

Report No.:

Test Time: 2016-11-8 14:22

## Luminaire Property

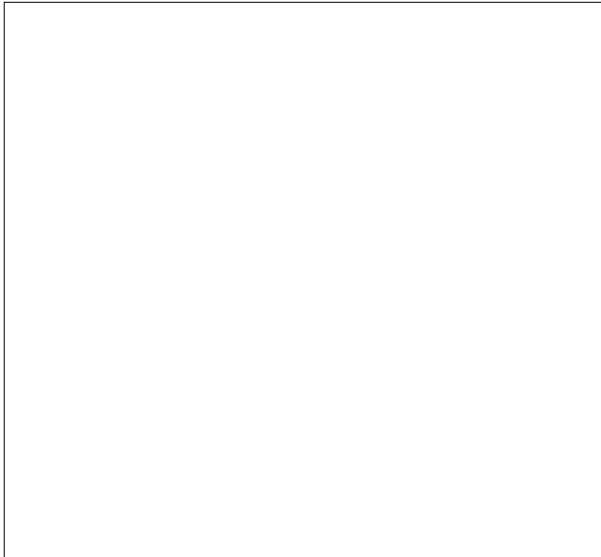
Luminaire Manufacturer: P.Q.L., Inc.  
 Luminaire Description: 83224, 83225  
 Current: 0.205 A  
 Power Factor: 0.995

Voltage: 120.4 V  
 Power: 24.60 W

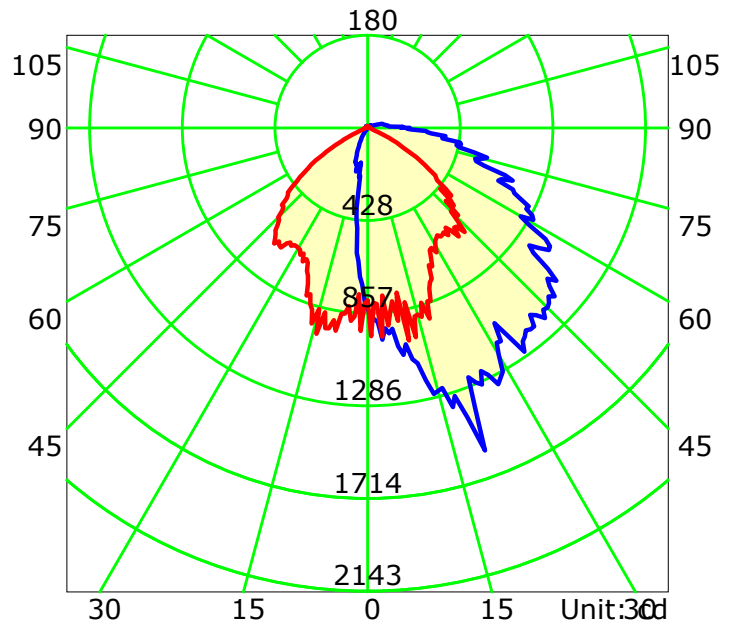
## Photometric Results

|  |                                    |
|--|------------------------------------|
| CIE Class: Direct  | Total Rated Lamp Lumens: 2424.3 lm |
| Measurement Flux: 2424.3 lm                                      | Efficiency: 100%                   |
| Downward Ratio: 97%  | Upward Ratio: 3%                   |
| Horizontal Diffuse Angle(10%,50%,75%,100%): H118,H71.9,H47.2,H20 |                                    |
| Vertical Diffuse Angle(10%,50%,75%,100%): V130.5,V98.5,V45.2,V25 |                                    |
| Luminaire Efficacy Rating (LER): 98.60                           | Central Intensity: 839.14 cd       |
| Max. Intensity: 1588.49 cd                                       | Pos of Max. Intensity: H0 V20      |
| S/MH(C0/C180): 1.15  | S/MH(C90/C270): 1.19               |

Picture Of Luminaire



Luminous Intensity Distribution Curve



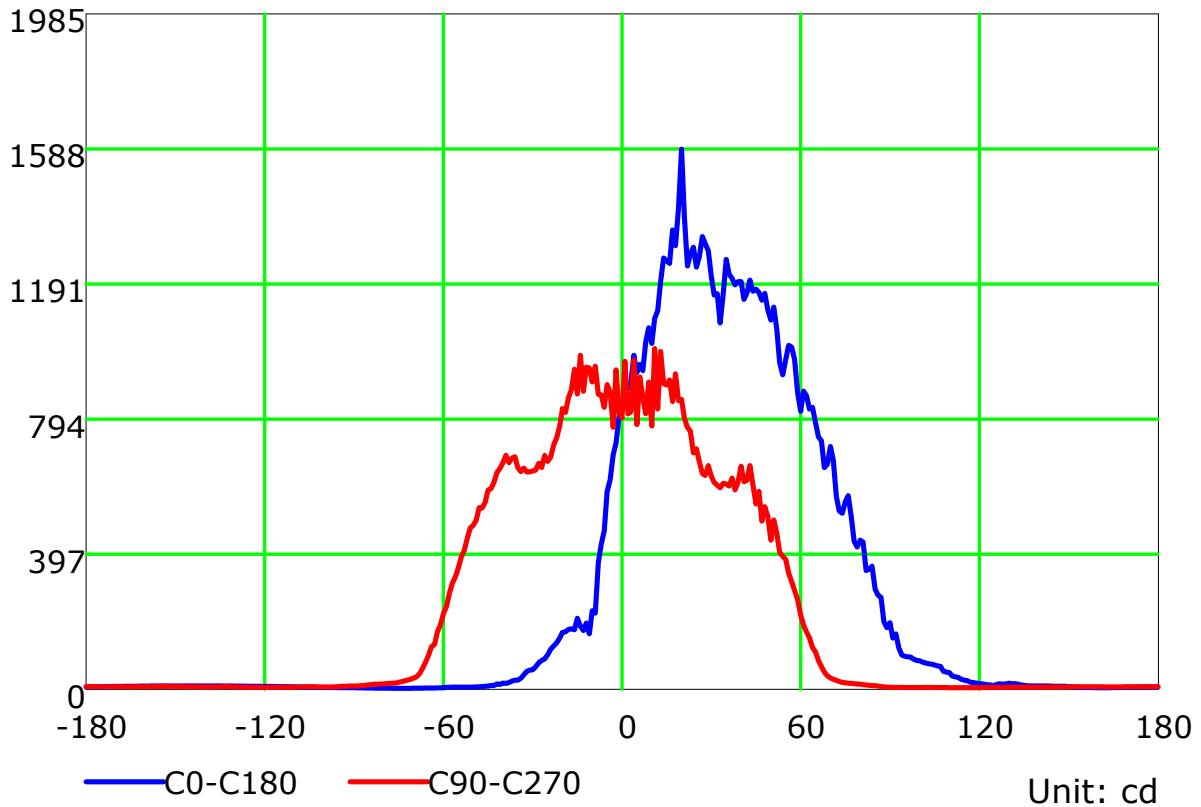
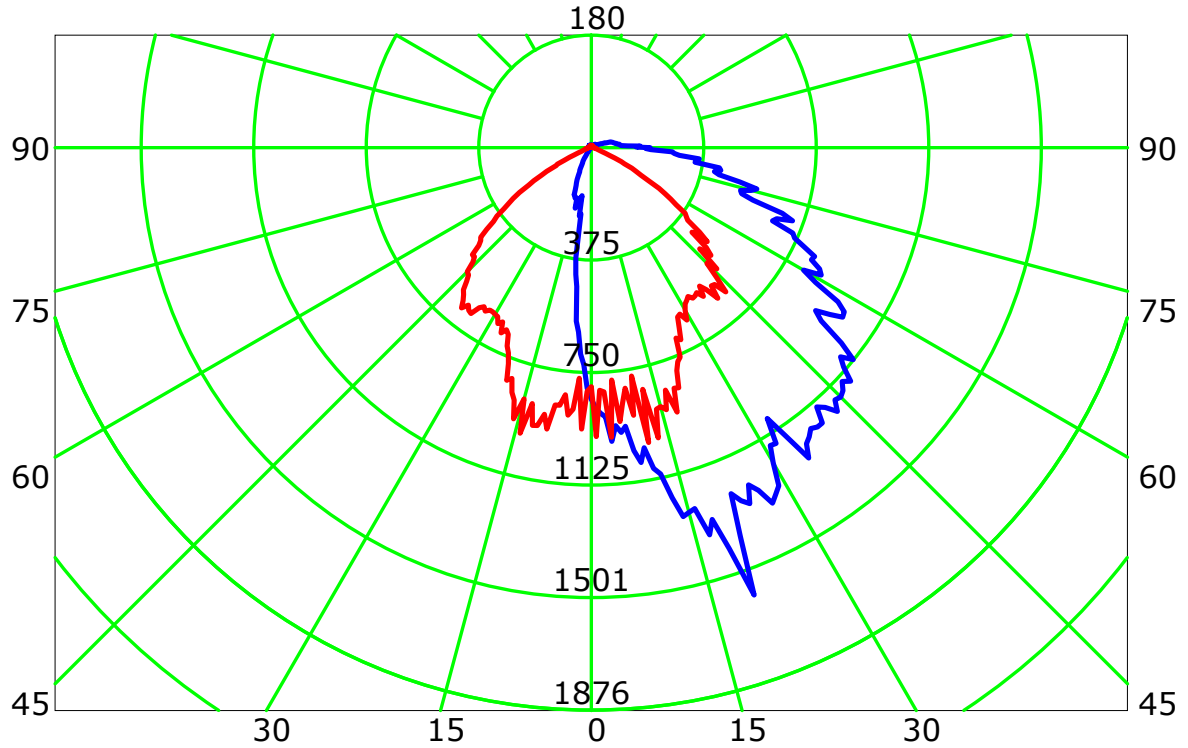
Average Diffuse Angle(50%): 81.9°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

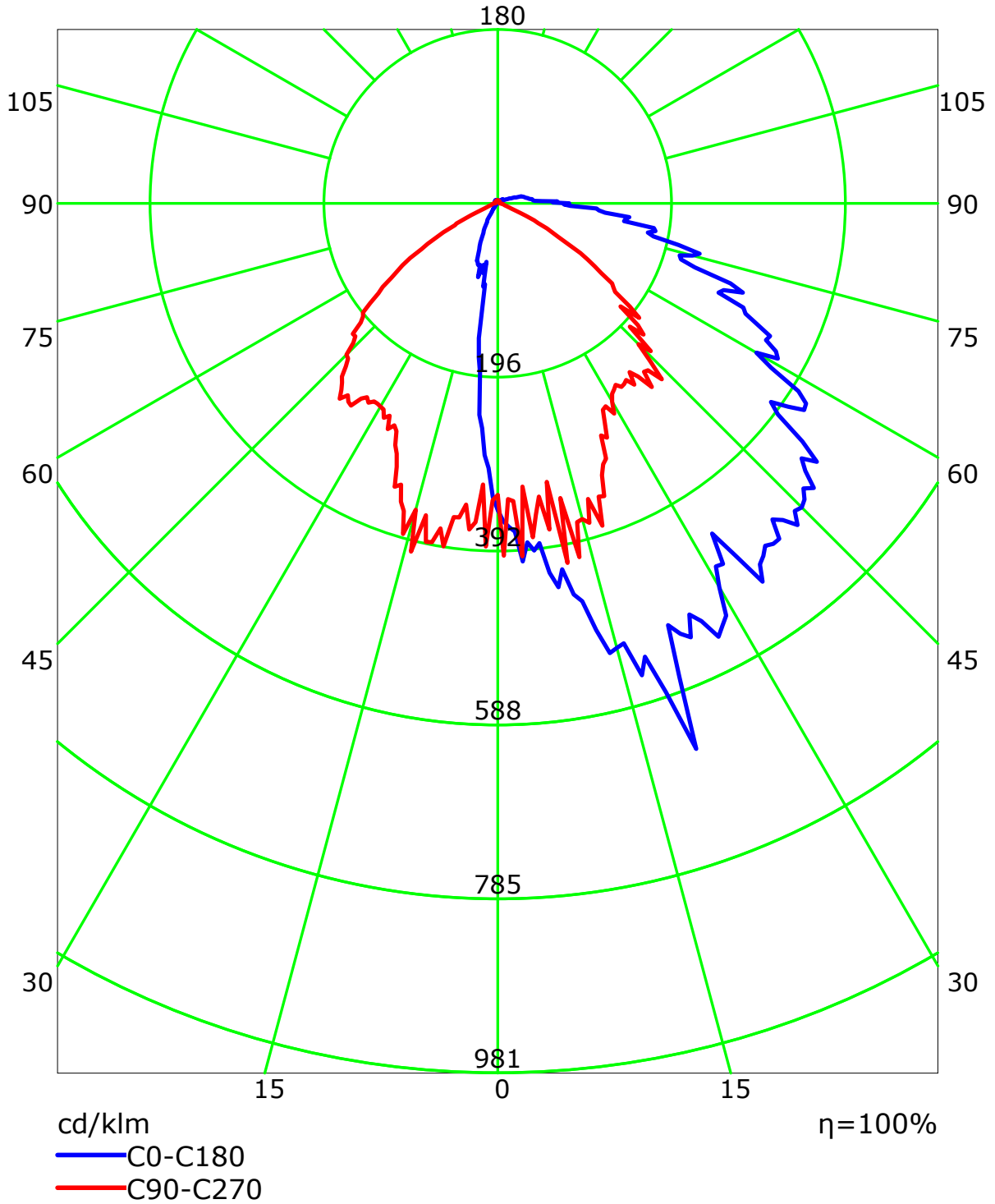
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



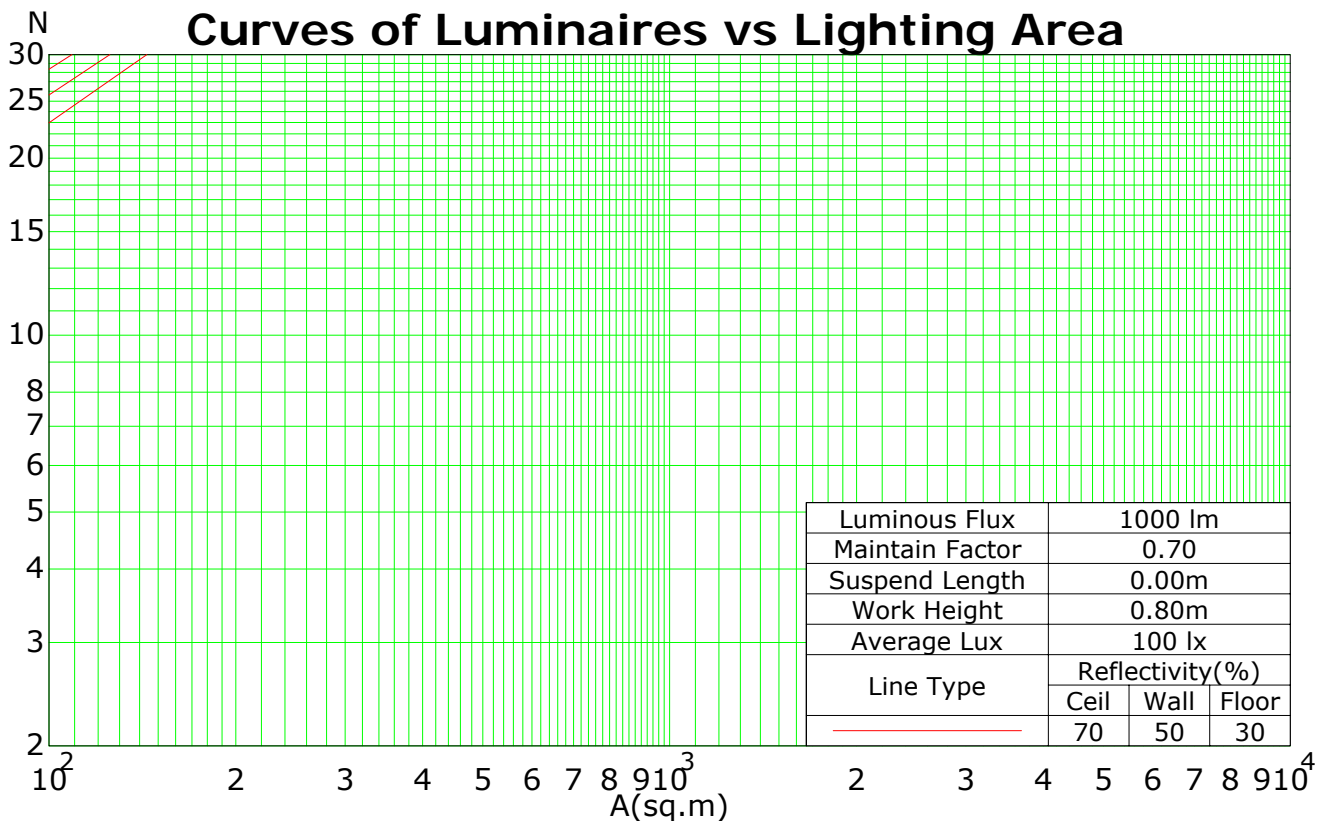
C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 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  |
| RCCR | RF = 0.2 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
| 0    | 118      | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99  | 99  | 99  | 97 |
| 1    | 107      | 102 | 98  | 94  | 104 | 100 | 95  | 92  | 95  | 91  | 88  | 90  | 87  | 85  | 86  | 84  | 82  | 79 |
| 2    | 97       | 89  | 82  | 76  | 94  | 87  | 80  | 75  | 82  | 77  | 72  | 79  | 74  | 70  | 75  | 71  | 68  | 66 |
| 3    | 89       | 78  | 69  | 63  | 86  | 76  | 68  | 62  | 72  | 66  | 60  | 69  | 64  | 59  | 66  | 61  | 57  | 55 |
| 4    | 81       | 69  | 60  | 53  | 78  | 67  | 59  | 52  | 64  | 57  | 51  | 62  | 55  | 50  | 59  | 54  | 49  | 47 |
| 5    | 74       | 61  | 52  | 46  | 72  | 60  | 52  | 45  | 58  | 50  | 44  | 55  | 49  | 44  | 53  | 47  | 43  | 41 |
| 6    | 69       | 55  | 46  | 40  | 67  | 54  | 46  | 39  | 52  | 44  | 39  | 50  | 43  | 38  | 48  | 42  | 38  | 35 |
| 7    | 64       | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 47  | 40  | 34  | 45  | 39  | 34  | 44  | 38  | 33  | 31 |
| 8    | 59       | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 43  | 36  | 31  | 42  | 35  | 30  | 40  | 34  | 30  | 28 |
| 9    | 55       | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 38  | 32  | 27  | 37  | 31  | 27  | 25 |
| 10   | 52       | 39  | 31  | 25  | 50  | 38  | 30  | 25  | 37  | 30  | 25  | 36  | 29  | 25  | 34  | 29  | 24  | 23 |

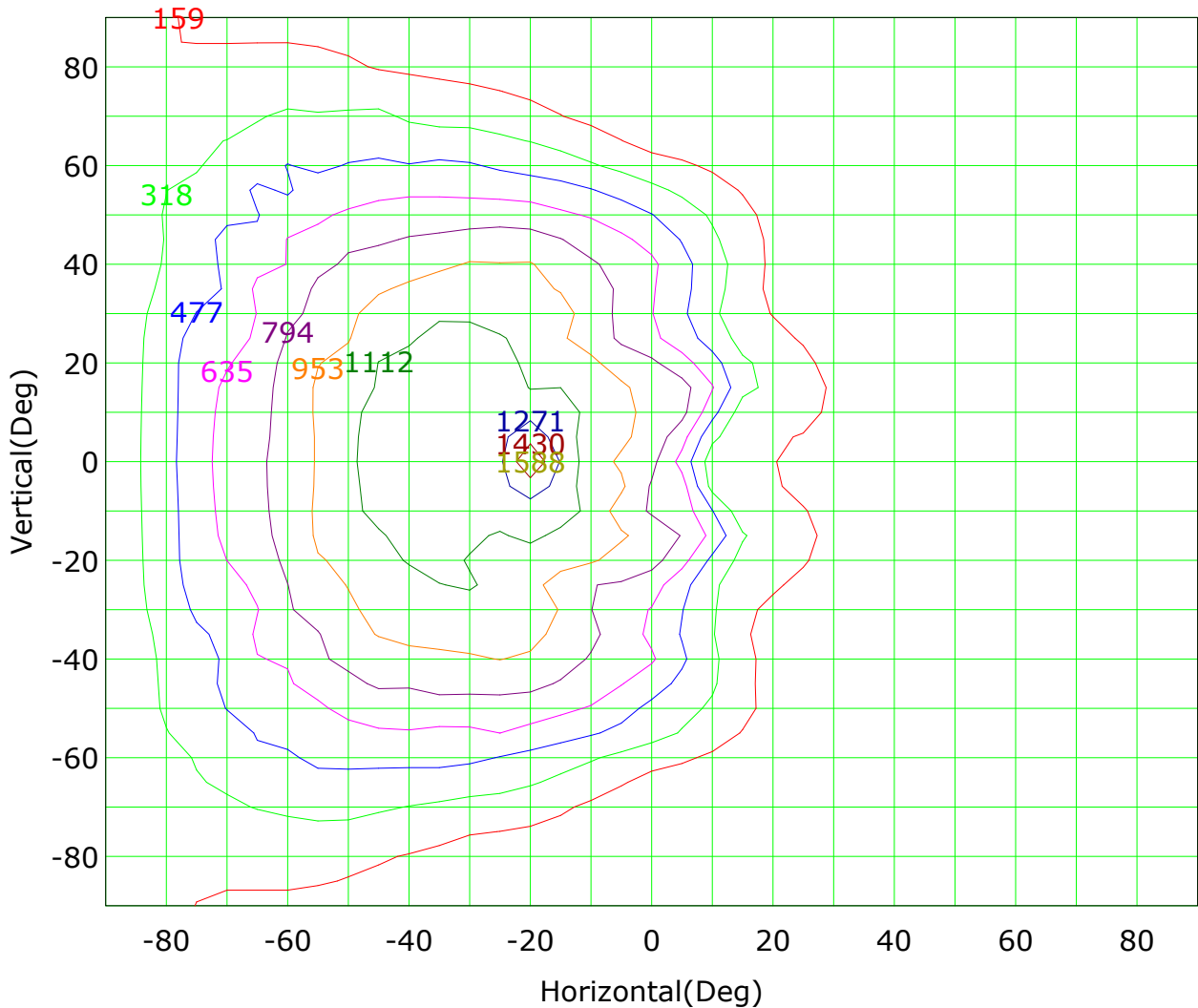
Spacing Criteria (0-180): 1.15  
 Spacing Criteria (90-270): 1.19  
 Spacing Criteria (Diagonal): 1.34



C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

## Isocandela (rectangle)



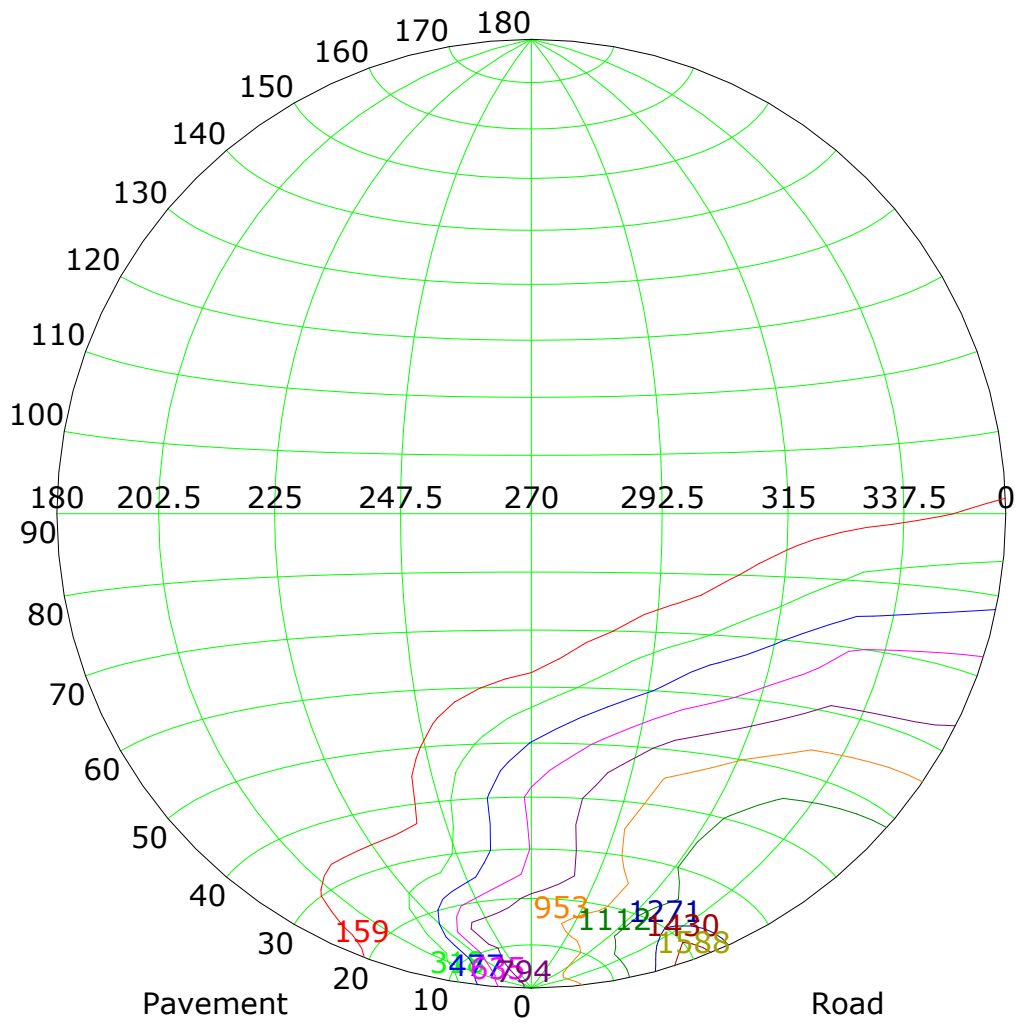
Imax (100%): 1588 cd

|   |   |
|---|---|
| <ul style="list-style-type: none"> <li><span style="color: red;">—</span> ( 10%): 159 cd</li> <li><span style="color: blue;">—</span> ( 30%): 477 cd</li> <li><span style="color: purple;">—</span> ( 50%): 794 cd</li> <li><span style="color: green;">—</span> ( 70%): 1112 cd</li> <li><span style="color: brown;">—</span> ( 90%): 1430 cd</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: lightgreen;">—</span> ( 20%): 318 cd</li> <li><span style="color: magenta;">—</span> ( 40%): 635 cd</li> <li><span style="color: orange;">—</span> ( 60%): 953 cd</li> <li><span style="color: darkblue;">—</span> ( 80%): 1271 cd</li> <li><span style="color: gold;">—</span> (100%): 1588 cd</li> </ul> |
|---|---|

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

## Isocandela (sphere)



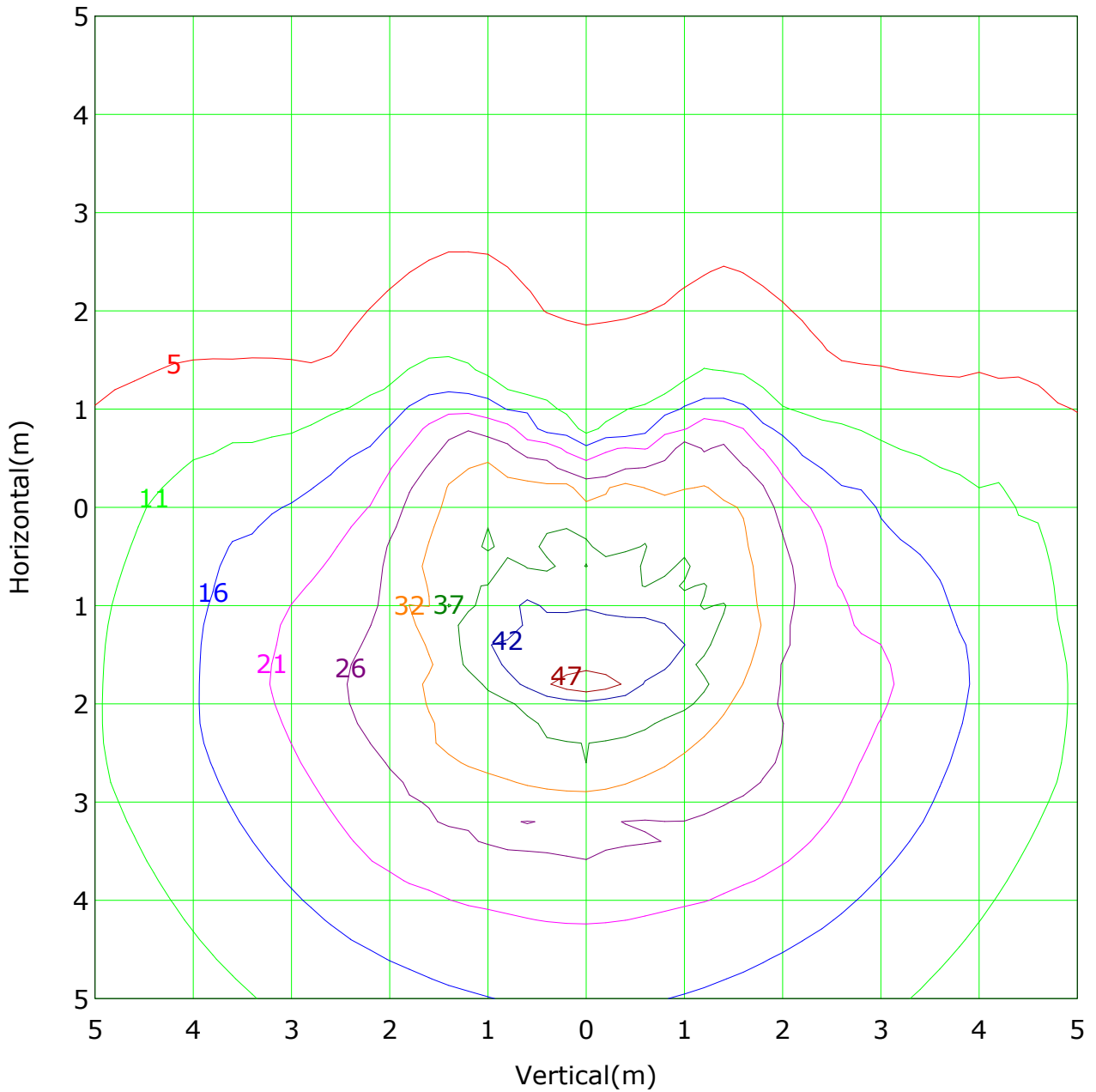
Imax (100%): 1588 cd

|                   |                   |
|-------------------|-------------------|
| — ( 10%): 159 cd  | — ( 20%): 318 cd  |
| — ( 30%): 477 cd  | — ( 40%): 635 cd  |
| — ( 50%): 794 cd  | — ( 60%): 953 cd  |
| — ( 70%): 1112 cd | — ( 80%): 1271 cd |
| — ( 90%): 1430 cd | — (100%): 1588 cd |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

# IsoLux Plot

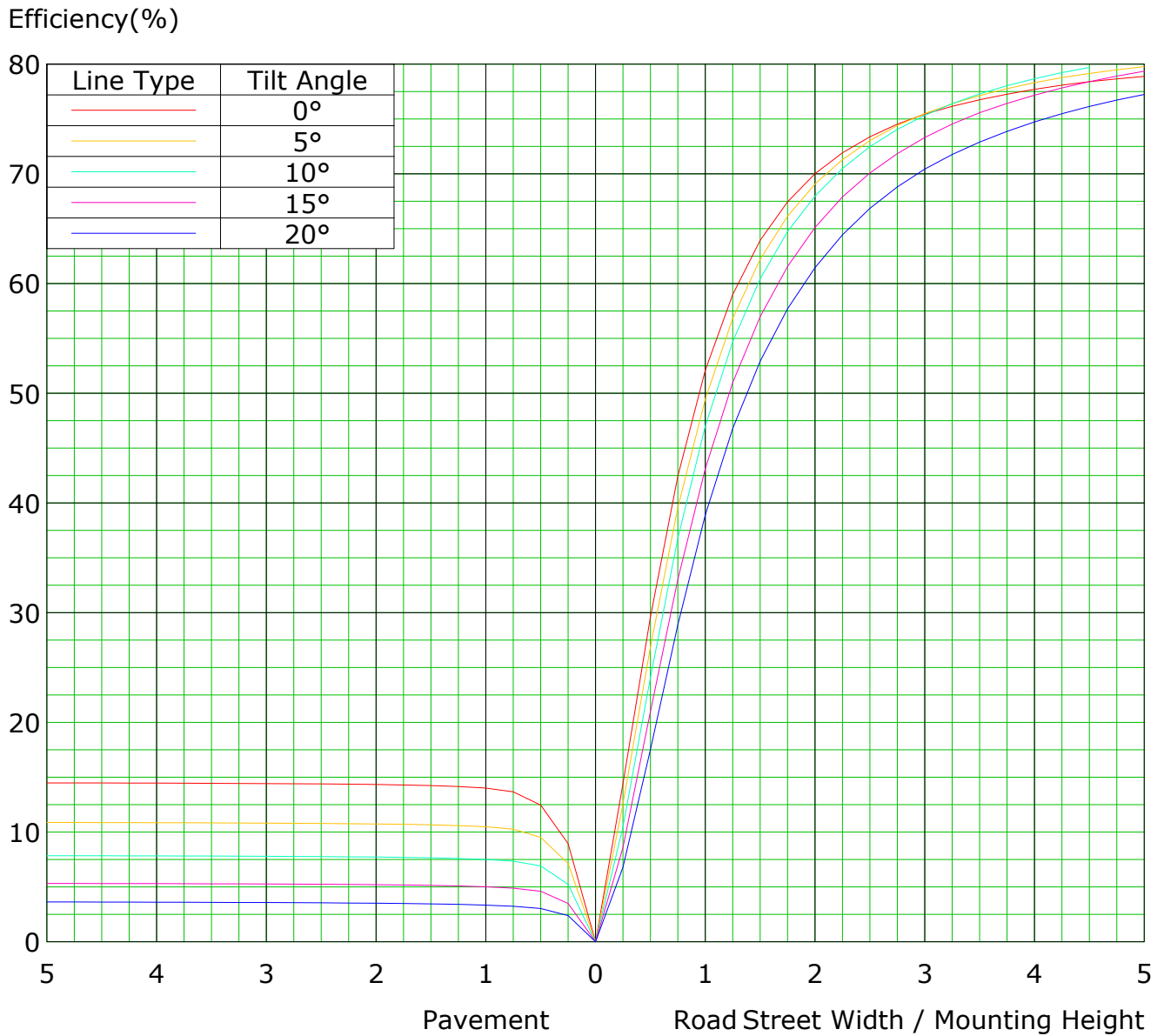


|                       |         |                        |
|-----------------------|---------|------------------------|
| Mounting Height: 5.0m |         | Max Lux(100%): 52.7 lx |
| — ( 10%):             | 5.3 lx  | — ( 20%): 10.5 lx      |
| — ( 30%):             | 15.8 lx | — ( 40%): 21.1 lx      |
| — ( 50%):             | 26.4 lx | — ( 60%): 31.6 lx      |
| — ( 70%):             | 36.9 lx | — ( 80%): 42.2 lx      |
| — ( 90%):             | 47.5 lx | — (100%): 52.7 lx      |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

## Roadway CU Curve



C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

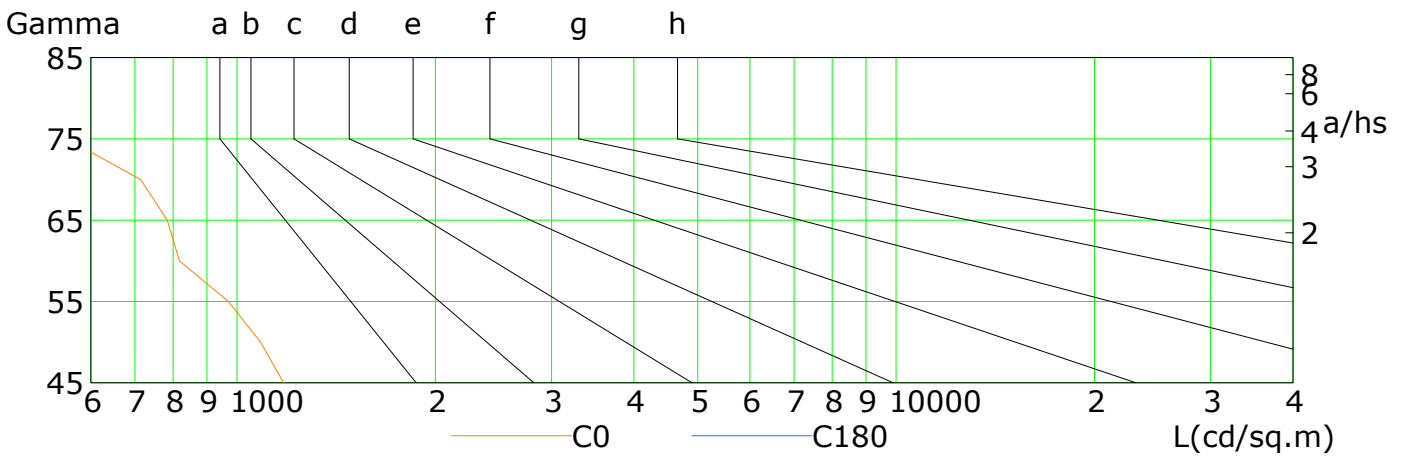
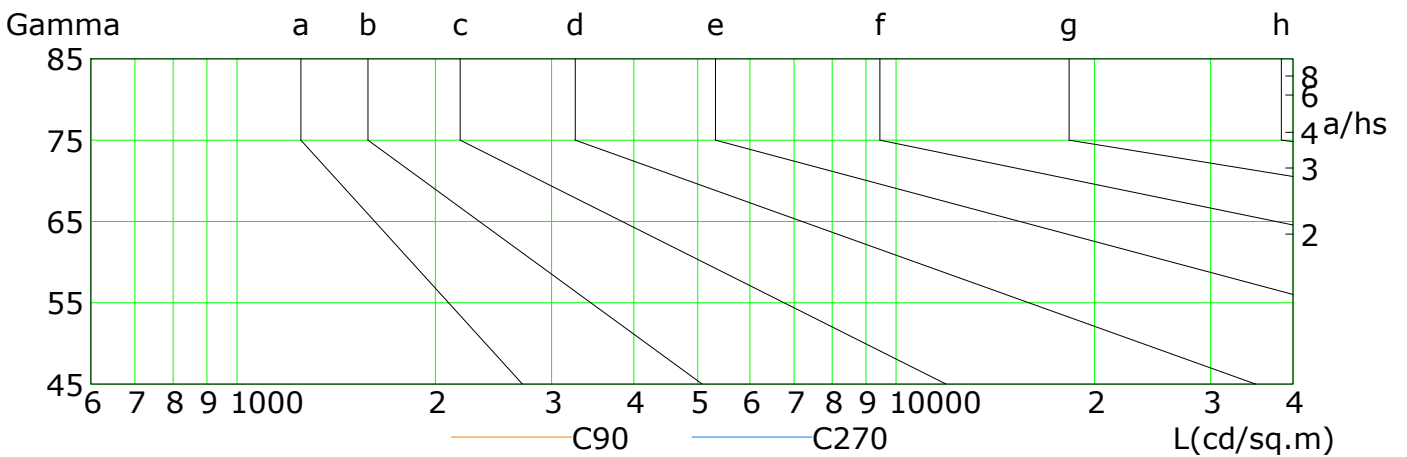
Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:



## Lum Limit Curve

| Dazzle | Quality | Illuminance (lx) |      |      |       |       |       |       |       |
|--------|---------|------------------|------|------|-------|-------|-------|-------|-------|
|        |         | 2000             | 1000 | 500  | <=300 |       |       |       |       |
| 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 |

a      b      c      d      e      f      g      h

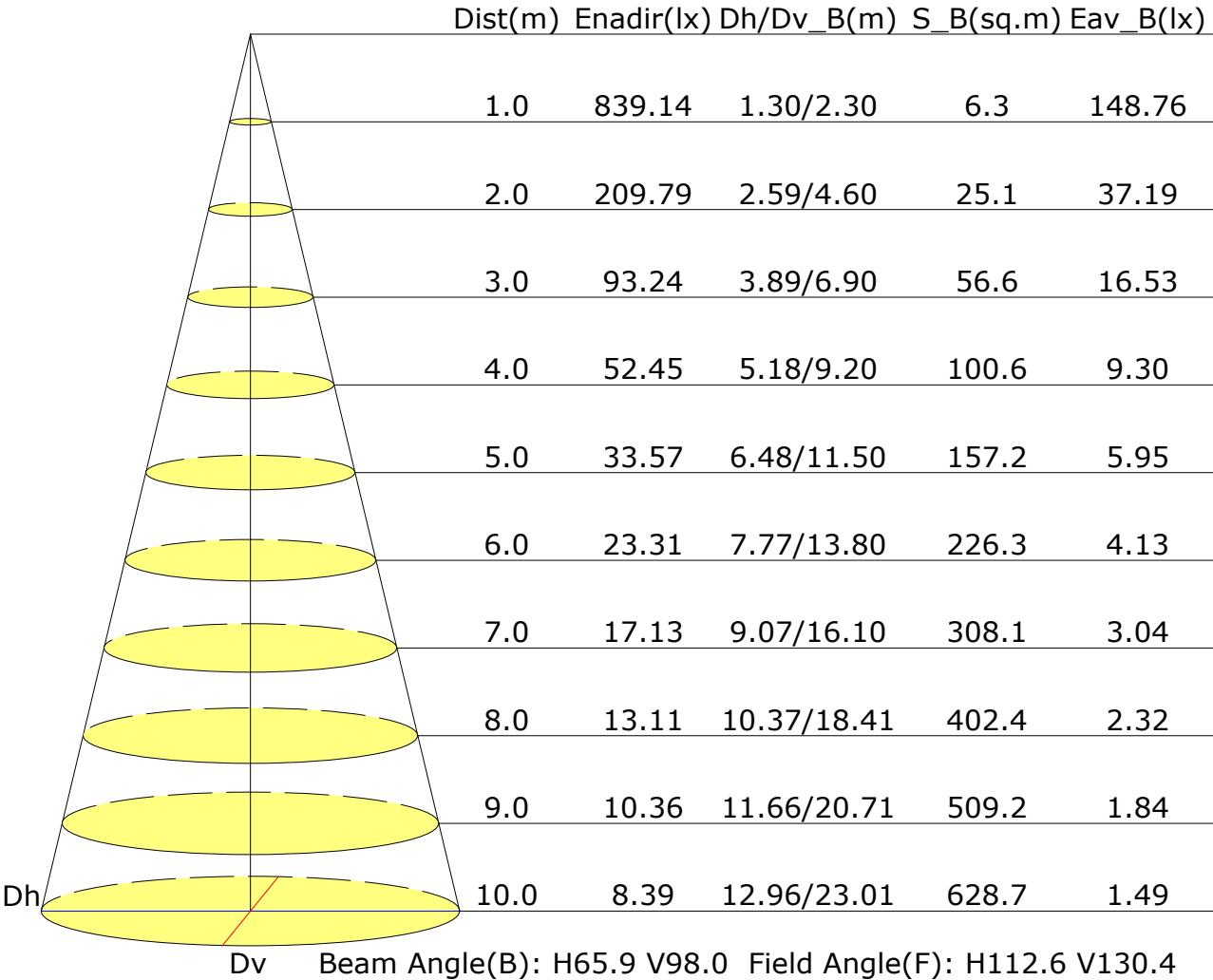


| L(cd/sq.m) | G45  | G50  | G55 | G60 | G65 | G70 | G75 | G80 | G85 |
|------------|------|------|-----|-----|-----|-----|-----|-----|-----|
| C0         | 1177 | 1086 | 971 | 818 | 784 | 714 | 552 | 439 | 295 |
| C90        | 545  | 439  | 382 | 219 | 110 | 34  | 19  | 15  | 11  |
| C180       | 10   | 7    | 6   | 5   | 4   | 3   | 3   | 3   | 4   |
| C270       | 586  | 482  | 356 | 222 | 100 | 33  | 21  | 16  | 14  |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

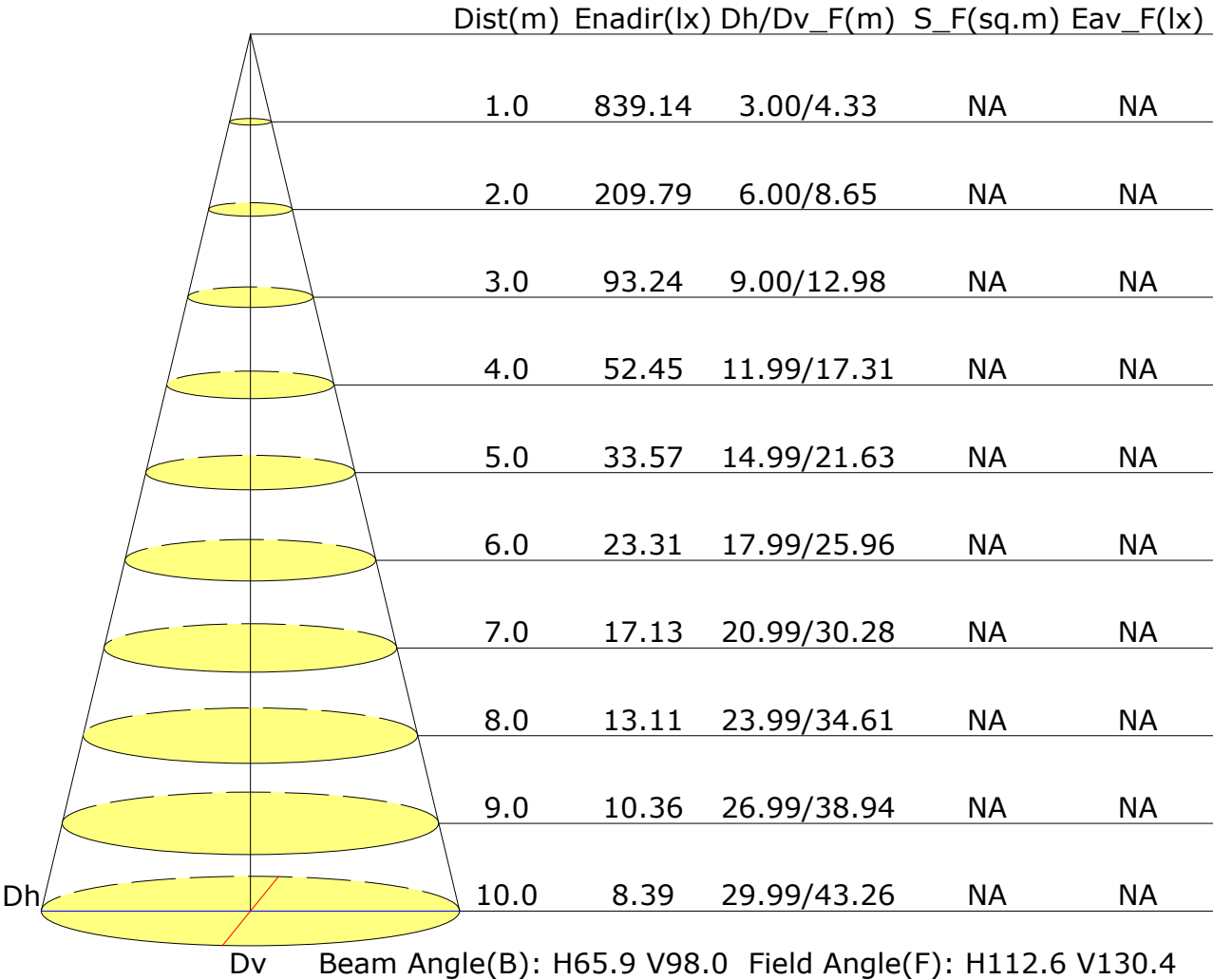
# Illuminance at a Distance(Beam Angle)



C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

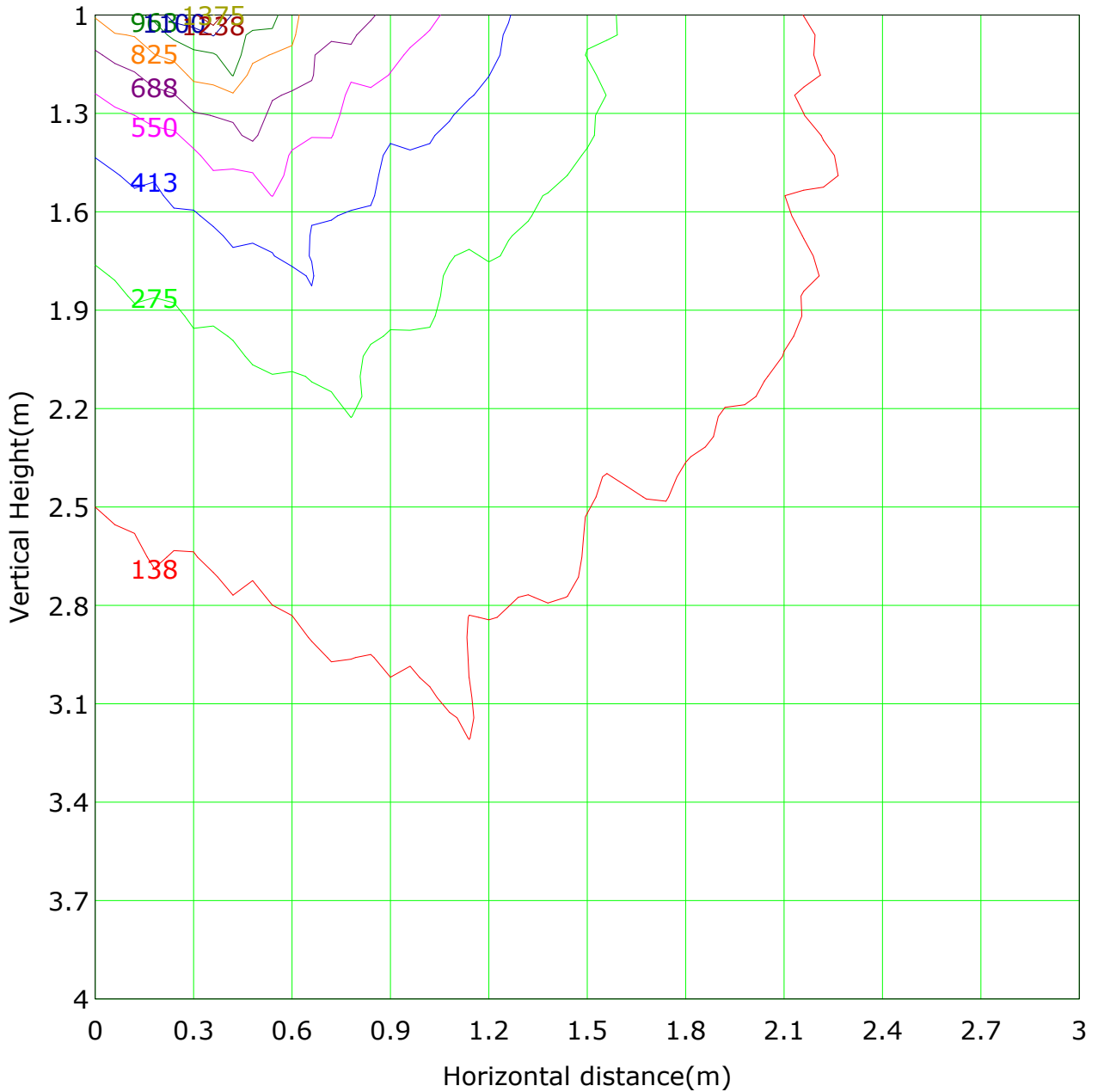
## Illuminance at a Distance(Field Angle)



C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

## Vertical IsoLux Plot



|                     |                     |                      |
|---------------------|---------------------|----------------------|
| Lowest(m): 1.0m     | Highest(m): 4.0m    | Max Lux: 1375.4 lx   |
| — ( 10%): 137.5 lx  | — ( 20%): 275.1 lx  | — ( 40%): 550.1 lx   |
| — ( 30%): 412.6 lx  | — ( 50%): 687.7 lx  | — ( 60%): 825.2 lx   |
| — ( 70%): 962.8 lx  | — ( 80%): 1100.3 lx | — ( 100%): 1375.4 lx |
| — ( 90%): 1237.8 lx |                     |                      |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

### Area Flux Table

Unit: lm

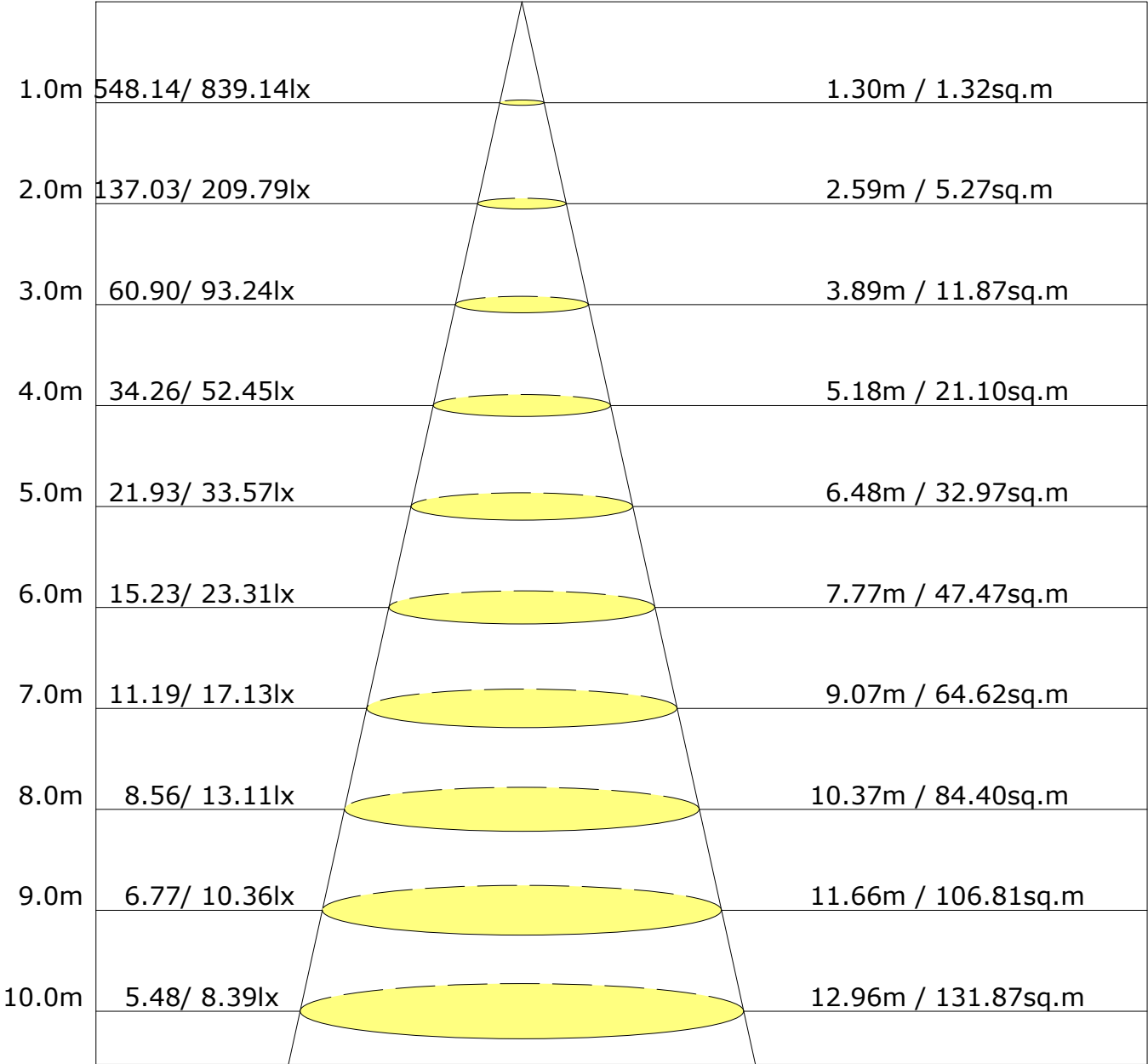
| Vertical plane |     | Horizontal plane |     |     |     |      |      |      |       |       |       |       |       |       |       |       |      |      |      |     |       |       |     |
|----------------|-----|------------------|-----|-----|-----|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-----|-------|-------|-----|
|                |     | -90              | -80 | -70 | -60 | -50  | -40  | -30  | -20   | -10   | 0     | 10    | 20    | 30    | 40    | 50    | 60   | 70   | 80   | 90  |       |       |     |
| Flux(E)        | 0.0 | 0.0              | 0.0 | 0.1 | 0.1 | 0.1  | 0.2  | 0.2  | 0.3   | 0.3   | 0.4   | 0.6   | 1.1   | 1.4   | 1.9   | 2.5   | 2.6  | 2.6  | 2.1  | 1.3 | 0.5   | 15.4  | 4.0 |
|                | 0.0 | 0.0              | 0.0 | 0.1 | 0.1 | 0.1  | 0.2  | 0.3  | 0.4   | 0.5   | 0.6   | 1.6   | 3.3   | 4.3   | 4.9   | 5.2   | 4.6  | 3.4  | 1.9  | 0.5 | 31.9  | 22.5  |     |
|                | 0.0 | 0.0              | 0.0 | 0.1 | 0.1 | 0.2  | 0.4  | 0.5  | 0.7   | 1.1   | 2.7   | 5.0   | 7.8   | 9.5   | 9.6   | 8.6   | 7.1  | 4.7  | 2.3  | 0.6 | 60.8  | 53.6  |     |
|                | 0.0 | 0.0              | 0.0 | 0.1 | 0.1 | 0.2  | 0.5  | 1.1  | 1.9   | 4.4   | 8.8   | 12.8  | 15.4  | 16.1  | 15.0  | 12.7  | 9.5  | 5.9  | 2.8  | 0.7 | 106.1 | 102.0 |     |
|                | 0.0 | 0.0              | 0.0 | 0.1 | 0.1 | 0.2  | 0.7  | 1.9  | 6.8   | 14.0  | 19.9  | 23.2  | 23.5  | 20.6  | 16.9  | 11.9  | 7.0  | 3.2  | 0.8  | 0.8 | 150.7 | 147.1 |     |
|                | 0.0 | 0.0              | 0.0 | 0.1 | 0.1 | 0.2  | 0.7  | 1.9  | 6.8   | 14.0  | 19.9  | 23.2  | 23.5  | 20.6  | 16.9  | 11.9  | 7.0  | 3.2  | 0.8  | 0.8 | 150.7 | 147.1 |     |
|                | 0.0 | 0.0              | 0.0 | 0.1 | 0.1 | 0.2  | 1.0  | 2.7  | 7.0   | 15.7  | 23.1  | 27.6  | 28.2  | 25.4  | 20.2  | 14.0  | 8.0  | 3.6  | 0.8  | 0.8 | 177.8 | 172.8 |     |
|                | 0.0 | 0.0              | 0.0 | 0.1 | 0.1 | 0.2  | 1.1  | 4.0  | 8.3   | 17.1  | 24.0  | 29.0  | 30.9  | 28.5  | 22.6  | 15.5  | 8.9  | 3.8  | 0.8  | 0.8 | 195.1 | 191.4 |     |
|                | 0.0 | 0.0              | 0.1 | 0.1 | 0.1 | 0.3  | 1.7  | 5.9  | 11.1  | 24.1  | 28.7  | 32.2  | 32.7  | 29.6  | 24.1  | 16.4  | 9.6  | 4.1  | 0.9  | 0.9 | 221.5 | 218.8 |     |
|                | 0.0 | 0.0              | 0.1 | 0.1 | 0.1 | 0.3  | 4.1  | 7.0  | 20.4  | 28.9  | 36.1  | 34.6  | 29.6  | 24.8  | 17.1  | 9.9   | 4.3  | 0.9  | 0.9  | 0.9 | 219.5 | 215.7 |     |
|                | 0.0 | 0.0              | 0.1 | 0.1 | 0.1 | 0.3  | 3.7  | 6.3  | 19.0  | 28.4  | 35.9  | 34.5  | 29.3  | 24.7  | 17.1  | 9.9   | 4.3  | 0.9  | 0.9  | 0.9 | 215.7 | 211.5 |     |
|                | 0.0 | 0.0              | 0.1 | 0.1 | 0.1 | 0.2  | 4.9  | 9.7  | 22.9  | 28.7  | 32.5  | 31.3  | 28.7  | 23.8  | 16.4  | 9.6   | 4.1  | 0.9  | 0.9  | 0.9 | 215.3 | 212.7 |     |
|                | 0.0 | 0.0              | 0.1 | 0.1 | 0.1 | 0.2  | 3.3  | 7.1  | 16.4  | 23.7  | 26.9  | 29.4  | 27.6  | 22.3  | 15.5  | 9.0   | 3.9  | 0.9  | 0.9  | 0.9 | 187.2 | 183.7 |     |
|                | 0.0 | 0.0              | 0.0 | 0.1 | 0.1 | 0.2  | 1.9  | 5.9  | 14.3  | 21.5  | 26.7  | 27.5  | 24.8  | 20.3  | 14.1  | 8.1   | 3.7  | 0.8  | 0.8  | 0.8 | 170.8 | 166.6 |     |
|                | 0.0 | 0.0              | 0.0 | 0.1 | 0.1 | 0.2  | 1.5  | 6.2  | 13.6  | 19.6  | 22.9  | 23.2  | 20.7  | 17.0  | 12.1  | 7.2   | 3.3  | 0.8  | 0.8  | 0.8 | 149.2 | 145.6 |     |
|                | 0.0 | 0.0              | 0.0 | 0.1 | 0.1 | 0.2  | 0.6  | 1.5  | 6.2   | 13.6  | 19.6  | 22.9  | 23.2  | 20.7  | 17.0  | 12.1  | 7.2  | 3.3  | 0.8  | 0.8 | 149.2 | 145.6 |     |
|                | 0.0 | 0.0              | 0.0 | 0.1 | 0.1 | 0.2  | 0.6  | 1.5  | 6.2   | 13.6  | 19.6  | 22.9  | 23.2  | 20.7  | 17.0  | 12.1  | 7.2  | 3.3  | 0.8  | 0.8 | 149.2 | 145.6 |     |
|                | 0.0 | 0.0              | 0.0 | 0.1 | 0.1 | 0.2  | 0.5  | 1.2  | 4.5   | 9.0   | 13.1  | 15.8  | 16.6  | 15.4  | 13.0  | 10.1  | 6.1  | 2.9  | 0.7  | 0.7 | 109.2 | 105.1 |     |
|                | 0.0 | 0.0              | 0.0 | 0.1 | 0.1 | 0.2  | 0.8  | 1.6  | 2.8   | 5.2   | 8.2   | 10.0  | 10.1  | 9.2   | 7.6   | 4.9   | 2.4  | 0.6  | 0.6  | 0.6 | 64.2  | 57.0  |     |
|                | 0.0 | 0.0              | 0.0 | 0.1 | 0.1 | 0.2  | 0.4  | 0.5  | 0.6   | 0.6   | 1.7   | 3.4   | 4.5   | 5.2   | 5.5   | 4.9   | 3.5  | 1.9  | 0.5  | 0.5 | 33.6  | 24.3  |     |
|                | 0.0 | 0.0              | 0.1 | 0.1 | 0.1 | 0.2  | 0.4  | 0.5  | 0.6   | 0.6   | 1.7   | 3.4   | 4.5   | 5.2   | 5.5   | 4.9   | 3.5  | 1.9  | 0.5  | 0.5 | 33.6  | 24.3  |     |
| Flux(T)        | 0.2 | 0.5              | 0.9 | 1.6 | 3.8 | 13.2 | 39.2 | 89.3 | 202.8 | 287.0 | 348.9 | 359.6 | 328.9 | 276.1 | 199.4 | 120.2 | 55.2 | 13.0 | 2340 |     |       |       |     |
| Flux(E)        | 0.0 | 0.0              | 0.0 | 0.0 | 0.0 | 0.0  | 15.8 | 76.1 | 196.1 | 279.3 | 341.2 | 353.4 | 323.4 | 271.5 | 197.2 | 118.6 | 54.4 | 13.0 | 2240 |     |       |       |     |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

# The Average Illuminance Effective Figure

Flux Out: 722.82lm



Height Avg./Nadir. E Beam Angle: 65.9° Diameter / Area

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

### UGR Table

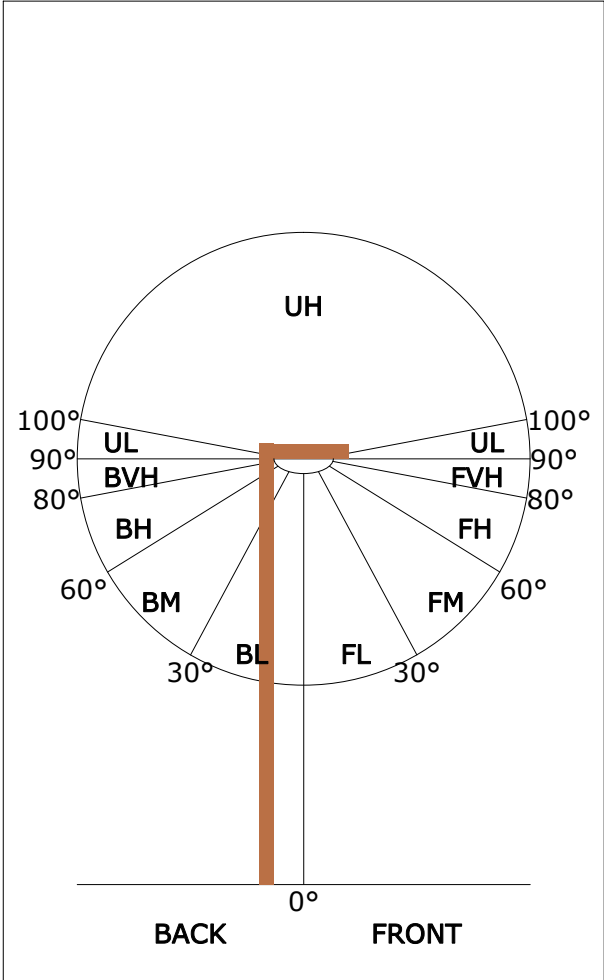
|  |                  |       |       |       |       |                |       |       |       |       |
|--|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Reflectance:                                       |                  |       |       |       |       |                |       |       |       |       |
| 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  $2424Im (8\log(F/F_0) = 3.1)$ .

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

**FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM**



| ZONE                 | LUMENS      | % LAMP LUMENS |
|----------------------|-------------|---------------|
| <b>FORWARD LIGHT</b> | <b>1989</b> | <b>82.0</b>   |
| FL ( 0°-30°)         | 438         | 18.1          |
| FM (30°-60°)         | 1040        | 42.9          |
| FH (60°-80°)         | 431         | 17.8          |
| FVH (80°-90°)        | 80          | 3.3           |
| <b>BACK LIGHT</b>    | <b>352</b>  | <b>14.5</b>   |
| BL ( 0°-30°)         | 179         | 7.4           |
| BM (30°-60°)         | 149         | 6.2           |
| BH (60°-80°)         | 20          | 0.8           |
| BVH (80°-90°)        | 4           | 0.2           |
| <b>UP LIGHT</b>      | <b>84</b>   | <b>3.5</b>    |
| UL (90°-100°)        | 33          | 1.4           |
| UH (100°-180°)       | 51          | 2.1           |
| <b>TRAPPED LIGHT</b> | <b>NA</b>   | <b>NA</b>     |

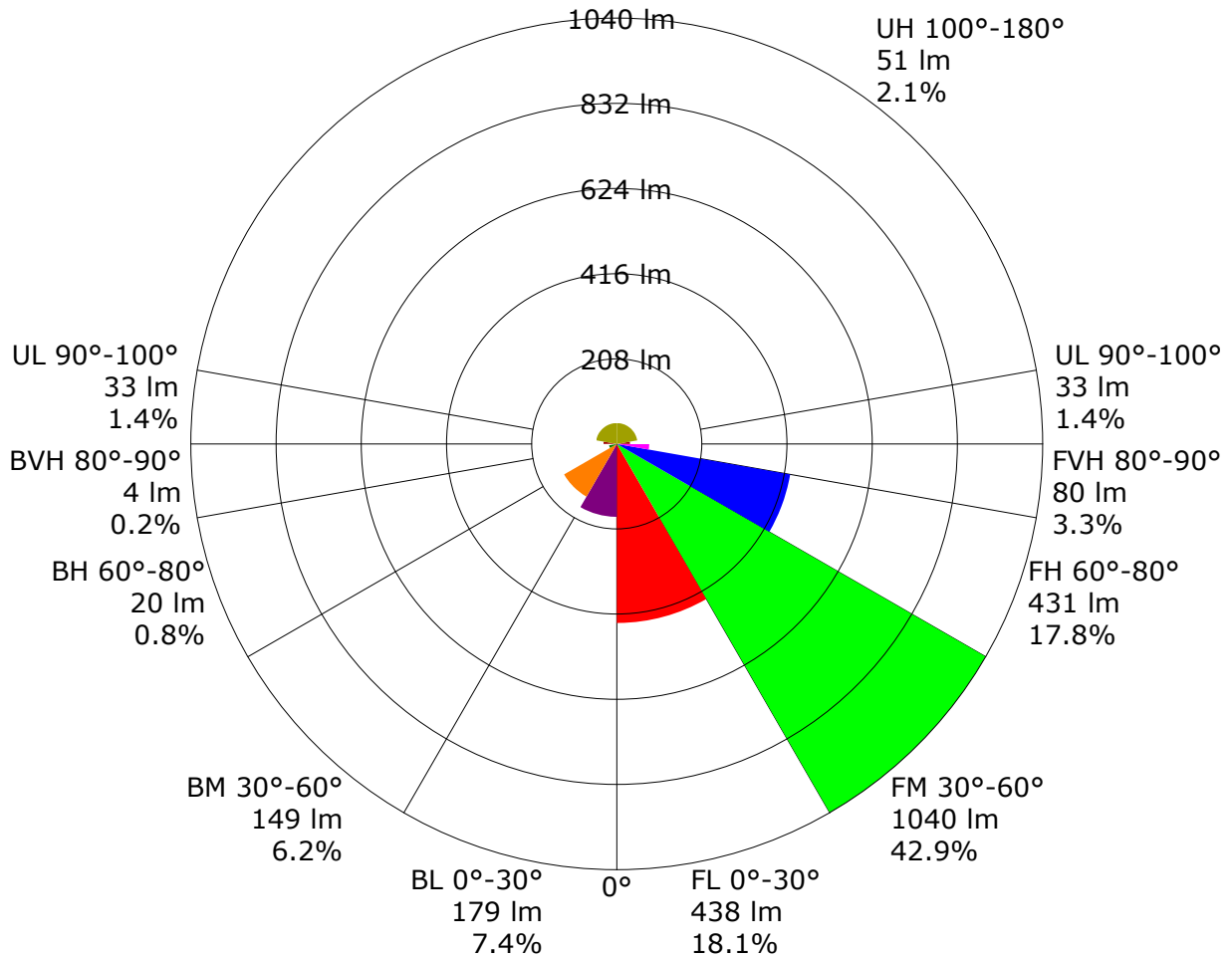
| <b>BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07</b>      |          |
|--|----------|
| Asymmetrical Luminaire Types<br>(Type I,II,III,IV)               | B1 U2 G1 |
| Quadrilateral Symmetrical Luminaire Types<br>(Type V,Area Light) | B1 U2 G1 |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:



## LCS Graph



**Back Light**

**Forward Light**

Scale= 1040 lm

Trapped Light:NA,NA

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

## Utilisation Factor Table(Floor cavity)

| Utilisation Factors UF(F)  |      |       | SHR NOM = 1.25 |      |      |      |      |      |      |      |      |  |
|--|------|-------|----------------|------|------|------|------|------|------|------|------|--|
| Room Reflectance   |      |       | Room Index(RI) |      |      |      |      |      |      |      |      |  |
| Ceiling  | Wall | Floor | 0.75           | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |  |
| 0.70   | 0.50 | 0.20  | 0.54           | 0.64 | 0.72 | 0.77 | 0.84 | 0.90 | 0.93 | 0.98 | 1.01 |  |
|  | 0.30 |       | 0.46           | 0.57 | 0.64 | 0.70 | 0.78 | 0.84 | 0.88 | 0.93 | 0.97 |  |
|  | 0.20 |       | 0.40           | 0.51 | 0.58 | 0.64 | 0.73 | 0.79 | 0.83 | 0.89 | 0.93 |  |
| 0.50   | 0.50 | 0.20  | 0.52           | 0.62 | 0.69 | 0.74 | 0.81 | 0.85 | 0.89 | 0.93 | 0.96 |  |
|  | 0.30 |       | 0.45           | 0.55 | 0.62 | 0.68 | 0.75 | 0.81 | 0.84 | 0.89 | 0.93 |  |
|  | 0.20 |       | 0.40           | 0.50 | 0.57 | 0.63 | 0.71 | 0.76 | 0.80 | 0.86 | 0.90 |  |
| 0.30   | 0.50 | 0.20  | 0.51           | 0.60 | 0.66 | 0.71 | 0.77 | 0.82 | 0.85 | 0.89 | 0.91 |  |
|  | 0.30 |       | 0.44           | 0.54 | 0.61 | 0.66 | 0.73 | 0.78 | 0.81 | 0.86 | 0.89 |  |
|  | 0.20 |       | 0.39           | 0.49 | 0.56 | 0.61 | 0.69 | 0.74 | 0.78 | 0.83 | 0.86 |  |
| 0.00   | 0.00 | 0.00  | 0.37           | 0.46 | 0.53 | 0.58 | 0.65 | 0.70 | 0.73 | 0.78 | 0.81 |  |
| <p>Rating:25W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p> |      |       |                |      |      |      |      |      |      |      |      |  |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

## Utilisation Factor Table(Wall)

| Utilisation Factors UF(W)  |      |       | SHR NOM = 1.25 |      |      |      |      |      |      |      |      |  |
|--|------|-------|----------------|------|------|------|------|------|------|------|------|--|
| Room Reflectance   |      |       | Room Index(RI) |      |      |      |      |      |      |      |      |  |
| Ceiling  | Wall | Floor | 0.75           | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |  |
| 0.70   | 0.50 | 0.20  | 1.01           | 0.84 | 0.72 | 0.63 | 0.51 | 0.42 | 0.37 | 0.29 | 0.24 |  |
|  | 0.30 |       | 0.85           | 0.72 | 0.63 | 0.56 | 0.46 | 0.39 | 0.34 | 0.27 | 0.22 |  |
|  | 0.20 |       | 0.72           | 0.63 | 0.56 | 0.50 | 0.42 | 0.36 | 0.32 | 0.25 | 0.21 |  |
| 0.50   | 0.50 | 0.20  | 0.97           | 0.80 | 0.69 | 0.60 | 0.48 | 0.43 | 0.35 | 0.27 | 0.22 |  |
|  | 0.30 |       | 0.82           | 0.70 | 0.61 | 0.54 | 0.44 | 0.37 | 0.32 | 0.26 | 0.21 |  |
|  | 0.20 |       | 0.71           | 0.62 | 0.54 | 0.49 | 0.41 | 0.35 | 0.30 | 0.24 | 0.21 |  |
| 0.30   | 0.50 | 0.20  | 0.94           | 0.77 | 0.66 | 0.57 | 0.46 | 0.38 | 0.33 | 0.26 | 0.21 |  |
|  | 0.30 |       | 0.80           | 0.68 | 0.59 | 0.52 | 0.42 | 0.36 | 0.31 | 0.25 | 0.21 |  |
|  | 0.20 |       | 0.70           | 0.60 | 0.53 | 0.47 | 0.39 | 0.34 | 0.29 | 0.24 | 0.20 |  |
| 0.00   | 0.00 | 0.00  | 0.60           | 0.50 | 0.44 | 0.39 | 0.32 | 0.27 | 0.23 | 0.19 | 0.15 |  |
| <p>Rating:25W Photometrically tested without ceiling board.<br/>           Multiply UF values by service correction factors<br/>           Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p> |      |       |                |      |      |      |      |      |      |      |      |  |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

## Utilisation Factor Table(Ceiling cavity)

| Utilisation Factors UF(C)  |      |       | SHR NOM = 1.25 |      |      |      |      |      |      |      |      |  |
|--|------|-------|----------------|------|------|------|------|------|------|------|------|--|
| Room Reflectance   |      |       | Room Index(RI) |      |      |      |      |      |      |      |      |  |
| Ceiling  | Wall | Floor | 0.75           | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |  |
| 0.70   | 0.50 | 0.20  | 0.20           | 0.21 | 0.22 | 0.22 | 0.23 | 0.24 | 0.24 | 0.25 | 0.25 |  |
|  | 0.30 |       | 0.13           | 0.14 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.22 | 0.22 |  |
|  | 0.20 |       | 0.08           | 0.09 | 0.11 | 0.12 | 0.14 | 0.16 | 0.17 | 0.19 | 0.20 |  |
| 0.50   | 0.50 | 0.20  | 0.19           | 0.20 | 0.21 | 0.22 | 0.22 | 0.23 | 0.23 | 0.24 | 0.24 |  |
|  | 0.30 |       | 0.13           | 0.14 | 0.15 | 0.16 | 0.18 | 0.19 | 0.20 | 0.21 | 0.21 |  |
|  | 0.20 |       | 0.08           | 0.09 | 0.11 | 0.12 | 0.14 | 0.15 | 0.16 | 0.18 | 0.19 |  |
| 0.30   | 0.50 | 0.20  | 0.18           | 0.20 | 0.20 | 0.21 | 0.22 | 0.22 | 0.22 | 0.23 | 0.23 |  |
|  | 0.30 |       | 0.12           | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 |  |
|  | 0.20 |       | 0.08           | 0.09 | 0.11 | 0.12 | 0.13 | 0.15 | 0.16 | 0.17 | 0.19 |  |
| 0.00   | 0.00 | 0.00  | 0.03           | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |  |
| <p>Rating:25W Photometrically tested without ceiling board.<br/> Multiply UF values by service correction factors<br/> Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p> |      |       |                |      |      |      |      |      |      |      |      |  |

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 11.967 m  
Humidity:  
Inspector:

## Zonal Lumen

| 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>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 0.0-1.0      | 858.9                     | 0.8                | 0.8                    | 0.03                  | 0.03                      |
| 1.0-2.0      | 893.7                     | 2.6                | 3.4                    | 0.11                  | 0.14                      |
| 2.0-3.0      | 860.6                     | 4.1                | 7.5                    | 0.17                  | 0.31                      |
| 3.0-4.0      | 847.2                     | 5.7                | 13.2                   | 0.23                  | 0.54                      |
| 4.0-5.0      | 835.7                     | 7.2                | 20.4                   | 0.30                  | 0.84                      |
| 5.0-6.0      | 802.5                     | 8.4                | 28.8                   | 0.35                  | 1.19                      |
| 6.0-7.0      | 807.1                     | 10.0               | 38.8                   | 0.41                  | 1.60                      |
| 7.0-8.0      | 807.5                     | 11.6               | 50.4                   | 0.48                  | 2.08                      |
| 8.0-9.0      | 783.4                     | 12.7               | 63.1                   | 0.52                  | 2.60                      |
| 9.0-10.0     | 762.4                     | 13.8               | 76.9                   | 0.57                  | 3.17                      |
| 10.0-11.0    | 762.0                     | 15.2               | 92.1                   | 0.63                  | 3.80                      |
| 11.0-12.0    | 776.6                     | 17.0               | 109.1                  | 0.70                  | 4.50                      |
| 12.0-13.0    | 802.7                     | 19.1               | 128.1                  | 0.79                  | 5.29                      |
| 13.0-14.0    | 810.4                     | 20.7               | 148.9                  | 0.86                  | 6.14                      |
| 14.0-15.0    | 794.4                     | 21.8               | 170.7                  | 0.90                  | 7.04                      |
| 15.0-16.0    | 798.4                     | 23.4               | 194.1                  | 0.97                  | 8.01                      |
| 16.0-17.0    | 795.9                     | 24.8               | 218.9                  | 1.02                  | 9.03                      |
| 17.0-18.0    | 786.6                     | 25.9               | 244.8                  | 1.07                  | 10.10                     |
| 18.0-19.0    | 792.8                     | 27.6               | 272.4                  | 1.14                  | 11.24                     |
| 19.0-20.0    | 794.9                     | 29.1               | 301.5                  | 1.20                  | 12.44                     |
| 20.0-21.0    | 765.6                     | 29.4               | 330.9                  | 1.21                  | 13.65                     |
| 21.0-22.0    | 730.3                     | 29.4               | 360.3                  | 1.21                  | 14.86                     |
| 22.0-23.0    | 717.2                     | 30.1               | 390.4                  | 1.24                  | 16.10                     |
| 23.0-24.0    | 698.3                     | 30.5               | 420.9                  | 1.26                  | 17.36                     |
| 24.0-25.0    | 676.6                     | 30.8               | 451.7                  | 1.27                  | 18.63                     |
| 25.0-26.0    | 668.9                     | 31.6               | 483.2                  | 1.30                  | 19.93                     |
| 26.0-27.0    | 662.2                     | 32.4               | 515.6                  | 1.34                  | 21.27                     |
| 27.0-28.0    | 650.2                     | 32.9               | 548.6                  | 1.36                  | 22.63                     |
| 28.0-29.0    | 644.9                     | 33.7               | 582.3                  | 1.39                  | 24.02                     |
| 29.0-30.0    | 639.0                     | 34.5               | 616.8                  | 1.42                  | 25.44                     |
| 30.0-31.0    | 630.1                     | 35.1               | 651.9                  | 1.45                  | 26.89                     |
| 31.0-32.0    | 624.9                     | 35.8               | 687.7                  | 1.48                  | 28.37                     |
| 32.0-33.0    | 617.6                     | 36.4               | 724.1                  | 1.50                  | 29.87                     |
| 33.0-34.0    | 612.3                     | 37.1               | 761.1                  | 1.53                  | 31.40                     |
| 34.0-35.0    | 613.6                     | 38.1               | 799.2                  | 1.57                  | 32.97                     |
| 35.0-36.0    | 613.4                     | 39.1               | 838.3                  | 1.61                  | 34.58                     |

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

Inspector:

## Zonal Lumen (Continue 1)

| 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>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 36.0-37.0    | 609.0                     | 39.7               | 878.0                  | 1.64                  | 36.22                     |
| 37.0-38.0    | 601.2                     | 40.1               | 918.2                  | 1.66                  | 37.87                     |
| 38.0-39.0    | 595.9                     | 40.7               | 958.8                  | 1.68                  | 39.55                     |
| 39.0-40.0    | 596.5                     | 41.6               | 1000.5                 | 1.72                  | 41.27                     |
| 40.0-41.0    | 586.9                     | 41.8               | 1042.3                 | 1.72                  | 42.99                     |
| 41.0-42.0    | 575.8                     | 41.8               | 1084.1                 | 1.73                  | 44.72                     |
| 42.0-43.0    | 576.4                     | 42.7               | 1126.8                 | 1.76                  | 46.48                     |
| 43.0-44.0    | 570.0                     | 43.0               | 1169.8                 | 1.77                  | 48.25                     |
| 44.0-45.0    | 556.8                     | 42.8               | 1212.6                 | 1.77                  | 50.02                     |
| 45.0-46.0    | 547.6                     | 42.8               | 1255.4                 | 1.77                  | 51.79                     |
| 46.0-47.0    | 536.1                     | 42.6               | 1298.1                 | 1.76                  | 53.54                     |
| 47.0-48.0    | 528.9                     | 42.8               | 1340.9                 | 1.76                  | 55.31                     |
| 48.0-49.0    | 519.8                     | 42.7               | 1383.5                 | 1.76                  | 57.07                     |
| 49.0-50.0    | 501.3                     | 41.8               | 1425.3                 | 1.72                  | 58.79                     |
| 50.0-51.0    | 490.1                     | 41.5               | 1466.8                 | 1.71                  | 60.50                     |
| 51.0-52.0    | 478.5                     | 41.1               | 1507.9                 | 1.69                  | 62.20                     |
| 52.0-53.0    | 460.1                     | 40.0               | 1547.9                 | 1.65                  | 63.85                     |
| 53.0-54.0    | 442.9                     | 39.0               | 1587.0                 | 1.61                  | 65.46                     |
| 54.0-55.0    | 428.9                     | 38.3               | 1625.2                 | 1.58                  | 67.04                     |
| 55.0-56.0    | 418.3                     | 37.8               | 1663.1                 | 1.56                  | 68.60                     |
| 56.0-57.0    | 407.0                     | 37.2               | 1700.3                 | 1.54                  | 70.13                     |
| 57.0-58.0    | 394.3                     | 36.5               | 1736.7                 | 1.50                  | 71.64                     |
| 58.0-59.0    | 378.1                     | 35.4               | 1772.1                 | 1.46                  | 73.10                     |
| 59.0-60.0    | 356.2                     | 33.7               | 1805.7                 | 1.39                  | 74.48                     |
| 60.0-61.0    | 337.9                     | 32.3               | 1838.0                 | 1.33                  | 75.82                     |
| 61.0-62.0    | 325.6                     | 31.4               | 1869.4                 | 1.29                  | 77.11                     |
| 62.0-63.0    | 312.4                     | 30.4               | 1899.8                 | 1.25                  | 78.36                     |
| 63.0-64.0    | 302.0                     | 29.6               | 1929.4                 | 1.22                  | 79.59                     |
| 64.0-65.0    | 291.6                     | 28.9               | 1958.3                 | 1.19                  | 80.78                     |
| 65.0-66.0    | 276.1                     | 27.6               | 1985.8                 | 1.14                  | 81.91                     |
| 66.0-67.0    | 258.1                     | 26.0               | 2011.8                 | 1.07                  | 82.98                     |
| 67.0-68.0    | 238.6                     | 24.2               | 2035.9                 | 1.00                  | 83.98                     |
| 68.0-69.0    | 225.6                     | 23.0               | 2059.0                 | 0.95                  | 84.93                     |
| 69.0-70.0    | 223.5                     | 23.0               | 2081.9                 | 0.95                  | 85.88                     |
| 70.0-71.0    | 217.6                     | 22.5               | 2104.4                 | 0.93                  | 86.80                     |
| 71.0-72.0    | 202.0                     | 21.0               | 2125.4                 | 0.87                  | 87.67                     |

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

Inspector:

## Zonal Lumen (Continue 2)

| 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>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 72.0-73.0    | 185.5                     | 19.4               | 2144.8                 | 0.80                  | 88.47                     |
| 73.0-74.0    | 169.8                     | 17.9               | 2162.7                 | 0.74                  | 89.21                     |
| 74.0-75.0    | 161.9                     | 17.1               | 2179.8                 | 0.71                  | 89.91                     |
| 75.0-76.0    | 162.8                     | 17.3               | 2197.1                 | 0.71                  | 90.63                     |
| 76.0-77.0    | 157.7                     | 16.8               | 2213.9                 | 0.69                  | 91.32                     |
| 77.0-78.0    | 143.5                     | 15.4               | 2229.2                 | 0.63                  | 91.95                     |
| 78.0-79.0    | 129.3                     | 13.9               | 2243.1                 | 0.57                  | 92.53                     |
| 79.0-80.0    | 120.5                     | 13.0               | 2256.1                 | 0.54                  | 93.06                     |
| 80.0-81.0    | 114.3                     | 12.4               | 2268.5                 | 0.51                  | 93.57                     |
| 81.0-82.0    | 103.0                     | 11.2               | 2279.7                 | 0.46                  | 94.03                     |
| 82.0-83.0    | 90.9                      | 9.9                | 2289.5                 | 0.41                  | 94.44                     |
| 83.0-84.0    | 85.9                      | 9.4                | 2298.9                 | 0.39                  | 94.83                     |
| 84.0-85.0    | 81.0                      | 8.8                | 2307.7                 | 0.36                  | 95.19                     |
| 85.0-86.0    | 73.6                      | 8.0                | 2315.8                 | 0.33                  | 95.52                     |
| 86.0-87.0    | 67.6                      | 7.4                | 2323.2                 | 0.31                  | 95.83                     |
| 87.0-88.0    | 59.2                      | 6.5                | 2329.7                 | 0.27                  | 96.10                     |
| 88.0-89.0    | 49.7                      | 5.4                | 2335.1                 | 0.22                  | 96.32                     |
| 89.0-90.0    | 45.6                      | 5.0                | 2340.1                 | 0.21                  | 96.53                     |
| 90.0-91.0    | 41.5                      | 4.6                | 2344.7                 | 0.19                  | 96.71                     |
| 91.0-92.0    | 38.1                      | 4.2                | 2348.8                 | 0.17                  | 96.89                     |
| 92.0-93.0    | 35.6                      | 3.9                | 2352.7                 | 0.16                  | 97.05                     |
| 93.0-94.0    | 31.2                      | 3.4                | 2356.2                 | 0.14                  | 97.19                     |
| 94.0-95.0    | 28.8                      | 3.2                | 2359.3                 | 0.13                  | 97.32                     |
| 95.0-96.0    | 27.8                      | 3.0                | 2362.3                 | 0.13                  | 97.44                     |
| 96.0-97.0    | 26.8                      | 2.9                | 2365.3                 | 0.12                  | 97.56                     |
| 97.0-98.0    | 25.7                      | 2.8                | 2368.1                 | 0.12                  | 97.68                     |
| 98.0-99.0    | 24.3                      | 2.6                | 2370.7                 | 0.11                  | 97.79                     |
| 99.0-100.0   | 23.0                      | 2.5                | 2373.2                 | 0.10                  | 97.89                     |
| 100.0-101.0  | 21.8                      | 2.4                | 2375.5                 | 0.10                  | 97.99                     |
| 101.0-102.0  | 20.4                      | 2.2                | 2377.7                 | 0.09                  | 98.08                     |
| 102.0-103.0  | 19.1                      | 2.0                | 2379.8                 | 0.08                  | 98.16                     |
| 103.0-104.0  | 18.2                      | 1.9                | 2381.7                 | 0.08                  | 98.24                     |
| 104.0-105.0  | 17.2                      | 1.8                | 2383.5                 | 0.08                  | 98.32                     |
| 105.0-106.0  | 16.2                      | 1.7                | 2385.3                 | 0.07                  | 98.39                     |
| 106.0-107.0  | 15.4                      | 1.6                | 2386.9                 | 0.07                  | 98.46                     |
| 107.0-108.0  | 14.1                      | 1.5                | 2388.3                 | 0.06                  | 98.52                     |

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

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  | 13.0                      | 1.3                | 2389.7                 | 0.06                  | 98.57                     |
| 109.0-110.0  | 12.4                      | 1.3                | 2391.0                 | 0.05                  | 98.62                     |
| 110.0-111.0  | 11.6                      | 1.2                | 2392.2                 | 0.05                  | 98.67                     |
| 111.0-112.0  | 10.8                      | 1.1                | 2393.3                 | 0.05                  | 98.72                     |
| 112.0-113.0  | 10.4                      | 1.1                | 2394.3                 | 0.04                  | 98.76                     |
| 113.0-114.0  | 10.0                      | 1.0                | 2395.3                 | 0.04                  | 98.80                     |
| 114.0-115.0  | 9.5                       | 1.0                | 2396.3                 | 0.04                  | 98.84                     |
| 115.0-116.0  | 9.2                       | 0.9                | 2397.2                 | 0.04                  | 98.88                     |
| 116.0-117.0  | 8.9                       | 0.9                | 2398.1                 | 0.04                  | 98.92                     |
| 117.0-118.0  | 8.5                       | 0.8                | 2398.9                 | 0.03                  | 98.95                     |
| 118.0-119.0  | 8.3                       | 0.8                | 2399.7                 | 0.03                  | 98.98                     |
| 119.0-120.0  | 8.0                       | 0.8                | 2400.4                 | 0.03                  | 99.02                     |
| 120.0-121.0  | 7.8                       | 0.7                | 2401.2                 | 0.03                  | 99.05                     |
| 121.0-122.0  | 7.5                       | 0.7                | 2401.9                 | 0.03                  | 99.08                     |
| 122.0-123.0  | 7.3                       | 0.7                | 2402.6                 | 0.03                  | 99.10                     |
| 123.0-124.0  | 7.1                       | 0.7                | 2403.2                 | 0.03                  | 99.13                     |
| 124.0-125.0  | 7.0                       | 0.6                | 2403.8                 | 0.03                  | 99.16                     |
| 125.0-126.0  | 7.2                       | 0.6                | 2404.5                 | 0.03                  | 99.18                     |
| 126.0-127.0  | 7.5                       | 0.7                | 2405.1                 | 0.03                  | 99.21                     |
| 127.0-128.0  | 7.5                       | 0.6                | 2405.8                 | 0.03                  | 99.24                     |
| 128.0-129.0  | 7.5                       | 0.6                | 2406.4                 | 0.03                  | 99.26                     |
| 129.0-130.0  | 7.8                       | 0.7                | 2407.1                 | 0.03                  | 99.29                     |
| 130.0-131.0  | 8.0                       | 0.7                | 2407.8                 | 0.03                  | 99.32                     |
| 131.0-132.0  | 8.2                       | 0.7                | 2408.4                 | 0.03                  | 99.35                     |
| 132.0-133.0  | 8.3                       | 0.7                | 2409.1                 | 0.03                  | 99.37                     |
| 133.0-134.0  | 8.2                       | 0.7                | 2409.8                 | 0.03                  | 99.40                     |
| 134.0-135.0  | 8.1                       | 0.6                | 2410.4                 | 0.03                  | 99.43                     |
| 135.0-136.0  | 7.9                       | 0.6                | 2411.0                 | 0.02                  | 99.45                     |
| 136.0-137.0  | 7.7                       | 0.6                | 2411.6                 | 0.02                  | 99.48                     |
| 137.0-138.0  | 7.6                       | 0.6                | 2412.2                 | 0.02                  | 99.50                     |
| 138.0-139.0  | 7.6                       | 0.5                | 2412.7                 | 0.02                  | 99.52                     |
| 139.0-140.0  | 7.5                       | 0.5                | 2413.2                 | 0.02                  | 99.54                     |
| 140.0-141.0  | 7.5                       | 0.5                | 2413.8                 | 0.02                  | 99.57                     |
| 141.0-142.0  | 7.5                       | 0.5                | 2414.3                 | 0.02                  | 99.59                     |
| 142.0-143.0  | 7.6                       | 0.5                | 2414.8                 | 0.02                  | 99.61                     |
| 143.0-144.0  | 7.6                       | 0.5                | 2415.3                 | 0.02                  | 99.63                     |

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

Inspector:



## Zonal Lumen (Continue 4)

| 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>[%] |
|--------------|---------------------------|--------------------|------------------------|-----------------------|---------------------------|
| 144.0-145.0  | 7.6                       | 0.5                | 2415.8                 | 0.02                  | 99.65                     |
| 145.0-146.0  | 7.6                       | 0.5                | 2416.2                 | 0.02                  | 99.67                     |
| 146.0-147.0  | 7.7                       | 0.5                | 2416.7                 | 0.02                  | 99.69                     |
| 147.0-148.0  | 7.7                       | 0.5                | 2417.2                 | 0.02                  | 99.70                     |
| 148.0-149.0  | 7.7                       | 0.4                | 2417.6                 | 0.02                  | 99.72                     |
| 149.0-150.0  | 7.7                       | 0.4                | 2418.0                 | 0.02                  | 99.74                     |
| 150.0-151.0  | 7.6                       | 0.4                | 2418.4                 | 0.02                  | 99.76                     |
| 151.0-152.0  | 7.6                       | 0.4                | 2418.8                 | 0.02                  | 99.77                     |
| 152.0-153.0  | 7.6                       | 0.4                | 2419.2                 | 0.02                  | 99.79                     |
| 153.0-154.0  | 7.6                       | 0.4                | 2419.6                 | 0.02                  | 99.81                     |
| 154.0-155.0  | 7.5                       | 0.4                | 2419.9                 | 0.01                  | 99.82                     |
| 155.0-156.0  | 7.5                       | 0.3                | 2420.3                 | 0.01                  | 99.83                     |
| 156.0-157.0  | 7.5                       | 0.3                | 2420.6                 | 0.01                  | 99.85                     |
| 157.0-158.0  | 7.5                       | 0.3                | 2420.9                 | 0.01                  | 99.86                     |
| 158.0-159.0  | 7.4                       | 0.3                | 2421.2                 | 0.01                  | 99.87                     |
| 159.0-160.0  | 7.4                       | 0.3                | 2421.5                 | 0.01                  | 99.88                     |
| 160.0-161.0  | 7.4                       | 0.3                | 2421.8                 | 0.01                  | 99.90                     |
| 161.0-162.0  | 7.3                       | 0.3                | 2422.0                 | 0.01                  | 99.91                     |
| 162.0-163.0  | 7.3                       | 0.2                | 2422.3                 | 0.01                  | 99.92                     |
| 163.0-164.0  | 7.3                       | 0.2                | 2422.5                 | 0.01                  | 99.93                     |
| 164.0-165.0  | 7.3                       | 0.2                | 2422.7                 | 0.01                  | 99.93                     |
| 165.0-166.0  | 7.4                       | 0.2                | 2422.9                 | 0.01                  | 99.94                     |
| 166.0-167.0  | 7.4                       | 0.2                | 2423.1                 | 0.01                  | 99.95                     |
| 167.0-168.0  | 7.4                       | 0.2                | 2423.3                 | 0.01                  | 99.96                     |
| 168.0-169.0  | 7.4                       | 0.2                | 2423.4                 | 0.01                  | 99.96                     |
| 169.0-170.0  | 7.5                       | 0.1                | 2423.6                 | 0.01                  | 99.97                     |
| 170.0-171.0  | 7.5                       | 0.1                | 2423.7                 | 0.01                  | 99.98                     |
| 171.0-172.0  | 7.5                       | 0.1                | 2423.8                 | 0.01                  | 99.98                     |
| 172.0-173.0  | 7.5                       | 0.1                | 2424.0                 | 0.00                  | 99.99                     |
| 173.0-174.0  | 7.5                       | 0.1                | 2424.0                 | 0.00                  | 99.99                     |
| 174.0-175.0  | 7.5                       | 0.1                | 2424.1                 | 0.00                  | 99.99                     |
| 175.0-176.0  | 7.6                       | 0.1                | 2424.2                 | 0.00                  | 100.00                    |
| 176.0-177.0  | 7.6                       | 0.1                | 2424.2                 | 0.00                  | 100.00                    |
| 177.0-178.0  | 7.6                       | 0.0                | 2424.3                 | 0.00                  | 100.00                    |
| 178.0-179.0  | 7.6                       | 0.0                | 2424.3                 | 0.00                  | 100.00                    |
| 179.0-180.0  | 7.6                       | 0.0                | 2424.3                 | 0.00                  | 100.00                    |

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

Inspector:

## Candlepower Table

Unit: cd

| G\C   | C0.0   | C30.0  | C60.0  | C90.0  | C120.0 | C150.0 | C180.0 | C210.0 | C240.0 | C270.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| G0.0  | 839.1  | 833.2  | 811.9  | 798.5  | 809.8  | 823.7  | 839.1  | 833.2  | 811.9  | 798.5  |
| G1.0  | 869.8  | 951.2  | 990.7  | 964.2  | 1020.8 | 931.8  | 803.0  | 831.5  | 869.2  | 812.9  |
| G2.0  | 886.5  | 998.6  | 902.2  | 810.0  | 860.0  | 965.0  | 724.7  | 789.3  | 931.0  | 939.5  |
| G3.0  | 899.3  | 845.8  | 850.2  | 815.8  | 761.8  | 813.1  | 690.1  | 865.9  | 827.0  | 770.6  |
| G4.0  | 982.4  | 887.7  | 1014.0 | 968.2  | 893.1  | 663.6  | 616.7  | 801.9  | 789.5  | 874.7  |
| G5.0  | 931.2  | 880.3  | 874.7  | 778.3  | 865.4  | 570.1  | 581.2  | 643.5  | 808.7  | 895.9  |
| G6.0  | 955.3  | 898.8  | 849.0  | 918.8  | 669.4  | 586.3  | 466.2  | 591.5  | 865.0  | 829.3  |
| G7.0  | 937.0  | 1006.4 | 946.1  | 858.5  | 799.5  | 614.8  | 426.3  | 575.2  | 820.8  | 865.8  |
| G8.0  | 1020.7 | 1025.2 | 971.0  | 810.4  | 718.7  | 555.2  | 372.4  | 592.0  | 796.9  | 867.3  |
| G9.0  | 1063.4 | 986.3  | 867.3  | 903.8  | 654.1  | 424.9  | 224.2  | 562.7  | 771.6  | 950.4  |
| G10.0 | 1016.9 | 992.3  | 919.5  | 774.0  | 750.8  | 342.4  | 231.5  | 384.5  | 776.4  | 903.5  |
| G11.0 | 1090.2 | 992.8  | 870.1  | 1002.2 | 689.8  | 270.5  | 163.4  | 381.4  | 826.3  | 944.6  |
| G12.0 | 1113.3 | 1014.1 | 923.5  | 824.5  | 713.8  | 312.5  | 195.0  | 357.5  | 845.5  | 947.2  |
| G13.0 | 1198.5 | 1107.9 | 1069.9 | 993.4  | 819.6  | 303.4  | 172.9  | 416.7  | 820.3  | 876.1  |
| G14.0 | 1268.4 | 1168.9 | 941.1  | 899.1  | 707.9  | 280.2  | 186.0  | 281.9  | 796.6  | 982.1  |
| G15.0 | 1259.6 | 1177.3 | 881.6  | 894.5  | 696.2  | 187.3  | 209.0  | 251.8  | 850.5  | 868.1  |
| G16.0 | 1252.4 | 1216.5 | 1044.4 | 909.6  | 720.5  | 210.5  | 175.2  | 227.3  | 803.9  | 941.3  |
| G17.0 | 1350.5 | 1202.6 | 968.9  | 846.1  | 755.4  | 175.4  | 178.2  | 228.4  | 747.1  | 880.5  |
| G18.0 | 1304.5 | 1246.8 | 942.1  | 927.6  | 662.4  | 172.0  | 176.3  | 183.9  | 723.4  | 858.3  |
| G19.0 | 1415.1 | 1292.7 | 1067.9 | 848.7  | 583.7  | 175.6  | 169.7  | 185.4  | 671.3  | 814.2  |
| G20.0 | 1588.5 | 1264.3 | 1032.9 | 852.5  | 613.2  | 180.1  | 167.1  | 193.5  | 623.7  | 824.9  |
| G21.0 | 1386.8 | 1151.2 | 952.4  | 796.8  | 508.1  | 188.9  | 150.3  | 199.2  | 561.1  | 772.3  |
| G22.0 | 1244.9 | 1164.0 | 982.1  | 770.1  | 406.8  | 195.7  | 136.3  | 210.4  | 535.4  | 738.7  |
| G23.0 | 1279.5 | 1255.5 | 1018.4 | 759.2  | 405.2  | 193.3  | 127.6  | 223.0  | 468.1  | 718.8  |
| G24.0 | 1299.8 | 1242.9 | 940.2  | 695.4  | 316.8  | 197.9  | 117.3  | 240.1  | 418.0  | 682.5  |
| G25.0 | 1241.7 | 1210.0 | 916.8  | 707.4  | 291.7  | 200.8  | 101.3  | 248.0  | 367.5  | 670.4  |
| G26.0 | 1271.9 | 1171.6 | 913.8  | 669.1  | 259.3  | 206.1  | 89.7   | 255.6  | 348.7  | 687.4  |
| G27.0 | 1331.2 | 1143.3 | 834.4  | 634.3  | 252.0  | 200.4  | 84.8   | 256.1  | 319.0  | 652.5  |
| G28.0 | 1310.0 | 1111.9 | 852.1  | 629.0  | 231.1  | 204.4  | 78.3   | 265.3  | 270.5  | 664.6  |
| G29.0 | 1289.7 | 1083.1 | 880.4  | 657.9  | 217.5  | 203.7  | 66.8   | 251.0  | 266.3  | 645.1  |
| G30.0 | 1213.2 | 1102.2 | 874.1  | 626.4  | 211.8  | 200.0  | 57.8   | 227.0  | 233.1  | 642.2  |
| G31.0 | 1159.3 | 1165.8 | 885.0  | 608.0  | 193.5  | 194.8  | 56.8   | 205.8  | 206.3  | 639.5  |
| G32.0 | 1163.5 | 1152.4 | 921.3  | 600.8  | 186.4  | 160.1  | 53.0   | 172.1  | 184.9  | 639.3  |
| G33.0 | 1077.4 | 1161.2 | 966.8  | 592.5  | 175.2  | 133.9  | 43.2   | 154.5  | 178.9  | 650.3  |
| G34.0 | 1161.4 | 1145.9 | 976.8  | 605.7  | 159.1  | 109.3  | 32.6   | 144.5  | 177.6  | 640.3  |
| G35.0 | 1264.1 | 1111.4 | 988.7  | 603.7  | 137.2  | 91.1   | 27.2   | 126.1  | 170.1  | 652.1  |
| G36.0 | 1220.9 | 1094.3 | 1009.6 | 598.0  | 123.3  | 69.1   | 26.9   | 105.8  | 158.6  | 683.9  |

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

Inspector:

**Candlepower Table (Continue 1)**

Unit: cd

| G\C   | C0.0   | C30.0  | C60.0 | C90.0 | C120.0 | C150.0 | C180.0 | C210.0 | C240.0 | C270.0 |
|-------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| G37.0 | 1208.2 | 1138.1 | 969.8 | 621.2 | 110.3  | 55.3   | 24.4   | 91.7   | 147.1  | 679.8  |
| G38.0 | 1189.1 | 1168.8 | 971.6 | 586.3 | 99.2   | 49.5   | 20.0   | 77.1   | 140.2  | 666.7  |
| G39.0 | 1198.8 | 1166.1 | 977.8 | 609.9 | 94.5   | 42.6   | 17.4   | 62.0   | 130.2  | 688.1  |
| G40.0 | 1198.7 | 1155.7 | 990.7 | 656.2 | 92.9   | 36.0   | 18.7   | 51.7   | 131.7  | 666.0  |
| G41.0 | 1146.3 | 1117.1 | 943.4 | 610.6 | 93.0   | 31.7   | 14.2   | 43.6   | 137.9  | 649.8  |
| G42.0 | 1166.3 | 1113.5 | 936.1 | 614.8 | 90.8   | 24.7   | 16.4   | 37.2   | 128.3  | 638.0  |
| G43.0 | 1203.5 | 1126.0 | 941.6 | 658.2 | 82.7   | 21.9   | 11.7   | 27.0   | 120.5  | 610.0  |
| G44.0 | 1170.3 | 1097.8 | 936.5 | 601.2 | 72.6   | 18.6   | 11.3   | 22.2   | 119.1  | 590.2  |
| G45.0 | 1176.7 | 1076.6 | 935.5 | 545.2 | 68.6   | 16.0   | 9.5    | 19.1   | 112.9  | 585.5  |
| G46.0 | 1167.1 | 1075.7 | 927.9 | 582.1 | 66.3   | 13.9   | 9.1    | 17.0   | 101.9  | 549.6  |
| G47.0 | 1144.1 | 1053.2 | 904.1 | 494.8 | 63.8   | 12.5   | 8.2    | 15.5   | 98.2   | 533.3  |
| G48.0 | 1164.2 | 1052.0 | 876.7 | 537.0 | 61.2   | 11.2   | 7.7    | 14.3   | 91.9   | 534.3  |
| G49.0 | 1115.2 | 1047.8 | 846.0 | 508.1 | 57.9   | 10.3   | 7.2    | 12.9   | 77.1   | 497.4  |
| G50.0 | 1085.7 | 1023.5 | 832.3 | 438.8 | 53.3   | 9.6    | 7.0    | 12.1   | 69.8   | 481.7  |
| G51.0 | 1123.9 | 1022.2 | 794.7 | 498.0 | 48.7   | 8.8    | 6.3    | 11.2   | 62.7   | 475.2  |
| G52.0 | 1058.4 | 998.3  | 772.3 | 458.9 | 49.6   | 8.2    | 6.6    | 10.3   | 62.3   | 443.6  |
| G53.0 | 960.2  | 968.6  | 771.3 | 402.5 | 51.6   | 7.7    | 6.4    | 9.6    | 50.7   | 409.1  |
| G54.0 | 924.7  | 978.0  | 730.9 | 391.4 | 44.2   | 7.3    | 6.9    | 8.9    | 43.0   | 389.5  |
| G55.0 | 970.5  | 951.0  | 695.9 | 382.3 | 37.3   | 6.8    | 6.1    | 8.1    | 40.8   | 355.9  |
| G56.0 | 1011.5 | 905.2  | 686.7 | 341.5 | 34.2   | 6.5    | 6.6    | 7.6    | 34.8   | 331.1  |
| G57.0 | 1006.3 | 888.8  | 662.0 | 316.6 | 33.2   | 5.9    | 6.3    | 7.0    | 30.1   | 311.8  |
| G58.0 | 970.6  | 883.4  | 654.7 | 290.6 | 33.5   | 5.6    | 6.2    | 6.5    | 28.1   | 282.9  |
| G59.0 | 873.0  | 884.3  | 633.5 | 264.0 | 33.1   | 5.5    | 5.8    | 6.1    | 26.5   | 243.6  |
| G60.0 | 817.7  | 878.1  | 556.8 | 218.6 | 30.4   | 5.5    | 5.3    | 5.8    | 25.2   | 221.9  |
| G61.0 | 876.7  | 801.4  | 527.6 | 189.5 | 27.3   | 5.4    | 4.5    | 5.6    | 25.0   | 190.4  |
| G62.0 | 862.7  | 756.2  | 509.5 | 168.2 | 25.2   | 5.1    | 4.3    | 5.1    | 26.2   | 169.0  |
| G63.0 | 824.2  | 754.7  | 490.0 | 151.6 | 24.1   | 4.7    | 4.1    | 4.8    | 25.1   | 131.9  |
| G64.0 | 829.2  | 752.3  | 482.4 | 123.2 | 25.1   | 4.3    | 4.2    | 4.4    | 24.0   | 126.0  |
| G65.0 | 783.5  | 752.0  | 460.3 | 110.2 | 24.1   | 3.8    | 4.1    | 4.1    | 22.6   | 99.9   |
| G66.0 | 742.5  | 707.1  | 447.1 | 84.9  | 24.6   | 3.7    | 4.1    | 3.9    | 21.2   | 80.0   |
| G67.0 | 730.5  | 648.7  | 418.8 | 67.3  | 23.9   | 3.4    | 3.6    | 3.9    | 19.9   | 61.9   |
| G68.0 | 652.1  | 601.9  | 380.7 | 51.0  | 23.5   | 3.4    | 3.3    | 3.8    | 19.4   | 46.9   |
| G69.0 | 662.5  | 585.1  | 340.1 | 39.6  | 22.6   | 3.2    | 3.3    | 3.9    | 18.5   | 37.1   |
| G70.0 | 714.2  | 623.9  | 322.6 | 33.5  | 21.9   | 3.2    | 3.4    | 3.6    | 18.2   | 33.4   |
| G71.0 | 673.8  | 607.5  | 306.0 | 29.9  | 21.3   | 3.1    | 3.3    | 3.5    | 18.4   | 30.1   |
| G72.0 | 567.4  | 583.5  | 284.8 | 26.4  | 20.7   | 3.1    | 3.3    | 3.4    | 16.8   | 27.4   |
| G73.0 | 524.6  | 555.1  | 250.9 | 23.4  | 20.5   | 3.0    | 3.2    | 3.3    | 15.6   | 25.1   |

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

Inspector:

## Candlepower Table (Continue 2)

Unit: cd

| G\C    | C0.0  | C30.0 | C60.0 | C90.0 | C120.0 | C150.0 | C180.0 | C210.0 | C240.0 | C270.0 |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| G74.0  | 518.0 | 464.0 | 234.9 | 20.6  | 19.9   | 3.0    | 3.1    | 3.3    | 15.1   | 22.9   |
| G75.0  | 551.9 | 427.6 | 235.1 | 19.5  | 19.4   | 3.1    | 3.1    | 3.3    | 14.4   | 20.8   |
| G76.0  | 569.5 | 449.3 | 195.0 | 18.3  | 19.9   | 3.3    | 3.0    | 3.4    | 13.6   | 18.8   |
| G77.0  | 508.4 | 485.6 | 161.4 | 17.7  | 20.2   | 3.1    | 3.3    | 3.5    | 13.2   | 18.1   |
| G78.0  | 435.6 | 452.2 | 145.0 | 16.6  | 19.6   | 3.1    | 3.3    | 3.5    | 12.9   | 17.6   |
| G79.0  | 418.6 | 378.3 | 141.5 | 15.8  | 16.1   | 3.2    | 3.4    | 3.5    | 13.6   | 17.0   |
| G80.0  | 438.6 | 330.7 | 115.9 | 15.2  | 14.8   | 3.3    | 3.5    | 3.7    | 14.4   | 16.3   |
| G81.0  | 432.9 | 300.1 | 91.6  | 13.7  | 15.8   | 3.3    | 3.5    | 3.8    | 13.5   | 16.0   |
| G82.0  | 349.4 | 312.4 | 73.3  | 13.0  | 13.8   | 3.5    | 3.5    | 3.8    | 11.5   | 15.4   |
| G83.0  | 353.2 | 278.2 | 61.7  | 11.9  | 12.2   | 3.5    | 3.7    | 3.8    | 10.5   | 15.3   |
| G84.0  | 362.2 | 238.1 | 57.1  | 11.1  | 12.3   | 3.7    | 3.9    | 4.0    | 9.5    | 14.4   |
| G85.0  | 295.3 | 227.7 | 53.2  | 11.0  | 11.4   | 4.0    | 4.0    | 4.0    | 8.5    | 13.6   |
| G86.0  | 277.4 | 222.7 | 47.7  | 9.9   | 9.9    | 4.2    | 4.1    | 4.1    | 8.0    | 12.3   |
| G87.0  | 271.0 | 200.5 | 43.8  | 8.5   | 8.5    | 4.6    | 4.5    | 4.1    | 7.4    | 11.1   |
| G88.0  | 198.7 | 163.2 | 41.1  | 7.4   | 7.5    | 4.6    | 4.6    | 4.1    | 6.8    | 10.6   |
| G89.0  | 181.6 | 128.4 | 38.9  | 6.8   | 7.0    | 4.5    | 4.5    | 4.2    | 6.5    | 10.1   |
| G90.0  | 196.0 | 120.3 | 36.8  | 6.3   | 6.7    | 4.7    | 4.8    | 4.4    | 6.5    | 9.8    |
| G91.0  | 150.9 | 91.4  | 34.8  | 6.0   | 6.5    | 5.1    | 4.8    | 4.7    | 6.5    | 10.0   |
| G92.0  | 163.1 | 90.7  | 33.1  | 5.8   | 6.6    | 5.1    | 4.9    | 4.7    | 5.9    | 9.7    |
| G93.0  | 122.3 | 85.1  | 32.1  | 5.7   | 6.1    | 4.7    | 4.9    | 4.7    | 5.8    | 9.2    |
| G94.0  | 100.8 | 74.3  | 31.1  | 5.7   | 6.0    | 4.6    | 4.9    | 4.8    | 5.8    | 9.0    |
| G95.0  | 97.2  | 69.7  | 29.7  | 5.5   | 5.9    | 4.8    | 5.1    | 4.9    | 5.9    | 8.3    |
| G96.0  | 95.9  | 65.9  | 28.7  | 5.6   | 6.0    | 4.8    | 5.2    | 5.2    | 5.9    | 7.7    |
| G97.0  | 94.8  | 61.9  | 27.1  | 5.6   | 5.9    | 5.1    | 5.5    | 5.3    | 6.0    | 7.5    |
| G98.0  | 88.5  | 59.3  | 25.6  | 5.5   | 5.8    | 5.1    | 5.4    | 5.3    | 6.0    | 7.0    |
| G99.0  | 85.1  | 53.3  | 24.6  | 5.5   | 6.0    | 5.2    | 5.6    | 5.5    | 6.2    | 7.2    |
| G100.0 | 83.8  | 46.9  | 23.7  | 5.6   | 6.0    | 5.4    | 5.8    | 5.5    | 6.2    | 6.9    |
| G101.0 | 80.0  | 45.0  | 22.4  | 5.5   | 5.9    | 5.4    | 6.0    | 5.7    | 6.0    | 7.1    |
| G102.0 | 77.3  | 37.9  | 19.4  | 5.7   | 5.8    | 5.7    | 6.0    | 5.9    | 6.1    | 7.4    |
| G103.0 | 75.6  | 31.8  | 18.5  | 5.8   | 5.8    | 5.9    | 6.1    | 6.0    | 5.9    | 7.7    |
| G104.0 | 73.9  | 29.5  | 17.2  | 5.4   | 5.7    | 6.1    | 6.4    | 6.1    | 6.0    | 7.7    |
| G105.0 | 71.8  | 24.9  | 14.5  | 5.3   | 5.8    | 6.0    | 6.5    | 6.3    | 6.1    | 7.8    |
| G106.0 | 68.9  | 21.8  | 13.7  | 5.4   | 5.8    | 6.2    | 6.7    | 6.2    | 6.0    | 7.5    |
| G107.0 | 67.3  | 19.4  | 11.5  | 5.3   | 5.8    | 6.3    | 6.8    | 6.4    | 6.1    | 7.3    |
| G108.0 | 52.8  | 16.9  | 10.6  | 5.4   | 5.6    | 6.4    | 7.1    | 6.6    | 6.0    | 7.1    |
| G109.0 | 50.7  | 15.5  | 9.0   | 5.3   | 5.7    | 6.5    | 7.2    | 6.7    | 6.1    | 6.8    |
| G110.0 | 49.1  | 14.0  | 8.8   | 5.1   | 5.7    | 6.8    | 7.2    | 7.0    | 6.1    | 6.6    |

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.967 m

Humidity:

Inspector:

### Candlepower Table (Continue 3)

Unit: cd

| G\C    | C0.0 | C30.0 | C60.0 | C90.0 | C120.0 | C150.0 | C180.0 | C210.0 | C240.0 | C270.0 |
|--------|------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| G111.0 | 38.7 | 12.7  | 9.4   | 4.8   | 5.7    | 6.8    | 7.5    | 7.2    | 6.1    | 6.4    |
| G112.0 | 36.8 | 12.1  | 9.0   | 5.0   | 5.7    | 6.9    | 7.6    | 7.3    | 6.2    | 6.5    |
| G113.0 | 35.1 | 11.2  | 8.6   | 5.0   | 5.9    | 7.1    | 7.7    | 7.3    | 6.2    | 6.4    |
| G114.0 | 29.6 | 11.6  | 8.2   | 4.9   | 6.2    | 7.1    | 8.1    | 7.4    | 6.3    | 6.4    |
| G115.0 | 26.9 | 10.2  | 7.6   | 5.3   | 6.0    | 7.3    | 8.0    | 7.6    | 6.5    | 6.0    |
| G116.0 | 25.5 | 9.9   | 7.4   | 5.1   | 6.3    | 7.3    | 8.1    | 7.5    | 6.6    | 6.0    |
| G117.0 | 20.9 | 9.4   | 7.2   | 5.1   | 6.2    | 7.5    | 8.5    | 7.6    | 6.9    | 6.2    |
| G118.0 | 19.9 | 8.9   | 7.0   | 5.0   | 6.3    | 7.7    | 8.5    | 7.5    | 7.0    | 6.1    |
| G119.0 | 18.4 | 8.4   | 6.1   | 5.1   | 6.6    | 7.8    | 8.8    | 7.8    | 7.1    | 6.0    |
| G120.0 | 16.8 | 7.6   | 5.9   | 5.1   | 6.9    | 7.9    | 8.9    | 8.1    | 7.3    | 6.0    |
| G121.0 | 16.0 | 6.8   | 5.5   | 5.3   | 7.0    | 7.9    | 8.9    | 8.2    | 7.3    | 5.8    |
| G122.0 | 14.3 | 6.1   | 5.3   | 5.4   | 7.2    | 8.0    | 9.0    | 8.2    | 7.4    | 5.8    |
| G123.0 | 13.3 | 5.2   | 5.1   | 5.4   | 7.1    | 8.1    | 9.2    | 8.3    | 7.5    | 5.7    |
| G124.0 | 12.3 | 4.7   | 4.9   | 5.5   | 7.4    | 8.3    | 9.3    | 8.6    | 7.6    | 5.9    |
| G125.0 | 11.1 | 3.9   | 4.9   | 5.6   | 7.3    | 8.4    | 9.4    | 8.7    | 7.8    | 6.1    |
| G126.0 | 15.2 | 4.0   | 4.8   | 5.7   | 7.5    | 8.6    | 9.4    | 8.8    | 7.9    | 6.1    |
| G127.0 | 16.4 | 4.7   | 4.5   | 5.8   | 7.5    | 8.6    | 9.6    | 8.9    | 7.8    | 6.3    |
| G128.0 | 15.4 | 4.4   | 4.4   | 6.0   | 7.5    | 8.7    | 9.6    | 8.9    | 8.1    | 6.5    |
| G129.0 | 16.2 | 5.3   | 4.5   | 6.1   | 7.9    | 8.9    | 9.6    | 9.1    | 8.0    | 6.8    |
| G130.0 | 17.9 | 6.9   | 4.1   | 6.1   | 7.9    | 8.8    | 9.8    | 9.2    | 7.9    | 7.2    |
| G131.0 | 16.6 | 6.8   | 4.0   | 6.2   | 7.9    | 8.9    | 10.0   | 9.3    | 8.1    | 7.6    |
| G132.0 | 16.9 | 8.8   | 4.0   | 6.1   | 8.0    | 8.9    | 10.0   | 9.4    | 8.1    | 7.7    |
| G133.0 | 15.2 | 8.7   | 4.0   | 6.4   | 8.2    | 9.1    | 9.9    | 9.5    | 8.2    | 7.5    |
| G134.0 | 13.0 | 8.8   | 3.7   | 6.3   | 8.2    | 9.1    | 10.0   | 9.5    | 8.3    | 7.7    |
| G135.0 | 11.9 | 8.6   | 3.7   | 6.4   | 8.1    | 9.2    | 10.0   | 9.6    | 8.4    | 7.3    |
| G136.0 | 10.4 | 7.9   | 3.6   | 6.5   | 8.2    | 9.4    | 9.9    | 9.6    | 8.4    | 7.1    |
| G137.0 | 10.0 | 7.3   | 3.7   | 6.7   | 8.2    | 9.6    | 10.1   | 9.8    | 8.5    | 7.1    |
| G138.0 | 10.2 | 6.9   | 3.8   | 6.4   | 8.3    | 9.6    | 10.1   | 9.6    | 8.6    | 7.0    |
| G139.0 | 10.2 | 6.3   | 3.8   | 6.3   | 8.3    | 9.6    | 10.1   | 9.9    | 8.7    | 7.0    |
| G140.0 | 10.3 | 6.0   | 3.8   | 6.5   | 8.4    | 9.6    | 10.2   | 9.6    | 8.8    | 7.0    |
| G141.0 | 10.2 | 5.7   | 4.2   | 6.5   | 8.4    | 9.6    | 10.2   | 9.7    | 8.9    | 7.0    |
| G142.0 | 10.3 | 5.4   | 4.1   | 6.7   | 8.4    | 9.6    | 10.1   | 9.7    | 8.8    | 7.1    |
| G143.0 | 10.3 | 5.4   | 4.2   | 6.8   | 8.6    | 9.8    | 10.1   | 9.8    | 8.9    | 7.2    |
| G144.0 | 9.9  | 5.5   | 4.2   | 6.7   | 8.6    | 9.7    | 10.1   | 9.8    | 8.8    | 7.3    |
| G145.0 | 9.2  | 5.7   | 4.4   | 6.8   | 8.8    | 9.6    | 10.2   | 9.8    | 9.0    | 7.3    |
| G146.0 | 9.2  | 5.5   | 4.6   | 6.9   | 8.9    | 9.7    | 10.3   | 9.9    | 9.0    | 7.4    |
| G147.0 | 9.3  | 5.5   | 4.7   | 7.0   | 8.9    | 9.7    | 10.3   | 9.9    | 9.1    | 7.6    |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

### Candlepower Table (Continue 4)

Unit: cd

| G\C    | C0.0 | C30.0 | C60.0 | C90.0 | C120.0 | C150.0 | C180.0 | C210.0 | C240.0 | C270.0 |
|--------|------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| G148.0 | 9.3  | 5.1   | 4.9   | 7.2   | 8.8    | 9.6    | 10.2   | 9.9    | 9.0    | 7.7    |
| G149.0 | 9.0  | 5.1   | 4.7   | 7.3   | 8.8    | 9.8    | 10.3   | 10.0   | 9.0    | 7.8    |
| G150.0 | 8.4  | 5.1   | 4.8   | 7.3   | 8.8    | 9.8    | 10.1   | 9.8    | 9.0    | 7.9    |
| G151.0 | 7.6  | 5.1   | 4.9   | 7.5   | 8.9    | 9.8    | 10.2   | 9.8    | 9.2    | 7.9    |
| G152.0 | 6.6  | 5.3   | 5.1   | 7.5   | 8.8    | 9.9    | 10.0   | 9.7    | 9.1    | 8.2    |
| G153.0 | 6.0  | 4.9   | 5.2   | 7.6   | 9.0    | 9.8    | 10.0   | 9.8    | 9.2    | 8.3    |
| G154.0 | 5.7  | 4.8   | 5.3   | 7.6   | 8.9    | 9.8    | 10.1   | 9.7    | 9.3    | 8.7    |
| G155.0 | 5.4  | 4.8   | 5.5   | 7.7   | 8.9    | 9.7    | 10.0   | 9.6    | 9.4    | 8.5    |
| G156.0 | 5.3  | 4.9   | 5.7   | 7.6   | 8.8    | 9.6    | 10.0   | 9.6    | 9.1    | 8.3    |
| G157.0 | 5.4  | 4.9   | 5.7   | 7.7   | 8.9    | 9.8    | 10.0   | 9.9    | 9.2    | 8.0    |
| G158.0 | 5.2  | 4.8   | 5.7   | 7.6   | 8.9    | 9.6    | 9.9    | 9.6    | 9.1    | 7.9    |
| G159.0 | 5.1  | 4.8   | 5.8   | 7.6   | 9.0    | 9.4    | 9.9    | 9.6    | 9.0    | 7.9    |
| G160.0 | 5.1  | 5.1   | 5.9   | 7.6   | 8.9    | 9.3    | 9.8    | 9.4    | 9.0    | 7.7    |
| G161.0 | 4.8  | 4.9   | 5.9   | 7.6   | 8.9    | 9.4    | 9.8    | 9.4    | 8.6    | 7.7    |
| G162.0 | 4.7  | 4.8   | 5.9   | 7.4   | 8.9    | 9.2    | 9.6    | 9.4    | 8.6    | 7.6    |
| G163.0 | 4.8  | 5.0   | 6.1   | 7.4   | 8.7    | 9.3    | 9.3    | 9.3    | 8.5    | 7.6    |
| G164.0 | 5.0  | 5.1   | 6.2   | 7.3   | 8.7    | 9.2    | 9.1    | 9.1    | 8.5    | 7.5    |
| G165.0 | 5.4  | 5.2   | 6.2   | 7.3   | 8.8    | 9.2    | 9.1    | 9.2    | 8.3    | 7.4    |
| G166.0 | 5.4  | 5.5   | 6.2   | 7.3   | 8.7    | 9.0    | 9.0    | 9.2    | 8.4    | 7.6    |
| G167.0 | 5.5  | 5.5   | 6.4   | 7.4   | 8.6    | 9.0    | 9.0    | 9.0    | 8.3    | 7.7    |
| G168.0 | 5.6  | 5.7   | 6.3   | 7.5   | 8.3    | 8.8    | 8.9    | 9.0    | 8.3    | 7.9    |
| G169.0 | 5.9  | 5.9   | 6.3   | 7.5   | 8.3    | 8.7    | 8.8    | 9.0    | 8.4    | 7.7    |
| G170.0 | 6.1  | 6.0   | 6.6   | 7.6   | 8.3    | 8.8    | 8.5    | 8.8    | 8.2    | 7.9    |
| G171.0 | 6.2  | 6.2   | 6.6   | 7.7   | 8.5    | 8.7    | 8.5    | 8.6    | 8.3    | 7.8    |
| G172.0 | 6.3  | 6.4   | 6.6   | 7.7   | 8.4    | 8.4    | 8.4    | 8.5    | 8.3    | 7.9    |
| G173.0 | 6.4  | 6.5   | 6.8   | 7.7   | 8.2    | 8.3    | 8.4    | 8.3    | 8.0    | 7.9    |
| G174.0 | 6.5  | 6.5   | 7.0   | 7.7   | 8.3    | 8.1    | 8.0    | 8.1    | 8.0    | 7.9    |
| G175.0 | 6.7  | 6.7   | 7.1   | 7.6   | 8.1    | 8.0    | 8.0    | 8.2    | 7.9    | 8.0    |
| G176.0 | 7.2  | 6.9   | 7.3   | 7.6   | 8.1    | 7.8    | 7.8    | 8.0    | 7.8    | 7.9    |
| G177.0 | 7.1  | 6.9   | 7.6   | 7.5   | 8.0    | 7.7    | 7.6    | 7.8    | 7.9    | 8.0    |
| G178.0 | 7.0  | 7.2   | 7.7   | 7.5   | 8.0    | 7.7    | 7.6    | 7.7    | 7.7    | 7.9    |
| G179.0 | 7.1  | 7.3   | 7.7   | 7.7   | 7.8    | 7.5    | 7.3    | 7.7    | 7.8    | 8.0    |
| G180.0 | 7.5  | 7.2   | 7.7   | 7.6   | 7.7    | 7.3    | 7.3    | 7.8    | 7.7    | 7.9    |
|        |      |       |       |       |        |        |        |        |        |        |
|        |      |       |       |       |        |        |        |        |        |        |
|        |      |       |       |       |        |        |        |        |        |        |
|        |      |       |       |       |        |        |        |        |        |        |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

### Candlepower Table (Continue 5)

Unit: cd

| G\C   | C300.0 | C330.0 | C360.0 |  |  |  |  |  |  |  |
|-------|--------|--------|--------|--|--|--|--|--|--|--|
| G0.0  | 809.8  | 823.7  | 839.1  |  |  |  |  |  |  |  |
| G1.0  | 848.2  | 887.8  | 869.8  |  |  |  |  |  |  |  |
| G2.0  | 1001.8 | 859.2  | 886.5  |  |  |  |  |  |  |  |
| G3.0  | 938.7  | 909.4  | 899.3  |  |  |  |  |  |  |  |
| G4.0  | 825.7  | 1027.2 | 982.4  |  |  |  |  |  |  |  |
| G5.0  | 917.3  | 966.3  | 931.2  |  |  |  |  |  |  |  |
| G6.0  | 961.0  | 956.5  | 955.3  |  |  |  |  |  |  |  |
| G7.0  | 957.3  | 1015.6 | 937.0  |  |  |  |  |  |  |  |
| G8.0  | 907.5  | 919.8  | 1020.7 |  |  |  |  |  |  |  |
| G9.0  | 873.6  | 962.8  | 1063.4 |  |  |  |  |  |  |  |
| G10.0 | 900.8  | 1059.8 | 1016.9 |  |  |  |  |  |  |  |
| G11.0 | 993.2  | 1010.6 | 1090.2 |  |  |  |  |  |  |  |
| G12.0 | 1072.2 | 1084.1 | 1113.3 |  |  |  |  |  |  |  |
| G13.0 | 888.8  | 1193.9 | 1198.5 |  |  |  |  |  |  |  |
| G14.0 | 929.0  | 1146.6 | 1268.4 |  |  |  |  |  |  |  |
| G15.0 | 1027.9 | 1174.0 | 1259.6 |  |  |  |  |  |  |  |
| G16.0 | 1021.7 | 1161.3 | 1252.4 |  |  |  |  |  |  |  |
| G17.0 | 902.4  | 1182.2 | 1350.5 |  |  |  |  |  |  |  |
| G18.0 | 1016.5 | 1247.2 | 1304.5 |  |  |  |  |  |  |  |
| G19.0 | 1054.3 | 1286.9 | 1415.1 |  |  |  |  |  |  |  |
| G20.0 | 928.5  | 1242.5 | 1588.5 |  |  |  |  |  |  |  |
| G21.0 | 948.0  | 1248.3 | 1386.8 |  |  |  |  |  |  |  |
| G22.0 | 1036.8 | 1242.9 | 1244.9 |  |  |  |  |  |  |  |
| G23.0 | 969.0  | 1131.0 | 1279.5 |  |  |  |  |  |  |  |
| G24.0 | 947.3  | 1112.3 | 1299.8 |  |  |  |  |  |  |  |
| G25.0 | 921.0  | 1150.6 | 1241.7 |  |  |  |  |  |  |  |
| G26.0 | 908.5  | 1244.4 | 1271.9 |  |  |  |  |  |  |  |
| G27.0 | 947.5  | 1211.7 | 1331.2 |  |  |  |  |  |  |  |
| G28.0 | 943.6  | 1176.5 | 1310.0 |  |  |  |  |  |  |  |
| G29.0 | 955.8  | 1222.1 | 1289.7 |  |  |  |  |  |  |  |
| G30.0 | 983.1  | 1226.0 | 1213.2 |  |  |  |  |  |  |  |
| G31.0 | 1009.4 | 1201.6 | 1159.3 |  |  |  |  |  |  |  |
| G32.0 | 1014.7 | 1222.2 | 1163.5 |  |  |  |  |  |  |  |
| G33.0 | 1037.9 | 1179.5 | 1077.4 |  |  |  |  |  |  |  |
| G34.0 | 1030.9 | 1160.9 | 1161.4 |  |  |  |  |  |  |  |
| G35.0 | 1012.6 | 1197.4 | 1264.1 |  |  |  |  |  |  |  |
| G36.0 | 1027.5 | 1223.0 | 1220.9 |  |  |  |  |  |  |  |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

### Candlepower Table (Continue 6)

Unit: cd

| G\C   | C300.0 | C330.0 | C360.0 |  |  |  |  |  |  |
|-------|--------|--------|--------|--|--|--|--|--|--|
| G37.0 | 1012.8 | 1216.0 | 1208.2 |  |  |  |  |  |  |
| G38.0 | 988.8  | 1196.0 | 1189.1 |  |  |  |  |  |  |
| G39.0 | 976.0  | 1185.6 | 1198.8 |  |  |  |  |  |  |
| G40.0 | 976.7  | 1190.9 | 1198.7 |  |  |  |  |  |  |
| G41.0 | 970.5  | 1161.1 | 1146.3 |  |  |  |  |  |  |
| G42.0 | 973.7  | 1160.2 | 1166.3 |  |  |  |  |  |  |
| G43.0 | 973.0  | 1156.8 | 1203.5 |  |  |  |  |  |  |
| G44.0 | 968.3  | 1138.5 | 1170.3 |  |  |  |  |  |  |
| G45.0 | 950.8  | 1120.9 | 1176.7 |  |  |  |  |  |  |
| G46.0 | 927.5  | 1086.5 | 1167.1 |  |  |  |  |  |  |
| G47.0 | 917.3  | 1097.8 | 1144.1 |  |  |  |  |  |  |
| G48.0 | 896.7  | 1104.1 | 1164.2 |  |  |  |  |  |  |
| G49.0 | 862.0  | 1081.3 | 1115.2 |  |  |  |  |  |  |
| G50.0 | 844.7  | 1049.4 | 1085.7 |  |  |  |  |  |  |
| G51.0 | 797.1  | 1006.8 | 1123.9 |  |  |  |  |  |  |
| G52.0 | 761.2  | 999.7  | 1058.4 |  |  |  |  |  |  |
| G53.0 | 773.7  | 1002.4 | 960.2  |  |  |  |  |  |  |
| G54.0 | 730.3  | 959.5  | 924.7  |  |  |  |  |  |  |
| G55.0 | 699.7  | 923.9  | 970.5  |  |  |  |  |  |  |
| G56.0 | 696.6  | 899.8  | 1011.5 |  |  |  |  |  |  |
| G57.0 | 641.2  | 896.2  | 1006.3 |  |  |  |  |  |  |
| G58.0 | 603.7  | 891.1  | 970.6  |  |  |  |  |  |  |
| G59.0 | 574.7  | 868.1  | 873.0  |  |  |  |  |  |  |
| G60.0 | 547.7  | 816.7  | 817.7  |  |  |  |  |  |  |
| G61.0 | 522.7  | 804.2  | 876.7  |  |  |  |  |  |  |
| G62.0 | 496.4  | 805.6  | 862.7  |  |  |  |  |  |  |
| G63.0 | 470.8  | 779.2  | 824.2  |  |  |  |  |  |  |
| G64.0 | 464.7  | 743.9  | 829.2  |  |  |  |  |  |  |
| G65.0 | 447.0  | 702.6  | 783.5  |  |  |  |  |  |  |
| G66.0 | 434.4  | 658.6  | 742.5  |  |  |  |  |  |  |
| G67.0 | 384.4  | 616.7  | 730.5  |  |  |  |  |  |  |
| G68.0 | 351.1  | 605.5  | 652.1  |  |  |  |  |  |  |
| G69.0 | 328.1  | 628.3  | 662.5  |  |  |  |  |  |  |
| G70.0 | 287.9  | 626.2  | 714.2  |  |  |  |  |  |  |
| G71.0 | 275.2  | 558.2  | 673.8  |  |  |  |  |  |  |
| G72.0 | 289.0  | 491.7  | 567.4  |  |  |  |  |  |  |
| G73.0 | 262.4  | 448.2  | 524.6  |  |  |  |  |  |  |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:



### Candlepower Table (Continue 7)

Unit: cd

| G\C    | C300.0 | C330.0 | C360.0 |  |  |  |  |  |  |
|--------|--------|--------|--------|--|--|--|--|--|--|
| G74.0  | 202.2  | 432.5  | 518.0  |  |  |  |  |  |  |
| G75.0  | 181.1  | 467.1  | 551.9  |  |  |  |  |  |  |
| G76.0  | 186.3  | 479.6  | 569.5  |  |  |  |  |  |  |
| G77.0  | 182.4  | 408.5  | 508.4  |  |  |  |  |  |  |
| G78.0  | 150.4  | 359.3  | 435.6  |  |  |  |  |  |  |
| G79.0  | 125.7  | 346.3  | 418.6  |  |  |  |  |  |  |
| G80.0  | 107.1  | 345.7  | 438.6  |  |  |  |  |  |  |
| G81.0  | 100.3  | 338.9  | 432.9  |  |  |  |  |  |  |
| G82.0  | 79.2   | 258.9  | 349.4  |  |  |  |  |  |  |
| G83.0  | 66.3   | 222.9  | 353.2  |  |  |  |  |  |  |
| G84.0  | 57.2   | 244.4  | 362.2  |  |  |  |  |  |  |
| G85.0  | 54.2   | 240.1  | 295.3  |  |  |  |  |  |  |
| G86.0  | 51.7   | 188.1  | 277.4  |  |  |  |  |  |  |
| G87.0  | 49.0   | 168.8  | 271.0  |  |  |  |  |  |  |
| G88.0  | 45.8   | 144.1  | 198.7  |  |  |  |  |  |  |
| G89.0  | 43.4   | 118.6  | 181.6  |  |  |  |  |  |  |
| G90.0  | 41.8   | 102.8  | 196.0  |  |  |  |  |  |  |
| G91.0  | 40.5   | 94.7   | 150.9  |  |  |  |  |  |  |
| G92.0  | 39.3   | 90.6   | 163.1  |  |  |  |  |  |  |
| G93.0  | 37.0   | 76.7   | 122.3  |  |  |  |  |  |  |
| G94.0  | 35.1   | 71.6   | 100.8  |  |  |  |  |  |  |
| G95.0  | 33.7   | 68.1   | 97.2   |  |  |  |  |  |  |
| G96.0  | 32.2   | 64.9   | 95.9   |  |  |  |  |  |  |
| G97.0  | 31.0   | 60.5   | 94.8   |  |  |  |  |  |  |
| G98.0  | 29.4   | 58.0   | 88.5   |  |  |  |  |  |  |
| G99.0  | 28.3   | 49.8   | 85.1   |  |  |  |  |  |  |
| G100.0 | 27.0   | 46.9   | 83.8   |  |  |  |  |  |  |
| G101.0 | 25.7   | 39.9   | 80.0   |  |  |  |  |  |  |
| G102.0 | 24.7   | 33.3   | 77.3   |  |  |  |  |  |  |
| G103.0 | 22.7   | 31.7   | 75.6   |  |  |  |  |  |  |
| G104.0 | 20.5   | 28.2   | 73.9   |  |  |  |  |  |  |
| G105.0 | 20.1   | 24.0   | 71.8   |  |  |  |  |  |  |
| G106.0 | 18.9   | 22.4   | 68.9   |  |  |  |  |  |  |
| G107.0 | 17.0   | 20.1   | 67.3   |  |  |  |  |  |  |
| G108.0 | 16.9   | 18.0   | 52.8   |  |  |  |  |  |  |
| G109.0 | 15.9   | 16.3   | 50.7   |  |  |  |  |  |  |
| G110.0 | 14.1   | 14.5   | 49.1   |  |  |  |  |  |  |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

### Candlepower Table (Continue 8)

Unit: cd

| G\C    | C300.0 | C330.0 | C360.0 |  |  |  |  |  |  |
|--------|--------|--------|--------|--|--|--|--|--|--|
| G111.0 | 13.3   | 13.8   | 38.7   |  |  |  |  |  |  |
| G112.0 | 11.4   | 13.0   | 36.8   |  |  |  |  |  |  |
| G113.0 | 9.5    | 12.5   | 35.1   |  |  |  |  |  |  |
| G114.0 | 9.4    | 11.9   | 29.6   |  |  |  |  |  |  |
| G115.0 | 9.1    | 11.4   | 26.9   |  |  |  |  |  |  |
| G116.0 | 8.6    | 11.0   | 25.5   |  |  |  |  |  |  |
| G117.0 | 8.2    | 10.1   | 20.9   |  |  |  |  |  |  |
| G118.0 | 7.2    | 9.6    | 19.9   |  |  |  |  |  |  |
| G119.0 | 6.8    | 8.9    | 18.4   |  |  |  |  |  |  |
| G120.0 | 6.3    | 8.0    | 16.8   |  |  |  |  |  |  |
| G121.0 | 6.0    | 7.3    | 16.0   |  |  |  |  |  |  |
| G122.0 | 5.7    | 6.6    | 14.3   |  |  |  |  |  |  |
| G123.0 | 5.7    | 5.6    | 13.3   |  |  |  |  |  |  |
| G124.0 | 5.7    | 4.8    | 12.3   |  |  |  |  |  |  |
| G125.0 | 5.4    | 4.5    | 11.1   |  |  |  |  |  |  |
| G126.0 | 5.3    | 5.5    | 15.2   |  |  |  |  |  |  |
| G127.0 | 5.1    | 5.5    | 16.4   |  |  |  |  |  |  |
| G128.0 | 4.9    | 4.2    | 15.4   |  |  |  |  |  |  |
| G129.0 | 4.8    | 5.5    | 16.2   |  |  |  |  |  |  |
| G130.0 | 4.5    | 5.4    | 17.9   |  |  |  |  |  |  |
| G131.0 | 4.5    | 6.2    | 16.6   |  |  |  |  |  |  |
| G132.0 | 4.4    | 8.6    | 16.9   |  |  |  |  |  |  |
| G133.0 | 4.1    | 8.5    | 15.2   |  |  |  |  |  |  |
| G134.0 | 4.2    | 9.0    | 13.0   |  |  |  |  |  |  |
| G135.0 | 4.1    | 8.5    | 11.9   |  |  |  |  |  |  |
| G136.0 | 4.0    | 8.1    | 10.4   |  |  |  |  |  |  |
| G137.0 | 3.7    | 7.4    | 10.0   |  |  |  |  |  |  |
| G138.0 | 3.8    | 6.9    | 10.2   |  |  |  |  |  |  |
| G139.0 | 3.7    | 6.5    | 10.2   |  |  |  |  |  |  |
| G140.0 | 3.8    | 6.0    | 10.3   |  |  |  |  |  |  |
| G141.0 | 4.0    | 5.9    | 10.2   |  |  |  |  |  |  |
| G142.0 | 4.1    | 6.0    | 10.3   |  |  |  |  |  |  |
| G143.0 | 4.3    | 5.9    | 10.3   |  |  |  |  |  |  |
| G144.0 | 4.5    | 5.8    | 9.9    |  |  |  |  |  |  |
| G145.0 | 4.5    | 5.9    | 9.2    |  |  |  |  |  |  |
| G146.0 | 4.8    | 5.8    | 9.2    |  |  |  |  |  |  |
| G147.0 | 4.8    | 5.6    | 9.3    |  |  |  |  |  |  |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector:

### Candlepower Table (Continue 9)

Unit: cd

| G\C    | C300.0 | C330.0 | C360.0 |  |  |  |  |  |  |  |
|--------|--------|--------|--------|--|--|--|--|--|--|--|
| G148.0 | 4.8    | 5.6    | 9.3    |  |  |  |  |  |  |  |
| G149.0 | 5.0    | 5.6    | 9.0    |  |  |  |  |  |  |  |
| G150.0 | 5.1    | 5.3    | 8.4    |  |  |  |  |  |  |  |
| G151.0 | 5.2    | 5.2    | 7.6    |  |  |  |  |  |  |  |
| G152.0 | 5.4    | 5.2    | 6.6    |  |  |  |  |  |  |  |
| G153.0 | 5.5    | 5.3    | 6.0    |  |  |  |  |  |  |  |
| G154.0 | 5.6    | 5.2    | 5.7    |  |  |  |  |  |  |  |
| G155.0 | 5.8    | 4.9    | 5.4    |  |  |  |  |  |  |  |
| G156.0 | 5.9    | 5.0    | 5.3    |  |  |  |  |  |  |  |
| G157.0 | 5.8    | 5.0    | 5.4    |  |  |  |  |  |  |  |
| G158.0 | 5.9    | 5.0    | 5.2    |  |  |  |  |  |  |  |
| G159.0 | 5.9    | 5.1    | 5.1    |  |  |  |  |  |  |  |
| G160.0 | 6.0    | 5.1    | 5.1    |  |  |  |  |  |  |  |
| G161.0 | 6.0    | 5.1    | 4.8    |  |  |  |  |  |  |  |
| G162.0 | 6.2    | 5.1    | 4.7    |  |  |  |  |  |  |  |
| G163.0 | 6.3    | 5.2    | 4.8    |  |  |  |  |  |  |  |
| G164.0 | 6.2    | 5.6    | 5.0    |  |  |  |  |  |  |  |
| G165.0 | 6.3    | 5.5    | 5.4    |  |  |  |  |  |  |  |
| G166.0 | 6.4    | 5.7    | 5.4    |  |  |  |  |  |  |  |
| G167.0 | 6.5    | 5.9    | 5.5    |  |  |  |  |  |  |  |
| G168.0 | 6.7    | 6.1    | 5.6    |  |  |  |  |  |  |  |
| G169.0 | 6.8    | 6.2    | 5.9    |  |  |  |  |  |  |  |
| G170.0 | 7.0    | 6.4    | 6.1    |  |  |  |  |  |  |  |
| G171.0 | 6.9    | 6.4    | 6.2    |  |  |  |  |  |  |  |
| G172.0 | 7.0    | 6.4    | 6.3    |  |  |  |  |  |  |  |
| G173.0 | 7.2    | 6.7    | 6.4    |  |  |  |  |  |  |  |
| G174.0 | 7.3    | 6.9    | 6.5    |  |  |  |  |  |  |  |
| G175.0 | 7.3    | 7.1    | 6.7    |  |  |  |  |  |  |  |
| G176.0 | 7.2    | 7.2    | 7.2    |  |  |  |  |  |  |  |
| G177.0 | 7.3    | 7.4    | 7.1    |  |  |  |  |  |  |  |
| G178.0 | 7.3    | 7.6    | 7.0    |  |  |  |  |  |  |  |
| G179.0 | 7.7    | 7.6    | 7.1    |  |  |  |  |  |  |  |
| G180.0 | 7.8    | 7.7    | 7.5    |  |  |  |  |  |  |  |
|        |        |        |        |  |  |  |  |  |  |  |
|        |        |        |        |  |  |  |  |  |  |  |
|        |        |        |        |  |  |  |  |  |  |  |
|        |        |        |        |  |  |  |  |  |  |  |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.967 m  
 Humidity:  
 Inspector: