

Report No.: TH-1945A

Test Time: 2020/10/20 17:09

# Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 大投光灯

Current: 0.437 A

Power Factor: 0.872

Voltage: 230 V

Power: 87.68W

## Photometric Results

CIE Class: Direct

Measurement Flux: 9779.5 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H68

Vertical Diffuse Angle(50%): V67.7

Luminaire Efficacy Rating (LER): 111.59

Max. Intensity: 7319.94 cd

S/MH(C0/C180): 1.01

Total Rated Lamp Lumens: 9779.5 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 7250.88 cd

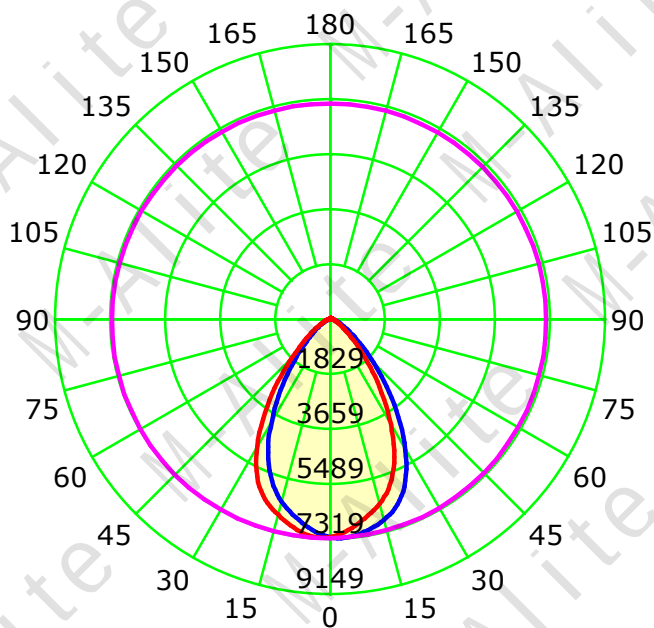
Pos of Max. Intensity: H315 V2

S/MH(C90/C270): 1.01

## Picture Of Luminaire



### Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 67.8°

— C0-C180

—C90-C270

— G2

C Plane (°):0.0-360.0: 45.0

Test Lab: Inventfine instrument

Test Type: TYPE C

Temperature: 26

Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0

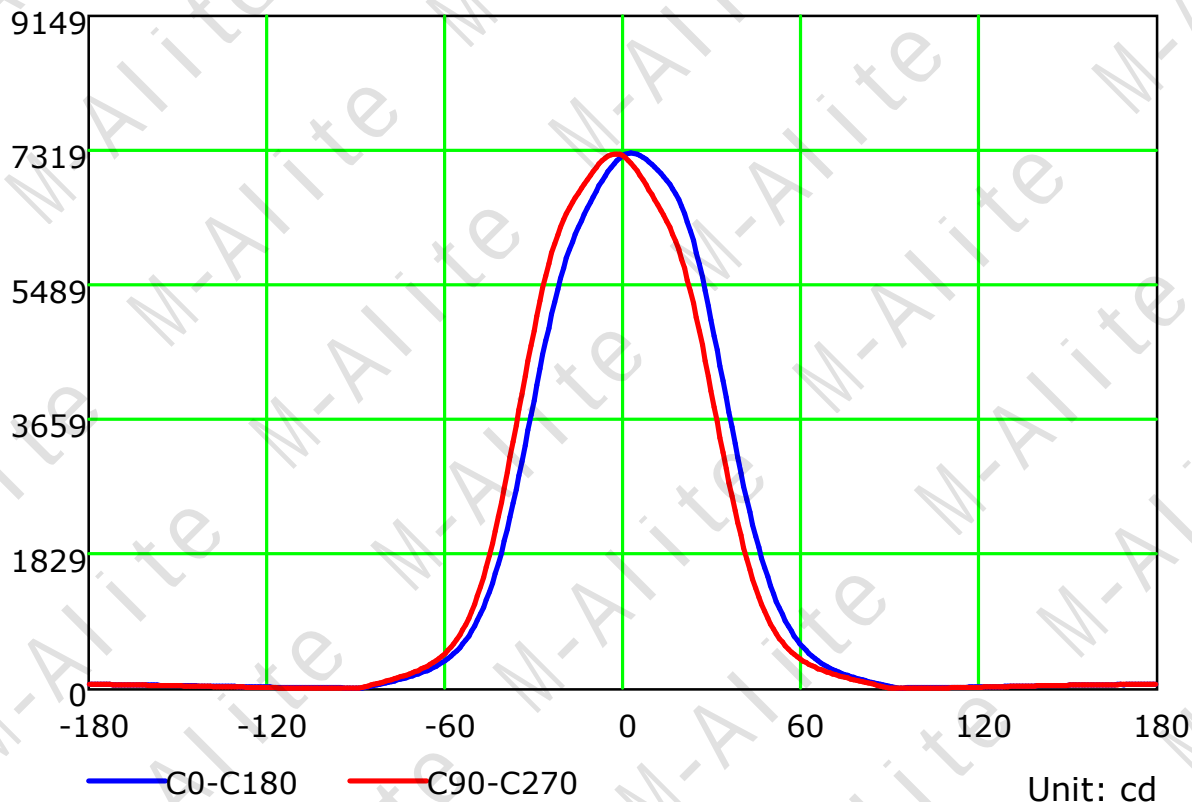
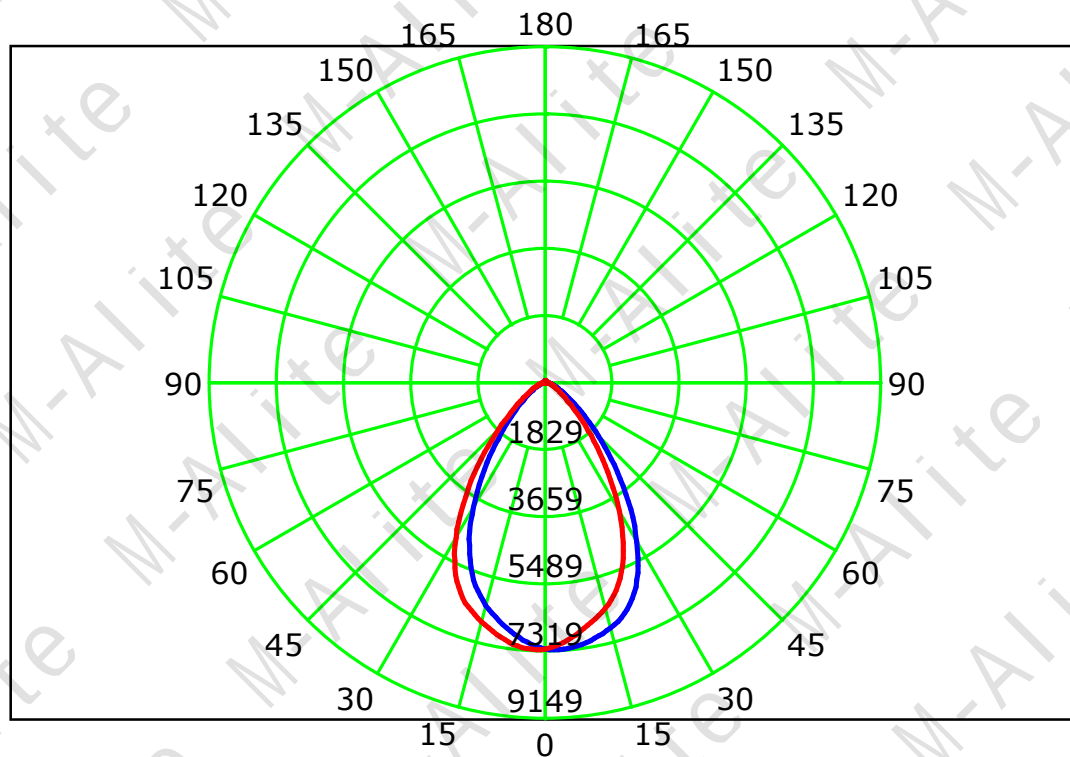
Test Device: GPM-1800B

Distance: 8.598 m

Humidity: 65

Inspector:

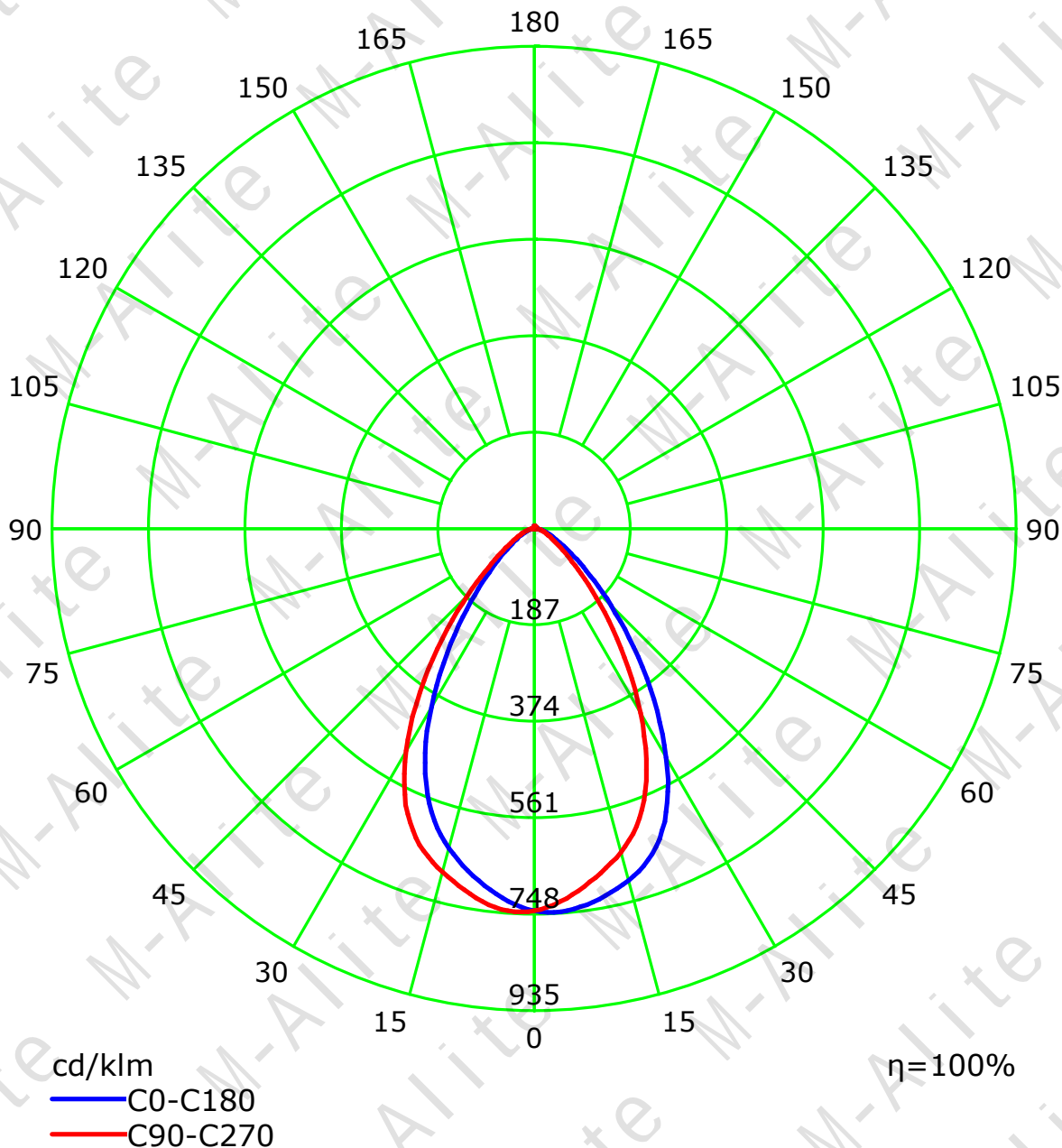
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector:

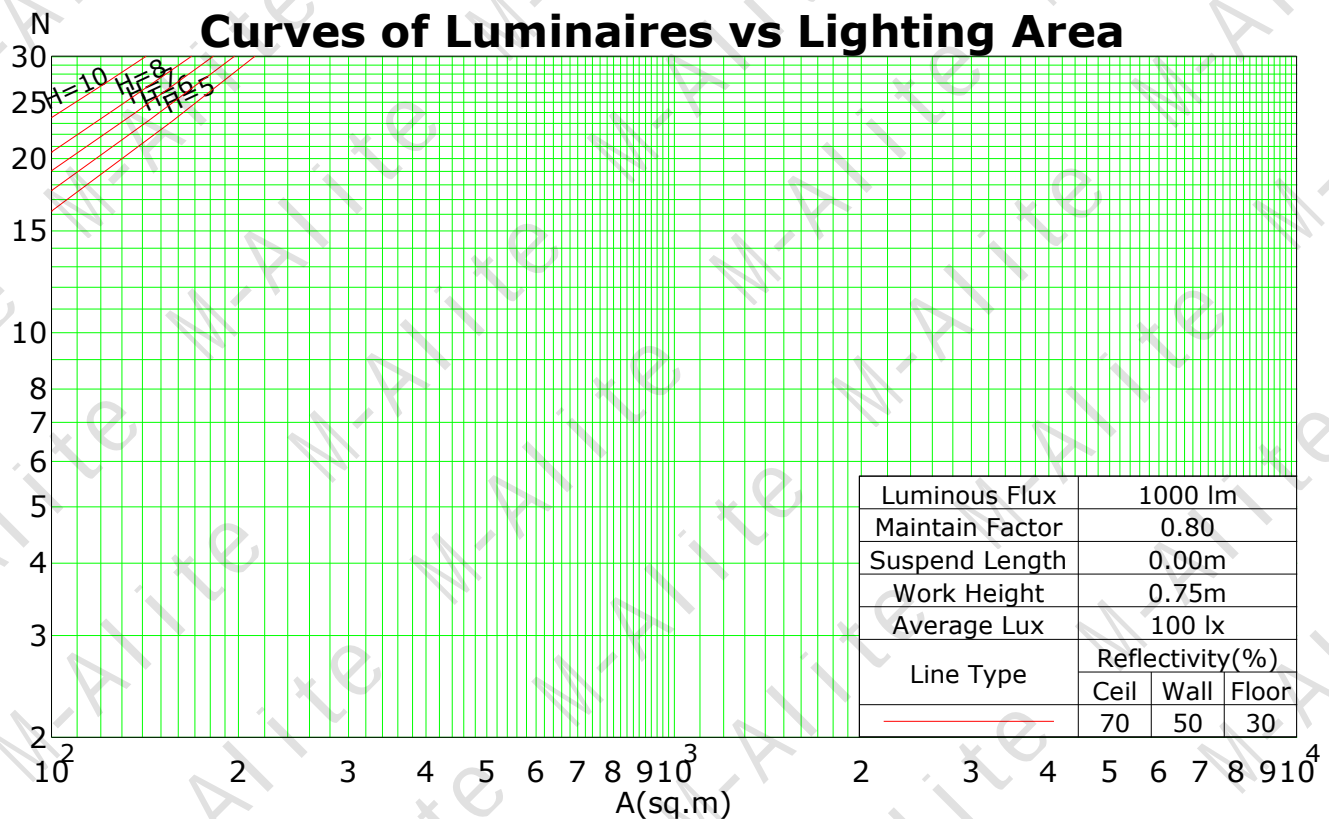
## Coefficients Of Utilization - Zonal Cavity Method

|     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| RC  | 0.8      | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.1 | 0.1 | 0.1 | 0  |
| RW  | 0.7      | 0.5 | 0.3 | 0.1 | 0.7 | 0.5 | 0.3 | 0.1 | 0.5 | 0.3 | 0.1 | 0.5 | 0.3 | 0.1 | 0.5 | 0.3 | 0.1 | 0  |
| RCR | RF = 0.2 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
| 0   | 119      | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 110 | 110 | 110 | 105 | 105 | 105 | 101 | 101 | 101 | 99 |
| 1   | 112      | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 101 | 99  | 97  | 97  | 96  | 94  | 94  | 92  | 91  | 89 |
| 2   | 104      | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  | 90  | 86  | 84  | 87  | 84  | 82  | 80 |
| 3   | 98       | 90  | 84  | 79  | 95  | 88  | 83  | 78  | 85  | 80  | 77  | 83  | 78  | 75  | 80  | 77  | 74  | 72 |
| 4   | 91       | 82  | 75  | 70  | 89  | 81  | 75  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 74  | 70  | 67  | 65 |
| 5   | 86       | 76  | 69  | 63  | 84  | 75  | 68  | 63  | 72  | 67  | 62  | 71  | 66  | 62  | 69  | 64  | 61  | 59 |
| 6   | 80       | 70  | 63  | 58  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 56  | 54 |
| 7   | 76       | 65  | 58  | 53  | 74  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 51  | 50 |
| 8   | 71       | 60  | 53  | 48  | 70  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 47  | 46 |
| 9   | 67       | 56  | 49  | 45  | 66  | 56  | 49  | 45  | 54  | 48  | 44  | 53  | 48  | 44  | 52  | 47  | 44  | 42 |
| 10  | 64       | 53  | 46  | 41  | 63  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 49  | 44  | 41  | 39 |

Spacing Criteria (0-180): 1.01

Spacing Criteria (90-270): 1.01

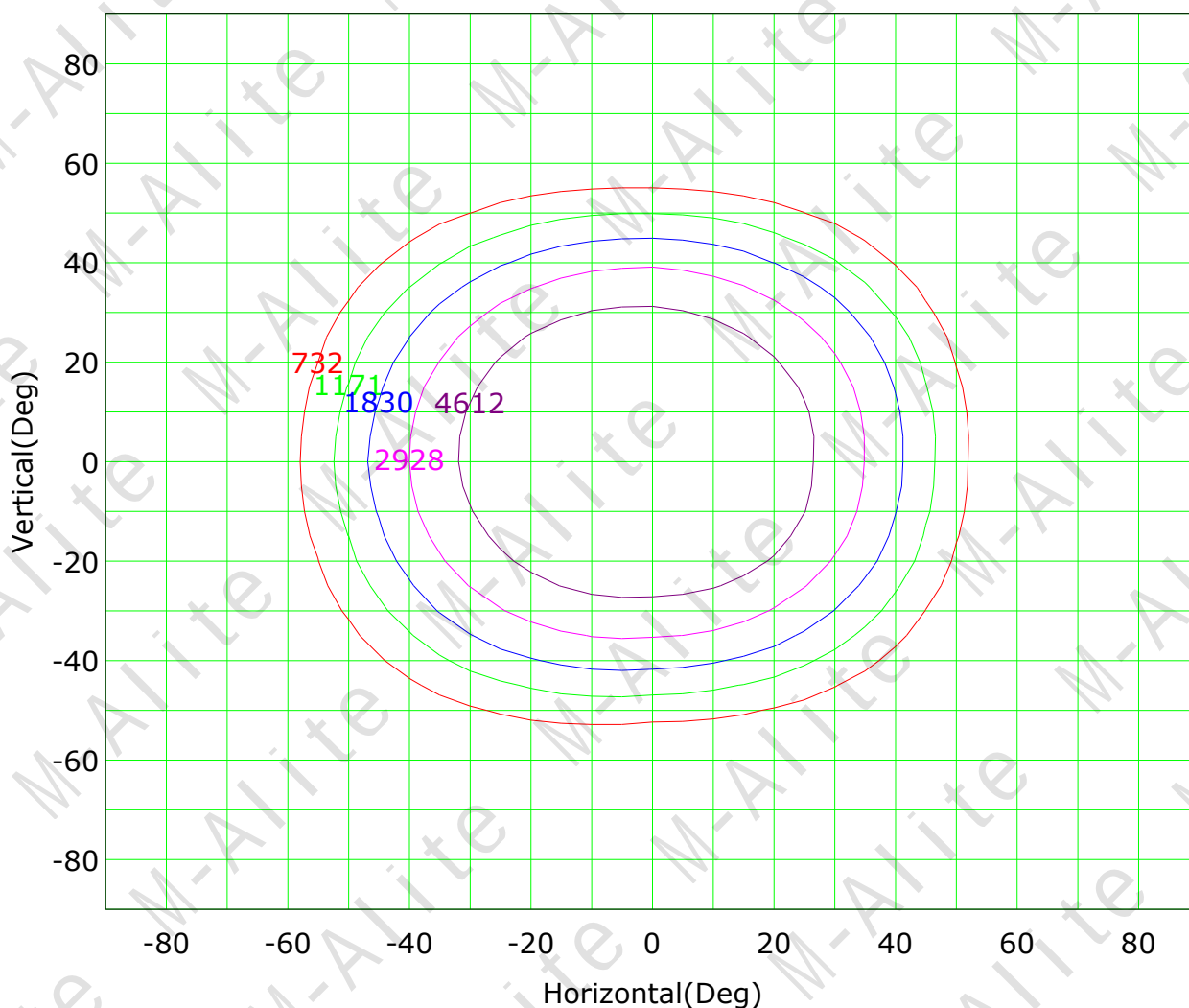
Spacing Criteria (Diagonal): 1.01



C Plane (°):0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector:

## Isocandela (rectangle)



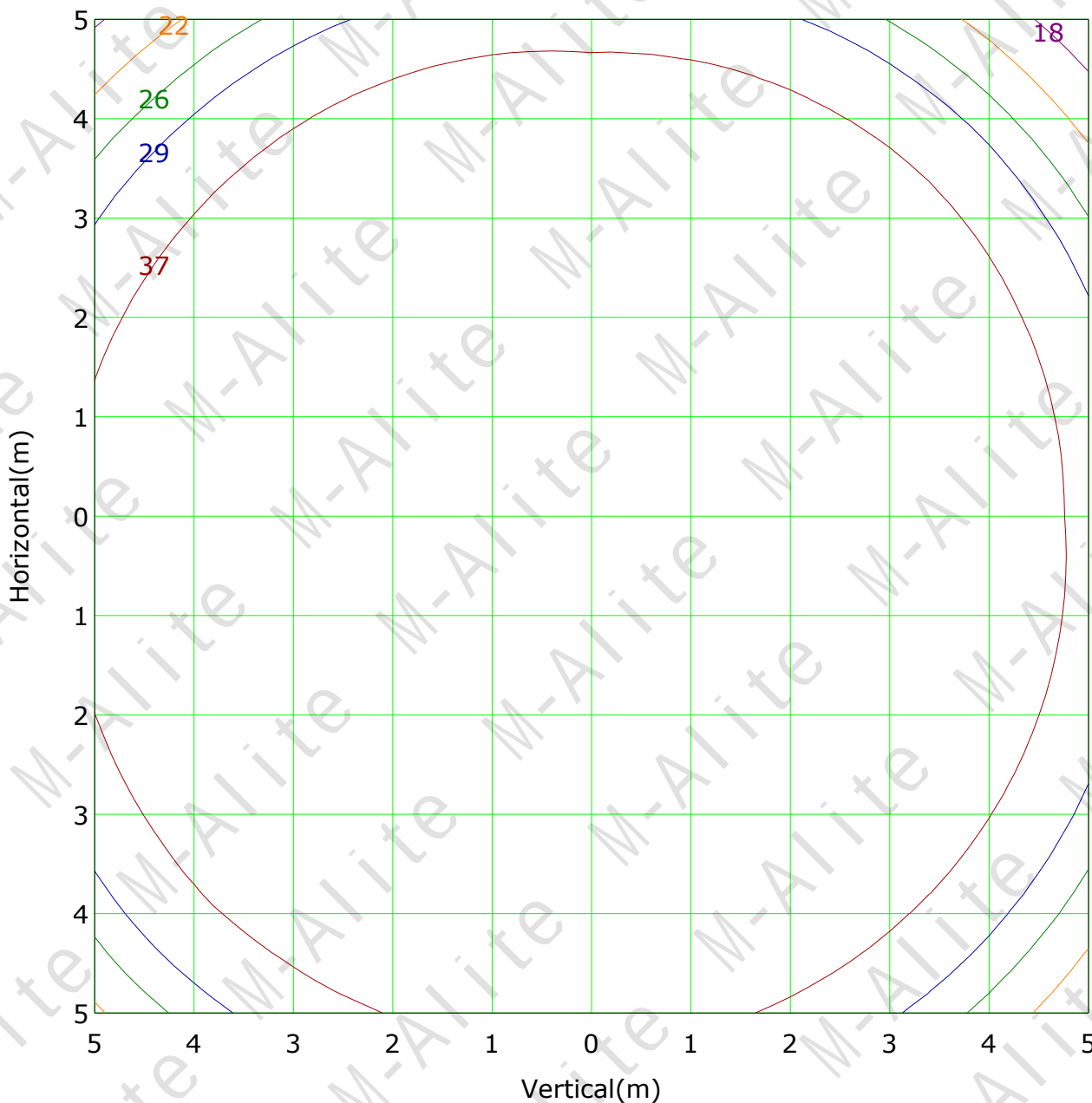
Imax (100%): 7320 cd

- |                 |                 |
|-----------------|-----------------|
| ( 10%): 732 cd  | ( 16%): 1171 cd |
| ( 25%): 1830 cd | ( 40%): 2928 cd |
| ( 63%): 4612 cd | (100%): 7320 cd |

C Plane (°):0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector:

## IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 73.1 lx

|                 |                 |
|-----------------|-----------------|
| ( 5%): 3.7 lx   | ( 10%): 7.3 lx  |
| ( 15%): 11.0 lx | ( 20%): 14.6 lx |
| ( 25%): 18.3 lx | ( 30%): 21.9 lx |
| ( 35%): 25.6 lx | ( 40%): 29.2 lx |
| ( 50%): 36.5 lx | (100%): 73.1 lx |

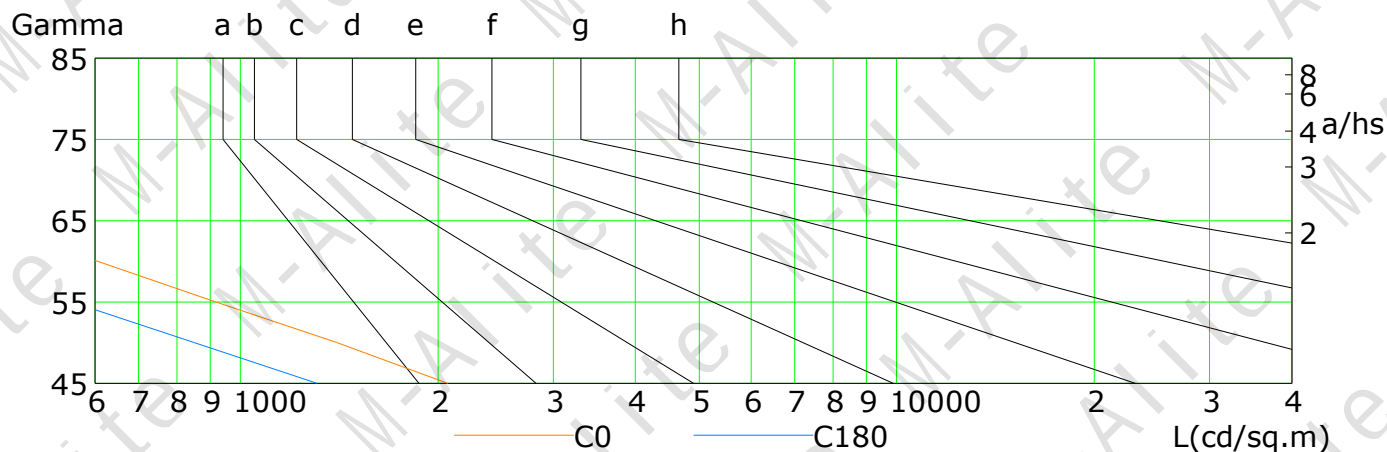
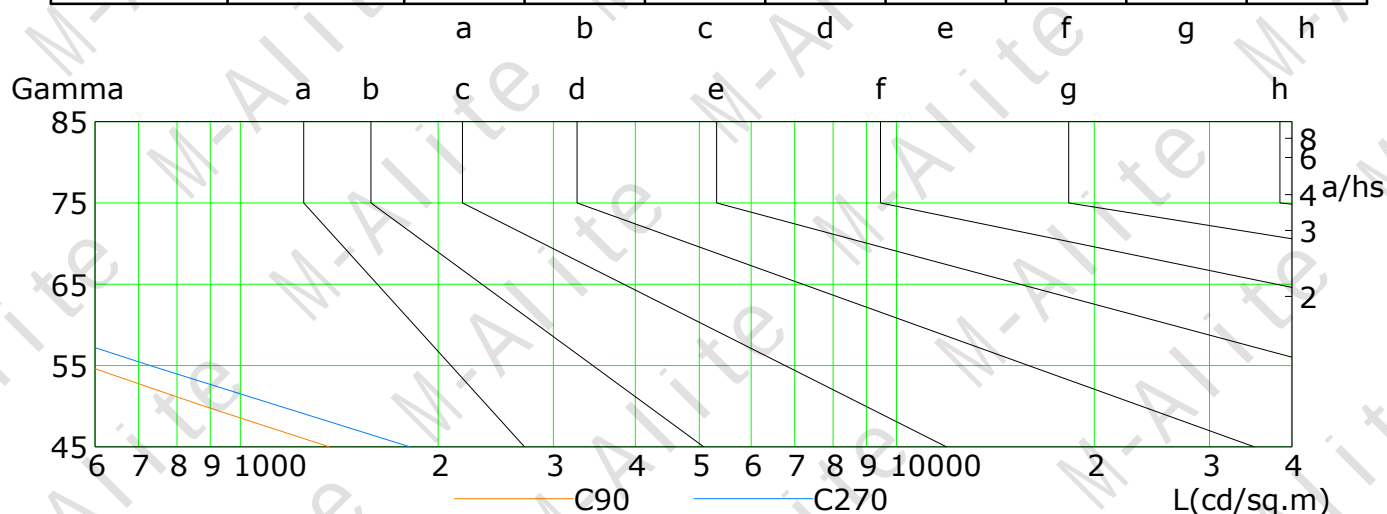
C Plane (°):0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector:



## Lum Limit Curve

| Dazzle | Quality | Illuminance (lx) |      |      |       |       |       |       |       |
|--------|---------|------------------|------|------|-------|-------|-------|-------|-------|
| 1.15   | A       | 2000             | 1000 | 500  | <=300 |       |       |       |       |
| 1.50   | B       |                  | 2000 | 1000 | 500   | <=300 |       |       |       |
| 1.85   | C       |                  |      | 2000 | 1000  | 500   | <=300 |       |       |
| 2.20   | D       |                  |      |      | 2000  | 1000  | 500   | <=300 |       |
| 2.55   | E       |                  |      |      |       | 2000  | 1000  | 500   | <=300 |

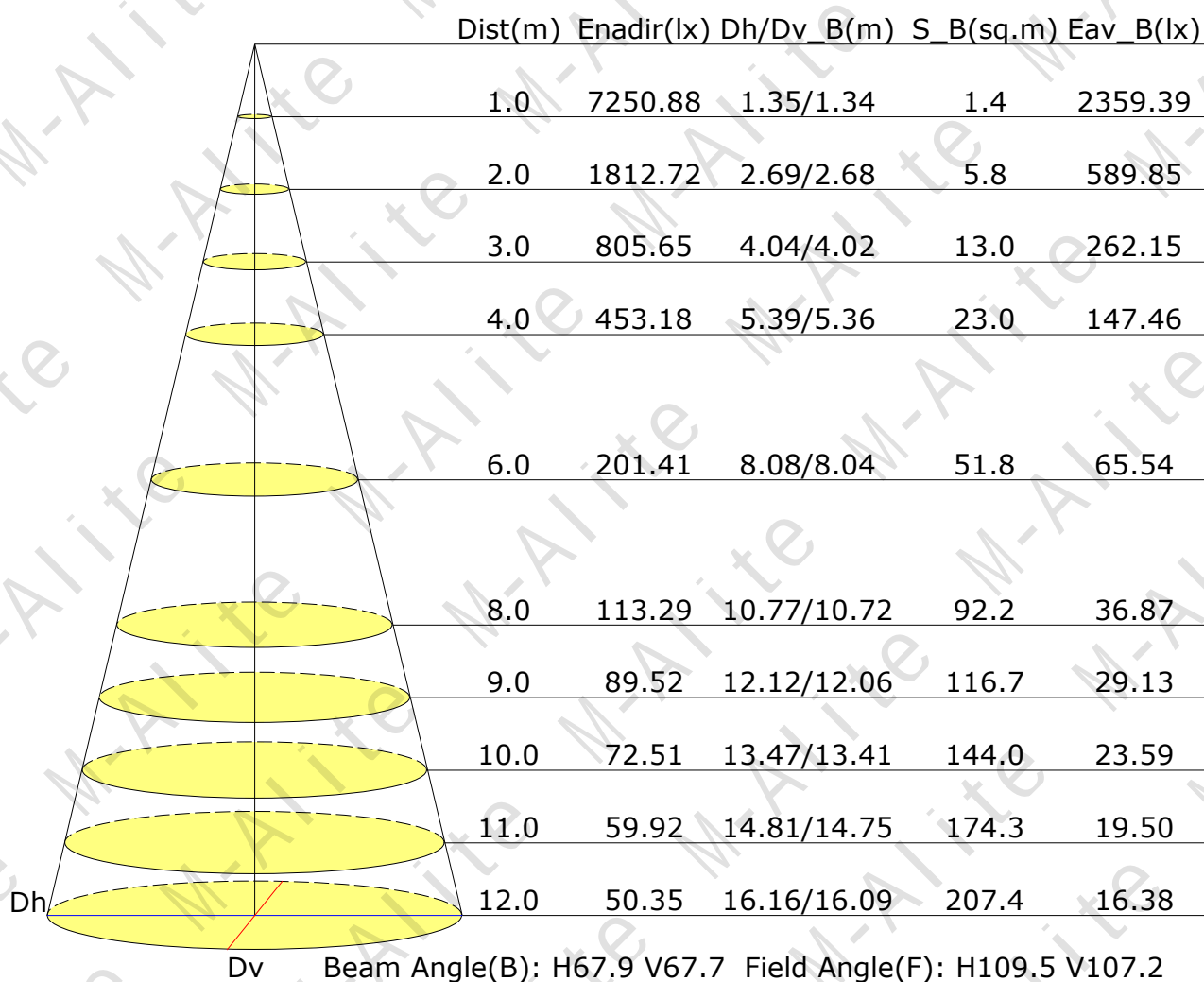


| L(cd/sq.m) | G45  | G50  | G55 | G60 | G65 | G70 | G75 | G80 | G85 |
|------------|------|------|-----|-----|-----|-----|-----|-----|-----|
| C0         | 2070 | 1401 | 918 | 605 | 405 | 278 | 191 | 128 | 75  |
| C90        | 1367 | 877  | 581 | 403 | 288 | 211 | 151 | 100 | 52  |
| C180       | 1309 | 849  | 555 | 377 | 261 | 184 | 124 | 75  | 29  |
| C270       | 1812 | 1143 | 728 | 475 | 326 | 227 | 157 | 97  | 45  |

C Plane (°):0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

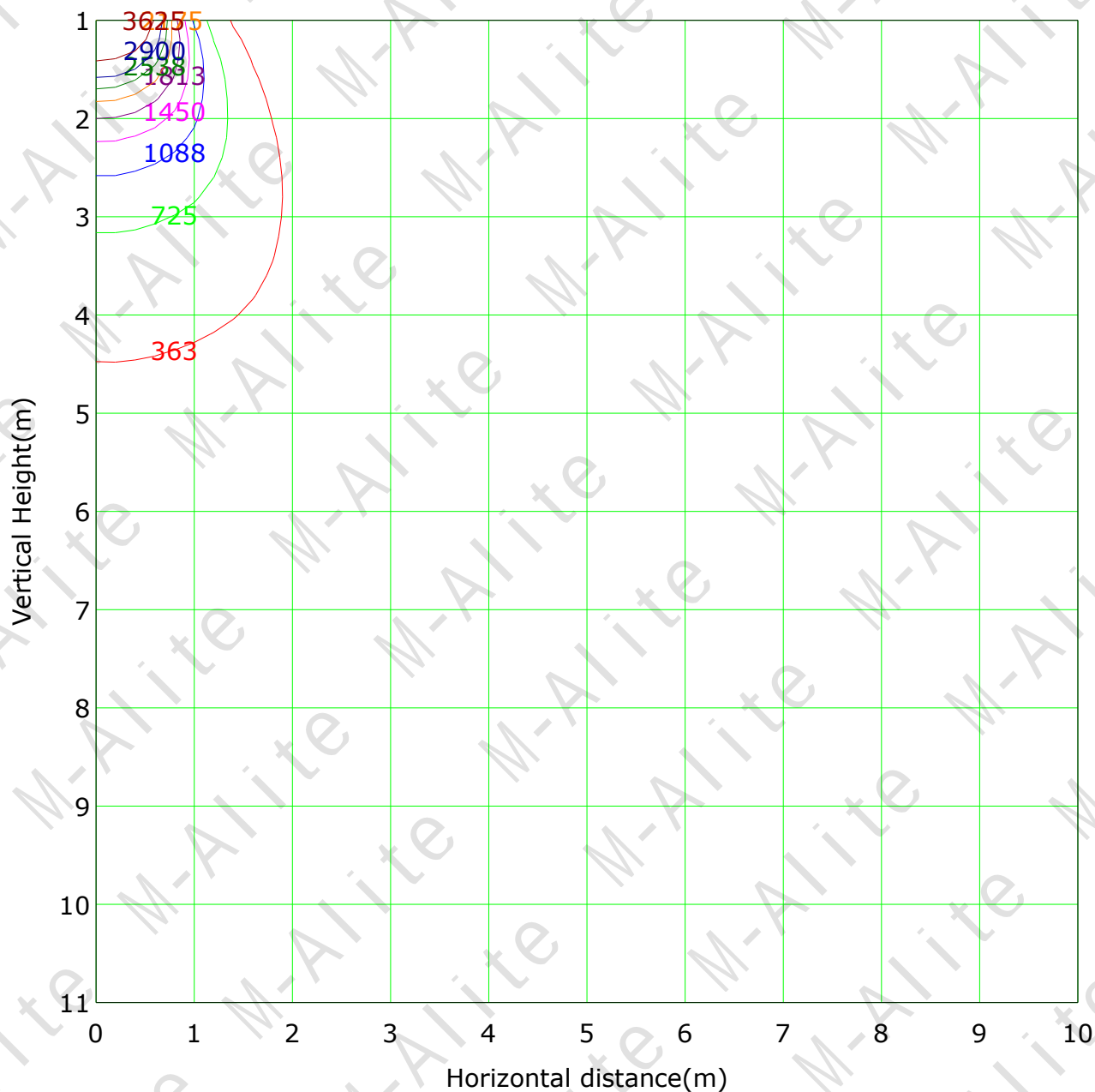
Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector:

## Illuminance at a Distance





## Vertical IsoLux Plot



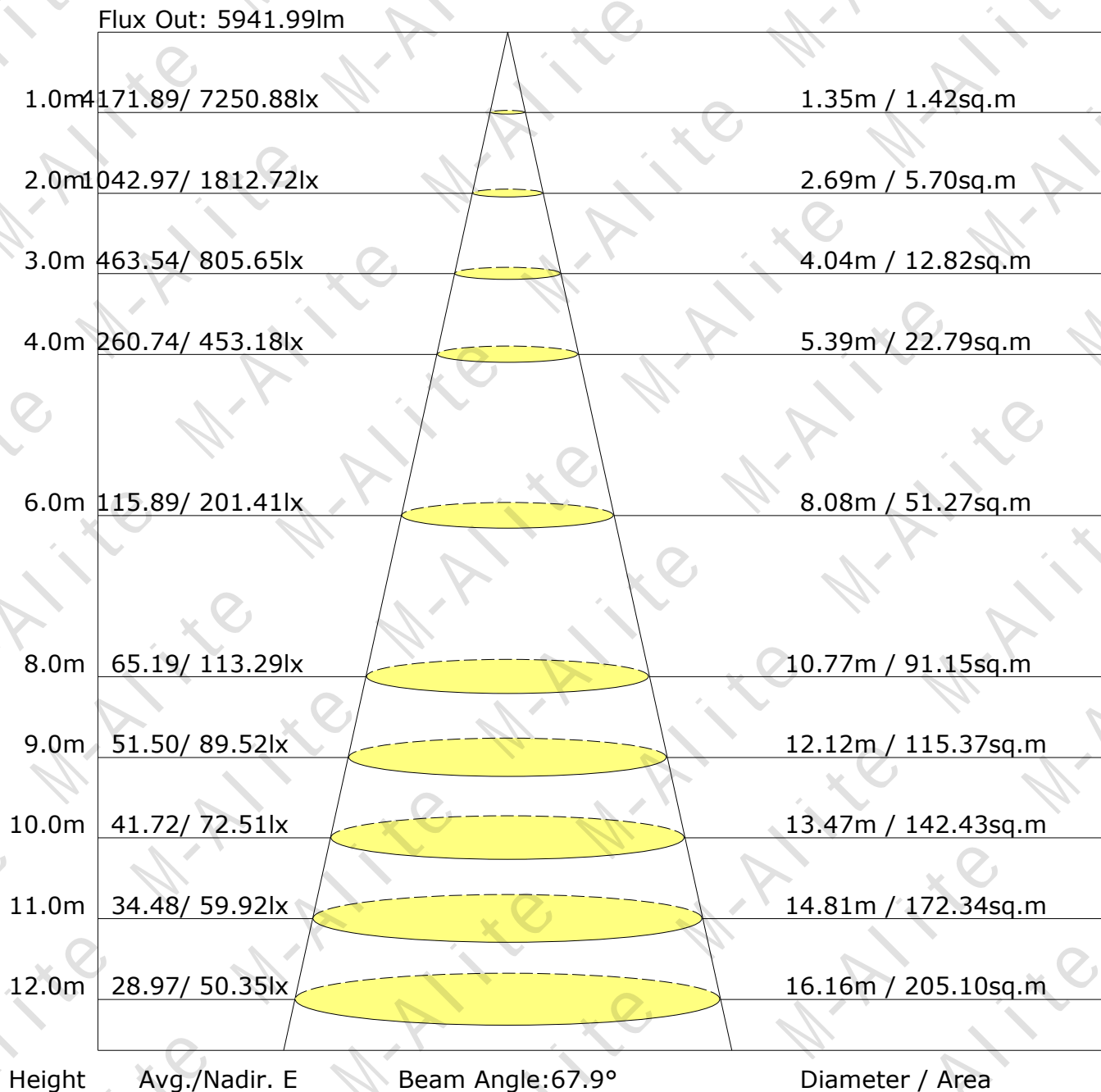
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 7250.9 lx

|                   |                   |
|-------------------|-------------------|
| ( 5%): 362.5 lx   | ( 10%): 725.1 lx  |
| ( 15%): 1087.6 lx | ( 20%): 1450.2 lx |
| ( 25%): 1812.7 lx | ( 30%): 2175.3 lx |
| ( 35%): 2537.8 lx | ( 40%): 2900.4 lx |
| ( 50%): 3625.4 lx | (100%): 7250.9 lx |

C Plane (°): 0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°): 0.0-180.0: 1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector:

## The Average Illuminance Effective Figure



C Plane (°): 0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°): 0.0-180.0: 1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector:

## UGR Table

|                                                    |                  |       |       |       |       |                |       |       |       |       |
|----------------------------------------------------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Reflectance:                                       |                  |       |       |       |       |                |       |       |       |       |
| Ceiling (cavity)                                   | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall                                               | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane                                    | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions                                    | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H Y=2H                                          | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 3H                                                 | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 4H                                                 | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 6H                                                 | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 8H                                                 | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 12H                                                | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| X=4H Y=2H                                          | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 3H                                                 | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 4H                                                 | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 6H                                                 | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 8H                                                 | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 12H                                                | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| X=8H Y=4H                                          | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 6H                                                 | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 8H                                                 | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 12H                                                | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| X=12H Y=4H                                         | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 6H                                                 | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 8H                                                 | -1.\$            | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$          | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| Variations with the observer position at spacings: |                  |       |       |       |       |                |       |       |       |       |
| S=1.0H                                             | -1.\$/-1.\$      |       |       |       |       | -1.\$/-1.\$    |       |       |       |       |
| S=1.5H                                             | -1.\$/-1.\$      |       |       |       |       | -1.\$/-1.\$    |       |       |       |       |
| S=2.0H                                             | -1.\$/-1.\$      |       |       |       |       | -1.\$/-1.\$    |       |       |       |       |

Calculate in accordance with CIE Pub.117. The table is revised with 9780lm ( $8\log(F/F_0) = 7.9$ ).

C Plane (°):0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector:

## Zonal Lumen

| Gamma<br>[°] | Imean<br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------|--------------------|------------------------|-----------------------|---------------------------|
| 0.0-1.0      | 7249.3        | 6.9                | 6.9                    | 0.07                  | 0.07                      |
| 1.0-2.0      | 7242.6        | 20.8               | 27.7                   | 0.21                  | 0.28                      |
| 2.0-3.0      | 7227.7        | 34.6               | 62.3                   | 0.35                  | 0.64                      |
| 3.0-4.0      | 7203.8        | 48.2               | 110.5                  | 0.49                  | 1.13                      |
| 4.0-5.0      | 7171.9        | 61.7               | 172.2                  | 0.63                  | 1.76                      |
| 5.0-6.0      | 7133.7        | 75.0               | 247.2                  | 0.77                  | 2.53                      |
| 6.0-7.0      | 7091.6        | 88.0               | 335.2                  | 0.90                  | 3.43                      |
| 7.0-8.0      | 7042.9        | 100.8              | 436.1                  | 1.03                  | 4.46                      |
| 8.0-9.0      | 6988.6        | 113.3              | 549.3                  | 1.16                  | 5.62                      |
| 9.0-10.0     | 6932.5        | 125.5              | 674.8                  | 1.28                  | 6.90                      |
| 10.0-11.0    | 6875.4        | 137.4              | 812.2                  | 1.40                  | 8.31                      |
| 11.0-12.0    | 6815.3        | 149.0              | 961.2                  | 1.52                  | 9.83                      |
| 12.0-13.0    | 6752.6        | 160.3              | 1121.5                 | 1.64                  | 11.47                     |
| 13.0-14.0    | 6690.0        | 171.3              | 1292.7                 | 1.75                  | 13.22                     |
| 14.0-15.0    | 6624.4        | 181.9              | 1474.6                 | 1.86                  | 15.08                     |
| 15.0-16.0    | 6555.2        | 192.1              | 1666.7                 | 1.96                  | 17.04                     |
| 16.0-17.0    | 6481.3        | 201.9              | 1868.6                 | 2.06                  | 19.11                     |
| 17.0-18.0    | 6399.3        | 211.0              | 2079.6                 | 2.16                  | 21.27                     |
| 18.0-19.0    | 6309.7        | 219.6              | 2299.2                 | 2.25                  | 23.51                     |
| 19.0-20.0    | 6211.6        | 227.4              | 2526.6                 | 2.33                  | 25.84                     |
| 20.0-21.0    | 6101.2        | 234.3              | 2760.9                 | 2.40                  | 28.23                     |
| 21.0-22.0    | 5975.4        | 240.2              | 3001.0                 | 2.46                  | 30.69                     |
| 22.0-23.0    | 5840.1        | 245.1              | 3246.1                 | 2.51                  | 33.19                     |
| 23.0-24.0    | 5697.5        | 249.1              | 3495.2                 | 2.55                  | 35.74                     |
| 24.0-25.0    | 5536.6        | 251.8              | 3747.0                 | 2.57                  | 38.31                     |
| 25.0-26.0    | 5364.3        | 253.2              | 4000.3                 | 2.59                  | 40.90                     |
| 26.0-27.0    | 5189.8        | 253.9              | 4254.2                 | 2.60                  | 43.50                     |
| 27.0-28.0    | 5002.9        | 253.3              | 4507.5                 | 2.59                  | 46.09                     |
| 28.0-29.0    | 4802.2        | 251.3              | 4758.8                 | 2.57                  | 48.66                     |
| 29.0-30.0    | 4595.2        | 248.1              | 5006.9                 | 2.54                  | 51.20                     |
| 30.0-31.0    | 4384.4        | 244.0              | 5251.0                 | 2.50                  | 53.69                     |
| 31.0-32.0    | 4174.6        | 239.2              | 5490.2                 | 2.45                  | 56.14                     |
| 32.0-33.0    | 3963.8        | 233.5              | 5723.7                 | 2.39                  | 58.53                     |
| 33.0-34.0    | 3750.1        | 227.0              | 5950.7                 | 2.32                  | 60.85                     |
| 34.0-35.0    | 3534.9        | 219.6              | 6170.3                 | 2.25                  | 63.09                     |
| 35.0-36.0    | 3323.1        | 211.6              | 6381.9                 | 2.16                  | 65.26                     |

C Plane (°):0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector:

## Zonal Lumen (Continue 1)

| Gamma<br>[°] | Imean<br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------|--------------------|------------------------|-----------------------|---------------------------|
| 36.0-37.0    | 3121.4        | 203.6              | 6585.5                 | 2.08                  | 67.34                     |
| 37.0-38.0    | 2921.4        | 195.0              | 6780.5                 | 1.99                  | 69.33                     |
| 38.0-39.0    | 2725.4        | 186.1              | 6966.6                 | 1.90                  | 71.24                     |
| 39.0-40.0    | 2535.9        | 176.9              | 7143.4                 | 1.81                  | 73.04                     |
| 40.0-41.0    | 2354.3        | 167.7              | 7311.1                 | 1.71                  | 74.76                     |
| 41.0-42.0    | 2184.1        | 158.7              | 7469.8                 | 1.62                  | 76.38                     |
| 42.0-43.0    | 2019.6        | 149.6              | 7619.5                 | 1.53                  | 77.91                     |
| 43.0-44.0    | 1863.5        | 140.7              | 7760.1                 | 1.44                  | 79.35                     |
| 44.0-45.0    | 1718.9        | 132.1              | 7892.2                 | 1.35                  | 80.70                     |
| 45.0-46.0    | 1583.1        | 123.8              | 8016.1                 | 1.27                  | 81.97                     |
| 46.0-47.0    | 1455.3        | 115.8              | 8131.8                 | 1.18                  | 83.15                     |
| 47.0-48.0    | 1338.1        | 108.2              | 8240.0                 | 1.11                  | 84.26                     |
| 48.0-49.0    | 1231.3        | 101.1              | 8341.1                 | 1.03                  | 85.29                     |
| 49.0-50.0    | 1130.2        | 94.2               | 8435.4                 | 0.96                  | 86.26                     |
| 50.0-51.0    | 1037.0        | 87.7               | 8523.1                 | 0.90                  | 87.15                     |
| 51.0-52.0    | 953.6         | 81.8               | 8605.0                 | 0.84                  | 87.99                     |
| 52.0-53.0    | 876.0         | 76.2               | 8681.2                 | 0.78                  | 88.77                     |
| 53.0-54.0    | 805.4         | 71.0               | 8752.2                 | 0.73                  | 89.49                     |
| 54.0-55.0    | 741.4         | 66.2               | 8818.4                 | 0.68                  | 90.17                     |
| 55.0-56.0    | 681.7         | 61.6               | 8880.0                 | 0.63                  | 90.80                     |
| 56.0-57.0    | 628.1         | 57.4               | 8937.4                 | 0.59                  | 91.39                     |
| 57.0-58.0    | 580.1         | 53.7               | 8991.1                 | 0.55                  | 91.94                     |
| 58.0-59.0    | 535.6         | 50.1               | 9041.1                 | 0.51                  | 92.45                     |
| 59.0-60.0    | 494.9         | 46.8               | 9087.9                 | 0.48                  | 92.93                     |
| 60.0-61.0    | 458.7         | 43.8               | 9131.7                 | 0.45                  | 93.38                     |
| 61.0-62.0    | 425.5         | 41.0               | 9172.7                 | 0.42                  | 93.79                     |
| 62.0-63.0    | 394.5         | 38.4               | 9211.1                 | 0.39                  | 94.19                     |
| 63.0-64.0    | 366.3         | 36.0               | 9247.0                 | 0.37                  | 94.55                     |
| 64.0-65.0    | 340.6         | 33.7               | 9280.7                 | 0.34                  | 94.90                     |
| 65.0-66.0    | 316.4         | 31.6               | 9312.3                 | 0.32                  | 95.22                     |
| 66.0-67.0    | 294.5         | 29.6               | 9341.9                 | 0.30                  | 95.53                     |
| 67.0-68.0    | 274.2         | 27.8               | 9369.7                 | 0.28                  | 95.81                     |
| 68.0-69.0    | 255.1         | 26.0               | 9395.7                 | 0.27                  | 96.08                     |
| 69.0-70.0    | 237.6         | 24.4               | 9420.1                 | 0.25                  | 96.33                     |
| 70.0-71.0    | 221.3         | 22.9               | 9443.0                 | 0.23                  | 96.56                     |
| 71.0-72.0    | 205.7         | 21.4               | 9464.4                 | 0.22                  | 96.78                     |

C Plane (°):0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector:

## Zonal Lumen (Continue 2)

| Gamma<br>[°] | Imean<br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------|--------------------|------------------------|-----------------------|---------------------------|
| 72.0-73.0    | 191.1         | 20.0               | 9484.4                 | 0.20                  | 96.98                     |
| 73.0-74.0    | 177.5         | 18.7               | 9503.1                 | 0.19                  | 97.17                     |
| 74.0-75.0    | 164.6         | 17.4               | 9520.4                 | 0.18                  | 97.35                     |
| 75.0-76.0    | 151.9         | 16.1               | 9536.6                 | 0.16                  | 97.52                     |
| 76.0-77.0    | 139.7         | 14.9               | 9551.5                 | 0.15                  | 97.67                     |
| 77.0-78.0    | 128.1         | 13.7               | 9565.2                 | 0.14                  | 97.81                     |
| 78.0-79.0    | 116.9         | 12.6               | 9577.8                 | 0.13                  | 97.94                     |
| 79.0-80.0    | 106.2         | 11.5               | 9589.2                 | 0.12                  | 98.05                     |
| 80.0-81.0    | 95.9          | 10.4               | 9599.6                 | 0.11                  | 98.16                     |
| 81.0-82.0    | 85.7          | 9.3                | 9608.9                 | 0.10                  | 98.26                     |
| 82.0-83.0    | 75.6          | 8.2                | 9617.1                 | 0.08                  | 98.34                     |
| 83.0-84.0    | 65.7          | 7.2                | 9624.3                 | 0.07                  | 98.41                     |
| 84.0-85.0    | 56.0          | 6.1                | 9630.4                 | 0.06                  | 98.47                     |
| 85.0-86.0    | 46.2          | 5.0                | 9635.4                 | 0.05                  | 98.53                     |
| 86.0-87.0    | 36.2          | 4.0                | 9639.4                 | 0.04                  | 98.57                     |
| 87.0-88.0    | 26.9          | 2.9                | 9642.3                 | 0.03                  | 98.60                     |
| 88.0-89.0    | 18.7          | 2.0                | 9644.4                 | 0.02                  | 98.62                     |
| 89.0-90.0    | 12.3          | 1.4                | 9645.7                 | 0.01                  | 98.63                     |
| 90.0-91.0    | 8.1           | 0.9                | 9646.6                 | 0.01                  | 98.64                     |
| 91.0-92.0    | 5.8           | 0.6                | 9647.2                 | 0.01                  | 98.65                     |
| 92.0-93.0    | 5.1           | 0.6                | 9647.8                 | 0.01                  | 98.65                     |
| 93.0-94.0    | 5.1           | 0.6                | 9648.4                 | 0.01                  | 98.66                     |
| 94.0-95.0    | 5.2           | 0.6                | 9648.9                 | 0.01                  | 98.66                     |
| 95.0-96.0    | 5.6           | 0.6                | 9649.5                 | 0.01                  | 98.67                     |
| 96.0-97.0    | 6.0           | 0.7                | 9650.2                 | 0.01                  | 98.68                     |
| 97.0-98.0    | 6.4           | 0.7                | 9650.9                 | 0.01                  | 98.68                     |
| 98.0-99.0    | 6.7           | 0.7                | 9651.6                 | 0.01                  | 98.69                     |
| 99.0-100.0   | 7.0           | 0.8                | 9652.4                 | 0.01                  | 98.70                     |
| 100.0-101.0  | 7.3           | 0.8                | 9653.1                 | 0.01                  | 98.71                     |
| 101.0-102.0  | 7.5           | 0.8                | 9654.0                 | 0.01                  | 98.72                     |
| 102.0-103.0  | 7.8           | 0.8                | 9654.8                 | 0.01                  | 98.72                     |
| 103.0-104.0  | 8.2           | 0.9                | 9655.7                 | 0.01                  | 98.73                     |
| 104.0-105.0  | 8.6           | 0.9                | 9656.6                 | 0.01                  | 98.74                     |
| 105.0-106.0  | 9.0           | 0.9                | 9657.5                 | 0.01                  | 98.75                     |
| 106.0-107.0  | 9.3           | 1.0                | 9658.5                 | 0.01                  | 98.76                     |
| 107.0-108.0  | 9.7           | 1.0                | 9659.5                 | 0.01                  | 98.77                     |

C Plane (°):0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector:



### Zonal Lumen (Continue 3)

| Gamma<br>[°] | I <sub>mean</sub><br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 108.0-109.0  | 10.3                      | 1.1                | 9660.6                 | 0.01                  | 98.78                     |
| 109.0-110.0  | 10.7                      | 1.1                | 9661.7                 | 0.01                  | 98.80                     |
| 110.0-111.0  | 11.1                      | 1.1                | 9662.8                 | 0.01                  | 98.81                     |
| 111.0-112.0  | 11.6                      | 1.2                | 9664.0                 | 0.01                  | 98.82                     |
| 112.0-113.0  | 12.1                      | 1.2                | 9665.2                 | 0.01                  | 98.83                     |
| 113.0-114.0  | 12.8                      | 1.3                | 9666.5                 | 0.01                  | 98.84                     |
| 114.0-115.0  | 13.4                      | 1.3                | 9667.9                 | 0.01                  | 98.86                     |
| 115.0-116.0  | 14.0                      | 1.4                | 9669.2                 | 0.01                  | 98.87                     |
| 116.0-117.0  | 14.6                      | 1.4                | 9670.7                 | 0.01                  | 98.89                     |
| 117.0-118.0  | 15.3                      | 1.5                | 9672.2                 | 0.02                  | 98.90                     |
| 118.0-119.0  | 16.1                      | 1.5                | 9673.7                 | 0.02                  | 98.92                     |
| 119.0-120.0  | 16.8                      | 1.6                | 9675.3                 | 0.02                  | 98.93                     |
| 120.0-121.0  | 17.5                      | 1.7                | 9677.0                 | 0.02                  | 98.95                     |
| 121.0-122.0  | 18.2                      | 1.7                | 9678.7                 | 0.02                  | 98.97                     |
| 122.0-123.0  | 19.0                      | 1.8                | 9680.4                 | 0.02                  | 98.99                     |
| 123.0-124.0  | 19.9                      | 1.8                | 9682.2                 | 0.02                  | 99.01                     |
| 124.0-125.0  | 20.7                      | 1.9                | 9684.1                 | 0.02                  | 99.02                     |
| 125.0-126.0  | 21.5                      | 1.9                | 9686.0                 | 0.02                  | 99.04                     |
| 126.0-127.0  | 22.3                      | 2.0                | 9688.0                 | 0.02                  | 99.06                     |
| 127.0-128.0  | 23.1                      | 2.0                | 9690.0                 | 0.02                  | 99.08                     |
| 128.0-129.0  | 23.8                      | 2.0                | 9692.1                 | 0.02                  | 99.11                     |
| 129.0-130.0  | 24.6                      | 2.1                | 9694.1                 | 0.02                  | 99.13                     |
| 130.0-131.0  | 25.5                      | 2.1                | 9696.3                 | 0.02                  | 99.15                     |
| 131.0-132.0  | 26.3                      | 2.2                | 9698.4                 | 0.02                  | 99.17                     |
| 132.0-133.0  | 27.1                      | 2.2                | 9700.6                 | 0.02                  | 99.19                     |
| 133.0-134.0  | 28.0                      | 2.2                | 9702.9                 | 0.02                  | 99.22                     |
| 134.0-135.0  | 28.9                      | 2.3                | 9705.1                 | 0.02                  | 99.24                     |
| 135.0-136.0  | 29.7                      | 2.3                | 9707.4                 | 0.02                  | 99.26                     |
| 136.0-137.0  | 30.6                      | 2.3                | 9709.7                 | 0.02                  | 99.29                     |
| 137.0-138.0  | 31.4                      | 2.3                | 9712.0                 | 0.02                  | 99.31                     |
| 138.0-139.0  | 32.2                      | 2.3                | 9714.4                 | 0.02                  | 99.33                     |
| 139.0-140.0  | 33.0                      | 2.4                | 9716.7                 | 0.02                  | 99.36                     |
| 140.0-141.0  | 33.8                      | 2.4                | 9719.1                 | 0.02                  | 99.38                     |
| 141.0-142.0  | 34.5                      | 2.4                | 9721.4                 | 0.02                  | 99.41                     |
| 142.0-143.0  | 35.3                      | 2.4                | 9723.8                 | 0.02                  | 99.43                     |
| 143.0-144.0  | 36.1                      | 2.4                | 9726.2                 | 0.02                  | 99.45                     |

C Plane (°):0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector:

## Zonal Lumen (Continue 4)

| Gamma<br>[°] | Imean<br>[cd] | Zonal Flux<br>[lm] | Sum Zonal Flux<br>[lm] | Rel Zonal Flux<br>[%] | Sum Rel Zonal Flux<br>[%] |
|--------------|---------------|--------------------|------------------------|-----------------------|---------------------------|
| 144.0-145.0  | 36.7          | 2.3                | 9728.5                 | 0.02                  | 99.48                     |
| 145.0-146.0  | 37.5          | 2.3                | 9730.8                 | 0.02                  | 99.50                     |
| 146.0-147.0  | 38.4          | 2.3                | 9733.1                 | 0.02                  | 99.53                     |
| 147.0-148.0  | 39.1          | 2.3                | 9735.5                 | 0.02                  | 99.55                     |
| 148.0-149.0  | 39.8          | 2.3                | 9737.7                 | 0.02                  | 99.57                     |
| 149.0-150.0  | 40.6          | 2.3                | 9740.0                 | 0.02                  | 99.60                     |
| 150.0-151.0  | 41.3          | 2.2                | 9742.2                 | 0.02                  | 99.62                     |
| 151.0-152.0  | 42.0          | 2.2                | 9744.4                 | 0.02                  | 99.64                     |
| 152.0-153.0  | 42.7          | 2.2                | 9746.6                 | 0.02                  | 99.66                     |
| 153.0-154.0  | 43.3          | 2.1                | 9748.7                 | 0.02                  | 99.68                     |
| 154.0-155.0  | 44.0          | 2.1                | 9750.8                 | 0.02                  | 99.71                     |
| 155.0-156.0  | 44.5          | 2.0                | 9752.8                 | 0.02                  | 99.73                     |
| 156.0-157.0  | 45.1          | 2.0                | 9754.8                 | 0.02                  | 99.75                     |
| 157.0-158.0  | 45.8          | 1.9                | 9756.7                 | 0.02                  | 99.77                     |
| 158.0-159.0  | 46.5          | 1.9                | 9758.6                 | 0.02                  | 99.79                     |
| 159.0-160.0  | 46.9          | 1.8                | 9760.4                 | 0.02                  | 99.80                     |
| 160.0-161.0  | 47.5          | 1.7                | 9762.1                 | 0.02                  | 99.82                     |
| 161.0-162.0  | 48.1          | 1.7                | 9763.8                 | 0.02                  | 99.84                     |
| 162.0-163.0  | 48.5          | 1.6                | 9765.4                 | 0.02                  | 99.86                     |
| 163.0-164.0  | 49.0          | 1.5                | 9766.9                 | 0.02                  | 99.87                     |
| 164.0-165.0  | 49.5          | 1.5                | 9768.4                 | 0.01                  | 99.89                     |
| 165.0-166.0  | 50.1          | 1.4                | 9769.7                 | 0.01                  | 99.90                     |
| 166.0-167.0  | 50.6          | 1.3                | 9771.0                 | 0.01                  | 99.91                     |
| 167.0-168.0  | 51.2          | 1.2                | 9772.2                 | 0.01                  | 99.93                     |
| 168.0-169.0  | 51.5          | 1.1                | 9773.4                 | 0.01                  | 99.94                     |
| 169.0-170.0  | 51.9          | 1.0                | 9774.4                 | 0.01                  | 99.95                     |
| 170.0-171.0  | 52.5          | 1.0                | 9775.4                 | 0.01                  | 99.96                     |
| 171.0-172.0  | 52.9          | 0.9                | 9776.2                 | 0.01                  | 99.97                     |
| 172.0-173.0  | 53.5          | 0.8                | 9777.0                 | 0.01                  | 99.97                     |
| 173.0-174.0  | 53.8          | 0.7                | 9777.7                 | 0.01                  | 99.98                     |
| 174.0-175.0  | 54.0          | 0.6                | 9778.2                 | 0.01                  | 99.99                     |
| 175.0-176.0  | 54.4          | 0.5                | 9778.7                 | 0.00                  | 99.99                     |
| 176.0-177.0  | 54.7          | 0.4                | 9779.1                 | 0.00                  | 100.00                    |
| 177.0-178.0  | 54.9          | 0.3                | 9779.3                 | 0.00                  | 100.00                    |
| 178.0-179.0  | 55.1          | 0.2                | 9779.5                 | 0.00                  | 100.00                    |
| 179.0-180.0  | 55.4          | 0.1                | 9779.5                 | 0.00                  | 100.00                    |

C Plane (°):0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector:

## Candlepower Table

Unit: cd

| G\C   | C0.0   | C45.0  | C90.0  | C135.0 | C180.0 | C225.0 | C270.0 | C315.0 | C360.0 |  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| G0.0  | 7250.9 | 7250.9 | 7250.9 | 7250.9 | 7250.9 | 7250.9 | 7250.9 | 7250.9 | 7250.9 |  |
| G1.0  | 7271.7 | 7248.9 | 7226.4 | 7219.9 | 7222.9 | 7248.5 | 7271.3 | 7271.4 | 7271.7 |  |
| G2.0  | 7284.7 | 7231.2 | 7187.2 | 7181.2 | 7184.3 | 7237.2 | 7274.9 | 7319.9 | 7284.7 |  |
| G3.0  | 7288.6 | 7217.1 | 7147.0 | 7135.8 | 7141.4 | 7223.5 | 7276.2 | 7312.2 | 7288.6 |  |
| G4.0  | 7284.7 | 7187.6 | 7096.0 | 7084.1 | 7093.0 | 7196.2 | 7264.9 | 7313.1 | 7284.7 |  |
| G5.0  | 7273.2 | 7154.5 | 7046.8 | 7039.0 | 7033.6 | 7164.8 | 7249.3 | 7269.1 | 7273.2 |  |
| G6.0  | 7254.6 | 7114.8 | 6981.6 | 6993.6 | 6973.8 | 7127.8 | 7219.5 | 7243.4 | 7254.6 |  |
| G7.0  | 7231.4 | 7076.6 | 6922.6 | 6930.7 | 6909.4 | 7089.8 | 7187.5 | 7208.0 | 7231.4 |  |
| G8.0  | 7203.8 | 7028.9 | 6855.9 | 6863.5 | 6841.9 | 7038.6 | 7141.4 | 7156.8 | 7203.8 |  |
| G9.0  | 7169.4 | 6976.6 | 6786.0 | 6801.5 | 6763.6 | 6982.8 | 7092.6 | 7113.9 | 7169.4 |  |
| G10.0 | 7134.4 | 6926.1 | 6723.2 | 6722.7 | 6690.4 | 6929.0 | 7038.8 | 7069.3 | 7134.4 |  |
| G11.0 | 7097.6 | 6876.1 | 6654.0 | 6649.3 | 6615.3 | 6870.1 | 6988.1 | 7022.3 | 7097.6 |  |
| G12.0 | 7054.2 | 6814.1 | 6581.5 | 6584.1 | 6537.0 | 6802.6 | 6923.8 | 6975.6 | 7054.2 |  |
| G13.0 | 7011.9 | 6754.9 | 6508.1 | 6517.1 | 6450.3 | 6732.0 | 6865.2 | 6928.9 | 7011.9 |  |
| G14.0 | 6966.6 | 6696.2 | 6440.6 | 6441.0 | 6367.9 | 6667.3 | 6805.8 | 6885.8 | 6966.6 |  |
| G15.0 | 6912.8 | 6627.4 | 6360.7 | 6369.0 | 6281.2 | 6582.2 | 6740.6 | 6845.7 | 6912.8 |  |
| G16.0 | 6858.8 | 6559.7 | 6279.3 | 6302.9 | 6178.8 | 6504.1 | 6682.5 | 6797.6 | 6858.8 |  |
| G17.0 | 6800.7 | 6482.0 | 6182.3 | 6219.0 | 6079.3 | 6414.1 | 6614.2 | 6745.7 | 6800.7 |  |
| G18.0 | 6734.6 | 6405.5 | 6087.2 | 6124.7 | 5970.2 | 6309.1 | 6541.7 | 6678.0 | 6734.6 |  |
| G19.0 | 6651.7 | 6303.1 | 5976.9 | 6025.8 | 5856.2 | 6207.6 | 6464.0 | 6619.0 | 6651.7 |  |
| G20.0 | 6566.1 | 6203.2 | 5846.0 | 5918.0 | 5719.3 | 6091.8 | 6384.1 | 6553.3 | 6566.1 |  |
| G21.0 | 6460.1 | 6089.1 | 5717.8 | 5784.3 | 5580.8 | 5956.8 | 6279.7 | 6468.8 | 6460.1 |  |
| G22.0 | 6350.6 | 5954.8 | 5559.4 | 5606.3 | 5430.5 | 5816.4 | 6171.8 | 6379.7 | 6350.6 |  |
| G23.0 | 6225.7 | 5820.4 | 5407.6 | 5450.2 | 5261.0 | 5673.5 | 6055.0 | 6279.0 | 6225.7 |  |
| G24.0 | 6091.9 | 5670.2 | 5240.3 | 5283.6 | 5094.4 | 5515.5 | 5926.6 | 6165.3 | 6091.9 |  |
| G25.0 | 5929.2 | 5496.6 | 5048.2 | 5083.3 | 4900.6 | 5335.1 | 5782.8 | 6022.4 | 5929.2 |  |
| G26.0 | 5769.7 | 5322.1 | 4865.7 | 4891.4 | 4734.0 | 5157.9 | 5612.8 | 5877.0 | 5769.7 |  |
| G27.0 | 5599.2 | 5147.3 | 4675.9 | 4690.7 | 4546.9 | 4978.1 | 5450.1 | 5717.5 | 5599.2 |  |
| G28.0 | 5419.0 | 4958.1 | 4457.6 | 4482.2 | 4352.6 | 4771.4 | 5273.4 | 5526.5 | 5419.0 |  |
| G29.0 | 5208.9 | 4763.7 | 4251.8 | 4261.6 | 4123.0 | 4576.2 | 5070.0 | 5339.0 | 5208.9 |  |
| G30.0 | 5015.7 | 4547.3 | 4048.8 | 4021.2 | 3915.2 | 4375.0 | 4870.2 | 5135.3 | 5015.7 |  |
| G31.0 | 4801.5 | 4352.9 | 3825.8 | 3804.0 | 3714.5 | 4152.6 | 4670.4 | 4901.0 | 4801.5 |  |
| G32.0 | 4605.7 | 4138.7 | 3629.6 | 3592.5 | 3512.6 | 3951.2 | 4460.9 | 4680.0 | 4605.7 |  |
| G33.0 | 4384.5 | 3939.0 | 3408.8 | 3364.2 | 3309.4 | 3745.1 | 4248.6 | 4449.8 | 4384.5 |  |
| G34.0 | 4183.5 | 3741.6 | 3209.4 | 3156.4 | 3090.8 | 3544.4 | 4008.8 | 4216.9 | 4183.5 |  |
| G35.0 | 3959.5 | 3522.1 | 2996.0 | 2934.6 | 2897.6 | 3321.8 | 3793.8 | 3981.5 | 3959.5 |  |
| G36.0 | 3757.0 | 3328.4 | 2804.0 | 2740.9 | 2707.7 | 3125.9 | 3574.4 | 3725.4 | 3757.0 |  |

C Plane (°):0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector:

## Candlepower Table (Continue 1)

Unit: cd

| G\C   | C0.0   | C45.0  | C90.0  | C135.0 | C180.0 | C225.0 | C270.0 | C315.0 | C360.0 |  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| G37.0 | 3555.5 | 3135.8 | 2619.9 | 2555.7 | 2525.1 | 2931.7 | 3360.5 | 3495.0 | 3555.5 |  |
| G38.0 | 3336.3 | 2928.9 | 2422.1 | 2377.2 | 2332.3 | 2746.8 | 3148.7 | 3271.4 | 3336.3 |  |
| G39.0 | 3142.2 | 2747.1 | 2249.8 | 2192.2 | 2166.7 | 2547.4 | 2942.6 | 3055.4 | 3142.2 |  |
| G40.0 | 2934.7 | 2553.8 | 2085.8 | 2033.4 | 2005.1 | 2372.7 | 2720.5 | 2825.5 | 2934.7 |  |
| G41.0 | 2751.5 | 2386.2 | 1913.6 | 1883.4 | 1840.8 | 2206.8 | 2527.6 | 2627.9 | 2751.5 |  |
| G42.0 | 2572.4 | 2223.3 | 1766.5 | 1728.7 | 1697.2 | 2046.0 | 2337.5 | 2437.2 | 2572.4 |  |
| G43.0 | 2401.7 | 2053.9 | 1615.2 | 1596.5 | 1562.3 | 1878.1 | 2141.7 | 2256.2 | 2401.7 |  |
| G44.0 | 2224.1 | 1908.7 | 1486.5 | 1476.2 | 1437.4 | 1735.1 | 1971.2 | 2071.0 | 2224.1 |  |
| G45.0 | 2069.5 | 1772.4 | 1366.6 | 1351.1 | 1309.1 | 1599.2 | 1811.9 | 1912.4 | 2069.5 |  |
| G46.0 | 1922.7 | 1630.3 | 1244.6 | 1247.2 | 1203.2 | 1475.2 | 1648.1 | 1765.4 | 1922.7 |  |
| G47.0 | 1769.6 | 1509.2 | 1142.1 | 1150.6 | 1105.0 | 1347.1 | 1509.0 | 1615.2 | 1769.6 |  |
| G48.0 | 1639.5 | 1396.3 | 1049.0 | 1053.7 | 1014.6 | 1238.7 | 1381.1 | 1489.0 | 1639.5 |  |
| G49.0 | 1516.6 | 1291.0 | 955.4  | 974.6  | 924.4  | 1140.6 | 1262.9 | 1372.8 | 1516.6 |  |
| G50.0 | 1401.0 | 1182.7 | 877.0  | 899.0  | 849.1  | 1039.1 | 1143.4 | 1253.8 | 1401.0 |  |
| G51.0 | 1282.6 | 1094.7 | 806.9  | 825.2  | 781.1  | 956.6  | 1044.8 | 1155.3 | 1282.6 |  |
| G52.0 | 1182.9 | 1011.1 | 743.3  | 762.3  | 713.2  | 879.1  | 955.4  | 1064.0 | 1182.9 |  |
| G53.0 | 1090.5 | 935.0  | 679.4  | 701.2  | 656.8  | 802.6  | 866.8  | 972.6  | 1090.5 |  |
| G54.0 | 1005.0 | 862.6  | 628.2  | 650.4  | 606.3  | 739.1  | 794.2  | 895.8  | 1005.0 |  |
| G55.0 | 918.3  | 788.7  | 581.3  | 603.2  | 555.1  | 681.5  | 727.9  | 825.4  | 918.3  |  |
| G56.0 | 846.5  | 730.0  | 537.9  | 556.2  | 513.0  | 624.1  | 662.5  | 755.2  | 846.5  |  |
| G57.0 | 779.5  | 674.9  | 496.5  | 516.6  | 474.4  | 575.8  | 609.1  | 697.1  | 779.5  |  |
| G58.0 | 711.9  | 626.1  | 462.7  | 479.9  | 440.8  | 532.1  | 561.2  | 642.9  | 711.9  |  |
| G59.0 | 656.8  | 575.8  | 431.3  | 443.9  | 406.1  | 488.2  | 514.7  | 595.2  | 656.8  |  |
| G60.0 | 605.4  | 533.7  | 402.8  | 413.6  | 377.1  | 452.0  | 474.7  | 546.5  | 605.4  |  |
| G61.0 | 559.4  | 495.7  | 374.3  | 386.9  | 351.3  | 418.9  | 440.4  | 505.7  | 559.4  |  |
| G62.0 | 516.1  | 460.0  | 350.0  | 361.0  | 324.2  | 389.6  | 406.1  | 469.0  | 516.1  |  |
| G63.0 | 473.8  | 427.8  | 327.4  | 335.2  | 302.5  | 359.2  | 377.6  | 433.0  | 473.8  |  |
| G64.0 | 438.2  | 398.6  | 306.9  | 313.1  | 282.1  | 334.4  | 349.4  | 402.2  | 438.2  |  |
| G65.0 | 405.3  | 368.6  | 288.4  | 292.4  | 261.3  | 308.9  | 325.6  | 374.2  | 405.3  |  |
| G66.0 | 375.6  | 343.1  | 269.3  | 272.8  | 243.3  | 287.0  | 302.0  | 345.2  | 375.6  |  |
| G67.0 | 348.5  | 319.9  | 253.2  | 255.0  | 227.5  | 266.7  | 281.5  | 321.3  | 348.5  |  |
| G68.0 | 321.6  | 298.7  | 238.1  | 236.5  | 211.0  | 246.2  | 262.8  | 299.0  | 321.6  |  |
| G69.0 | 298.8  | 278.6  | 223.9  | 221.5  | 196.9  | 228.5  | 243.5  | 276.4  | 298.8  |  |
| G70.0 | 277.6  | 257.9  | 210.5  | 207.1  | 183.7  | 212.0  | 227.4  | 257.7  | 277.6  |  |
| G71.0 | 258.3  | 241.1  | 196.7  | 192.3  | 170.0  | 197.0  | 212.3  | 239.3  | 258.3  |  |
| G72.0 | 237.9  | 224.6  | 184.5  | 179.8  | 158.1  | 180.9  | 197.6  | 221.3  | 237.9  |  |
| G73.0 | 221.2  | 209.4  | 172.9  | 167.5  | 146.6  | 167.7  | 182.5  | 205.5  | 221.2  |  |

C Plane (°):0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector:



## Candlepower Table (Continue 2)

Unit: cd

| G\C    | C0.0  | C45.0 | C90.0 | C135.0 | C180.0 | C225.0 | C270.0 | C315.0 | C360.0 |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| G74.0  | 205.3 | 195.0 | 162.0 | 155.0  | 134.7  | 154.6  | 169.8  | 190.5  | 205.3  |
| G75.0  | 190.6 | 181.6 | 150.9 | 144.2  | 124.2  | 141.2  | 156.9  | 176.4  | 190.6  |
| G76.0  | 176.7 | 166.6 | 141.1 | 131.5  | 114.5  | 129.3  | 143.3  | 161.3  | 176.7  |
| G77.0  | 163.7 | 152.9 | 130.6 | 121.0  | 103.9  | 118.0  | 132.0  | 149.3  | 163.7  |
| G78.0  | 150.3 | 142.1 | 119.5 | 111.4  | 94.3   | 106.1  | 119.7  | 135.4  | 150.3  |
| G79.0  | 139.0 | 131.3 | 109.7 | 100.7  | 83.7   | 96.0   | 107.9  | 123.5  | 139.0  |
| G80.0  | 127.7 | 119.8 | 100.4 | 90.9   | 75.2   | 85.2   | 96.8   | 111.9  | 127.7  |
| G81.0  | 117.1 | 109.2 | 90.8  | 81.6   | 66.1   | 74.6   | 86.3   | 100.7  | 117.1  |
| G82.0  | 105.4 | 99.5  | 80.1  | 72.7   | 56.8   | 64.4   | 76.8   | 89.3   | 105.4  |
| G83.0  | 94.8  | 89.6  | 71.0  | 64.0   | 46.6   | 53.6   | 65.9   | 79.1   | 94.8   |
| G84.0  | 85.0  | 78.8  | 62.3  | 54.9   | 37.5   | 44.1   | 54.3   | 69.0   | 85.0   |
| G85.0  | 75.2  | 69.7  | 52.3  | 46.3   | 28.8   | 34.6   | 44.7   | 58.8   | 75.2   |
| G86.0  | 65.3  | 60.0  | 43.4  | 36.7   | 17.8   | 22.7   | 34.5   | 47.9   | 65.3   |
| G87.0  | 55.1  | 51.0  | 33.6  | 27.3   | 9.3    | 13.0   | 24.0   | 37.8   | 55.1   |
| G88.0  | 46.0  | 41.5  | 23.6  | 17.5   | 5.9    | 5.3    | 11.1   | 27.8   | 46.0   |
| G89.0  | 36.4  | 31.8  | 13.8  | 8.2    | 6.5    | 5.1    | 1.3    | 16.6   | 36.4   |
| G90.0  | 26.9  | 21.2  | 4.5   | 4.8    | 6.7    | 5.3    | 1.1    | 6.8    | 26.9   |
| G91.0  | 17.6  | 11.5  | 1.1   | 5.0    | 7.2    | 5.7    | 0.0    | 4.1    | 17.6   |
| G92.0  | 8.9   | 6.0   | 1.6   | 5.0    | 7.8    | 6.0    | 0.7    | 4.6    | 8.9    |
| G93.0  | 8.2   | 6.2   | 1.6   | 5.0    | 8.2    | 6.4    | 0.9    | 4.8    | 8.2    |
| G94.0  | 7.6   | 6.0   | 1.8   | 5.5    | 8.2    | 5.7    | 1.1    | 4.3    | 7.6    |
| G95.0  | 8.7   | 6.4   | 1.6   | 5.9    | 8.9    | 6.0    | 0.7    | 4.6    | 8.7    |
| G96.0  | 8.9   | 6.8   | 1.8   | 6.4    | 9.3    | 6.8    | 1.3    | 5.0    | 8.9    |
| G97.0  | 9.3   | 7.5   | 2.2   | 7.1    | 9.8    | 7.1    | 1.3    | 5.5    | 9.3    |
| G98.0  | 10.0  | 7.9   | 2.9   | 7.1    | 10.2   | 7.3    | 1.3    | 5.5    | 10.0   |
| G99.0  | 10.6  | 8.2   | 2.9   | 7.5    | 10.4   | 7.7    | 1.8    | 5.7    | 10.6   |
| G100.0 | 11.1  | 8.6   | 3.3   | 8.0    | 10.2   | 7.5    | 2.4    | 6.2    | 11.1   |
| G101.0 | 11.5  | 9.0   | 3.6   | 8.9    | 10.2   | 7.7    | 1.8    | 6.4    | 11.5   |
| G102.0 | 11.7  | 9.3   | 3.8   | 8.7    | 10.8   | 8.2    | 2.4    | 6.6    | 11.7   |
| G103.0 | 12.1  | 9.9   | 4.2   | 9.1    | 11.3   | 7.7    | 2.7    | 6.4    | 12.1   |
| G104.0 | 12.4  | 10.1  | 5.1   | 10.2   | 11.3   | 8.4    | 3.6    | 6.8    | 12.4   |
| G105.0 | 12.8  | 10.8  | 5.3   | 10.5   | 11.5   | 8.6    | 3.8    | 7.1    | 12.8   |
| G106.0 | 13.4  | 10.8  | 6.0   | 10.5   | 12.4   | 9.3    | 3.8    | 7.3    | 13.4   |
| G107.0 | 13.2  | 11.2  | 6.5   | 11.4   | 11.5   | 9.7    | 4.0    | 7.7    | 13.2   |
| G108.0 | 13.7  | 11.9  | 6.7   | 12.3   | 13.0   | 9.9    | 4.5    | 7.7    | 13.7   |
| G109.0 | 14.1  | 12.1  | 8.0   | 13.0   | 13.4   | 10.6   | 4.9    | 8.4    | 14.1   |
| G110.0 | 14.3  | 13.0  | 8.2   | 13.0   | 13.0   | 11.0   | 5.6    | 8.4    | 14.3   |

C Plane (°):0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector:

## Candlepower Table (Continue 3)

Unit: cd

| G\C    | C0.0 | C45.0 | C90.0 | C135.0 | C180.0 | C225.0 | C270.0 | C315.0 | C360.0 |  |
|--------|------|-------|-------|--------|--------|--------|--------|--------|--------|--|
| G111.0 | 14.7 | 13.9  | 9.1   | 13.2   | 13.4   | 11.0   | 6.2    | 8.9    | 14.7   |  |
| G112.0 | 15.0 | 14.6  | 9.3   | 13.7   | 14.1   | 11.7   | 7.4    | 8.7    | 15.0   |  |
| G113.0 | 15.4 | 15.2  | 10.0  | 15.0   | 15.0   | 12.1   | 7.4    | 9.8    | 15.4   |  |
| G114.0 | 16.3 | 15.4  | 10.7  | 16.2   | 14.7   | 13.0   | 7.8    | 10.2   | 16.3   |  |
| G115.0 | 16.5 | 15.7  | 12.0  | 16.4   | 15.4   | 13.7   | 8.7    | 10.9   | 16.5   |  |
| G116.0 | 17.3 | 17.2  | 12.2  | 16.9   | 16.5   | 14.6   | 8.7    | 10.9   | 17.3   |  |
| G117.0 | 17.6 | 17.9  | 13.1  | 18.0   | 16.5   | 15.0   | 9.1    | 12.1   | 17.6   |  |
| G118.0 | 18.2 | 18.1  | 14.5  | 19.1   | 16.7   | 15.7   | 10.7   | 12.8   | 18.2   |  |
| G119.0 | 19.3 | 18.8  | 15.1  | 20.1   | 17.8   | 16.8   | 10.5   | 13.0   | 19.3   |  |
| G120.0 | 20.0 | 19.4  | 16.0  | 20.7   | 18.4   | 17.4   | 11.8   | 13.7   | 20.0   |  |
| G121.0 | 20.2 | 20.1  | 17.1  | 21.4   | 19.1   | 18.1   | 12.5   | 14.6   | 20.2   |  |
| G122.0 | 21.0 | 20.7  | 17.8  | 22.6   | 18.9   | 18.3   | 12.9   | 15.3   | 21.0   |  |
| G123.0 | 21.5 | 22.3  | 19.8  | 23.5   | 20.0   | 19.0   | 14.0   | 16.0   | 21.5   |  |
| G124.0 | 22.5 | 23.2  | 20.3  | 24.6   | 20.8   | 19.9   | 14.5   | 16.6   | 22.5   |  |
| G125.0 | 23.4 | 24.3  | 21.1  | 25.7   | 21.5   | 20.3   | 15.4   | 17.8   | 23.4   |  |
| G126.0 | 24.3 | 24.7  | 22.2  | 26.2   | 22.1   | 21.4   | 15.8   | 18.2   | 24.3   |  |
| G127.0 | 25.1 | 25.6  | 23.4  | 27.8   | 22.8   | 21.8   | 16.7   | 18.9   | 25.1   |  |
| G128.0 | 25.6 | 26.3  | 23.8  | 28.3   | 23.4   | 22.9   | 17.8   | 19.4   | 25.6   |  |
| G129.0 | 26.2 | 26.9  | 24.7  | 28.7   | 24.5   | 24.0   | 18.5   | 20.3   | 26.2   |  |
| G130.0 | 27.1 | 27.6  | 25.8  | 29.2   | 25.1   | 24.7   | 18.9   | 21.7   | 27.1   |  |
| G131.0 | 27.8 | 28.9  | 27.1  | 30.5   | 26.7   | 25.6   | 20.3   | 21.7   | 27.8   |  |
| G132.0 | 28.8 | 29.8  | 27.8  | 31.7   | 26.2   | 25.8   | 20.5   | 22.3   | 28.8   |  |
| G133.0 | 29.5 | 30.4  | 29.6  | 32.4   | 28.0   | 26.7   | 21.1   | 23.5   | 29.5   |  |
| G134.0 | 30.6 | 31.6  | 29.6  | 33.3   | 28.0   | 27.4   | 22.7   | 24.6   | 30.6   |  |
| G135.0 | 31.7 | 32.2  | 30.9  | 34.0   | 28.8   | 28.9   | 22.7   | 24.8   | 31.7   |  |
| G136.0 | 32.3 | 33.3  | 31.8  | 34.9   | 30.1   | 29.1   | 23.8   | 26.2   | 32.3   |  |
| G137.0 | 33.6 | 34.6  | 32.9  | 35.6   | 30.6   | 30.0   | 24.7   | 26.4   | 33.6   |  |
| G138.0 | 34.0 | 35.5  | 33.6  | 36.5   | 31.4   | 31.3   | 25.1   | 27.1   | 34.0   |  |
| G139.0 | 34.7 | 35.7  | 34.7  | 37.2   | 31.7   | 32.0   | 26.5   | 28.0   | 34.7   |  |
| G140.0 | 36.0 | 36.6  | 35.6  | 38.0   | 32.1   | 32.7   | 27.4   | 29.4   | 36.0   |  |
| G141.0 | 36.4 | 37.5  | 36.3  | 39.0   | 33.2   | 33.5   | 28.0   | 29.4   | 36.4   |  |
| G142.0 | 37.1 | 38.2  | 37.6  | 39.6   | 33.8   | 34.0   | 28.3   | 30.1   | 37.1   |  |
| G143.0 | 37.9 | 38.8  | 38.0  | 40.6   | 34.5   | 35.1   | 29.8   | 30.8   | 37.9   |  |
| G144.0 | 38.6 | 39.9  | 38.9  | 41.2   | 35.8   | 36.0   | 30.3   | 31.0   | 38.6   |  |
| G145.0 | 39.2 | 40.8  | 39.8  | 41.0   | 36.0   | 36.0   | 31.4   | 31.9   | 39.2   |  |
| G146.0 | 40.3 | 41.9  | 40.7  | 42.6   | 36.6   | 36.8   | 32.3   | 32.6   | 40.3   |  |
| G147.0 | 41.2 | 42.6  | 41.2  | 42.8   | 37.9   | 37.3   | 33.4   | 33.5   | 41.2   |  |

C Plane (°):0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector:



## Candlepower Table (Continue 4)

Unit: cd

| G\C    | C0.0 | C45.0 | C90.0 | C135.0 | C180.0 | C225.0 | C270.0 | C315.0 | C360.0 |  |
|--------|------|-------|-------|--------|--------|--------|--------|--------|--------|--|
| G148.0 | 41.6 | 43.2  | 42.3  | 43.3   | 38.8   | 38.6   | 34.3   | 33.7   | 41.6   |  |
| G149.0 | 42.3 | 43.7  | 42.5  | 44.2   | 39.5   | 39.9   | 34.9   | 34.6   | 42.3   |  |
| G150.0 | 42.9 | 44.3  | 42.9  | 45.1   | 39.5   | 41.0   | 35.4   | 36.0   | 42.9   |  |
| G151.0 | 44.0 | 45.0  | 44.1  | 45.6   | 40.3   | 41.0   | 36.3   | 36.9   | 44.0   |  |
| G152.0 | 44.7 | 45.2  | 45.2  | 46.0   | 41.2   | 42.1   | 37.2   | 37.2   | 44.7   |  |
| G153.0 | 45.3 | 46.1  | 45.6  | 47.4   | 41.2   | 42.1   | 37.8   | 38.3   | 45.3   |  |
| G154.0 | 46.0 | 46.6  | 46.7  | 47.6   | 42.3   | 43.0   | 38.7   | 38.7   | 46.0   |  |
| G155.0 | 46.4 | 47.4  | 46.7  | 48.3   | 42.7   | 43.9   | 39.4   | 39.4   | 46.4   |  |
| G156.0 | 46.8 | 48.1  | 47.2  | 48.8   | 43.2   | 44.3   | 40.1   | 39.6   | 46.8   |  |
| G157.0 | 47.5 | 48.1  | 47.8  | 49.0   | 44.0   | 45.4   | 40.7   | 40.8   | 47.5   |  |
| G158.0 | 48.1 | 48.8  | 48.5  | 49.5   | 44.9   | 46.6   | 42.1   | 41.7   | 48.1   |  |
| G159.0 | 48.4 | 49.4  | 49.0  | 50.1   | 45.5   | 46.1   | 43.4   | 42.6   | 48.4   |  |
| G160.0 | 47.9 | 49.9  | 49.2  | 50.1   | 46.0   | 46.3   | 42.7   | 43.5   | 47.9   |  |
| G161.0 | 49.7 | 50.5  | 50.3  | 50.8   | 46.8   | 47.7   | 44.5   | 44.0   | 49.7   |  |
| G162.0 | 49.9 | 51.0  | 50.5  | 50.1   | 47.5   | 47.9   | 45.0   | 44.2   | 49.9   |  |
| G163.0 | 50.5 | 51.2  | 50.7  | 50.8   | 48.1   | 48.8   | 45.6   | 44.7   | 50.5   |  |
| G164.0 | 50.7 | 51.0  | 51.2  | 51.5   | 48.1   | 49.4   | 46.3   | 45.8   | 50.7   |  |
| G165.0 | 52.0 | 51.6  | 51.6  | 51.3   | 48.4   | 50.7   | 46.7   | 46.3   | 52.0   |  |
| G166.0 | 52.3 | 52.1  | 51.9  | 52.2   | 48.8   | 50.7   | 47.8   | 46.7   | 52.3   |  |
| G167.0 | 52.7 | 52.9  | 52.1  | 52.2   | 49.7   | 52.3   | 48.5   | 47.4   | 52.7   |  |
| G168.0 | 52.9 | 52.9  | 52.7  | 53.3   | 50.5   | 52.5   | 48.7   | 48.3   | 52.9   |  |
| G169.0 | 51.6 | 53.4  | 53.0  | 53.1   | 50.5   | 52.5   | 49.2   | 48.3   | 51.6   |  |
| G170.0 | 52.7 | 54.0  | 53.4  | 53.8   | 50.9   | 53.6   | 50.7   | 49.7   | 52.7   |  |
| G171.0 | 53.3 | 54.0  | 53.6  | 54.2   | 51.8   | 53.8   | 51.2   | 49.0   | 53.3   |  |
| G172.0 | 53.8 | 54.9  | 53.8  | 54.0   | 52.0   | 54.7   | 51.9   | 50.6   | 53.8   |  |
| G173.0 | 54.4 | 55.1  | 54.1  | 54.2   | 52.9   | 55.1   | 53.0   | 51.7   | 54.4   |  |
| G174.0 | 54.4 | 55.1  | 53.8  | 54.0   | 52.5   | 54.9   | 53.0   | 52.4   | 54.4   |  |
| G175.0 | 55.1 | 55.6  | 53.6  | 54.0   | 52.9   | 55.4   | 53.8   | 53.3   | 55.1   |  |
| G176.0 | 55.3 | 55.6  | 53.8  | 54.5   | 53.6   | 56.3   | 54.1   | 54.0   | 55.3   |  |
| G177.0 | 55.3 | 55.8  | 53.6  | 54.0   | 53.8   | 56.3   | 54.1   | 55.1   | 55.3   |  |
| G178.0 | 55.7 | 56.5  | 53.8  | 54.0   | 53.8   | 56.5   | 55.0   | 55.4   | 55.7   |  |
| G179.0 | 55.7 | 56.3  | 54.1  | 54.2   | 53.8   | 57.1   | 55.4   | 55.1   | 55.7   |  |
| G180.0 | 56.6 | 56.7  | 53.2  | 54.5   | 54.0   | 57.4   | 56.1   | 56.5   | 56.6   |  |
|        |      |       |       |        |        |        |        |        |        |  |
|        |      |       |       |        |        |        |        |        |        |  |
|        |      |       |       |        |        |        |        |        |        |  |
|        |      |       |       |        |        |        |        |        |        |  |

C Plane (°):0.0-360.0: 45.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.598 m  
Humidity: 65  
Inspector: