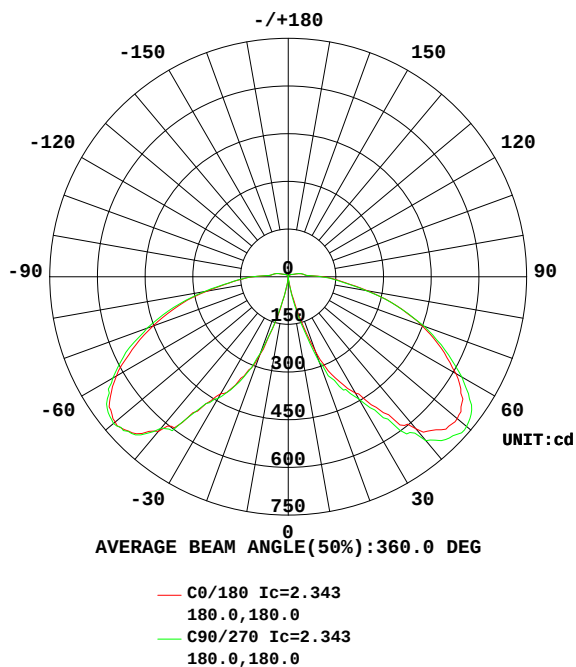
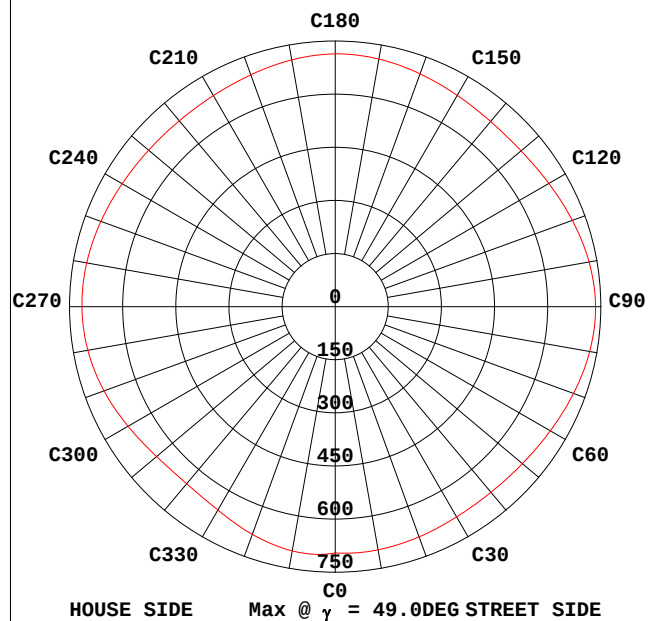


## STREETLIGHT PHOTOMETRIC TEST REPORT

|                                                                                  |              |                  |
|----------------------------------------------------------------------------------|--------------|------------------|
| Test:U:119.86V I:0.1783A P:21.231W PF:0.9933 Freq:59.98Hz Lamp Flux:2925.95x1 lm |              |                  |
| NAME: PLTS-12359 22W 5000K                                                       | TYPE:        | WEIGHT:          |
| SPEC.:                                                                           | DIM.:        | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 0.02*1 | Shielding Angle: |

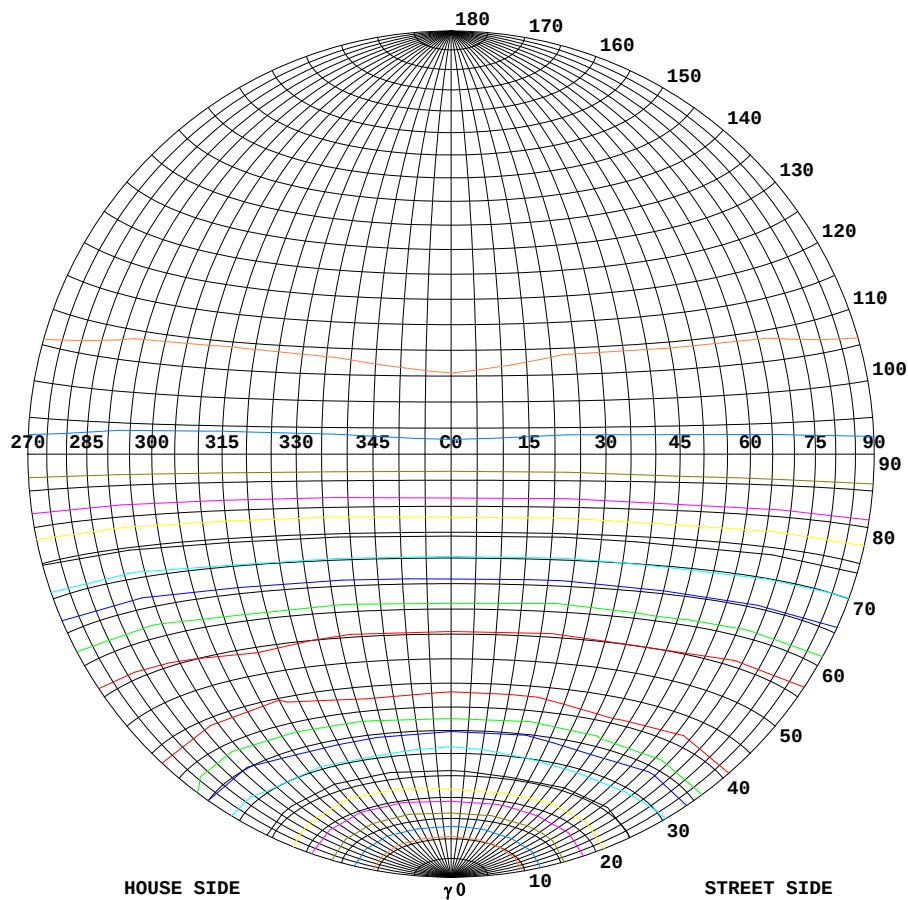
| DATA OF LAMP     |         | PHOTOMETRIC DATA Eff: 137.82 lm/W |         |                  |         |
|------------------|---------|-----------------------------------|---------|------------------|---------|
| MODEL            |         | I <sub>max</sub> (cd)             | 734.9   | η street_up(%)   | 3.0     |
| NOMINAL POWER(W) |         | LOR(%)                            | 100.0   | η street_down(%) | 46.9    |
| RATED VOLTAGE(V) |         | TOTAL FLUX(lm)                    | 2926    | η house_up(%)    | 3.1     |
| NOMINAL FLUX(lm) | 2925.95 | MAXIMUM @(C,γ )                   | 90,49.0 | η house_down(%)  | 47.0    |
| LAMPS INSIDE     | 1       | η up(%)                           | 6.0     | 76 FLASHAREA(m2) | 0.05000 |
| TEST VOLTAGE(V)  |         | η down(%)                         | 94.0    | SLI              | 20.759  |

INTENSITY DISTRIBUTION DIAGRAM  
IN C PLANSMAX INTENSITY CONE SURFACE  
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JINZHI  
Test Date:2022-05-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.429  
Humidity:65.0%  
Test Distance:8.450m [K=1.0000]  
Remarks:

## STREETLIGHT ISOCANDELA DIAGRAM



## Classification:

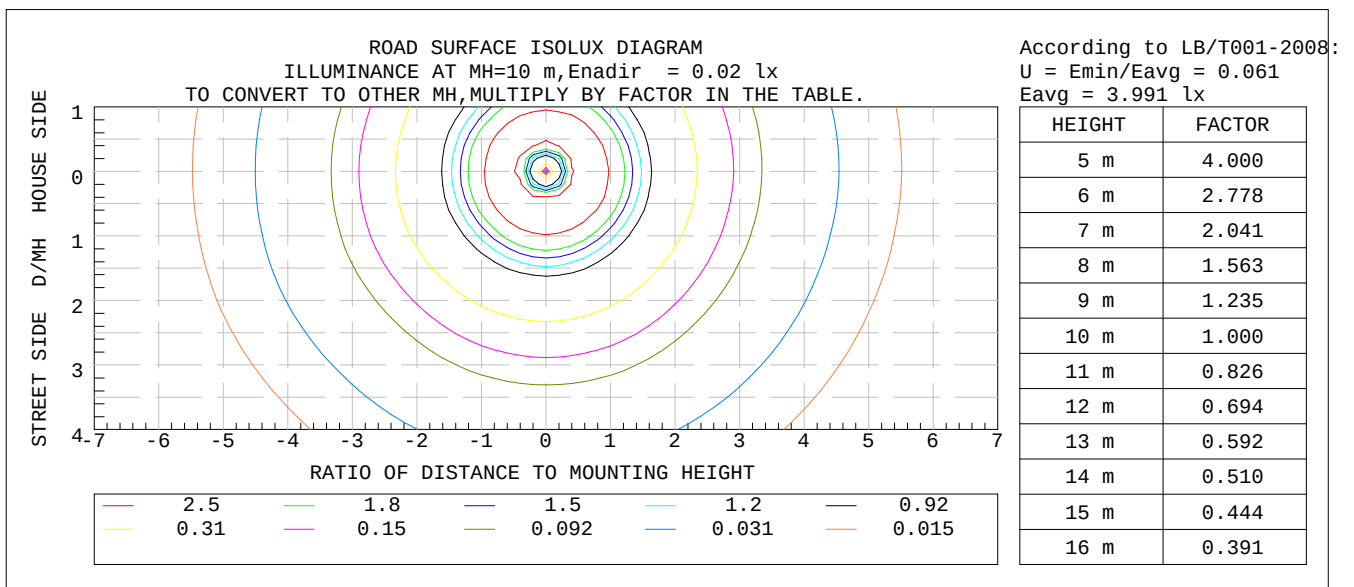
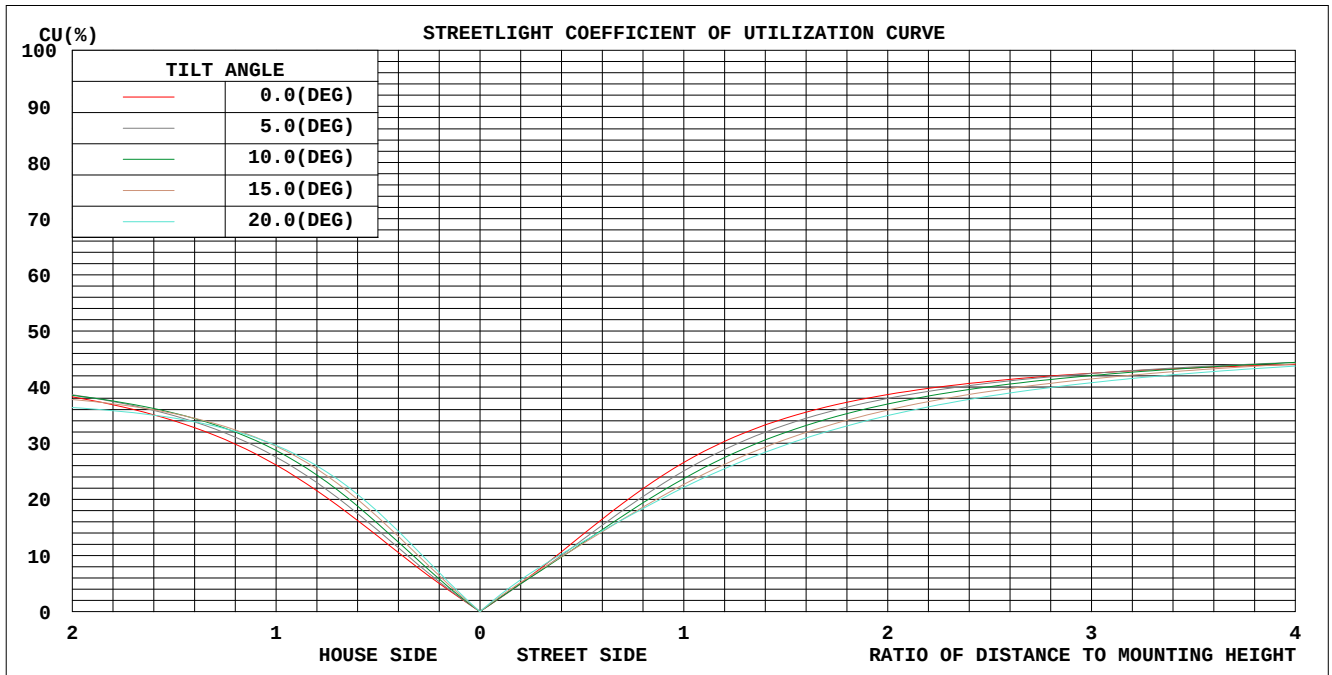
IES:Type V - Very Short  
 CIE:Broad - Short  
 IES:None cut-off  
 CIE:Semi-cut-off  
 Max.At80:91.33cd/klm  
 Max.At90:39.08cd/klm  
 Max.80-90:91.33cd/klm  
 NRB 5101:Semi limited[11.7%]

| ISOCANDELA DIAGRAM |     |
|--------------------|-----|
| UNIT               | cd  |
| Imax=100%          | 735 |
| 90%                | 661 |
| 80%                | 588 |
| 70%                | 514 |
| 60%                | 441 |
| 50%                | 367 |
| 40%                | 294 |
| 30%                | 220 |
| 20%                | 147 |
| 10%                | 73  |
| 5%                 | 37  |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:JINZHI  
 Test Date:2022-05-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.429  
 Humidity:65.0%  
 Test Distance:8.450m [K=1.0000]  
 Remarks:

# COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JINZHI  
Test Date: 2022-05-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.00.429  
Humidity: 65.0%  
Test Distance: 8.450m [K=1.0000]  
Remarks:

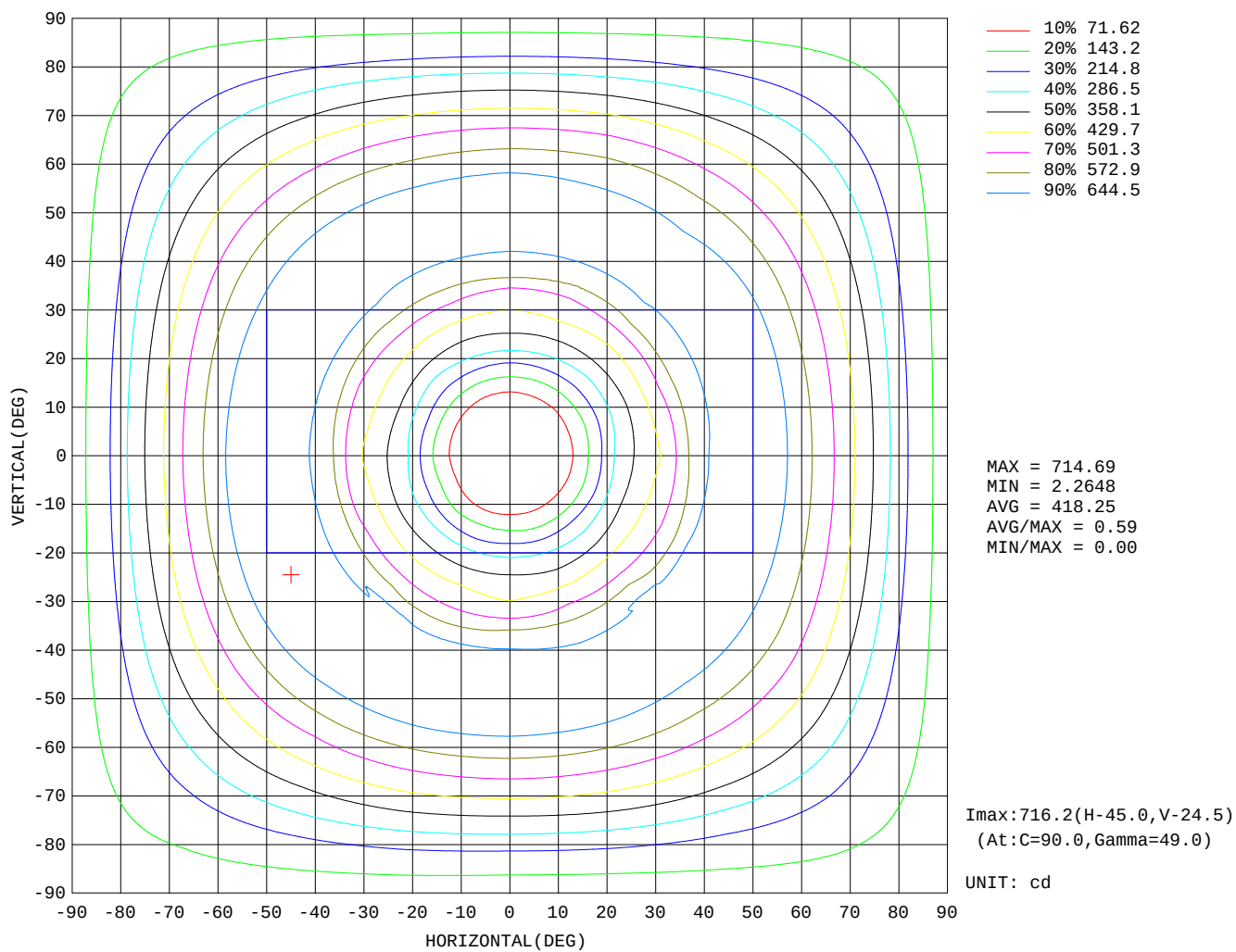
### ZONAL FLUX DIAGRAM

| $\gamma$ | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\phi$ zone | $\phi$ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10       | 29.85                 | 37.03 | 40.88 | 36.30 | 32.88 | 32.99 | 30.61 | 26.72 | 0- 10    | 1.267       | 1.267        | 0.04,0.04  |
| 20       | 250.2                 | 257.7 | 287.5 | 251.0 | 259.9 | 235.0 | 255.3 | 225.1 | 10- 20   | 39.55       | 40.81        | 1.39,1.39  |
| 30       | 423.0                 | 453.9 | 443.6 | 436.6 | 424.8 | 450.3 | 442.6 | 416.0 | 20- 30   | 165.5       | 206.3        | 7.05,7.05  |
| 40       | 623.9                 | 648.0 | 673.3 | 632.9 | 635.3 | 637.9 | 621.4 | 621.4 | 30- 40   | 338.8       | 545.2        | 18.6,18.6  |
| 50       | 694.2                 | 686.5 | 732.5 | 684.0 | 710.9 | 690.4 | 717.9 | 661.1 | 40- 50   | 524.3       | 1069         | 36.5,36.5  |
| 60       | 608.8                 | 603.0 | 630.1 | 593.0 | 624.0 | 615.2 | 637.4 | 585.6 | 50- 60   | 595.7       | 1665         | 56.9,56.9  |
| 70       | 446.8                 | 437.4 | 455.0 | 423.0 | 451.8 | 448.9 | 472.8 | 434.0 | 60- 70   | 526.5       | 2192         | 74.9,74.9  |
| 80       | 251.1                 | 240.8 | 245.8 | 239.4 | 257.3 | 260.7 | 267.2 | 249.0 | 70- 80   | 371.1       | 2563         | 87.6,87.6  |
| 90       | 109.9                 | 105.5 | 104.6 | 102.4 | 110.6 | 114.3 | 112.8 | 110.4 | 80- 90   | 186.5       | 2749         | 94,94      |
| 100      | 47.24                 | 51.92 | 48.11 | 49.94 | 47.63 | 52.19 | 47.79 | 50.53 | 90-100   | 74.71       | 2824         | 96.5,96.5  |
| 110      | 27.28                 | 34.82 | 28.73 | 34.52 | 28.37 | 35.25 | 29.01 | 34.49 | 100-110  | 44.25       | 2868         | 98,98      |
| 120      | 14.77                 | 20.10 | 15.73 | 19.30 | 15.43 | 20.94 | 15.95 | 20.10 | 110-120  | 24.48       | 2893         | 98.9,98.9  |
| 130      | 10.71                 | 15.39 | 11.55 | 14.69 | 11.14 | 15.49 | 11.47 | 15.02 | 120-130  | 14.09       | 2907         | 99.3,99.3  |
| 140      | 7.866                 | 11.82 | 8.318 | 11.33 | 7.958 | 11.81 | 8.318 | 11.62 | 130-140  | 9.103       | 2916         | 99.7,99.7  |
| 150      | 6.587                 | 8.755 | 6.769 | 8.512 | 6.309 | 8.822 | 6.798 | 8.693 | 140-150  | 5.592       | 2922         | 99.8,99.8  |
| 160      | 4.954                 | 5.530 | 4.612 | 5.265 | 4.735 | 5.565 | 4.913 | 5.647 | 150-160  | 2.929       | 2924         | 99.9,99.9  |
| 170      | 3.551                 | 3.204 | 3.152 | 2.894 | 3.136 | 3.255 | 3.796 | 3.504 | 160-170  | 1.232       | 2926         | 100,100    |
| 180      | 1.342                 | 1.297 | 1.315 | 1.595 | 1.331 | 1.297 | 1.321 | 1.601 | 170-180  | 0.2500      | 2926         | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |          | UNIT: lm    |              |            |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JINZHI  
Test Date:2022-05-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.429  
Humidity:65.0%  
Test Distance:8.450m [K=1.0000]  
Remarks:

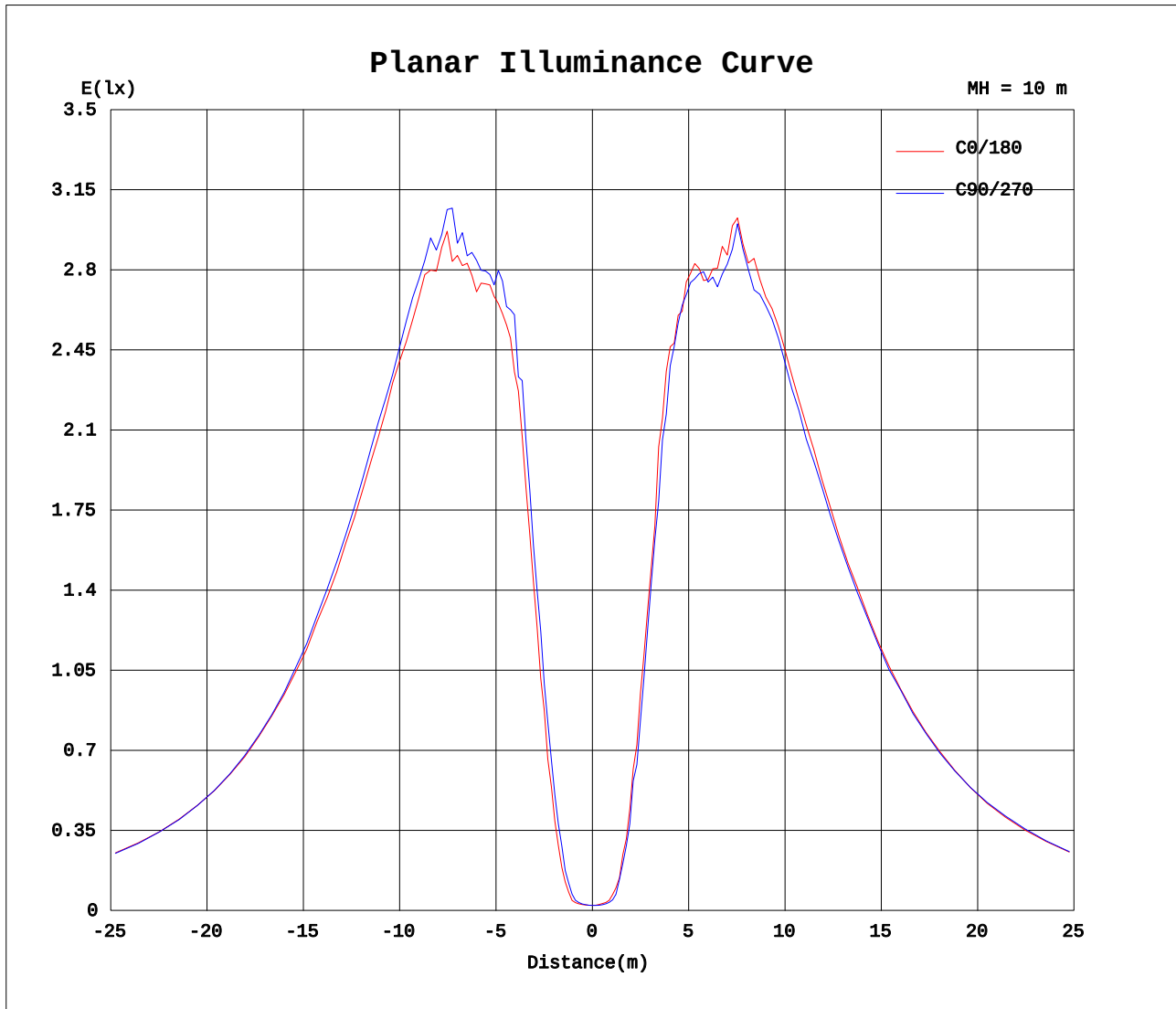
## ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JINZHI  
Test Date: 2022-05-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.00.429  
Humidity: 65.0%  
Test Distance: 8.450m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



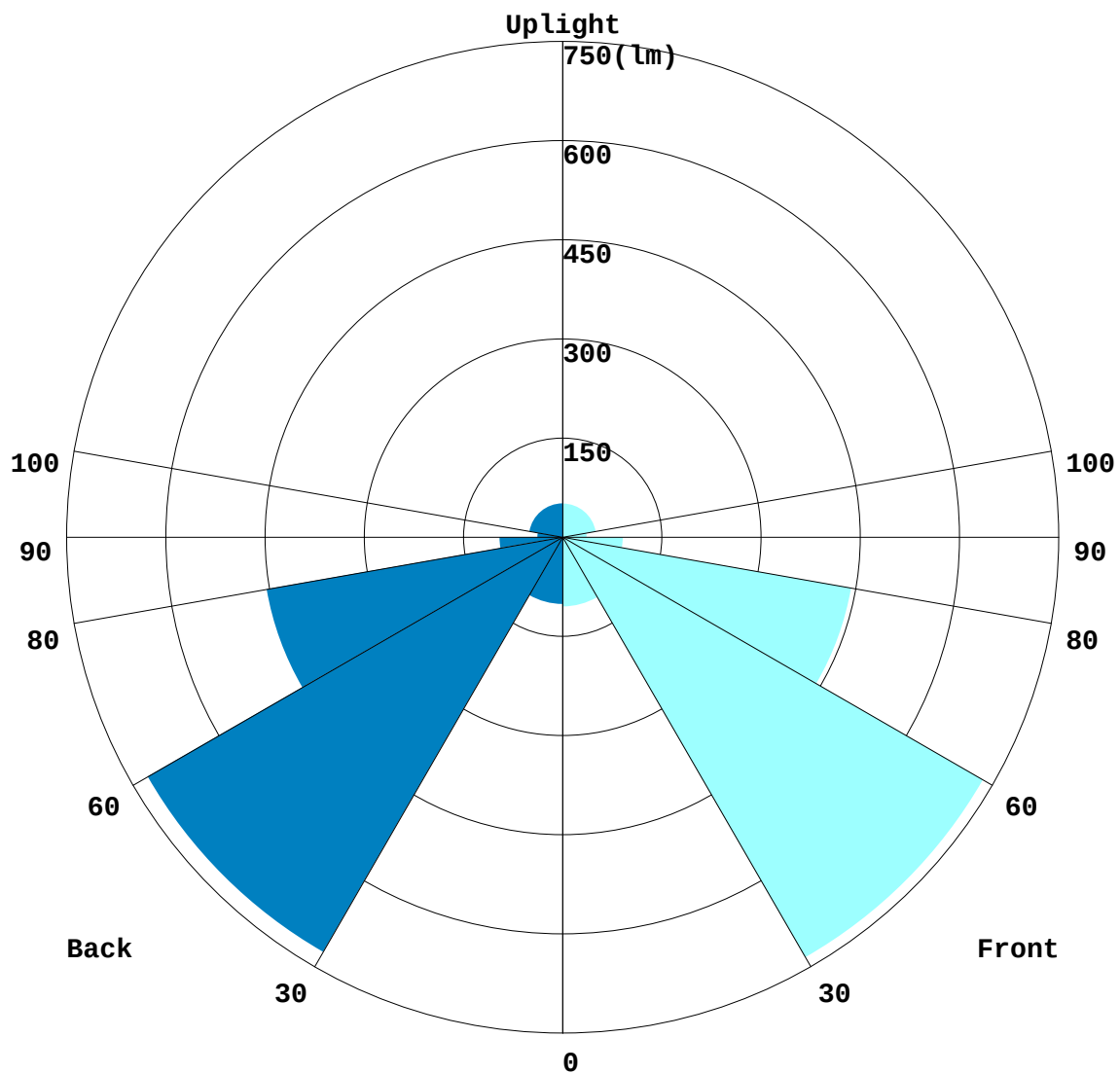
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JINZHI  
Test Date: 2022-05-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.00.429  
Humidity: 65.0%  
Test Distance: 8.450m [K=1.0000]  
Remarks:

# LCS REPORT

|                                                                                  |              |                  |
|----------------------------------------------------------------------------------|--------------|------------------|
| Test:U:119.86V I:0.1783A P:21.231W PF:0.9933 Freq:59.98Hz Lamp Flux:2925.95x1 lm |              |                  |
| NAME: PLTS-12359 22W 5000K                                                       | TYPE:        | WEIGHT:          |
| SPEC.:                                                                           | DIM.:        | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 0.02*1 | Shielding Angle: |

## LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JINZHI  
Test Date:2022-05-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.429  
Humidity:65.0%  
Test Distance:8.450m [K=1.0000]  
Remarks:

### BUG REPORT

|                                                                                  |              |                  |
|----------------------------------------------------------------------------------|--------------|------------------|
| Test:U:119.86V I:0.1783A P:21.231W PF:0.9933 Freq:59.98Hz Lamp Flux:2925.95x1 lm |              |                  |
| NAME: PLTS-12359 22W 5000K                                                       | TYPE:        | WEIGHT:          |
| SPEC.:                                                                           | DIM.:        | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 0.02*1 | Shielding Angle: |

#### IESNA Luminaire Flux Distribution Table:

| Zone                         | Lumens | Luminaire % |
|------------------------------|--------|-------------|
| FL - Front-Low(0-30)         | 105.07 | 3.6         |
| FM - Front-Medium(30-60)     | 734.22 | 25.1        |
| FH - Front-High(60-80)       | 443.08 | 15.1        |
| FVH - Front-Very High(80-90) | 91.05  | 3.1         |
| Total Forward Light          | 1460.8 | 49.9        |

|                             |        |      |
|-----------------------------|--------|------|
| BL - Back-Low(0-30)         | 101.27 | 3.5  |
| BM - Back-Medium(30-60)     | 724.62 | 24.8 |
| BH - Back-High(60-80)       | 454.53 | 15.5 |
| BVH - Back-Very High(80-90) | 95.459 | 3.3  |
| Total Back Light            | 1465.2 | 50.1 |

|                            |        |     |
|----------------------------|--------|-----|
| UL - Uplight-Low(90-100)   | 74.713 | 2.6 |
| UH - Uplight-High(100-180) | 101.93 | 3.5 |
| Total Up Light             | 176.64 | 6.0 |

|                           |          |
|---------------------------|----------|
| BUG(Back,Up,Glare) Rating | B1-U3-G1 |
|---------------------------|----------|

| Zone        | Downward Lumens | Upward Lumens | Total Lumens |
|-------------|-----------------|---------------|--------------|
| House Side  | 1375.9          | 89.304        | 1465.2       |
| Street Side | 1373.4          | 87.34         | 1460.8       |

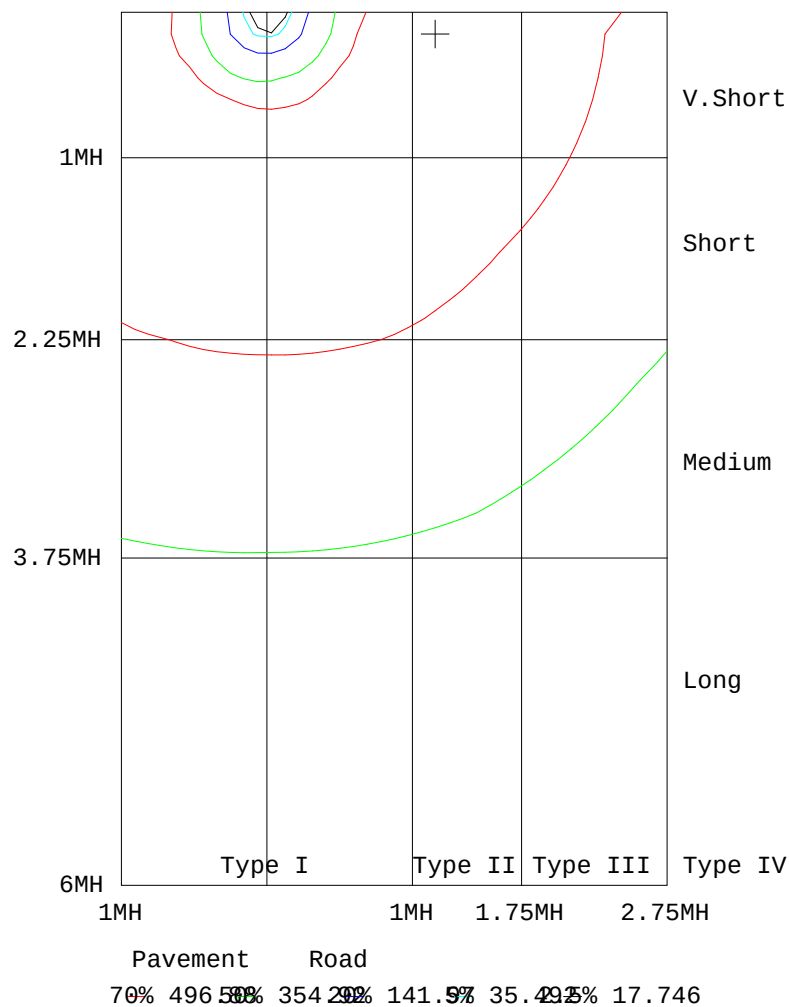
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JINZHI  
Test Date:2022-05-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.429  
Humidity:65.0%  
Test Distance:8.450m [K=1.0000]  
Remarks:

# ROAD ISOCANDELA REPORT

|                                                                                  |              |                  |
|----------------------------------------------------------------------------------|--------------|------------------|
| Test:U:119.86V I:0.1783A P:21.231W PF:0.9933 Freq:59.98Hz Lamp Flux:2925.95x1 lm |              |                  |
| NAME: PLTS-12359 22W 5000K                                                       | TYPE:        | WEIGHT:          |
| SPEC.:                                                                           | DIM.:        | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 0.02*1 | Shielding Angle: |

## ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JINZHI  
Test Date:2022-05-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.429  
Humidity:65.0%  
Test Distance:8.450m [K=1.0000]  
Remarks:

# LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

| C(DEG)<br>γ (DEG) | 0    | 22.5 | 45   | 67.5 | 90   | 112.5 | 135  | 157.5 | 180  | 202.5 | 225  | 247.5 | 270  | 292.5 | 315  | 337.5 |  |  |  |
|-------------------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|--|--|
| 0                 | 2.34 | 2.34 | 2.34 | 2.34 | 2.34 | 2.34  | 2.34 | 2.34  | 2.34 | 2.34  | 2.34 | 2.34  | 2.34 | 2.34  | 2.34 | 2.34  |  |  |  |
| 5                 | 3.54 | 3.68 | 4.12 | 4.38 | 4.70 | 4.43  | 4.59 | 4.83  | 4.57 | 4.31  | 4.02 | 3.88  | 3.77 | 3.76  | 3.54 | 3.49  |  |  |  |
| 10                | 29.9 | 32.9 | 37.0 | 39.9 | 40.9 | 42.9  | 36.3 | 40.5  | 32.9 | 33.2  | 33.0 | 32.9  | 30.6 | 30.1  | 26.7 | 31.0  |  |  |  |
| 15                | 113  | 115  | 122  | 121  | 139  | 136   | 124  | 132   | 124  | 123   | 111  | 111   | 116  | 111   | 105  | 106   |  |  |  |
| 20                | 250  | 242  | 258  | 263  | 287  | 264   | 251  | 256   | 260  | 256   | 235  | 255   | 255  | 245   | 225  | 230   |  |  |  |
| 25                | 351  | 362  | 356  | 359  | 381  | 364   | 354  | 346   | 353  | 367   | 357  | 356   | 366  | 352   | 335  | 329   |  |  |  |
| 30                | 423  | 437  | 454  | 469  | 444  | 449   | 437  | 440   | 425  | 445   | 450  | 447   | 443  | 443   | 416  | 419   |  |  |  |
| 35                | 522  | 515  | 567  | 554  | 546  | 522   | 550  | 534   | 522  | 514   | 563  | 546   | 529  | 514   | 539  | 514   |  |  |  |
| 40                | 624  | 642  | 648  | 636  | 673  | 652   | 633  | 600   | 635  | 639   | 638  | 609   | 621  | 625   | 621  | 588   |  |  |  |
| 45                | 681  | 672  | 681  | 698  | 717  | 689   | 674  | 689   | 694  | 670   | 670  | 694   | 697  | 671   | 646  | 667   |  |  |  |
| 50                | 694  | 693  | 687  | 714  | 733  | 704   | 684  | 699   | 711  | 695   | 690  | 701   | 718  | 688   | 661  | 680   |  |  |  |
| 55                | 671  | 665  | 662  | 684  | 704  | 678   | 653  | 667   | 686  | 671   | 668  | 681   | 698  | 670   | 635  | 653   |  |  |  |
| 60                | 609  | 610  | 603  | 616  | 630  | 612   | 593  | 605   | 624  | 619   | 615  | 624   | 637  | 615   | 586  | 597   |  |  |  |
| 65                | 531  | 531  | 526  | 530  | 543  | 530   | 506  | 518   | 542  | 539   | 536  | 549   | 564  | 548   | 520  | 521   |  |  |  |
| 70                | 447  | 445  | 437  | 444  | 455  | 444   | 423  | 427   | 452  | 453   | 449  | 459   | 473  | 462   | 434  | 436   |  |  |  |
| 75                | 354  | 354  | 345  | 350  | 352  | 349   | 334  | 340   | 360  | 358   | 358  | 367   | 374  | 362   | 345  | 349   |  |  |  |
| 80                | 251  | 251  | 241  | 245  | 246  | 248   | 239  | 242   | 257  | 257   | 261  | 262   | 267  | 257   | 249  | 249   |  |  |  |
| 85                | 168  | 165  | 160  | 160  | 163  | 163   | 158  | 157   | 173  | 169   | 171  | 171   | 176  | 170   | 164  | 165   |  |  |  |
| 90                | 110  | 109  | 106  | 105  | 105  | 105   | 102  | 101   | 111  | 112   | 114  | 112   | 113  | 113   | 110  | 108   |  |  |  |
| 95                | 56.8 | 64.1 | 64.1 | 62.3 | 56.0 | 59.9  | 59.8 | 59.7  | 57.2 | 64.3  | 67.5 | 64.8  | 57.7 | 65.3  | 65.5 | 63.7  |  |  |  |
| 100               | 47.2 | 51.5 | 51.9 | 51.1 | 48.1 | 51.0  | 49.9 | 49.2  | 47.6 | 51.5  | 52.2 | 51.4  | 47.8 | 50.8  | 50.5 | 49.4  |  |  |  |
| 105               | 38.2 | 42.9 | 43.2 | 43.2 | 39.9 | 43.6  | 42.8 | 42.0  | 39.3 | 42.9  | 43.6 | 43.1  | 39.4 | 42.7  | 42.1 | 41.2  |  |  |  |
| 110               | 27.3 | 34.4 | 34.8 | 34.7 | 28.7 | 34.5  | 34.5 | 33.3  | 28.4 | 33.5  | 35.2 | 34.7  | 29.0 | 34.5  | 34.5 | 32.8  |  |  |  |
| 115               | 19.0 | 25.2 | 25.7 | 25.4 | 20.2 | 24.6  | 25.1 | 24.1  | 19.9 | 24.8  | 26.6 | 26.1  | 20.7 | 25.6  | 25.9 | 24.3  |  |  |  |
| 120               | 14.8 | 19.1 | 20.1 | 19.4 | 15.7 | 18.5  | 19.3 | 18.4  | 15.4 | 19.1  | 20.9 | 20.1  | 16.0 | 19.5  | 20.1 | 18.6  |  |  |  |
| 125               | 12.5 | 15.8 | 17.3 | 16.3 | 13.4 | 15.4  | 16.6 | 15.5  | 13.0 | 15.9  | 17.7 | 16.5  | 13.4 | 16.1  | 17.1 | 15.5  |  |  |  |
| 130               | 10.7 | 13.7 | 15.4 | 14.3 | 11.6 | 13.4  | 14.7 | 13.5  | 11.1 | 13.6  | 15.5 | 14.1  | 11.5 | 13.8  | 15.0 | 13.4  |  |  |  |
| 135               | 9.07 | 11.9 | 13.7 | 12.4 | 9.87 | 11.7  | 12.9 | 11.7  | 9.50 | 11.6  | 13.6 | 12.1  | 9.82 | 12.0  | 13.3 | 11.7  |  |  |  |
| 140               | 7.87 | 10.2 | 11.8 | 10.7 | 8.32 | 10.1  | 11.3 | 10.1  | 7.96 | 9.91  | 11.8 | 10.4  | 8.32 | 10.3  | 11.6 | 10.1  |  |  |  |
| 145               | 7.50 | 8.89 | 10.3 | 9.24 | 7.73 | 8.80  | 9.95 | 8.77  | 7.33 | 8.71  | 10.3 | 9.04  | 7.55 | 8.94  | 10.2 | 8.80  |  |  |  |
| 150               | 6.59 | 7.34 | 8.75 | 7.74 | 6.77 | 7.38  | 8.51 | 7.36  | 6.31 | 7.30  | 8.82 | 7.81  | 6.80 | 7.57  | 8.69 | 7.36  |  |  |  |
| 155               | 5.60 | 6.16 | 7.09 | 6.21 | 5.39 | 5.94  | 6.86 | 6.04  | 5.36 | 6.07  | 7.09 | 6.30  | 5.61 | 6.19  | 7.11 | 6.22  |  |  |  |
| 160               | 4.95 | 5.30 | 5.53 | 5.08 | 4.61 | 4.95  | 5.27 | 4.79  | 4.74 | 5.19  | 5.56 | 5.24  | 4.91 | 5.22  | 5.65 | 5.35  |  |  |  |
| 165               | 4.44 | 4.41 | 4.32 | 4.18 | 3.92 | 3.89  | 3.95 | 3.91  | 4.10 | 4.29  | 4.47 | 4.43  | 4.33 | 4.43  | 4.48 | 4.50  |  |  |  |
| 170               | 3.55 | 3.41 | 3.20 | 3.16 | 3.15 | 3.08  | 2.89 | 3.07  | 3.14 | 3.12  | 3.26 | 3.54  | 3.80 | 3.68  | 3.50 | 3.55  |  |  |  |
| 175               | 2.53 | 2.27 | 2.05 | 2.15 | 2.18 | 2.13  | 2.00 | 2.13  | 2.16 | 2.17  | 2.10 | 2.25  | 2.68 | 2.70  | 2.54 | 2.55  |  |  |  |
| 180               | 1.34 | 1.30 | 1.30 | 1.30 | 1.31 | 1.45  | 1.60 | 1.59  | 1.33 | 1.30  | 1.30 | 1.31  | 1.32 | 1.43  | 1.60 | 1.59  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JINZHI  
Test Date:2022-05-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.00.429  
Humidity:65.0%  
Test Distance:8.450m [K=1.0000]  
Remarks: