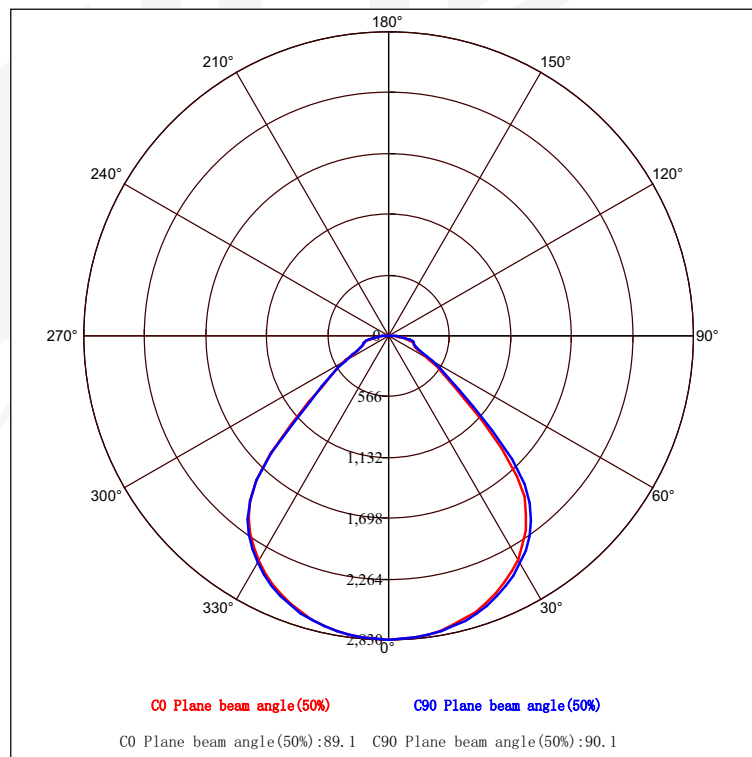


### Goniophotometer Test Report

| Measured Para U: 231.5V I: 222.0mA P: 49.79W PF: 0.967 Test LM: 5933.79lm |       |                             |                  |                        |       |
|---|-------|-----------------------------|------------------|------------------------|-------|
| Lamp Name: PL SQ 50W  |       | Lamp Type:                  |                  | Weight(kg):            |       |
| Lamp ID:  |       | Lamp Spec:                  |                  | Shape Size: 595*595*33 |       |
| Manufactory:  |       | Sur(m <sup>2</sup> ): 0.306 |                  | Protect Angle(Deg):    |       |
| Light Source Data   |       |                             | Photometric Data |                        |       |
| Model   |       | Peak Value(cd)              | 2827.5           | Efficiency(lm/w)       | 119.2 |
| Nominal P(w)  | 1.0   | Position                    | 45.0, 0.0        | UP(C0-C180)            | 0.0   |
| Rated Volt(v)   | 230.0 | Total Flux(lm)              | 5933.786         | Down(C0-C180)          | 50.9  |
| Rated Flux(lm)  | 1.0   | Up Flux Rate(%)             | 0.0              | UP(C180-C360)          | 0.0   |
| Illuminant QTY  | 1     | Dw Flux Rate(%)             | 100.0            | Down(C180-C360)        | 49.1  |

### Planar Intensity Distribution Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 2.5

Temperature(Deg): 25

Distance(m): 9.800

C Angle Range:0 - 180(Deg)

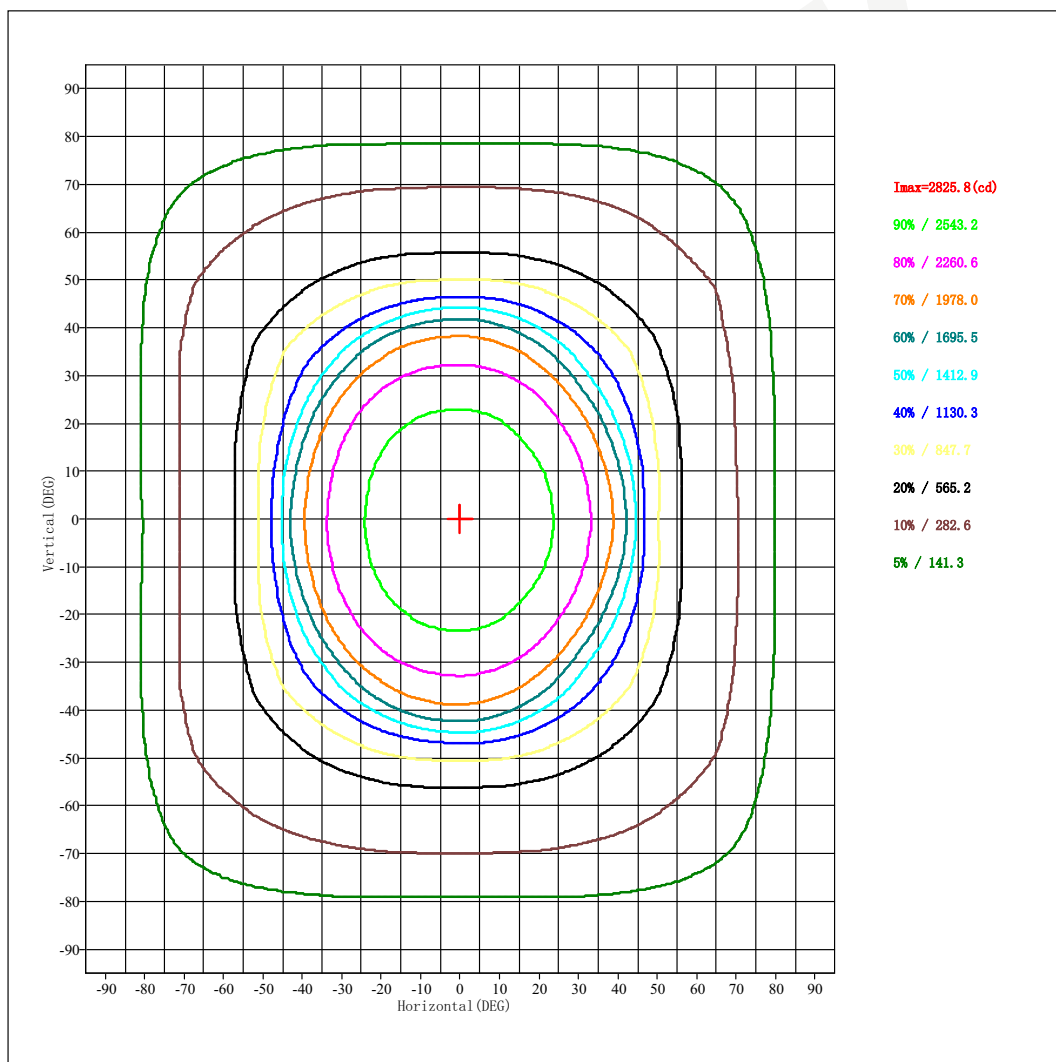
C interval(Deg): 45

Humidity(%): 60

Date: 2022-06-15

|   |                             |                        |
|---|-----------------------------|------------------------|
| Measured Para U: 231.5V I: 222.0mA P: 49.79W PF: 0.967 Test LM: 5933.79lm |                             |                        |
| Lamp Name: PL SQ 50W  | Lamp Type:                  | Weight(kg):            |
| Lamp ID:  | Lamp Spec:                  | Shape Size: 595*595*33 |
| Manufactory:  | Sur(m <sup>2</sup> ): 0.306 | Protect Angle(Deg):    |

Planar IsoCandela Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 2.5

Temperature(Deg): 25

Distance(m): 9.800

C Angle Range:0 - 180(Deg)

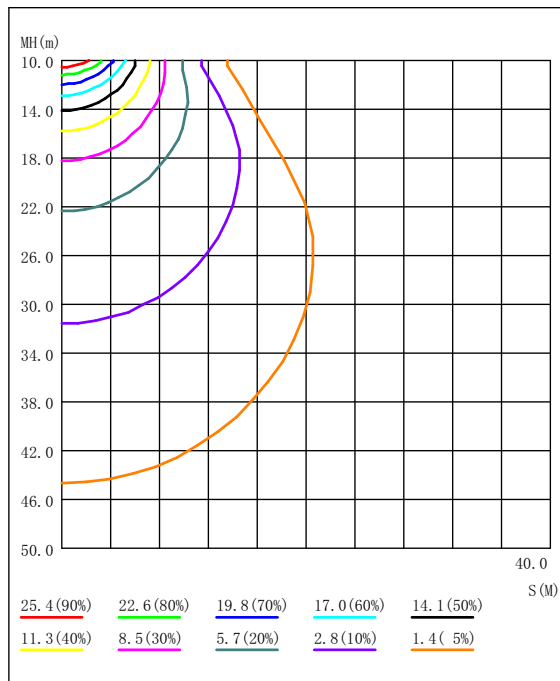
C interval(Deg): 45

Humidity(%): 60

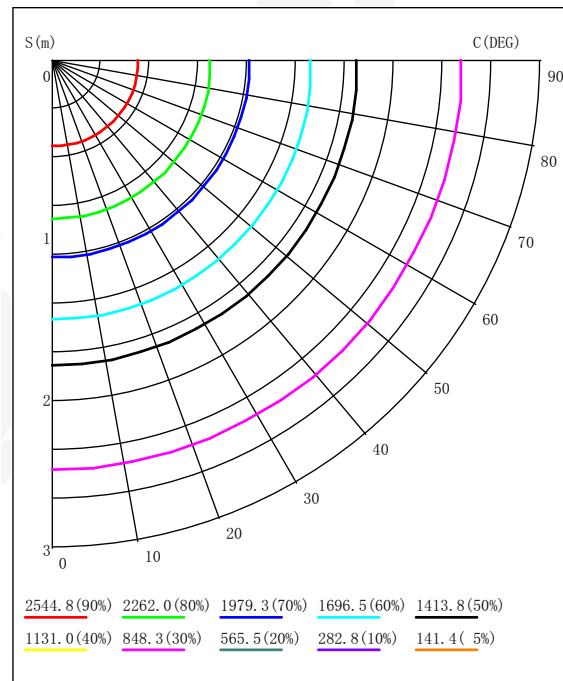
Date: 2022-06-15

|   |                              |                        |
|---|------------------------------|------------------------|
| Measured Para U: 231.5V I: 222.0mA P: 49.79W PF: 0.967 Test LM: 5933.79lm |                              |                        |
| Lamp Name: PL SQ 50W  | Lamp Type:                   | Weight (kg):           |
| Lamp ID:  | Lamp Spec:                   | Shape Size: 595*595*33 |
| Manufactory:  | Sur (m <sup>2</sup> ): 0.306 | Protect Angle (Deg):   |

Spacial ISOLUX Curve



Planar ISOLUX Curve



Gama Angle Range:-90 - 90 (Deg)  
Gama interval (Deg): 2.5  
Temperature (Deg): 25  
Distance (m): 9.800

C Angle Range:0 - 180 (Deg)  
C interval (Deg): 45  
Humidity (%): 60  
Date: 2022-06-15

|   |                              |                        |
|---|------------------------------|------------------------|
| Measured Para U: 231.5V I: 222.0mA P: 49.79W PF: 0.967 Test LM: 5933.79lm |                              |                        |
| Lamp Name: PL SQ 50W  | Lamp Type:                   | Weight (kg):           |
| Lamp ID:  | Lamp Spec:                   | Shape Size: 595*595*33 |
| Manufactory:  | Sur (m <sup>2</sup> ): 0.306 | Protect Angle (Deg):   |

Luminance Limit Curve

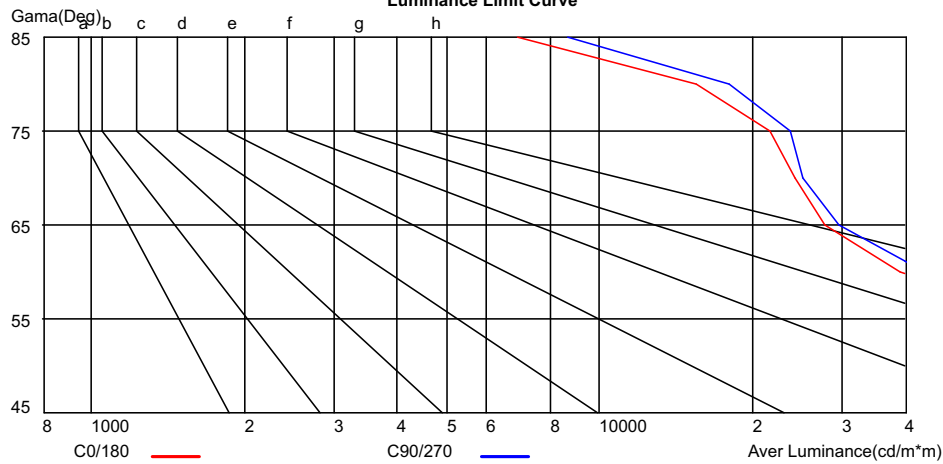
Aver Luminance(cd/m<sup>2</sup>m)

| Gm(Deg) | 45       | 50      | 55      | 60      | 65      | 70      | 75      | 80      | 85     |
|---------|----------|---------|---------|---------|---------|---------|---------|---------|--------|
| C0      | 132211.5 | 81576.4 | 57522.2 | 39272.7 | 27891.0 | 24342.3 | 21726.2 | 15531.6 | 6915.8 |
| C90     | 147283.1 | 90879.8 | 62751.6 | 43571.4 | 29606.3 | 25179.8 | 23824.6 | 18014.2 | 8646.5 |

Glare

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

Luminance Limit Curve

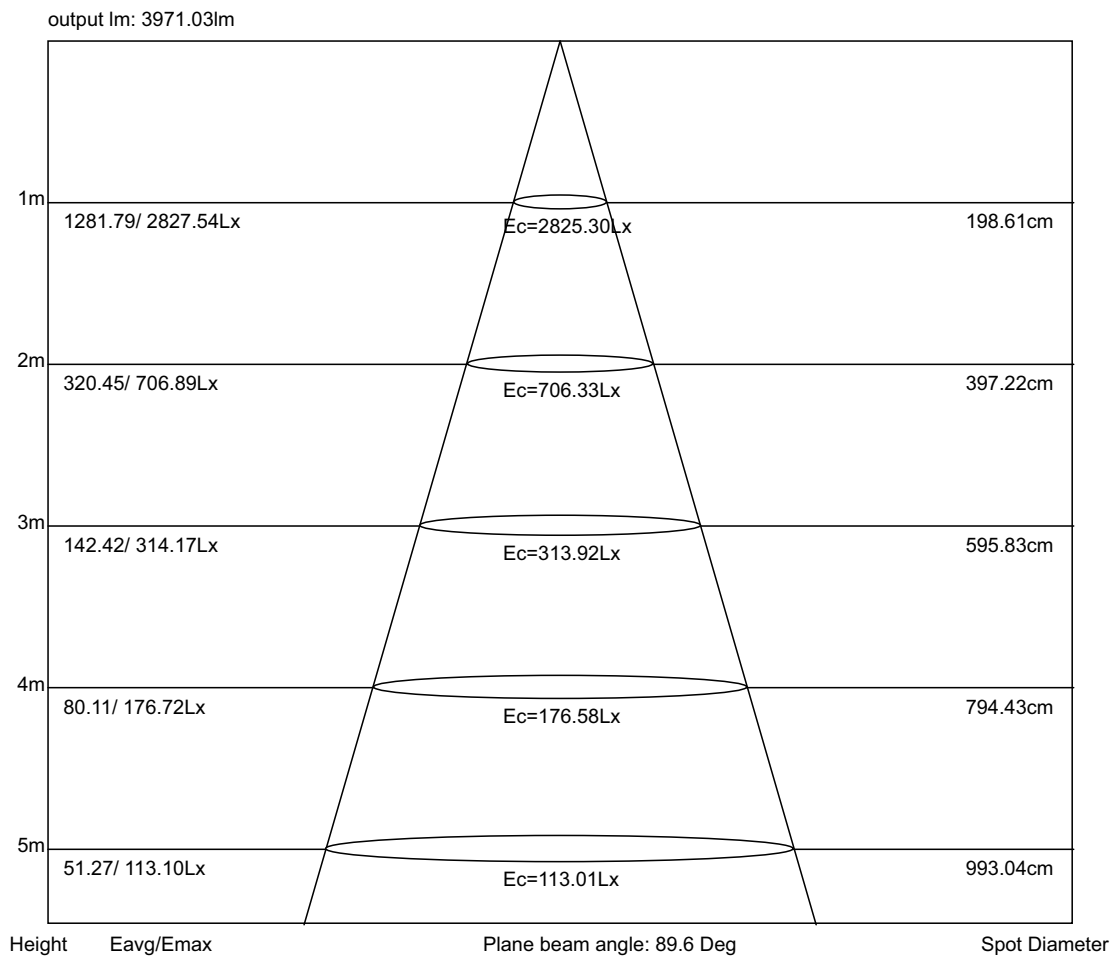


Gama Angle Range:-90 - 90 (Deg)  
Gama interval (Deg): 2.5  
Temperature (Deg): 25  
Distance (m): 9.800

C Angle Range:0 - 180 (Deg)  
C interval (Deg): 45  
Humidity (%): 60  
Date: 2022-06-15

|   |                              |                        |
|---|------------------------------|------------------------|
| Measured Para U: 231.5V I: 222.0mA P: 49.79W PF: 0.967 Test LM: 5933.79lm |                              |                        |
| Lamp Name: PL SQ 50W  | Lamp Type:                   | Weight (kg):           |
| Lamp ID:  | Lamp Spec:                   | Shape Size: 595*595*33 |
| Manufactory:  | Sur (m <sup>2</sup> ): 0.306 | Protect Angle (Deg):   |

**Average Illumination**



Gama Angle Range:-90 - 90 (Deg)

Gama interval (Deg): 2.5

Temperature (Deg): 25

Distance (m): 9.800

C Angle Range:0 - 180 (Deg)

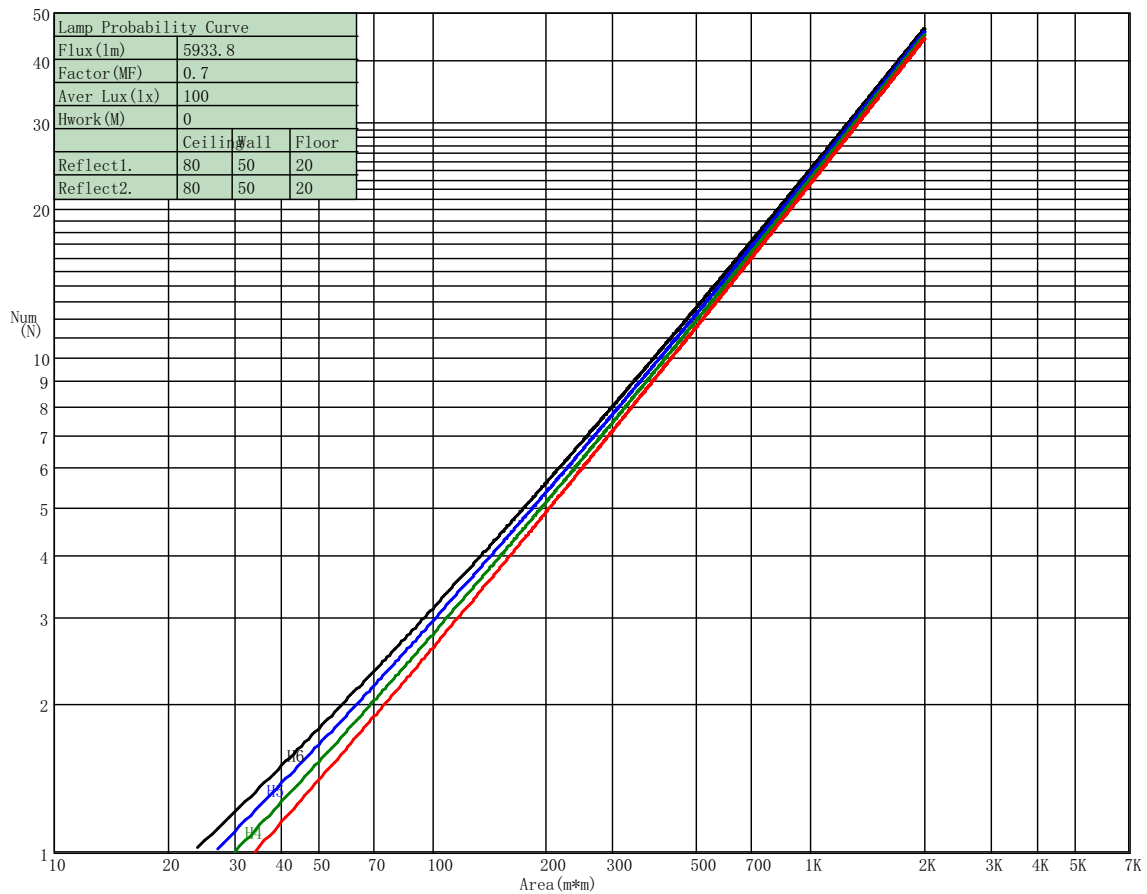
C interval (Deg): 45

Humidity (%): 60

Date: 2022-06-15

|   |                              |                        |
|---|------------------------------|------------------------|
| Measured Para U: 231.5V I: 222.0mA P: 49.79W PF: 0.967 Test LM: 5933.79lm |                              |                        |
| Lamp Name: PL SQ 50W  | Lamp Type:                   | Weight (kg):           |
| Lamp ID:  | Lamp Spec:                   | Shape Size: 595*595*33 |
| Manufactory:  | Sur (m <sup>2</sup> ): 0.306 | Protect Angle (Deg):   |

Lamp Probability Curve



Gama Angle Range: -90 - 90 (Deg)  
 Gama interval (Deg): 2.5  
 Temperature (Deg): 25  
 Distance (m): 9.800

C Angle Range: 0 - 180 (Deg)  
 C interval (Deg): 45  
 Humidity (%): 60  
 Date: 2022-06-15

|   |                              |                        |
|---|------------------------------|------------------------|
| Measured Para U: 231.5V I: 222.0mA P: 49.79W PF: 0.967 Test LM: 5933.79lm |                              |                        |
| Lamp Name: PL SQ 50W  | Lamp Type:                   | Weight (kg) :          |
| Lamp ID:  | Lamp Spec:                   | Shape Size: 595*595*33 |
| Manufactory:  | Sur (m <sup>2</sup> ): 0.306 | Protect Angle (Deg):   |

**UF Table**

|         |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 |
| Wall    | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 |
| Floor   | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 0.60    | 57  | 44  | 35  | 56  | 43  | 35  | 53  | 42  | 34  |
| 0.80    | 60  | 44  | 33  | 57  | 43  | 33  | 54  | 41  | 32  |
| 1.00    | 61  | 45  | 33  | 59  | 43  | 32  | 54  | 41  | 31  |
| 1.25    | 63  | 45  | 32  | 60  | 44  | 31  | 55  | 41  | 30  |
| 1.50    | 65  | 46  | 32  | 61  | 44  | 31  | 55  | 41  | 29  |
| 2.00    | 67  | 48  | 32  | 63  | 45  | 31  | 56  | 41  | 29  |
| 2.50    | 68  | 48  | 32  | 64  | 46  | 31  | 57  | 41  | 28  |
| 3.00    | 69  | 49  | 32  | 65  | 47  | 31  | 57  | 42  | 28  |
| 4.00    | 71  | 51  | 33  | 66  | 48  | 32  | 58  | 42  | 28  |
| 5.00    | 72  | 52  | 34  | 67  | 49  | 32  | 59  | 43  | 29  |

**CoEfficients Utilization**

|             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Ceiling (%) |      | 0    |      |      | 0    |      |      | 0    |      |      | 0    |      |      | 0    |      |
| Wall (%)    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Floor (%)   |      | 0    |      |      | 0    |      |      | 0    |      |      | 0    |      |      | 0    |      |
| 0           | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 |
| 1           | 1.06 | 1.02 | 0.99 | 1.04 | 1    | 0.97 | 1    | 0.97 | 0.94 | 0.96 | 0.94 | 0.91 | 0.92 | 0.9  | 0.89 |
| 2           | 0.95 | 0.89 | 0.84 | 0.93 | 0.87 | 0.83 | 0.89 | 0.85 | 0.81 | 0.86 | 0.82 | 0.79 | 0.83 | 0.8  | 0.77 |
| 3           | 0.85 | 0.78 | 0.72 | 0.83 | 0.77 | 0.71 | 0.8  | 0.75 | 0.7  | 0.78 | 0.73 | 0.69 | 0.75 | 0.71 | 0.68 |
| 4           | 0.76 | 0.69 | 0.63 | 0.75 | 0.68 | 0.62 | 0.73 | 0.66 | 0.61 | 0.71 | 0.65 | 0.61 | 0.68 | 0.64 | 0.6  |
| 5           | 0.69 | 0.61 | 0.55 | 0.68 | 0.61 | 0.55 | 0.66 | 0.6  | 0.54 | 0.64 | 0.58 | 0.54 | 0.63 | 0.57 | 0.53 |
| 6           | 0.63 | 0.55 | 0.49 | 0.62 | 0.55 | 0.49 | 0.61 | 0.54 | 0.49 | 0.59 | 0.53 | 0.48 | 0.57 | 0.52 | 0.48 |
| 7           | 0.58 | 0.5  | 0.44 | 0.57 | 0.49 | 0.44 | 0.56 | 0.49 | 0.44 | 0.54 | 0.48 | 0.43 | 0.53 | 0.47 | 0.43 |
| 8           | 0.53 | 0.45 | 0.4  | 0.52 | 0.45 | 0.4  | 0.51 | 0.44 | 0.4  | 0.5  | 0.44 | 0.39 | 0.49 | 0.43 | 0.39 |
| 9           | 0.49 | 0.41 | 0.36 | 0.49 | 0.41 | 0.36 | 0.47 | 0.41 | 0.36 | 0.46 | 0.4  | 0.36 | 0.45 | 0.4  | 0.36 |
| 10          | 0.46 | 0.38 | 0.33 | 0.45 | 0.38 | 0.33 | 0.44 | 0.38 | 0.33 | 0.43 | 0.37 | 0.33 | 0.42 | 0.37 | 0.33 |

Gama Angle Range: -90 - 90 (Deg)  
 Gama interval (Deg): 2.5  
 Temperature (Deg): 25  
 Distance (m): 9.800

C Angle Range: 0 - 180 (Deg)  
 C interval (Deg): 45  
 Humidity (%): 60  
 Date: 2022-06-15

|   |                              |                        |
|---|------------------------------|------------------------|
| Measured Para U: 231.5V I: 222.0mA P: 49.79W PF: 0.967 Test LM: 5933.79lm |                              |                        |
| Lamp Name: PL SQ 50W  | Lamp Type:                   | Weight (kg) :          |
| Lamp ID:  | Lamp Spec:                   | Shape Size: 595*595*33 |
| Manufactory:  | Sur (m <sup>2</sup> ): 0.306 | Protect Angle (Deg):   |

**Wall Exitance CoEfficients**

|             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Ceiling (%) |      | 0    |      |      | 0    |      |      | 0    |      |      | 0    |      |      | 0    |      |
| Wall (%)    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Floor (%)   |      | 0    |      |      | 0    |      |      | 0    |      |      | 0    |      |      | 0    |      |
| 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1           | 0.27 | 0.15 | 0.05 | 0.26 | 0.15 | 0.05 | 0.25 | 0.14 | 0.05 | 0.24 | 0.14 | 0.04 | 0.22 | 0.13 | 0.04 |
| 2           | 0.25 | 0.14 | 0.04 | 0.25 | 0.14 | 0.04 | 0.23 | 0.13 | 0.04 | 0.22 | 0.13 | 0.04 | 0.21 | 0.12 | 0.04 |
| 3           | 0.24 | 0.13 | 0.04 | 0.23 | 0.12 | 0.04 | 0.22 | 0.12 | 0.04 | 0.21 | 0.12 | 0.04 | 0.2  | 0.11 | 0.03 |
| 4           | 0.22 | 0.11 | 0.03 | 0.21 | 0.11 | 0.03 | 0.21 | 0.11 | 0.03 | 0.2  | 0.11 | 0.03 | 0.19 | 0.1  | 0.03 |
| 5           | 0.21 | 0.1  | 0.03 | 0.2  | 0.1  | 0.03 | 0.19 | 0.1  | 0.03 | 0.19 | 0.1  | 0.03 | 0.18 | 0.1  | 0.03 |
| 6           | 0.19 | 0.1  | 0.03 | 0.19 | 0.1  | 0.03 | 0.18 | 0.09 | 0.03 | 0.18 | 0.09 | 0.03 | 0.17 | 0.09 | 0.03 |
| 7           | 0.18 | 0.09 | 0.03 | 0.18 | 0.09 | 0.03 | 0.17 | 0.09 | 0.02 | 0.17 | 0.08 | 0.02 | 0.16 | 0.08 | 0.02 |
| 8           | 0.17 | 0.08 | 0.02 | 0.17 | 0.08 | 0.02 | 0.16 | 0.08 | 0.02 | 0.16 | 0.08 | 0.02 | 0.15 | 0.08 | 0.02 |
| 9           | 0.16 | 0.08 | 0.02 | 0.16 | 0.08 | 0.02 | 0.15 | 0.08 | 0.02 | 0.15 | 0.07 | 0.02 | 0.14 | 0.07 | 0.02 |
| 10          | 0.15 | 0.07 | 0.02 | 0.15 | 0.07 | 0.02 | 0.15 | 0.07 | 0.02 | 0.14 | 0.07 | 0.02 | 0.14 | 0.07 | 0.02 |

**Ceiling Cavity Exitance CoEfficients**

|             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Ceiling (%) |      | 0    |      |      | 0    |      |      | 0    |      |      | 0    |      |      | 0    |      |
| Wall (%)    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Floor (%)   |      | 0    |      |      | 0    |      |      | 0    |      |      | 0    |      |      | 0    |      |
| 0           | 0.19 | 0.19 | 0.19 | 0.16 | 0.16 | 0.16 | 0.11 | 0.11 | 0.11 | 0.06 | 0.06 | 0.06 | 0.02 | 0.02 | 0.02 |
| 1           | 0.18 | 0.16 | 0.14 | 0.15 | 0.13 | 0.12 | 0.1  | 0.09 | 0.08 | 0.06 | 0.05 | 0.05 | 0.02 | 0.02 | 0.02 |
| 2           | 0.17 | 0.13 | 0.1  | 0.14 | 0.11 | 0.09 | 0.1  | 0.08 | 0.06 | 0.06 | 0.05 | 0.04 | 0.02 | 0.01 | 0.01 |
| 3           | 0.16 | 0.11 | 0.08 | 0.14 | 0.1  | 0.07 | 0.09 | 0.07 | 0.05 | 0.05 | 0.04 | 0.03 | 0.02 | 0.01 | 0.01 |
| 4           | 0.15 | 0.1  | 0.06 | 0.13 | 0.09 | 0.05 | 0.09 | 0.06 | 0.04 | 0.05 | 0.04 | 0.02 | 0.02 | 0.01 | 0.01 |
| 5           | 0.14 | 0.09 | 0.05 | 0.12 | 0.08 | 0.04 | 0.08 | 0.05 | 0.03 | 0.05 | 0.03 | 0.02 | 0.02 | 0.01 | 0.01 |
| 6           | 0.13 | 0.08 | 0.04 | 0.12 | 0.07 | 0.04 | 0.08 | 0.05 | 0.03 | 0.05 | 0.03 | 0.02 | 0.01 | 0.01 | 0.01 |
| 7           | 0.13 | 0.07 | 0.04 | 0.11 | 0.06 | 0.03 | 0.08 | 0.04 | 0.02 | 0.04 | 0.03 | 0.01 | 0.01 | 0.01 | 0    |
| 8           | 0.12 | 0.07 | 0.03 | 0.11 | 0.06 | 0.03 | 0.07 | 0.04 | 0.02 | 0.04 | 0.02 | 0.01 | 0.01 | 0.01 | 0    |
| 9           | 0.12 | 0.06 | 0.03 | 0.1  | 0.05 | 0.02 | 0.07 | 0.04 | 0.02 | 0.04 | 0.02 | 0.01 | 0.01 | 0.01 | 0    |
| 10          | 0.11 | 0.06 | 0.02 | 0.1  | 0.05 | 0.02 | 0.07 | 0.04 | 0.01 | 0.04 | 0.02 | 0.01 | 0.01 | 0.01 | 0    |

Gama Angle Range:-90 - 90 (Deg)

C Angle Range:0 - 180 (Deg)

Gama interval (Deg): 2.5

C interval (Deg): 45

Temperature (Deg): 25

Humidity (%): 60

Distance (m): 9.800

Date: 2022-06-15



|   |                             |                        |
|---|-----------------------------|------------------------|
| Measured Para U: 231.5V I: 222.0mA P: 49.79W PF: 0.967 Test LM: 5933.79lm |                             |                        |
| Lamp Name: PL SQ 50W  | Lamp Type:                  | Weight(kg):            |
| Lamp ID:  | Lamp Spec:                  | Shape Size: 595*595*33 |
| Manufactory:  | Sur(m <sup>2</sup> ): 0.306 | Protect Angle(Deg):    |

Ring-shaped Flux Data Table

| Gm\C(Deg) | 0    | 45   | 90   | 135  | 180  | 225  | 270  | 315  | Range   | Ring | T(lm) |
|-----------|------|------|------|------|------|------|------|------|---------|------|-------|
| 5         | 2814 | 2820 | 2818 | 2818 | 2819 | 2813 | 2814 | 2811 | 0-5     | 67.4 | 67.4  |
| 10        | 2775 | 2788 | 2787 | 2787 | 2784 | 2775 | 2782 | 2767 | 5-10    | 200  | 268   |
| 15        | 2711 | 2729 | 2734 | 2729 | 2723 | 2711 | 2722 | 2707 | 10-15   | 326  | 594   |
| 20        | 2623 | 2646 | 2648 | 2642 | 2636 | 2621 | 2644 | 2618 | 15-20   | 441  | 1035  |
| 25        | 2506 | 2534 | 2544 | 2539 | 2523 | 2502 | 2536 | 2499 | 20-25   | 541  | 1576  |
| 30        | 2359 | 2395 | 2406 | 2396 | 2378 | 2348 | 2396 | 2344 | 25-30   | 620  | 2196  |
| 35        | 2161 | 2207 | 2225 | 2209 | 2190 | 2122 | 2206 | 2125 | 30-35   | 672  | 2868  |
| 40        | 1884 | 1888 | 1965 | 1900 | 1929 | 1685 | 1935 | 1710 | 35-40   | 677  | 3546  |
| 45        | 1322 | 1386 | 1473 | 1391 | 1378 | 1254 | 1361 | 1260 | 40-45   | 597  | 4143  |
| 50        | 816  | 1066 | 909  | 1079 | 854  | 997  | 846  | 1007 | 45-50   | 456  | 4599  |
| 55        | 575  | 816  | 628  | 831  | 598  | 756  | 602  | 759  | 50-55   | 355  | 4954  |
| 60        | 393  | 563  | 436  | 560  | 407  | 504  | 413  | 500  | 55-60   | 268  | 5222  |
| 65        | 279  | 430  | 296  | 426  | 286  | 407  | 299  | 404  | 60-65   | 196  | 5418  |
| 70        | 243  | 335  | 252  | 332  | 247  | 331  | 250  | 332  | 65-70   | 163  | 5580  |
| 75        | 217  | 261  | 238  | 259  | 227  | 224  | 225  | 224  | 70-75   | 137  | 5717  |
| 80        | 155  | 212  | 180  | 214  | 165  | 183  | 170  | 176  | 75-80   | 111  | 5828  |
| 85        | 69.2 | 139  | 86.5 | 138  | 83.1 | 97.1 | 80.7 | 97.7 | 80-85   | 78.2 | 5906  |
| 90        | 4.09 | 15.1 | 8.38 | 14.3 | 7.18 | 5.65 | 4.68 | 3    | 85-90   | 27.3 | 5934  |
| 95        |      |      |      |      |      |      |      |      | 90-95   |      |       |
| 100       |      |      |      |      |      |      |      |      | 95-100  |      |       |
| 105       |      |      |      |      |      |      |      |      | 100-105 |      |       |
| 110       |      |      |      |      |      |      |      |      | 105-110 |      |       |
| 115       |      |      |      |      |      |      |      |      | 110-115 |      |       |
| 120       |      |      |      |      |      |      |      |      | 115-120 |      |       |
| 125       |      |      |      |      |      |      |      |      | 120-125 |      |       |
| 130       |      |      |      |      |      |      |      |      | 125-130 |      |       |
| 135       |      |      |      |      |      |      |      |      | 130-135 |      |       |
| 140       |      |      |      |      |      |      |      |      | 135-140 |      |       |
| 145       |      |      |      |      |      |      |      |      | 140-145 |      |       |
| 150       |      |      |      |      |      |      |      |      | 145-150 |      |       |
| 155       |      |      |      |      |      |      |      |      | 150-155 |      |       |
| 160       |      |      |      |      |      |      |      |      | 155-160 |      |       |
| 165       |      |      |      |      |      |      |      |      | 160-165 |      |       |
| 170       |      |      |      |      |      |      |      |      | 165-170 |      |       |
| 175       |      |      |      |      |      |      |      |      | 170-175 |      |       |
| 180       |      |      |      |      |      |      |      |      | 175-180 |      |       |

Gama Angle Range:-90 - 90(Deg)  
Gama interval(Deg): 2.5  
Temperature(Deg): 25  
Distance(m): 9.800

C Angle Range:0 - 180(Deg)  
C interval(Deg): 45  
Humidity(%): 60  
Date: 2022-06-15

|   |                              |                        |
|---|------------------------------|------------------------|
| Measured Para U: 231.5V I: 222.0mA P: 49.79W PF: 0.967 Test LM: 5933.79lm |                              |                        |
| Lamp Name: PL SQ 50W  | Lamp Type:                   | Weight (kg):           |
| Lamp ID:  | Lamp Spec:                   | Shape Size: 595*595*33 |
| Manufactory:  | Sur (m <sup>2</sup> ): 0.306 | Protect Angle (Deg):   |

CD Table

| Gm\C (Deg) | 0    | 20   | 40   | 60   | 80   | 100  | 120  | 140  | 160  | 180  | 200  | 220  | 240  | 260  | 280  | 300  | 320  | 340  |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 5.0        | 2814 | 2817 | 2819 | 2819 | 2818 | 2818 | 2818 | 2818 | 2818 | 2819 | 2816 | 2814 | 2813 | 2814 | 2814 | 2812 | 2811 | 2813 |
| 10.0       | 2775 | 2781 | 2786 | 2787 | 2787 | 2787 | 2787 | 2787 | 2785 | 2784 | 2780 | 2776 | 2777 | 2781 | 2779 | 2772 | 2768 | 2771 |
| 15.0       | 2711 | 2719 | 2727 | 2731 | 2733 | 2733 | 2731 | 2729 | 2726 | 2723 | 2718 | 2712 | 2715 | 2720 | 2719 | 2712 | 2707 | 2709 |
| 20.0       | 2623 | 2633 | 2643 | 2647 | 2647 | 2647 | 2644 | 2642 | 2639 | 2636 | 2629 | 2623 | 2629 | 2639 | 2638 | 2627 | 2619 | 2621 |
| 25.0       | 2506 | 2518 | 2531 | 2537 | 2542 | 2543 | 2540 | 2537 | 2530 | 2523 | 2514 | 2504 | 2513 | 2528 | 2528 | 2511 | 2499 | 2503 |
| 30.0       | 2359 | 2374 | 2391 | 2398 | 2404 | 2404 | 2400 | 2394 | 2386 | 2378 | 2365 | 2352 | 2364 | 2386 | 2384 | 2361 | 2345 | 2352 |
| 35.0       | 2161 | 2181 | 2202 | 2213 | 2221 | 2221 | 2214 | 2207 | 2198 | 2190 | 2161 | 2130 | 2150 | 2188 | 2188 | 2151 | 2129 | 2145 |
| 40.0       | 1884 | 1885 | 1887 | 1913 | 1948 | 1951 | 1921 | 1903 | 1916 | 1929 | 1822 | 1711 | 1767 | 1880 | 1886 | 1784 | 1729 | 1807 |
| 45.0       | 1322 | 1350 | 1379 | 1415 | 1454 | 1455 | 1418 | 1390 | 1384 | 1378 | 1324 | 1268 | 1289 | 1338 | 1339 | 1294 | 1267 | 1295 |
| 50.0       | 816  | 925  | 1039 | 1014 | 943  | 946  | 1023 | 1054 | 952  | 854  | 917  | 982  | 948  | 879  | 882  | 954  | 986  | 900  |
| 55.0       | 575  | 681  | 790  | 754  | 669  | 672  | 764  | 805  | 700  | 598  | 667  | 739  | 705  | 635  | 636  | 707  | 738  | 655  |
| 60.0       | 393  | 467  | 544  | 521  | 463  | 463  | 519  | 543  | 474  | 407  | 450  | 494  | 474  | 433  | 432  | 471  | 488  | 440  |
| 65.0       | 279  | 345  | 413  | 386  | 325  | 324  | 383  | 411  | 347  | 286  | 339  | 394  | 372  | 323  | 322  | 370  | 391  | 334  |
| 70.0       | 243  | 283  | 325  | 308  | 270  | 269  | 306  | 323  | 284  | 247  | 283  | 322  | 304  | 268  | 268  | 305  | 322  | 282  |
| 75.0       | 217  | 237  | 257  | 254  | 243  | 243  | 252  | 255  | 241  | 227  | 225  | 224  | 224  | 225  | 225  | 225  | 223  | 220  |
| 80.0       | 155  | 180  | 205  | 201  | 187  | 188  | 203  | 209  | 187  | 165  | 173  | 181  | 178  | 172  | 171  | 174  | 173  | 164  |
| 85.0       | 69.2 | 99.8 | 132  | 122  | 98   | 97.6 | 121  | 132  | 107  | 83.1 | 89.2 | 95.6 | 91.7 | 84.3 | 84.4 | 92.1 | 94.5 | 81.6 |
| 90.0       | 4.09 | 8.89 | 13.9 | 12.9 | 9.85 | 9.67 | 12.3 | 13.5 | 10.3 | 7.18 | 6.51 | 5.82 | 5.33 | 4.89 | 4.31 | 3.55 | 3.12 | 3.61 |
| 95.0       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 100.0      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 105.0      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 110.0      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 115.0      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 120.0      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 125.0      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 130.0      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 135.0      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 140.0      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 145.0      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 150.0      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 155.0      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 160.0      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 165.0      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 170.0      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 175.0      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 180.0      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

Gama Angle Range:-90 - 90(Deg)

C Angle Range:0 - 180(Deg)

Gama interval (Deg): 2.5

C interval (Deg): 45

Temperature (Deg): 25

Humidity (%): 60

Distance (m): 9.800

Date: 2022-06-15

|   |                             |                        |
|---|-----------------------------|------------------------|
| Measured Para U: 231.5V I: 222.0mA P: 49.79W PF: 0.967 Test LM: 5933.79lm |                             |                        |
| Lamp Name: PL SQ 50W  | Lamp Type:                  | Weight(kg):            |
| Lamp ID:  | Lamp Spec:                  | Shape Size: 595*595*33 |
| Manufactory:  | Sur(m <sup>2</sup> ): 0.306 | Protect Angle(Deg):    |

UGR

|  |                  |          |      |      |      |                |          |      |      |      |      |
|--|------------------|----------|------|------|------|----------------|----------|------|------|------|------|
| ceiling/cavity                                     | 0.7              | 0.7      | 0.5  | 0.5  | 0.3  | 0.7            | 0.7      | 0.5  | 0.5  | 0.3  |      |
| walls  | 0.5              | 0.3      | 0.5  | 0.3  | 0.3  | 0.5            | 0.3      | 0.5  | 0.3  | 0.3  |      |
| working 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           | 18.0     | 19.2 | 18.2 | 19.4 | 19.5           | 18.2     | 19.4 | 18.4 | 19.6 | 19.8 |
|  | 3H               | 18.1     | 19.2 | 18.4 | 19.4 | 19.6           | 18.3     | 19.5 | 18.6 | 19.7 | 19.9 |
|  | 4H               | 18.3     | 19.3 | 18.5 | 19.5 | 19.7           | 18.5     | 19.6 | 18.8 | 19.8 | 20.0 |
|  | 6H               | 18.4     | 19.4 | 18.7 | 19.7 | 19.9           | 18.7     | 19.7 | 19.0 | 20.0 | 20.2 |
|  | 8H               | 18.5     | 19.5 | 18.8 | 19.7 | 20.0           | 18.8     | 19.8 | 19.1 | 20.0 | 20.3 |
|  | 12H              | 18.6     | 19.5 | 18.9 | 19.7 | 20.0           | 18.9     | 19.8 | 19.2 | 20.1 | 20.4 |
| 4H   | 2H               | 17.9     | 18.9 | 18.2 | 19.1 | 19.4           | 18.1     | 19.1 | 18.4 | 19.4 | 19.6 |
|  | 3H               | 18.3     | 19.1 | 18.6 | 19.4 | 19.7           | 18.5     | 19.3 | 18.8 | 19.6 | 19.9 |
|  | 4H               | 18.6     | 19.3 | 18.9 | 19.6 | 20.0           | 18.8     | 19.6 | 19.1 | 19.9 | 20.2 |
|  | 6H               | 18.9     | 19.6 | 19.3 | 19.9 | 20.3           | 19.2     | 19.9 | 19.6 | 20.2 | 20.6 |
|  | 8H               | 19.1     | 19.7 | 19.5 | 20.1 | 20.4           | 19.4     | 20.0 | 19.8 | 20.4 | 20.7 |
|  | 12H              | 19.2     | 19.8 | 19.6 | 20.2 | 20.5           | 19.5     | 20.1 | 19.9 | 20.5 | 20.9 |
| 8H   | 4H               | 19.7     | 20.3 | 20.1 | 20.7 | 21.1           | 19.9     | 20.5 | 20.3 | 20.9 | 21.3 |
|  | 6H               | 20.3     | 20.8 | 20.7 | 21.2 | 21.7           | 20.6     | 21.1 | 21.0 | 21.5 | 21.9 |
|  | 8H               | 20.6     | 21.1 | 21.1 | 21.5 | 21.9           | 20.9     | 21.4 | 21.4 | 21.8 | 22.2 |
|  | 12H              | 20.8     | 21.2 | 21.3 | 21.7 | 22.1           | 21.2     | 21.6 | 21.6 | 22.0 | 22.5 |
| 12H  | 4H               | 19.7     | 20.2 | 20.2 | 20.6 | 21.1           | 19.9     | 20.4 | 20.4 | 20.8 | 21.3 |
|  | 6H               | 20.4     | 20.8 | 20.9 | 21.3 | 21.7           | 20.7     | 21.1 | 21.1 | 21.5 | 22.0 |
|  | 8H               | 20.8     | 21.1 | 21.3 | 21.6 | 22.1           | 21.1     | 21.4 | 21.5 | 21.9 | 22.4 |
| Variations with the observer position at spacings: |                  |          |      |      |      |                |          |      |      |      |      |
| S = 1.0H   |                  | 1.0/-1.4 |      |      |      |                | 0.9/-1.3 |      |      |      |      |
| 1.5H   |                  | 1.7/-1.3 |      |      |      |                | 1.6/-1.2 |      |      |      |      |
| 2.0H   |                  | 0.6/-0.8 |      |      |      |                | 0.8/-0.7 |      |      |      |      |

Gama Angle Range:-90 - 90(Deg)

C Angle Range:0 - 180(Deg)

Gama interval(Deg): 2.5

C interval(Deg): 45

Temperature(Deg): 25

Humidity(%): 60

Distance(m): 9.800

Date: 2022-06-15