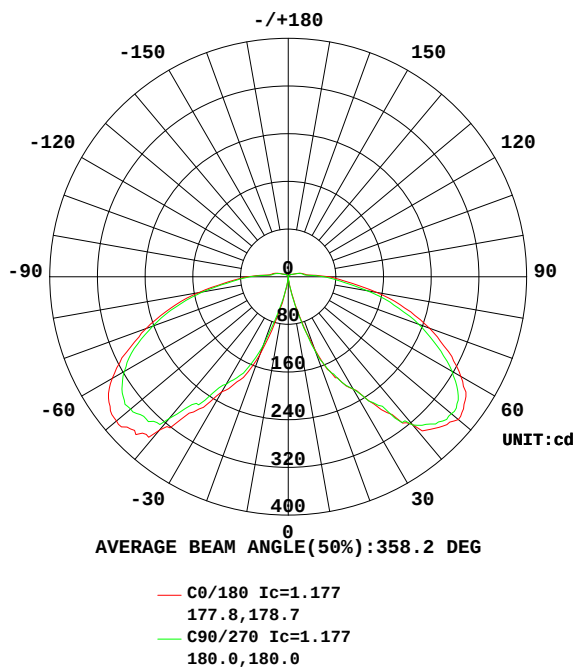
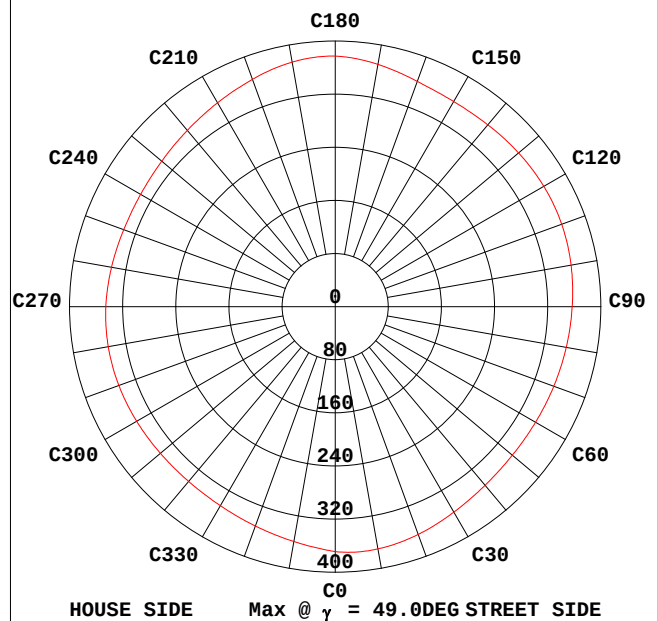


## STREETLIGHT PHOTOMETRIC TEST REPORT

|                                                                                  |              |                  |
|----------------------------------------------------------------------------------|--------------|------------------|
| Test:U:119.88V I:0.0991A P:11.703W PF:0.9847 Freq:59.98Hz Lamp Flux:1537.93x1 lm |              |                  |
| NAME: PLTS-12359 12W 3000K                                                       | TYPE:        | WEIGHT:          |
| SPEC.:                                                                           | DIM.:        | SERIAL No.:      |
| MFR.:                                                                            | SUR.: 0.02*1 | Shielding Angle: |

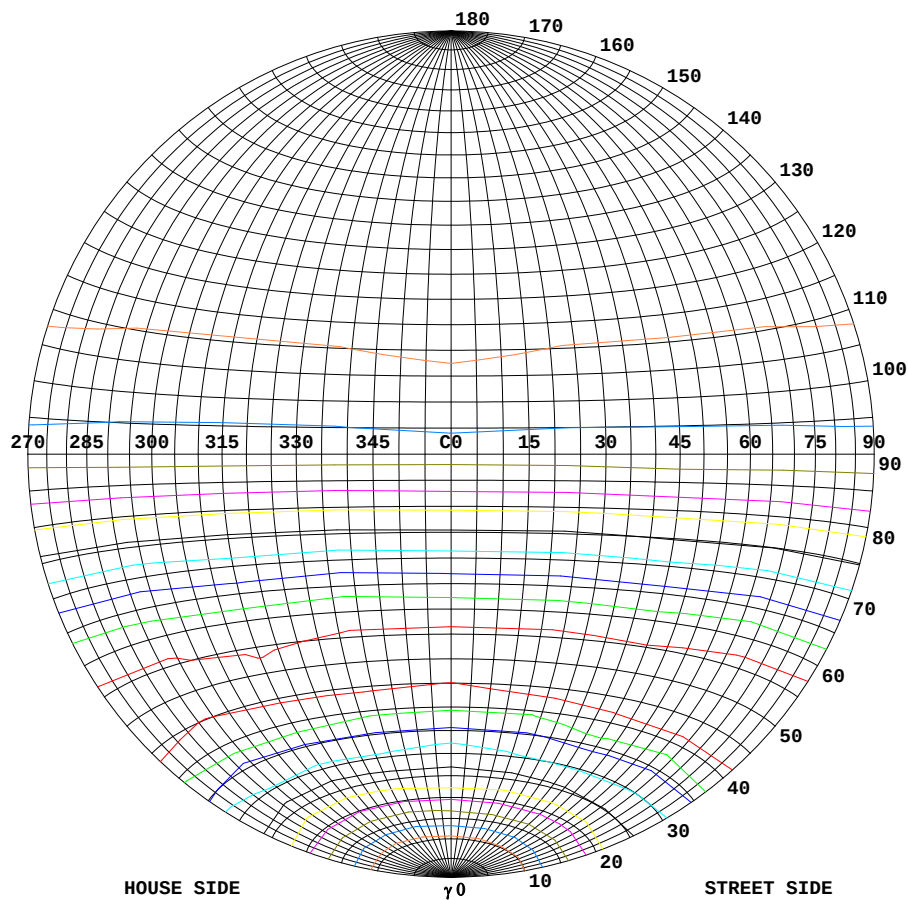
| DATA OF LAMP     |         | PHOTOMETRIC DATA Eff: 131.41 lm/W |          |                  |         |
|------------------|---------|-----------------------------------|----------|------------------|---------|
| MODEL            |         | I <sub>max</sub> (cd)             | 377.5    | η street_up(%)   | 3.2     |
| NOMINAL POWER(W) |         | LOR(%)                            | 100.0    | η street_down(%) | 46.8    |
| RATED VOLTAGE(V) |         | TOTAL FLUX(lm)                    | 1538     | η house_up(%)    | 3.3     |
| NOMINAL FLUX(lm) | 1537.93 | MAXIMUM @(C,γ )                   | 180,49.0 | η house_down(%)  | 46.7    |
| LAMPS INSIDE     | 1       | η up(%)                           | 6.5      | 76 FLASHAREA(m2) | 0.05000 |
| TEST VOLTAGE(V)  |         | η down(%)                         | 93.5     | SLI              | 19.955  |

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:

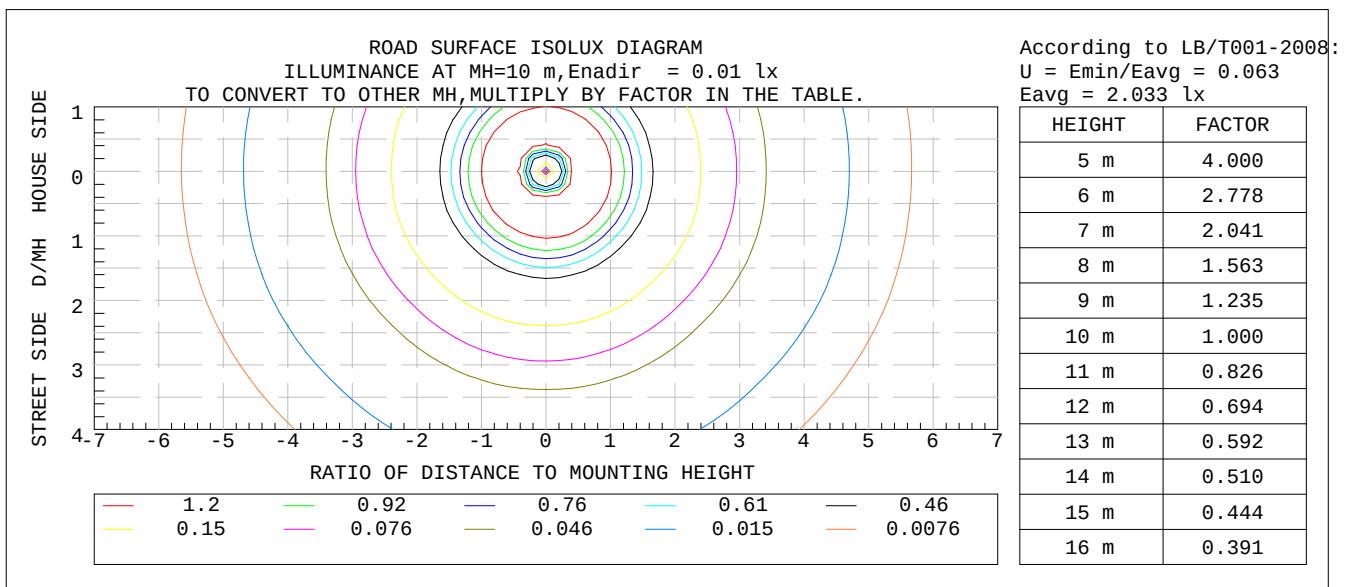
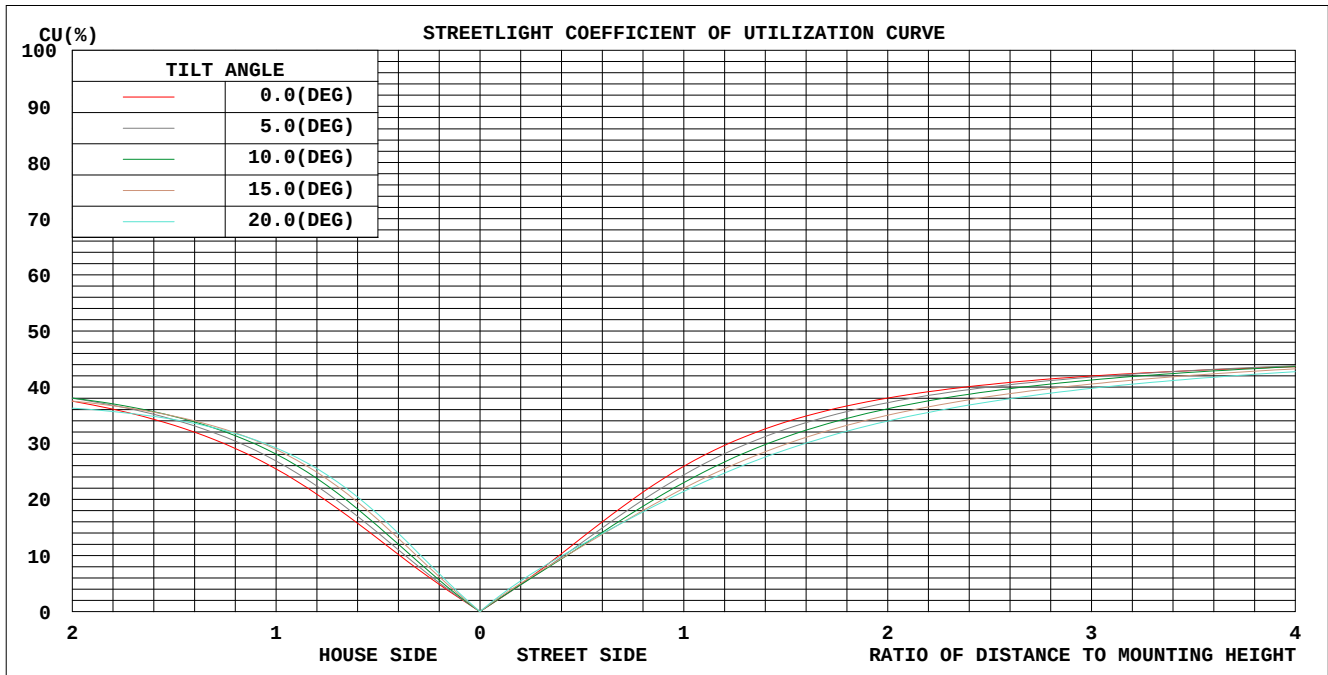
IES:Type V - Short  
 CIE:Broad - Short  
 IES:None cut-off  
 CIE:Semi-cut-off  
 Max.At80:98.68cd/klm  
 Max.At90:44.89cd/klm  
 Max.80-90:98.68cd/klm  
 NRB 5101:Semi limited[12.7%]

| ISOCANDELA DIAGRAM     |     |
|------------------------|-----|
| UNIT                   | cd  |
| I <sub>max</sub> =100% | 377 |
| 90%                    | 340 |
| 80%                    | 302 |
| 70%                    | 264 |
| 60%                    | 226 |
| 50%                    | 189 |
| 40%                    | 151 |
| 30%                    | 113 |
| 20%                    | 75  |
| 10%                    | 38  |
| 5%                     | 19  |

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:

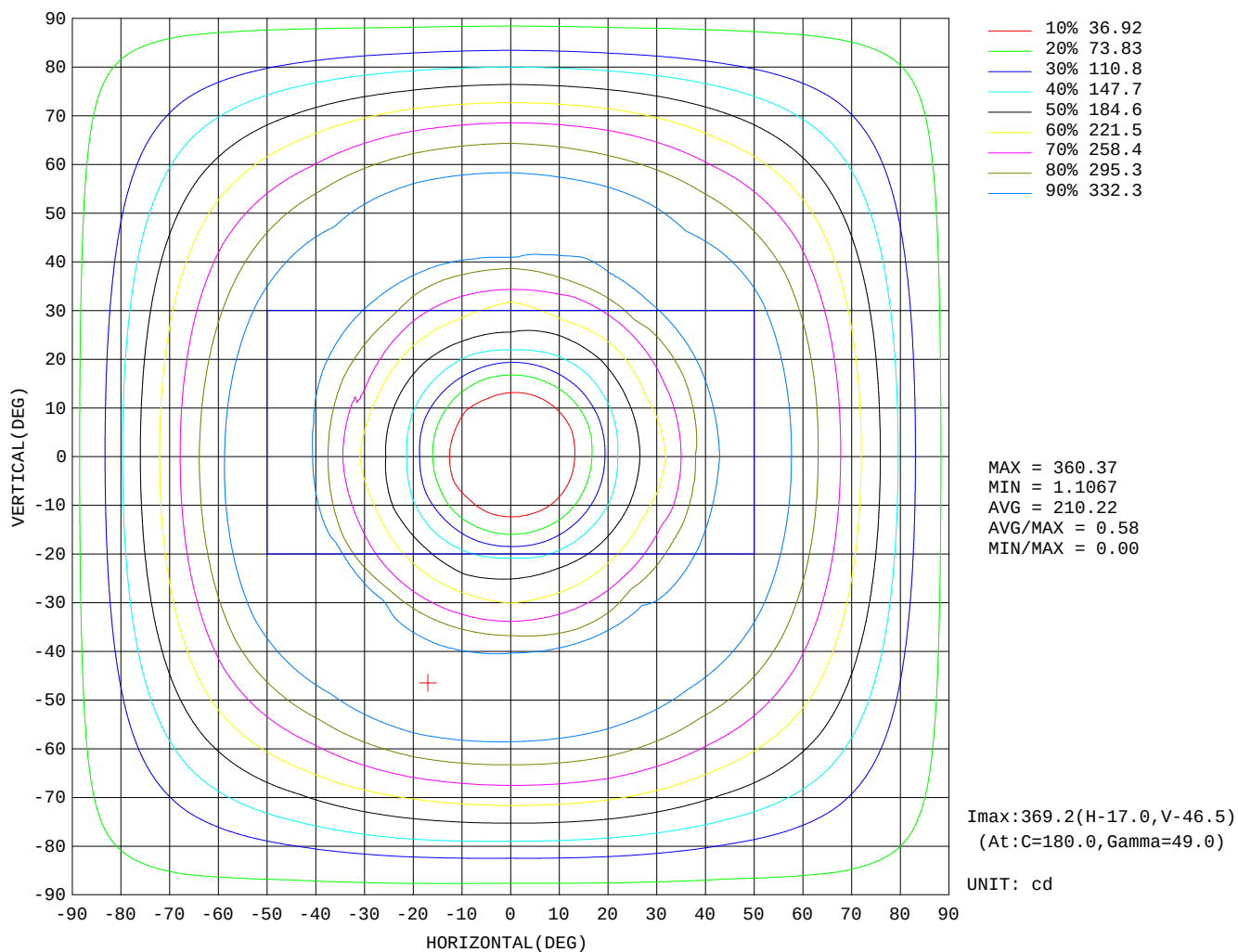
## ZONAL FLUX DIAGRAM

| $\gamma$ | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10       | 15.30                 | 16.58  | 17.78  | 19.19  | 18.47  | 15.44  | 13.61  | 13.10  | 0- 10    | 0.6034      | 0.6034       | 0.04,0.04  |
| 20       | 128.4                 | 124.5  | 131.8  | 130.6  | 139.1  | 121.0  | 122.8  | 115.4  | 10- 20   | 19.21       | 19.81        | 1.29,1.29  |
| 30       | 217.4                 | 227.0  | 216.9  | 224.4  | 222.7  | 219.0  | 208.3  | 213.8  | 20- 30   | 82.80       | 102.6        | 6.67,6.67  |
| 40       | 323.4                 | 328.4  | 324.6  | 337.3  | 336.1  | 321.6  | 309.9  | 323.3  | 30- 40   | 170.4       | 273.0        | 17.7,17.7  |
| 50       | 372.7                 | 347.2  | 357.5  | 355.9  | 376.3  | 341.2  | 345.4  | 345.3  | 40- 50   | 267.2       | 540.2        | 35.1,35.1  |
| 60       | 334.3                 | 310.1  | 317.2  | 320.0  | 340.9  | 314.0  | 317.4  | 314.2  | 50- 60   | 307.9       | 848.1        | 55.1,55.1  |
| 70       | 252.2                 | 229.9  | 232.6  | 232.8  | 253.3  | 236.9  | 241.9  | 237.3  | 60- 70   | 279.3       | 1127         | 73.3,73.3  |
| 80       | 150.2                 | 135.0  | 133.9  | 138.2  | 151.8  | 145.0  | 145.1  | 144.3  | 70- 80   | 203.4       | 1331         | 86.5,86.5  |
| 90       | 68.26                 | 61.83  | 59.61  | 62.05  | 69.04  | 65.67  | 64.96  | 65.77  | 80- 90   | 106.6       | 1437         | 93.5,93.5  |
| 100      | 27.28                 | 28.12  | 25.53  | 28.20  | 27.71  | 28.55  | 25.31  | 28.43  | 90-100   | 43.81       | 1481         | 96.3,96.3  |
| 110      | 16.71                 | 19.45  | 16.13  | 20.08  | 17.26  | 19.73  | 16.06  | 19.61  | 100-110  | 24.79       | 1506         | 97.9,97.9  |
| 120      | 8.672                 | 11.05  | 8.427  | 11.06  | 9.033  | 11.55  | 8.547  | 11.40  | 110-120  | 14.01       | 1520         | 98.8,98.8  |
| 130      | 6.137                 | 8.257  | 6.038  | 8.161  | 6.359  | 8.302  | 5.949  | 8.354  | 120-130  | 7.774       | 1528         | 99.3,99.3  |
| 140      | 4.326                 | 6.251  | 4.213  | 6.158  | 4.376  | 6.218  | 4.176  | 6.380  | 130-140  | 4.912       | 1533         | 99.7,99.7  |
| 150      | 3.603                 | 4.547  | 3.354  | 4.579  | 3.421  | 4.610  | 3.334  | 4.744  | 140-150  | 2.948       | 1536         | 99.9,99.9  |
| 160      | 2.611                 | 2.792  | 2.020  | 2.610  | 2.454  | 2.828  | 2.342  | 2.969  | 150-160  | 1.502       | 1537         | 100,100    |
| 170      | 1.835                 | 1.402  | 1.474  | 1.461  | 1.707  | 1.585  | 1.773  | 1.770  | 160-170  | 0.6071      | 1538         | 100,100    |
| 180      | 0.5197                | 0.5380 | 0.6749 | 0.6789 | 0.5197 | 0.5716 | 0.6694 | 0.6902 | 170-180  | 0.1201      | 1538         | 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:

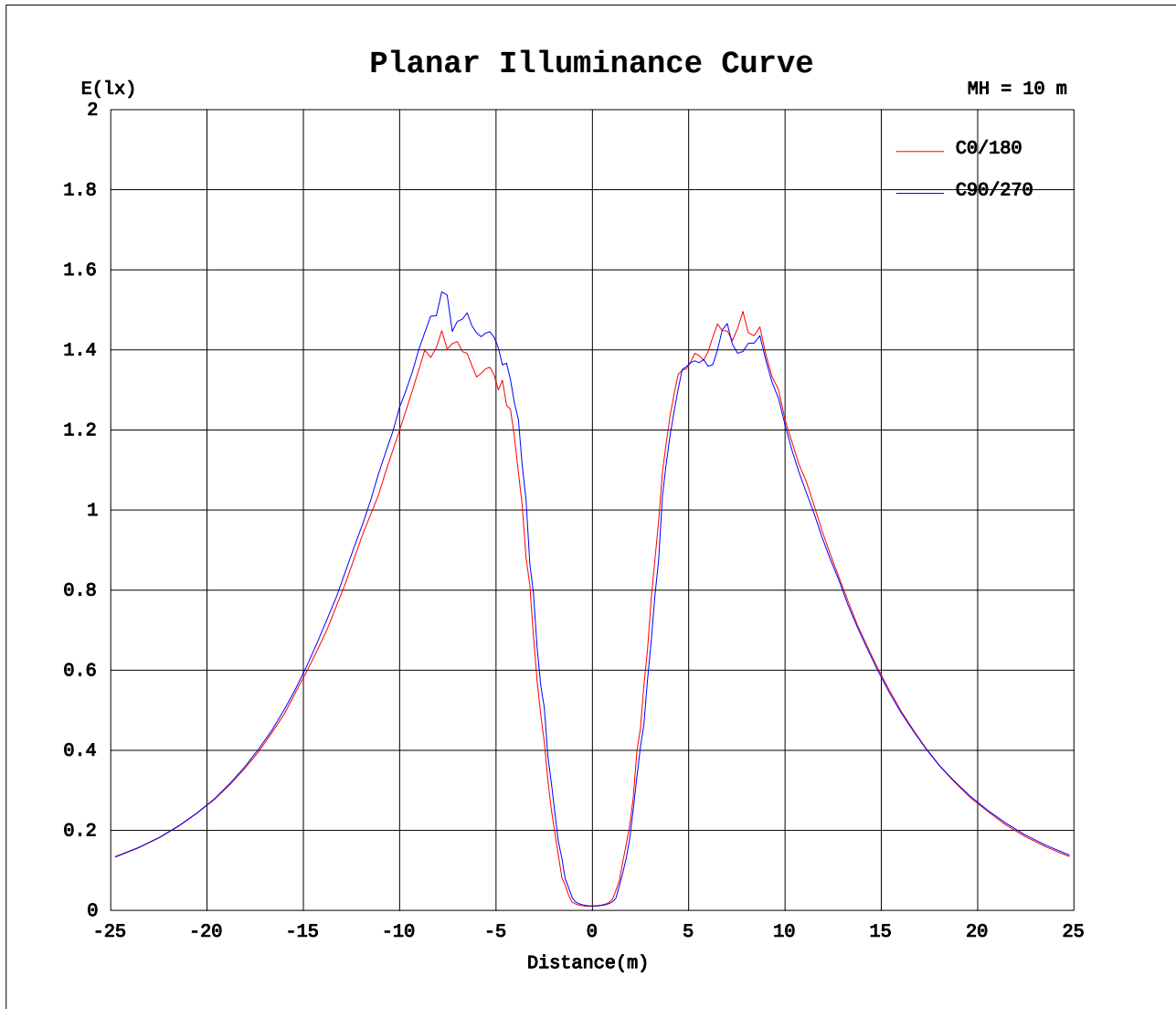
# ISOCANDELA DIAGRAM



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



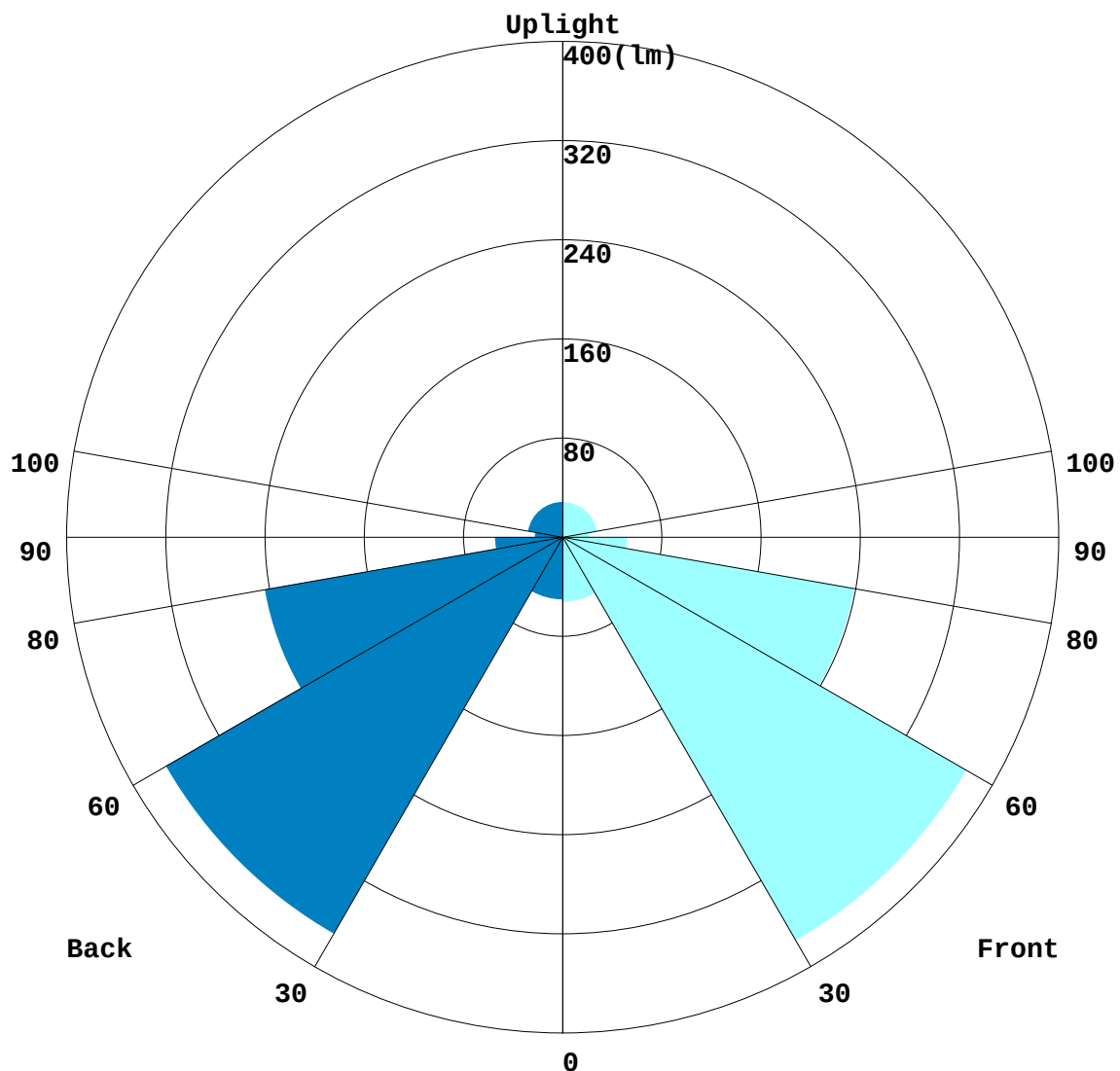
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JINZHI  
Test Date: 2022-05-09

$\gamma$  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:119.88V I:0.0991A P:11.703W PF:0.9847 Freq:59.98Hz Lamp Flux:1537.93x1 lm |              |                  |
| NAME: PLTS-12359 12W 3000K                                                       | 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:119.88V I:0.0991A P:11.703W PF:0.9847 Freq:59.98Hz Lamp Flux:1537.93x1 lm |              |                  |
| NAME: PLTS-12359 12W 3000K                                                       | 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)         | 52.294 | 3.4         |
| FM - Front-Medium(30-60)     | 375.99 | 24.4        |
| FH - Front-High(60-80)       | 238.85 | 15.5        |
| FVH - Front-Very High(80-90) | 52.178 | 3.4         |
| Total Forward Light          | 769.06 | 50.0        |

|                             |        |      |
|-----------------------------|--------|------|
| BL - Back-Low(0-30)         | 50.313 | 3.3  |
| BM - Back-Medium(30-60)     | 369.48 | 24.0 |
| BH - Back-High(60-80)       | 243.9  | 15.9 |
| BVH - Back-Very High(80-90) | 54.444 | 3.5  |
| Total Back Light            | 768.87 | 50.0 |

|                            |        |     |
|----------------------------|--------|-----|
| UL - Uplight-Low(90-100)   | 43.812 | 2.8 |
| UH - Uplight-High(100-180) | 56.66  | 3.7 |
| Total Up Light             | 100.47 | 6.5 |

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

| Zone        | Downward Lumens | Upward Lumens | Total Lumens |
|-------------|-----------------|---------------|--------------|
| House Side  | 718.15          | 50.727        | 768.87       |
| Street Side | 719.31          | 49.746        | 769.06       |

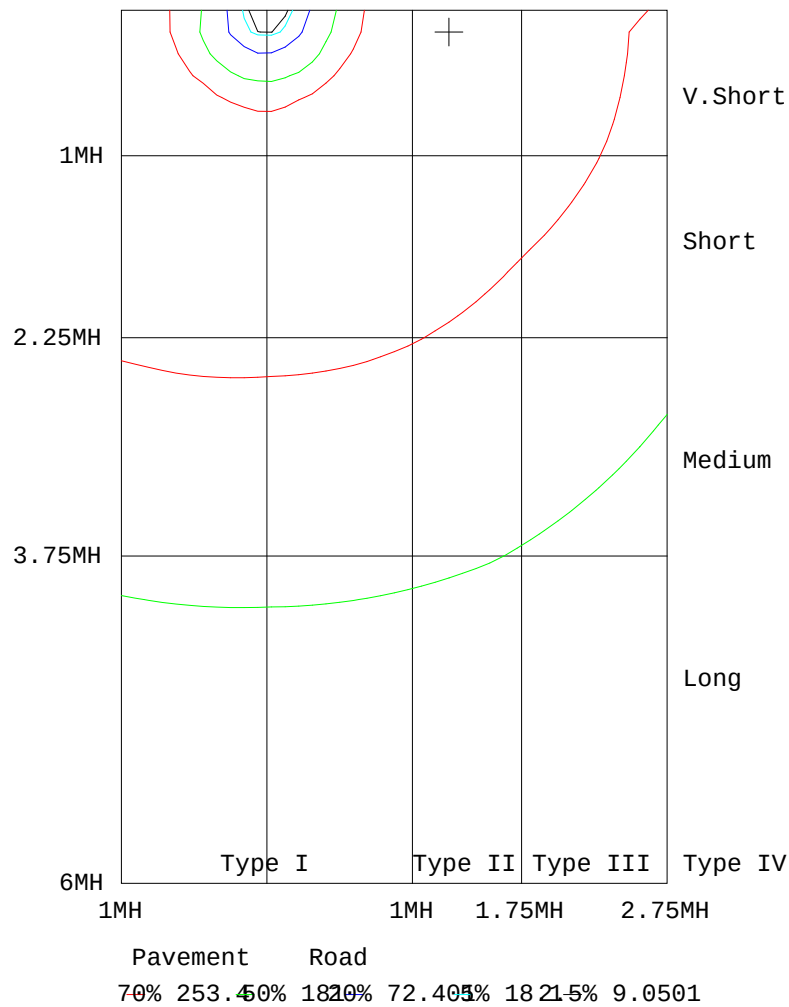
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JINZHI  
Test Date:2022-05-09

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:119.88V I:0.0991A P:11.703W PF:0.9847 Freq:59.98Hz Lamp Flux:1537.93x1 lm |              |                  |
| NAME: PLTS-12359 12W 3000K                                                       | 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                 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18  | 1.18 | 1.18  | 1.18 | 1.18  | 1.18 | 1.18  | 1.18 | 1.18  | 1.18 | 1.18  |  |  |  |
| 5                 | 1.79 | 1.80 | 1.96 | 2.02 | 2.18 | 2.21  | 2.37 | 2.21  | 2.19 | 2.13  | 1.92 | 1.87  | 1.75 | 1.70  | 1.66 | 1.61  |  |  |  |
| 10                | 15.3 | 16.4 | 16.6 | 17.2 | 17.8 | 18.6  | 19.2 | 18.1  | 18.5 | 18.7  | 15.4 | 15.6  | 13.6 | 13.9  | 13.1 | 13.1  |  |  |  |
| 15                | 57.1 | 55.4 | 56.6 | 60.3 | 61.2 | 62.4  | 64.0 | 60.9  | 65.7 | 60.1  | 55.5 | 50.5  | 50.8 | 50.7  | 50.0 | 45.4  |  |  |  |
| 20                | 128  | 127  | 124  | 125  | 132  | 129   | 131  | 128   | 139  | 128   | 121  | 118   | 123  | 121   | 115  | 117   |  |  |  |
| 25                | 187  | 179  | 177  | 184  | 180  | 175   | 176  | 176   | 191  | 177   | 173  | 176   | 178  | 168   | 170  | 169   |  |  |  |
| 30                | 217  | 228  | 227  | 223  | 217  | 222   | 224  | 231   | 223  | 230   | 219  | 217   | 208  | 219   | 214  | 220   |  |  |  |
| 35                | 272  | 266  | 272  | 262  | 263  | 262   | 268  | 266   | 277  | 268   | 261  | 258   | 262  | 254   | 259  | 261   |  |  |  |
| 40                | 323  | 312  | 328  | 322  | 325  | 311   | 337  | 334   | 336  | 317   | 322  | 318   | 310  | 299   | 323  | 324   |  |  |  |
| 45                | 357  | 354  | 345  | 342  | 350  | 351   | 353  | 351   | 365  | 355   | 342  | 336   | 337  | 333   | 343  | 343   |  |  |  |
| 50                | 373  | 363  | 347  | 348  | 357  | 361   | 356  | 362   | 376  | 365   | 341  | 339   | 345  | 348   | 345  | 350   |  |  |  |
| 55                | 362  | 353  | 338  | 343  | 348  | 351   | 347  | 357   | 367  | 358   | 333  | 336   | 340  | 335   | 334  | 344   |  |  |  |
| 60                | 334  | 327  | 310  | 315  | 317  | 318   | 320  | 329   | 341  | 331   | 314  | 313   | 317  | 315   | 314  | 322   |  |  |  |
| 65                | 296  | 289  | 272  | 276  | 276  | 276   | 277  | 286   | 299  | 289   | 279  | 281   | 285  | 282   | 280  | 287   |  |  |  |
| 70                | 252  | 245  | 230  | 233  | 233  | 232   | 233  | 242   | 253  | 248   | 237  | 239   | 242  | 241   | 237  | 244   |  |  |  |
| 75                | 202  | 197  | 184  | 184  | 184  | 185   | 185  | 194   | 204  | 201   | 192  | 192   | 194  | 193   | 194  | 196   |  |  |  |
| 80                | 150  | 145  | 135  | 134  | 134  | 137   | 138  | 144   | 152  | 151   | 145  | 143   | 145  | 144   | 144  | 146   |  |  |  |
| 85                | 99.7 | 95.8 | 88.6 | 88.3 | 88.6 | 90.2  | 91.5 | 96.1  | 102  | 99.7  | 95.6 | 93.7  | 94.9 | 94.1  | 95.8 | 96.4  |  |  |  |
| 90                | 68.3 | 66.3 | 61.8 | 60.4 | 59.6 | 61.0  | 62.0 | 64.9  | 69.0 | 68.0  | 65.7 | 64.0  | 65.0 | 64.5  | 65.8 | 65.6  |  |  |  |
| 95                | 34.3 | 38.3 | 36.7 | 35.4 | 31.2 | 34.9  | 36.0 | 37.2  | 34.9 | 39.2  | 39.0 | 37.0  | 32.1 | 37.7  | 39.6 | 38.7  |  |  |  |
| 100               | 27.3 | 28.8 | 28.1 | 27.1 | 25.5 | 27.2  | 28.2 | 28.9  | 27.7 | 29.0  | 28.6 | 27.3  | 25.3 | 27.0  | 28.4 | 28.2  |  |  |  |
| 105               | 22.7 | 24.5 | 23.7 | 23.2 | 21.7 | 23.9  | 24.6 | 24.9  | 23.2 | 24.6  | 24.2 | 23.2  | 21.2 | 22.9  | 24.0 | 23.9  |  |  |  |
| 110               | 16.7 | 19.8 | 19.5 | 19.0 | 16.1 | 19.3  | 20.1 | 20.1  | 17.3 | 19.4  | 19.7 | 18.8  | 16.1 | 18.8  | 19.6 | 19.2  |  |  |  |
| 115               | 11.5 | 14.7 | 14.5 | 14.0 | 11.2 | 14.1  | 14.7 | 14.7  | 12.0 | 14.4  | 15.0 | 14.4  | 11.4 | 14.3  | 14.9 | 14.4  |  |  |  |
| 120               | 8.67 | 11.0 | 11.1 | 10.5 | 8.43 | 10.3  | 11.1 | 10.8  | 9.03 | 10.9  | 11.6 | 10.9  | 8.55 | 10.7  | 11.4 | 10.7  |  |  |  |
| 125               | 7.21 | 8.91 | 9.33 | 8.65 | 7.05 | 8.37  | 9.29 | 8.85  | 7.50 | 8.92  | 9.60 | 8.77  | 7.01 | 8.66  | 9.58 | 8.74  |  |  |  |
| 130               | 6.14 | 7.64 | 8.26 | 7.49 | 6.04 | 7.18  | 8.16 | 7.59  | 6.36 | 7.56  | 8.30 | 7.39  | 5.95 | 7.34  | 8.35 | 7.47  |  |  |  |
| 135               | 5.13 | 6.60 | 7.28 | 6.46 | 5.12 | 6.18  | 7.13 | 6.46  | 5.37 | 6.43  | 7.23 | 6.27  | 5.03 | 6.32  | 7.38 | 6.46  |  |  |  |
| 140               | 4.33 | 5.62 | 6.25 | 5.51 | 4.21 | 5.30  | 6.16 | 5.44  | 4.38 | 5.39  | 6.22 | 5.34  | 4.18 | 5.37  | 6.38 | 5.56  |  |  |  |
| 145               | 4.05 | 4.82 | 5.38 | 4.68 | 3.79 | 4.61  | 5.39 | 4.68  | 3.89 | 4.64  | 5.42 | 4.56  | 3.73 | 4.63  | 5.55 | 4.76  |  |  |  |
| 150               | 3.60 | 4.00 | 4.55 | 3.88 | 3.35 | 3.85  | 4.58 | 3.82  | 3.42 | 3.91  | 4.61 | 3.86  | 3.33 | 3.90  | 4.74 | 3.91  |  |  |  |
| 155               | 2.96 | 3.27 | 3.63 | 3.06 | 2.56 | 2.95  | 3.55 | 3.01  | 2.83 | 3.20  | 3.68 | 3.09  | 2.72 | 3.15  | 3.82 | 3.26  |  |  |  |
| 160               | 2.61 | 2.76 | 2.79 | 2.36 | 2.02 | 2.23  | 2.61 | 2.45  | 2.45 | 2.71  | 2.83 | 2.54  | 2.34 | 2.61  | 2.97 | 2.77  |  |  |  |
| 165               | 2.34 | 2.24 | 2.01 | 1.80 | 1.70 | 1.85  | 2.01 | 1.96  | 2.17 | 2.20  | 2.21 | 2.14  | 2.04 | 2.19  | 2.30 | 2.30  |  |  |  |
| 170               | 1.84 | 1.55 | 1.40 | 1.40 | 1.47 | 1.45  | 1.46 | 1.50  | 1.71 | 1.72  | 1.58 | 1.68  | 1.77 | 1.81  | 1.77 | 1.80  |  |  |  |
| 175               | 1.11 | 0.98 | 0.91 | 0.92 | 0.97 | 0.98  | 1.03 | 1.11  | 1.00 | 1.14  | 1.08 | 1.19  | 1.24 | 1.29  | 1.21 | 1.25  |  |  |  |
| 180               | 0.52 | 0.50 | 0.54 | 0.64 | 0.67 | 0.67  | 0.68 | 0.64  | 0.52 | 0.50  | 0.57 | 0.67  | 0.67 | 0.69  | 0.69 | 0.66  |  |  |  |

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: