.23 | 23.08            | 23.22 | 23.46 | 23.66 | 24.26 |
| 8H 4H            | 24.61          | 24.77 | 24.97 | 25.23 | 25.80 | 24.69            | 24.85 | 25.05 | 25.31 | 25.88 |
| 6H               | 26.19          | 26.32 | 26.57 | 26.76 | 27.36 | 26.24            | 26.37 | 26.62 | 26.81 | 27.41 |
| 8H               | 26.35          | 26.47 | 26.74 | 26.91 | 27.52 | 26.39            | 26.51 | 26.78 | 26.95 | 27.56 |
| 12H              | 26.46          | 26.57 | 26.86 | 27.01 | 27.63 | 26.51            | 26.62 | 26.91 | 27.06 | 27.68 |
| 12H 4H           | 26.99          | 27.13 | 27.37 | 27.57 | 28.17 | 27.05            | 27.19 | 27.43 | 27.63 | 28.22 |
| 6H               | 27.54          | 27.66 | 27.93 | 28.10 | 28.71 | 27.58            | 27.70 | 27.97 | 28.14 | 28.75 |



## ZONAL LUMINOUS FLUX TABLE-2

| γ  | C0     | C5     | C10    | C15    | C20    | C25    | C30    | C35    | γ  | φ zonal | φ total | %lum  | %lamp |
|----|--------|--------|--------|--------|--------|--------|--------|--------|----|---------|---------|-------|-------|
| 10 | 9503.5 | 5422.9 | 7077.4 | 5686.1 | 7390.6 | 5917.3 | 7678.1 | 6095.9 | 10 | 2864.9  | 2864.9  | 55.2  | 55.2  |
| 20 | 1891.1 | 1191.4 | 1470.6 | 1232.1 | 1517.9 | 1269.7 | 1560.0 | 1294.1 | 20 | 832.9   | 3697.7  | 71.2  | 71.2  |
| 30 | 581.1  | 456.6  | 506.9  | 472.3  | 522.0  | 485.0  | 536.4  | 491.3  | 30 | 368.7   | 4066.5  | 78.3  | 78.3  |
| 40 | 328.5  | 290.0  | 306.2  | 294.8  | 315.1  | 299.5  | 317.8  | 300.2  | 40 | 247.4   | 4313.9  | 83.1  | 83.1  |
| 50 | 242.2  | 227.7  | 237.2  | 229.3  | 239.3  | 233.9  | 243.8  | 236.2  | 50 | 207.9   | 4521.8  | 87.1  | 87.1  |
| 60 | 195.1  | 180.9  | 190.7  | 180.8  | 188.7  | 185.5  | 193.1  | 188.6  | 60 | 191.8   | 4713.6  | 90.8  | 90.8  |
| 70 | 161.6  | 156.6  | 160.9  | 154.2  | 162.1  | 159.3  | 162.9  | 165.2  | 70 | 172.7   | 4886.3  | 94.1  | 94.1  |
| 80 | 144.2  | 139.6  | 139.7  | 138.4  | 139.5  | 142.9  | 141.2  | 141.5  | 80 | 158.4   | 5044.7  | 97.2  | 97.2  |
| 90 | 143.1  | 126.2  | 0.0    | 133.9  | 0.0    | 147.7  | 0.0    | 152.4  | 90 | 146.2   | 5190.9  | 100.0 | 100.0 |
|    |        |        |        |        |        |        |        |        |    |         |         |       |       |
|    |        |        |        |        |        |        |        |        |    |         |         |       |       |
|    |        |        |        |        |        |        |        |        |    |         |         |       |       |
|    |        |        |        |        |        |        |        |        |    |         |         |       |       |
|    |        |        |        |        |        |        |        |        |    |         |         |       |       |
|    |        |        |        |        |        |        |        |        |    |         |         |       |       |
|    |        |        |        |        |        |        |        |        |    |         |         |       |       |
|    |        |        |        |        |        |        |        |        |    |         |         |       |       |
|    |        |        |        |        |        |        |        |        |    |         |         |       |       |
|    |        |        |        |        |        |        |        |        |    |         |         |       |       |

Conical surface Flux(90deg) : 4420.4 lm

%lum = 85.2%

%lamp = 85.2%

Conical surface Flux(120deg) : 4713.6 lm

%lum = 90.8%

%lamp = 90.8%

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/10/9 14:50:24

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

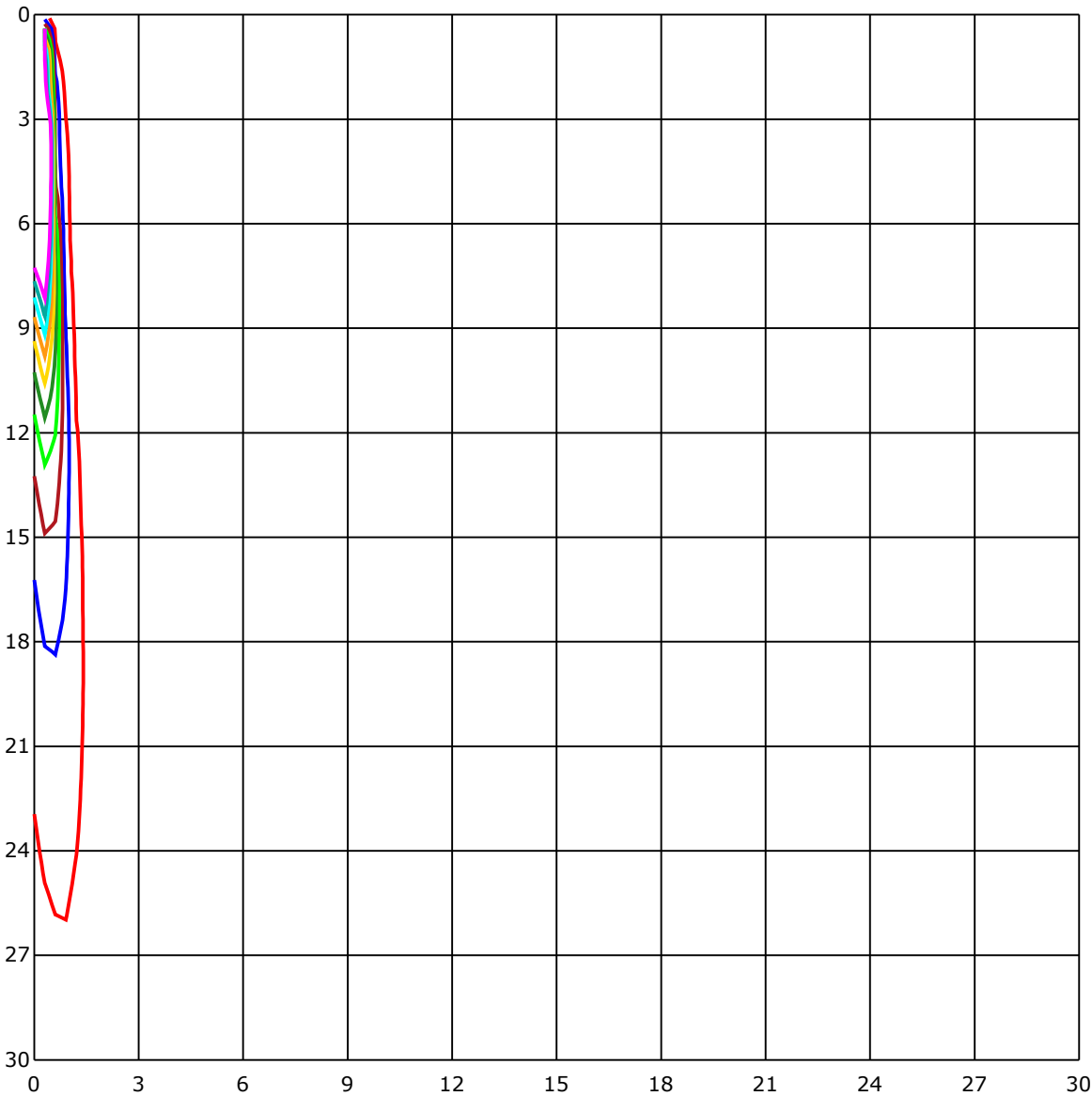
Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

Test Distance: 7.061 m

Remarks:

SPACE ISOLX DIAGRAM



Unit of illumination:lx

- |          |          |
|----------|----------|
| 2915.46  | 1457.73  |
| 2623.914 | 1166.184 |
| 2332.368 | 874.638  |
| 2040.822 | 583.092  |
| 1749.276 | 291.546  |

C Range: 0 - 360 Deg  
C Interval: 5.0 Deg  
Test Speed: High  
Temperature: 7.061  
Operators:  
Test Date: 2025/10/9 14:50:24

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 1  
Test Distance: 7.061 m  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

| Gamma\C | C0       | C5       | C10      | C15      | C20      | C25      | C30      | C35      | C40      | C45      |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| G0      | 153446.0 | 256117.6 | 267856.3 | 282059.1 | 256929.7 | 302158.3 | 274026.7 | 316963.3 | 258241.3 | 326332.2 |
| G1      | 193314.6 | 192340.5 | 274425.2 | 223523.7 | 297883.3 | 247016.1 | 313546.1 | 263672.6 | 275523.8 | 276811.4 |
| G2      | 197373.1 | 112038.6 | 234253.8 | 136988.0 | 259477.5 | 158834.0 | 281067.3 | 174236.7 | 292806.3 | 181635.7 |
| G3      | 166442.6 | 55526.59 | 153519.8 | 67487.2  | 177144.9 | 77200.88 | 198499.0 | 82192.95 | 214432.0 | 82540.85 |
| G4      | 116891.8 | 27190.26 | 77631.66 | 31452.69 | 94306.92 | 34753.67 | 102442.2 | 36375.89 | 109721.2 | 36235.39 |
| G5      | 69873.8  | 16599.13 | 36586.04 | 18175.18 | 42530.13 | 19346.59 | 46576.63 | 19975.99 | 47200.7  | 20083.98 |
| G6      | 38403.41 | 12117.22 | 20186.14 | 12912.85 | 22037.91 | 13501.12 | 23294.67 | 13909.11 | 23769.37 | 14116.56 |
| G7      | 22374.45 | 9559.67  | 13726.88 | 10102.67 | 14552.07 | 10555.23 | 15178.43 | 10898.55 | 15481.47 | 11138.76 |
| G8      | 15373.63 | 7798.6   | 10595.71 | 8224.68  | 11131.58 | 8588.04  | 11573.77 | 8871.53  | 11871.57 | 9070.57  |
| G9      | 11770.56 | 6492.67  | 8560.47  | 6827.47  | 8982.27  | 7101.73  | 9348.17  | 7315.47  | 9595.47  | 7475.12  |
| G10     | 9503.48  | 5422.88  | 7077.35  | 5686.12  | 7390.56  | 5917.26  | 7678.14  | 6095.85  | 7882.46  | 6229.32  |
| G11     | 7864.46  | 4567.81  | 5895.48  | 4779.51  | 6162.66  | 4962.74  | 6384.28  | 5103.64  | 6549.31  | 5207.59  |
| G12     | 6573.34  | 3885.41  | 4953.81  | 4052.34  | 5159.83  | 4177.68  | 5343.8   | 4292.5   | 5470.14  | 4369.93  |
| G13     | 5511.57  | 3326.46  | 4187.3   | 3463.62  | 4348.34  | 3576.59  | 4490.39  | 3657.66  | 4593.54  | 3723.28  |
| G14     | 4659.95  | 2857.8   | 3580.63  | 2971.97  | 3715.65  | 3060.22  | 3823.44  | 3124.78  | 3902.81  | 3172.25  |
| G15     | 3984.53  | 2468.36  | 3072.58  | 2566.23  | 3171.6   | 2636.28  | 3260.2   | 2689.03  | 3321.32  | 2720.09  |
| G16     | 3417.1   | 2137.1   | 2646.45  | 2213.04  | 2736.09  | 2279.05  | 2803.2   | 2321.77  | 2844.68  | 2353.63  |
| G17     | 2944.95  | 1834.57  | 2290.07  | 1904.17  | 2362.56  | 1956.12  | 2419.25  | 2010.06  | 2456.79  | 2035.94  |
| G18     | 2558.85  | 1585.92  | 1969.63  | 1645.06  | 2044.07  | 1688.63  | 2090.39  | 1722.34  | 2125.88  | 1746.77  |
| G19     | 2207.65  | 1377.27  | 1699.25  | 1424.68  | 1750.16  | 1464.42  | 1798.12  | 1497.53  | 1824.64  | 1518.07  |
| G20     | 1891.05  | 1191.35  | 1470.6   | 1232.08  | 1517.92  | 1269.73  | 1560.0   | 1294.11  | 1584.68  | 1320.08  |
| G21     | 1638.23  | 1042.43  | 1278.2   | 1074.93  | 1318.84  | 1105.05  | 1352.74  | 1126.78  | 1381.61  | 1141.64  |
| G22     | 1425.13  | 924.06   | 1105.79  | 951.53   | 1144.04  | 975.27   | 1172.31  | 990.17   | 1194.49  | 1008.92  |
| G23     | 1233.33  | 819.41   | 982.4    | 853.56   | 1013.41  | 868.02   | 1030.66  | 889.46   | 1048.31  | 899.78   |
| G24     | 1077.03  | 733.81   | 876.65   | 756.14   | 898.14   | 773.49   | 919.48   | 791.04   | 936.33   | 799.77   |
| G25     | 955.12   | 660.07   | 781.97   | 681.46   | 804.35   | 702.6    | 820.81   | 715.76   | 838.66   | 722.89   |
| G26     | 852.17   | 610.01   | 702.79   | 623.32   | 722.29   | 642.62   | 736.15   | 651.59   | 751.21   | 662.41   |
| G27     | 761.83   | 554.32   | 637.13   | 574.11   | 657.42   | 590.07   | 671.63   | 600.54   | 680.86   | 608.21   |
| G28     | 687.19   | 518.52   | 586.73   | 534.38   | 604.92   | 548.53   | 615.19   | 555.86   | 628.61   | 561.3    |
| G29     | 630.3    | 485.46   | 544.85   | 495.88   | 560.05   | 514.48   | 568.63   | 521.66   | 583.04   | 531.38   |
| G30     | 581.09   | 456.65   | 506.9    | 472.3    | 521.96   | 484.97   | 536.42   | 491.3    | 546.89   | 498.73   |
| G31     | 539.11   | 430.32   | 476.99   | 439.89   | 492.64   | 457.89   | 504.56   | 471.11   | 515.18   | 468.36   |
| G32     | 500.27   | 412.07   | 456.25   | 421.85   | 468.11   | 435.36   | 477.29   | 444.63   | 486.26   | 449.02   |
| G33     | 477.39   | 388.14   | 430.67   | 400.31   | 441.89   | 412.97   | 452.71   | 422.59   | 462.68   | 427.53   |
| G34     | 449.02   | 371.39   | 407.59   | 381.16   | 420.95   | 391.58   | 430.62   | 400.71   | 439.2    | 405.54   |
| G35     | 424.99   | 348.31   | 387.74   | 359.77   | 397.86   | 371.29   | 407.74   | 378.27   | 417.46   | 383.95   |
| G36     | 403.65   | 332.4    | 362.57   | 347.51   | 375.33   | 351.3    | 385.65   | 357.18   | 395.67   | 365.71   |

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/10/9 14:50:24

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

Test Distance: 7.061 m

Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

| Gamma\C | C0     | C5     | C10    | C15    | C20    | C25    | C30    | C35    | C40    | C45    |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| G37     | 383.11 | 320.83 | 344.17 | 328.21 | 359.72 | 336.89 | 371.19 | 341.13 | 372.14 | 343.87 |
| G38     | 360.32 | 305.83 | 330.11 | 313.85 | 341.58 | 317.39 | 346.61 | 326.12 | 352.24 | 328.51 |
| G39     | 344.37 | 299.35 | 318.24 | 309.77 | 326.62 | 310.86 | 331.06 | 314.3  | 335.84 | 314.15 |
| G40     | 328.51 | 289.97 | 306.23 | 294.76 | 315.05 | 299.5  | 317.79 | 300.19 | 321.68 | 304.33 |
| G41     | 316.35 | 283.09 | 297.7  | 286.73 | 302.89 | 284.74 | 305.78 | 290.67 | 310.46 | 295.11 |
| G42     | 304.88 | 274.17 | 283.64 | 278.31 | 292.47 | 281.85 | 296.6  | 283.39 | 305.13 | 284.89 |
| G43     | 295.31 | 265.64 | 282.24 | 272.92 | 285.39 | 272.67 | 288.73 | 277.01 | 291.07 | 278.16 |
| G44     | 286.58 | 257.81 | 275.21 | 258.81 | 276.41 | 264.45 | 282.69 | 269.08 | 284.74 | 271.87 |
| G45     | 279.75 | 251.43 | 265.39 | 253.28 | 273.52 | 259.06 | 276.76 | 261.9  | 276.16 | 259.26 |
| G46     | 273.82 | 248.69 | 259.51 | 252.13 | 259.66 | 257.02 | 268.04 | 254.62 | 267.04 | 257.47 |
| G47     | 266.04 | 241.01 | 252.88 | 245.15 | 254.77 | 247.54 | 261.7  | 248.14 | 258.26 | 245.6  |
| G48     | 259.76 | 235.98 | 247.24 | 240.16 | 250.73 | 241.06 | 254.22 | 248.24 | 257.32 | 242.41 |
| G49     | 252.78 | 232.19 | 241.76 | 236.23 | 242.51 | 234.78 | 250.54 | 238.42 | 250.39 | 240.91 |
| G50     | 242.16 | 227.65 | 237.17 | 229.35 | 239.32 | 233.88 | 243.8  | 236.23 | 244.0  | 238.52 |
| G51     | 242.16 | 223.86 | 230.99 | 226.15 | 233.04 | 232.59 | 238.07 | 231.34 | 241.11 | 232.69 |
| G52     | 234.38 | 221.02 | 228.9  | 221.22 | 231.49 | 226.2  | 233.78 | 228.05 | 235.93 | 232.74 |
| G53     | 230.99 | 215.19 | 223.86 | 215.14 | 225.96 | 224.01 | 230.99 | 225.46 | 231.59 | 225.71 |
| G54     | 225.66 | 207.91 | 215.73 | 210.35 | 221.97 | 216.73 | 223.86 | 219.22 | 225.26 | 219.37 |
| G55     | 222.56 | 198.73 | 212.19 | 202.72 | 208.65 | 208.16 | 215.63 | 213.29 | 218.93 | 214.09 |
| G56     | 215.09 | 196.84 | 206.61 | 197.04 | 208.65 | 203.12 | 211.0  | 207.86 | 211.55 | 207.41 |
| G57     | 212.89 | 192.9  | 201.87 | 195.09 | 203.07 | 199.88 | 205.36 | 202.77 | 204.37 | 203.37 |
| G58     | 202.77 | 188.66 | 190.86 | 193.7  | 199.33 | 194.0  | 202.17 | 197.44 | 198.93 | 197.69 |
| G59     | 199.78 | 185.52 | 192.65 | 187.32 | 194.35 | 188.66 | 198.03 | 192.0  | 193.95 | 194.84 |
| G60     | 195.09 | 180.88 | 190.71 | 180.78 | 188.66 | 185.52 | 193.15 | 188.56 | 190.41 | 185.07 |
| G61     | 191.25 | 177.49 | 186.47 | 179.39 | 185.17 | 182.38 | 189.31 | 188.56 | 188.81 | 186.72 |
| G62     | 186.72 | 179.89 | 181.93 | 180.09 | 181.33 | 180.04 | 185.52 | 180.73 | 183.58 | 183.38 |
| G63     | 183.63 | 175.95 | 178.14 | 173.9  | 178.14 | 175.5  | 181.18 | 176.3  | 181.93 | 178.54 |
| G64     | 180.04 | 169.87 | 174.9  | 171.11 | 180.39 | 174.5  | 177.69 | 173.36 | 175.4  | 176.1  |
| G65     | 178.04 | 168.07 | 171.26 | 168.47 | 173.75 | 170.16 | 179.89 | 172.01 | 174.65 | 173.11 |
| G66     | 174.2  | 165.33 | 169.27 | 166.87 | 171.16 | 162.64 | 171.56 | 171.66 | 173.41 | 170.31 |
| G67     | 171.41 | 162.19 | 166.72 | 163.08 | 166.33 | 167.52 | 168.32 | 167.32 | 165.18 | 165.43 |
| G68     | 167.87 | 160.34 | 164.63 | 161.09 | 165.13 | 164.83 | 166.92 | 165.83 | 168.27 | 164.03 |
| G69     | 164.23 | 159.49 | 165.33 | 161.59 | 161.84 | 157.35 | 164.28 | 164.78 | 164.38 | 168.07 |
| G70     | 161.64 | 156.55 | 160.89 | 154.16 | 162.09 | 159.35 | 162.94 | 165.23 | 162.44 | 159.35 |
| G71     | 158.45 | 154.91 | 156.85 | 158.05 | 158.75 | 157.9  | 157.45 | 161.34 | 160.79 | 158.2  |
| G72     | 159.59 | 155.56 | 156.85 | 155.76 | 155.41 | 158.25 | 152.76 | 159.1  | 159.74 | 156.75 |
| G73     | 154.61 | 149.57 | 154.66 | 148.73 | 156.3  | 158.4  | 156.5  | 156.7  | 163.03 | 154.16 |

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/10/9 14:50:24

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

Test Distance: 7.061 m

Remarks:

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 1  
Test Distance: 7.061 m  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 3)

| Gamma\C | C50      | C55      | C60      | C65      | C70      | C75      | C80      | C85      | C90      | C95      |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| G0      | 288423.3 | 329609.9 | 263319.8 | 326777.0 | 268610.6 | 317991.8 | 260947.0 | 303761.6 | 238327.6 | 284157.7 |
| G1      | 328469.3 | 285664.9 | 285939.7 | 286600.0 | 319654.7 | 280114.5 | 309112.3 | 265308.5 | 257229.5 | 241581.9 |
| G2      | 305981.9 | 180225.8 | 308559.5 | 173009.9 | 308326.4 | 164336.7 | 297296.3 | 153461.8 | 276131.4 | 138485.9 |
| G3      | 220419.3 | 78912.05 | 213566.3 | 74783.59 | 210962.9 | 70360.76 | 199731.0 | 65488.76 | 183981.9 | 59391.31 |
| G4      | 105697.9 | 34769.57 | 101640.6 | 32800.5  | 96503.6  | 30946.54 | 89683.82 | 29138.45 | 83043.77 | 27286.78 |
| G5      | 46066.04 | 19687.82 | 43061.76 | 19204.45 | 40710.38 | 18699.49 | 37916.05 | 18192.04 | 35382.58 | 17511.33 |
| G6      | 23412.49 | 14192.1  | 22556.98 | 14189.86 | 21689.5  | 14091.59 | 20877.52 | 13904.52 | 20055.22 | 13548.44 |
| G7      | 15545.39 | 11268.14 | 15462.32 | 11329.17 | 15349.95 | 11322.64 | 15139.05 | 11216.94 | 14803.35 | 10986.75 |
| G8      | 12072.15 | 9181.9   | 12132.63 | 9251.35  | 12160.65 | 9261.27  | 12073.55 | 9195.91  | 11881.79 | 9020.26  |
| G9      | 9773.51  | 7570.05  | 9844.06  | 7628.78  | 9895.61  | 7639.95  | 9854.33  | 7595.38  | 9705.7   | 7463.9   |
| G10     | 8019.91  | 6297.63  | 8090.06  | 6341.15  | 8136.03  | 6363.19  | 8110.85  | 6325.15  | 8006.4   | 6218.85  |
| G11     | 6661.34  | 5263.68  | 6716.23  | 5296.98  | 6757.42  | 5313.09  | 6739.42  | 5287.96  | 6663.53  | 5212.38  |
| G12     | 5560.28  | 4414.75  | 5600.67  | 4441.92  | 5627.19  | 4455.59  | 5621.31  | 4440.23  | 5564.92  | 4381.95  |
| G13     | 4665.19  | 3754.04  | 4693.06  | 3772.48  | 4716.19  | 3780.46  | 4712.25  | 3773.53  | 4677.1   | 3730.6   |
| G14     | 3953.57  | 3195.98  | 3971.77  | 3211.04  | 3990.21  | 3222.11  | 3992.26  | 3213.33  | 3965.04  | 3170.9   |
| G15     | 3359.71  | 2741.78  | 3375.47  | 2755.99  | 3391.47  | 2765.81  | 3391.97  | 2758.23  | 3369.83  | 2723.08  |
| G16     | 2882.72  | 2358.92  | 2899.13  | 2378.56  | 2905.06  | 2384.3   | 2907.4   | 2376.37  | 2886.31  | 2355.13  |
| G17     | 2482.37  | 2042.07  | 2494.63  | 2059.17  | 2498.52  | 2069.59  | 2500.86  | 2062.71  | 2485.91  | 2044.17  |
| G18     | 2144.58  | 1753.65  | 2155.75  | 1768.1   | 2165.62  | 1772.59  | 2169.36  | 1772.39  | 2158.74  | 1761.72  |
| G19     | 1842.49  | 1527.44  | 1849.72  | 1537.46  | 1859.34  | 1549.28  | 1862.83  | 1550.73  | 1856.9   | 1544.64  |
| G20     | 1606.17  | 1330.4   | 1610.65  | 1344.61  | 1619.03  | 1358.42  | 1628.9   | 1354.14  | 1622.87  | 1342.57  |
| G21     | 1398.66  | 1148.32  | 1410.53  | 1154.85  | 1420.35  | 1161.83  | 1429.52  | 1167.77  | 1422.84  | 1157.35  |
| G22     | 1209.15  | 1012.81  | 1219.62  | 1022.13  | 1226.9   | 1024.48  | 1229.24  | 1024.33  | 1226.5   | 1019.84  |
| G23     | 1060.97  | 903.47   | 1068.35  | 910.3    | 1071.89  | 914.94   | 1074.43  | 914.54   | 1074.48  | 908.11   |
| G24     | 944.85   | 807.45   | 945.6    | 810.89   | 953.53   | 816.27   | 956.42   | 819.01   | 955.82   | 812.23   |
| G25     | 847.68   | 727.67   | 850.62   | 730.12   | 854.61   | 735.4    | 856.31   | 733.01   | 857.2    | 730.37   |
| G26     | 757.79   | 662.06   | 763.47   | 667.35   | 766.26   | 670.99   | 769.4    | 665.65   | 766.71   | 665.6    |
| G27     | 688.88   | 611.46   | 693.72   | 617.39   | 697.51   | 621.18   | 698.41   | 615.39   | 696.61   | 615.19   |
| G28     | 631.6    | 567.43   | 638.98   | 574.41   | 641.42   | 574.01   | 642.42   | 570.17   | 638.58   | 571.02   |
| G29     | 587.22   | 532.73   | 596.75   | 532.93   | 587.97   | 537.52   | 594.9    | 533.63   | 591.36   | 533.08   |
| G30     | 548.43   | 501.77   | 551.73   | 501.22   | 549.33   | 507.45   | 555.61   | 503.31   | 551.97   | 500.57   |
| G31     | 518.27   | 474.3    | 520.56   | 481.08   | 516.97   | 480.38   | 520.81   | 476.09   | 517.67   | 474.35   |
| G32     | 487.91   | 443.83   | 490.5    | 449.67   | 490.9    | 453.76   | 491.35   | 444.28   | 489.2    | 445.98   |
| G33     | 463.63   | 424.89   | 467.77   | 428.08   | 469.11   | 432.57   | 464.92   | 427.98   | 465.57   | 426.08   |
| G34     | 441.79   | 406.04   | 441.79   | 408.58   | 445.13   | 410.68   | 442.19   | 405.04   | 437.8    | 404.45   |
| G35     | 417.41   | 383.8    | 421.95   | 389.39   | 423.94   | 391.53   | 420.85   | 385.45   | 421.85   | 381.11   |
| G36     | 399.06   | 362.76   | 400.21   | 367.35   | 402.1    | 366.06   | 399.01   | 367.4    | 398.41   | 360.07   |

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/10/9 14:50:24

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

Test Distance: 7.061 m

Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 4)

| Gamma\C | C100     | C105     | C110     | C115     | C120     | C125     | C130     | C135     | C140     | C145     |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| G0      | 229793.6 | 261755.8 | 223826.1 | 236646.2 | 204698.1 | 208952.7 | 200918.5 | 179823.7 | 188751.9 | 152148.3 |
| G1      | 274305.3 | 214170.8 | 253470.5 | 184020.8 | 229897.5 | 152083.6 | 204248.7 | 122174.8 | 179639.7 | 96632.98 |
| G2      | 251061.3 | 121649.6 | 223568.4 | 102358.9 | 190170.8 | 82682.34 | 159045.4 | 64208.07 | 128071.1 | 49054.71 |
| G3      | 162745.3 | 52876.7  | 140250.0 | 45513.96 | 113975.5 | 37919.54 | 91448.03 | 30903.66 | 70022.57 | 25016.61 |
| G4      | 74501.29 | 25341.33 | 65224.57 | 23100.88 | 53746.17 | 20585.15 | 43435.8  | 18144.87 | 34186.34 | 16104.89 |
| G5      | 32608.14 | 16685.93 | 29760.62 | 15711.31 | 25930.3  | 14596.84 | 22518.34 | 13475.0  | 19346.69 | 12448.97 |
| G6      | 19100.44 | 13094.48 | 18032.59 | 12457.65 | 16615.83 | 11737.01 | 15254.02 | 10956.28 | 13937.63 | 10190.02 |
| G7      | 14319.44 | 10646.42 | 13709.48 | 10192.01 | 12944.21 | 9651.81  | 12099.57 | 9048.78  | 11232.5  | 8434.13  |
| G8      | 11564.65 | 8755.66  | 11147.39 | 8408.85  | 10561.86 | 7984.12  | 9953.15  | 7507.33  | 9275.63  | 7038.17  |
| G9      | 9469.13  | 7263.52  | 9148.14  | 7010.84  | 8706.8   | 6679.09  | 8218.65  | 6305.01  | 7691.6   | 5917.56  |
| G10     | 7827.81  | 6064.59  | 7580.17  | 5856.09  | 7239.44  | 5594.39  | 6877.22  | 5296.19  | 6453.73  | 4981.63  |
| G11     | 6526.72  | 5094.06  | 6335.97  | 4926.74  | 6063.3   | 4718.68  | 5762.11  | 4480.07  | 5423.17  | 4232.02  |
| G12     | 5457.48  | 4290.51  | 5310.5   | 4161.33  | 5103.19  | 4001.68  | 4854.7   | 3811.37  | 4585.56  | 3614.24  |
| G13     | 4590.85  | 3660.65  | 4477.17  | 3552.71  | 4310.55  | 3421.79  | 4119.2   | 3265.58  | 3911.74  | 3106.58  |
| G14     | 3902.66  | 3123.19  | 3811.12  | 3036.83  | 3680.15  | 2933.18  | 3519.46  | 2810.43  | 3347.5   | 2681.1   |
| G15     | 3319.28  | 2683.14  | 3240.35  | 2615.84  | 3144.03  | 2532.27  | 3014.6   | 2434.1   | 2877.89  | 2329.45  |
| G16     | 2845.78  | 2321.87  | 2791.14  | 2268.68  | 2706.68  | 2195.98  | 2605.02  | 2115.41  | 2498.12  | 2031.55  |
| G17     | 2456.04  | 2018.24  | 2405.88  | 1960.56  | 2343.51  | 1904.42  | 2257.26  | 1841.79  | 2169.36  | 1770.05  |
| G18     | 2133.41  | 1742.33  | 2094.47  | 1711.57  | 2040.53  | 1672.73  | 1956.12  | 1617.14  | 1889.46  | 1551.12  |
| G19     | 1836.86  | 1529.73  | 1809.14  | 1502.11  | 1770.65  | 1460.58  | 1718.45  | 1409.98  | 1657.02  | 1343.97  |
| G20     | 1612.05  | 1328.61  | 1590.36  | 1291.07  | 1555.61  | 1256.32  | 1502.96  | 1213.74  | 1447.82  | 1160.14  |
| G21     | 1413.22  | 1148.17  | 1387.34  | 1128.73  | 1349.65  | 1101.11  | 1298.4   | 1066.51  | 1246.74  | 1030.66  |
| G22     | 1220.77  | 1009.32  | 1195.24  | 998.35   | 1169.51  | 973.42   | 1129.68  | 947.55   | 1094.63  | 916.88   |
| G23     | 1070.55  | 905.86   | 1052.65  | 891.71   | 1033.75  | 871.36   | 1003.24  | 846.73   | 970.53   | 818.12   |
| G24     | 947.85   | 808.54   | 935.43   | 797.57   | 922.92   | 780.62   | 898.09   | 762.03   | 869.97   | 739.24   |
| G25     | 850.82   | 729.22   | 839.7    | 717.9    | 826.49   | 707.08   | 801.61   | 693.42   | 781.97   | 674.58   |
| G26     | 763.72   | 666.75   | 755.29   | 656.88   | 744.87   | 648.2    | 728.97   | 637.38   | 708.78   | 622.42   |
| G27     | 692.72   | 619.13   | 687.39   | 608.51   | 680.81   | 601.53   | 663.41   | 590.47   | 651.84   | 574.31   |
| G28     | 637.43   | 572.57   | 632.94   | 571.32   | 628.16   | 559.5    | 617.99   | 551.08   | 605.32   | 541.41   |
| G29     | 587.22   | 537.52   | 590.42   | 529.94   | 583.98   | 526.45   | 569.28   | 516.87   | 564.74   | 508.9    |
| G30     | 554.52   | 506.6    | 552.02   | 498.78   | 546.89   | 494.39   | 540.76   | 486.81   | 528.59   | 484.17   |
| G31     | 522.96   | 477.69   | 521.41   | 471.31   | 515.63   | 470.71   | 508.95   | 463.83   | 496.38   | 454.65   |
| G32     | 492.39   | 455.95   | 491.85   | 449.12   | 485.71   | 445.33   | 479.68   | 439.5    | 470.36   | 432.62   |
| G33     | 468.86   | 430.12   | 462.58   | 427.38   | 461.08   | 423.49   | 456.5    | 420.25   | 455.0    | 418.31   |
| G34     | 444.18   | 411.18   | 441.89   | 405.44   | 438.7    | 401.95   | 434.21   | 395.92   | 426.78   | 389.59   |
| G35     | 423.54   | 388.09   | 420.05   | 383.31   | 417.96   | 378.82   | 411.13   | 374.93   | 404.3    | 368.75   |
| G36     | 398.11   | 365.01   | 399.71   | 356.63   | 392.48   | 359.57   | 387.64   | 355.29   | 380.96   | 345.86   |

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/10/9 14:50:24

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

Test Distance: 7.061 m

Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 5)

| Gamma\C | C150     | C155     | C160     | C165     | C170     | C175     | C180     | C185     | C190     | C195     |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| G0      | 178949.1 | 128148.8 | 171266.5 | 107208.1 | 163276.5 | 90095.24 | 153446.0 | 256117.6 | 267856.3 | 282059.1 |
| G1      | 152580.7 | 75579.21 | 134335.4 | 58629.99 | 116495.4 | 46153.24 | 98942.09 | 260081.8 | 213163.4 | 271264.4 |
| G2      | 104166.9 | 37848.44 | 81490.35 | 29907.6  | 65018.65 | 24500.43 | 51785.17 | 199424.6 | 141622.5 | 195203.6 |
| G3      | 53820.36 | 20838.58 | 41180.18 | 18024.46 | 32506.19 | 16068.45 | 26447.78 | 119562.0 | 77831.24 | 109171.4 |
| G4      | 27029.71 | 14507.9  | 22267.36 | 13236.58 | 19164.06 | 12278.56 | 16920.36 | 57927.54 | 38415.42 | 50579.86 |
| G5      | 16966.13 | 11533.99 | 15084.85 | 10738.21 | 13730.27 | 10049.12 | 12731.92 | 27441.24 | 21182.95 | 24568.99 |
| G6      | 12850.98 | 9489.67  | 11865.94 | 8868.34  | 11056.95 | 8305.15  | 10348.27 | 16565.38 | 14445.93 | 15551.72 |
| G7      | 10438.51 | 7867.2   | 9725.8   | 7358.65  | 9097.24  | 6933.17  | 8535.09  | 12201.03 | 11221.48 | 11689.09 |
| G8      | 8645.18  | 6588.5   | 8063.99  | 6179.67  | 7550.3   | 5810.72  | 7112.0   | 9865.25  | 9193.07  | 9481.74  |
| G9      | 7192.28  | 5548.07  | 6736.88  | 5216.56  | 6327.14  | 4912.23  | 5965.68  | 8095.05  | 7578.72  | 7791.96  |
| G10     | 6053.87  | 4692.11  | 5670.27  | 4419.44  | 5339.36  | 4174.69  | 5035.33  | 6726.45  | 6324.1   | 6475.42  |
| G11     | 5108.62  | 4001.38  | 4799.21  | 3782.46  | 4521.3   | 3581.73  | 4274.6   | 5632.48  | 5302.47  | 5429.11  |
| G12     | 4336.18  | 3420.84  | 4087.88  | 3241.5   | 3872.5   | 3079.96  | 3668.28  | 4736.23  | 4464.86  | 4569.71  |
| G13     | 3710.86  | 2951.63  | 3502.8   | 2802.45  | 3323.17  | 2668.64  | 3155.89  | 4032.04  | 3794.87  | 3896.93  |
| G14     | 3186.21  | 2553.11  | 3019.03  | 2430.61  | 2868.81  | 2314.45  | 2732.2   | 3442.08  | 3237.56  | 3322.47  |
| G15     | 2747.46  | 2220.66  | 2613.29  | 2123.34  | 2484.31  | 2024.72  | 2372.23  | 2961.4   | 2788.74  | 2860.49  |
| G16     | 2384.25  | 1929.05  | 2273.01  | 1843.89  | 2172.6   | 1762.42  | 2075.08  | 2555.36  | 2413.11  | 2470.95  |
| G17     | 2081.91  | 1697.01  | 1975.86  | 1620.58  | 1883.72  | 1544.59  | 1806.1   | 2226.1   | 2106.34  | 2160.14  |
| G18     | 1814.87  | 1480.82  | 1739.29  | 1409.78  | 1656.02  | 1338.78  | 1585.53  | 1923.01  | 1827.78  | 1863.98  |
| G19     | 1596.2   | 1282.14  | 1519.56  | 1217.58  | 1441.84  | 1154.9   | 1375.08  | 1689.33  | 1611.4   | 1640.72  |
| G20     | 1385.45  | 1114.47  | 1308.72  | 1064.91  | 1246.74  | 1019.79  | 1187.46  | 1478.88  | 1395.52  | 1433.01  |
| G21     | 1199.53  | 987.83   | 1141.34  | 946.85   | 1096.67  | 909.55   | 1046.36  | 1289.87  | 1209.45  | 1246.14  |
| G22     | 1057.53  | 879.99   | 1008.12  | 846.19   | 967.49   | 810.64   | 931.09   | 1112.68  | 1058.08  | 1084.26  |
| G23     | 940.27   | 788.0    | 903.72   | 759.88   | 866.23   | 729.62   | 831.68   | 984.74   | 939.52   | 961.95   |
| G24     | 843.94   | 715.21   | 810.94   | 691.08   | 776.73   | 663.21   | 747.72   | 878.89   | 834.97   | 857.75   |
| G25     | 758.83   | 654.53   | 735.8    | 629.25   | 704.44   | 609.91   | 679.01   | 785.26   | 745.77   | 763.27   |
| G26     | 689.58   | 601.83   | 666.05   | 586.13   | 647.3    | 563.39   | 627.11   | 708.83   | 674.18   | 690.13   |
| G27     | 642.47   | 562.59   | 616.44   | 548.73   | 598.19   | 525.9    | 579.99   | 643.51   | 618.44   | 633.74   |
| G28     | 591.31   | 527.84   | 572.37   | 511.74   | 556.71   | 494.24   | 541.01   | 592.86   | 569.92   | 584.78   |
| G29     | 553.82   | 496.63   | 536.07   | 487.11   | 522.66   | 467.22   | 506.55   | 550.93   | 531.23   | 545.89   |
| G30     | 520.61   | 468.86   | 509.75   | 459.94   | 492.0    | 440.29   | 478.73   | 516.03   | 497.13   | 512.29   |
| G31     | 492.74   | 447.17   | 479.58   | 435.91   | 464.87   | 420.1    | 452.81   | 486.11   | 468.86   | 482.67   |
| G32     | 467.82   | 420.95   | 452.56   | 417.06   | 440.54   | 397.67   | 427.48   | 458.39   | 444.73   | 457.64   |
| G33     | 446.38   | 403.05   | 433.66   | 392.78   | 417.36   | 380.81   | 406.24   | 435.11   | 419.7    | 438.15   |
| G34     | 423.59   | 378.32   | 410.98   | 372.54   | 396.72   | 357.68   | 392.18   | 411.33   | 397.12   | 414.07   |
| G35     | 400.01   | 360.37   | 388.69   | 352.39   | 376.92   | 347.16   | 367.4    | 392.08   | 379.02   | 394.27   |
| G36     | 377.77   | 341.33   | 366.16   | 337.99   | 357.03   | 324.97   | 349.55   | 372.24   | 360.12   | 374.18   |

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/10/9 14:50:24

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

Test Distance: 7.061 m

Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 6)

| Gamma\C | C200     | C205     | C210     | C215     | C220     | C225     | C230     | C235     | C240     | C245     |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| G0      | 256929.7 | 302158.3 | 274026.7 | 316963.3 | 258241.3 | 326332.2 | 288423.3 | 329609.9 | 263319.8 | 326777.0 |
| G1      | 178942.5 | 280348.3 | 190284.5 | 286692.9 | 162067.3 | 289641.0 | 196852.1 | 289821.0 | 162569.2 | 286024.8 |
| G2      | 103166.9 | 191093.9 | 109589.0 | 187436.8 | 84335.28 | 183703.0 | 107154.2 | 179792.5 | 80981.4  | 175170.1 |
| G3      | 52153.27 | 100595.0 | 54226.05 | 93334.8  | 40483.92 | 87512.86 | 50249.65 | 82494.48 | 38185.13 | 78026.23 |
| G4      | 27200.63 | 44627.74 | 27679.46 | 40238.12 | 22702.61 | 37014.07 | 25540.56 | 34721.57 | 21745.89 | 32969.71 |
| G5      | 17313.34 | 22411.94 | 17396.65 | 20939.64 | 15665.25 | 19832.3  | 16542.79 | 19137.29 | 15210.04 | 18639.61 |
| G6      | 12874.51 | 14733.11 | 12825.3  | 14163.33 | 12061.38 | 13752.16 | 12394.28 | 13450.96 | 11786.36 | 13300.14 |
| G7      | 10406.15 | 11277.62 | 10294.92 | 10947.91 | 9845.1   | 10692.74 | 9953.05  | 10504.77 | 9546.66  | 10400.97 |
| G8      | 8630.82  | 9162.85  | 8479.65  | 8899.7   | 8147.35  | 8692.64  | 8160.51  | 8531.15  | 7890.18  | 8426.15  |
| G9      | 7186.39  | 7541.03  | 7032.28  | 7324.95  | 6809.32  | 7158.77  | 6774.02  | 7035.82  | 6586.5   | 6950.86  |
| G10     | 6047.09  | 6267.22  | 5876.08  | 6092.86  | 5712.9   | 5953.96  | 5641.15  | 5848.01  | 5516.51  | 5766.79  |
| G11     | 5106.08  | 5257.9   | 4940.6   | 5110.67  | 4815.31  | 4992.75  | 4737.73  | 4896.58  | 4657.76  | 4836.0   |
| G12     | 4315.19  | 4423.38  | 4171.6   | 4296.39  | 4078.46  | 4202.76  | 3996.05  | 4123.08  | 3949.28  | 4076.22  |
| G13     | 3691.32  | 3774.78  | 3563.13  | 3665.54  | 3471.89  | 3583.62  | 3392.42  | 3513.72  | 3361.11  | 3470.35  |
| G14     | 3154.0   | 3222.16  | 3048.5   | 3136.35  | 2974.91  | 3061.31  | 2895.69  | 3003.03  | 2872.1   | 2966.19  |
| G15     | 2714.3   | 2776.43  | 2634.23  | 2699.6   | 2568.52  | 2642.91  | 2504.65  | 2588.31  | 2475.79  | 2559.9   |
| G16     | 2348.8   | 2401.5   | 2287.02  | 2338.08  | 2227.99  | 2285.58  | 2176.84  | 2241.7   | 2149.52  | 2216.08  |
| G17     | 2046.76  | 2097.37  | 1973.27  | 2042.12  | 1928.5   | 2001.34  | 1885.97  | 1945.45  | 1862.19  | 1921.72  |
| G18     | 1779.52  | 1811.73  | 1728.42  | 1766.46  | 1685.69  | 1733.5   | 1657.22  | 1700.15  | 1636.53  | 1681.9   |
| G19     | 1565.48  | 1599.93  | 1519.51  | 1562.24  | 1490.75  | 1536.57  | 1457.74  | 1503.96  | 1441.24  | 1484.96  |
| G20     | 1361.61  | 1396.32  | 1326.86  | 1360.22  | 1289.32  | 1332.0   | 1260.15  | 1297.7   | 1245.2   | 1286.73  |
| G21     | 1173.05  | 1210.55  | 1146.53  | 1180.38  | 1121.25  | 1157.5   | 1098.12  | 1134.56  | 1087.2   | 1122.1   |
| G22     | 1031.76  | 1058.33  | 1011.66  | 1035.0   | 991.12   | 1021.44  | 973.17   | 1003.24  | 959.46   | 990.32   |
| G23     | 921.47   | 941.26   | 903.87   | 924.56   | 884.53   | 909.95   | 873.86   | 892.9    | 858.5    | 885.12   |
| G24     | 818.22   | 841.7    | 804.95   | 822.25   | 788.35   | 808.54   | 773.34   | 795.33   | 767.56   | 789.3    |
| G25     | 730.57   | 753.95   | 721.89   | 740.94   | 709.08   | 735.95   | 697.06   | 719.8    | 694.57   | 714.41   |
| G26     | 664.06   | 683.5    | 660.42   | 671.38   | 648.2    | 667.05   | 638.88   | 657.03   | 635.59   | 653.09   |
| G27     | 613.05   | 627.16   | 607.52   | 620.88   | 597.84   | 618.24   | 591.01   | 604.82   | 592.16   | 601.53   |
| G28     | 568.23   | 584.28   | 564.04   | 578.15   | 560.35   | 574.26   | 551.23   | 562.49   | 548.83   | 562.25   |
| G29     | 531.48   | 547.39   | 527.64   | 539.86   | 522.96   | 536.37   | 518.37   | 532.18   | 515.63   | 528.49   |
| G30     | 499.92   | 515.68   | 496.88   | 508.8    | 490.25   | 504.86   | 483.47   | 499.47   | 488.61   | 500.17   |
| G31     | 474.7    | 489.0    | 470.91   | 482.82   | 468.21   | 480.28   | 464.52   | 473.2    | 464.97   | 473.5    |
| G32     | 451.31   | 464.23   | 449.62   | 457.1    | 447.37   | 457.05   | 442.04   | 450.31   | 442.49   | 452.66   |
| G33     | 428.08   | 442.54   | 429.57   | 440.19   | 425.98   | 436.75   | 421.5    | 432.47   | 421.8    | 432.52   |
| G34     | 406.14   | 418.51   | 409.03   | 420.65   | 406.69   | 416.41   | 399.71   | 411.58   | 401.5    | 410.68   |
| G35     | 378.82   | 401.65   | 387.05   | 398.06   | 385.15   | 395.32   | 380.17   | 390.59   | 380.17   | 390.24   |
| G36     | 360.37   | 374.23   | 366.06   | 376.23   | 363.21   | 370.89   | 358.43   | 369.6    | 359.18   | 369.2    |

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/10/9 14:50:24

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

Test Distance: 7.061 m

Remarks:

