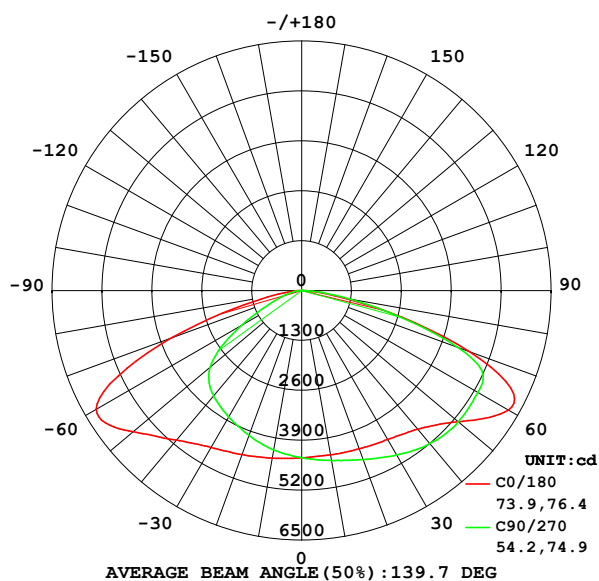
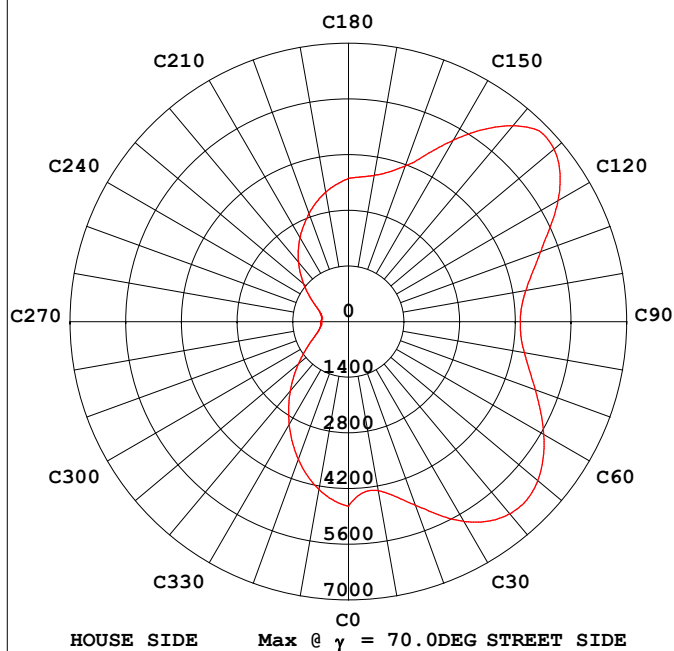


STREETLIGHT PHOTOMETRIC TEST REPORT

| | | |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:119.14V I:1.2673A P:150.91W PF:0.9994 Freq:60.01Hz Lamp Flux:21942.8x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Tamlite lighting | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 145.41 lm/W | | | |
|-------------------|-----------------|-----------------------------------|----------|------------------------|---------|
| MODEL | AL-240WS-3CS-T4 | Imax (cd) | 6788 | η street_up (%) | 0.0 |
| NOMINAL POWER (W) | 150 | LOR (%) | 100.0 | η street_down (%) | 60.2 |
| RATED VOLTAGE (V) | 120 | TOTAL FLUX (lm) | 21943 | η house_up (%) | 0.0 |
| NOMINAL FLUX (lm) | 21942.8 | MAXIMUM @ (C, γ) | 135,70.0 | η house_down (%) | 39.8 |
| LAMPS INSIDE | 1 | η up (%) | 0.0 | 76 FLASHAREA (m2) | 0.05000 |
| TEST VOLTAGE (V) | 120 | η down (%) | 100.0 | SLI | 23.638 |

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.8 °C
Operators: DAMIN
Test Date: 2024-12-22

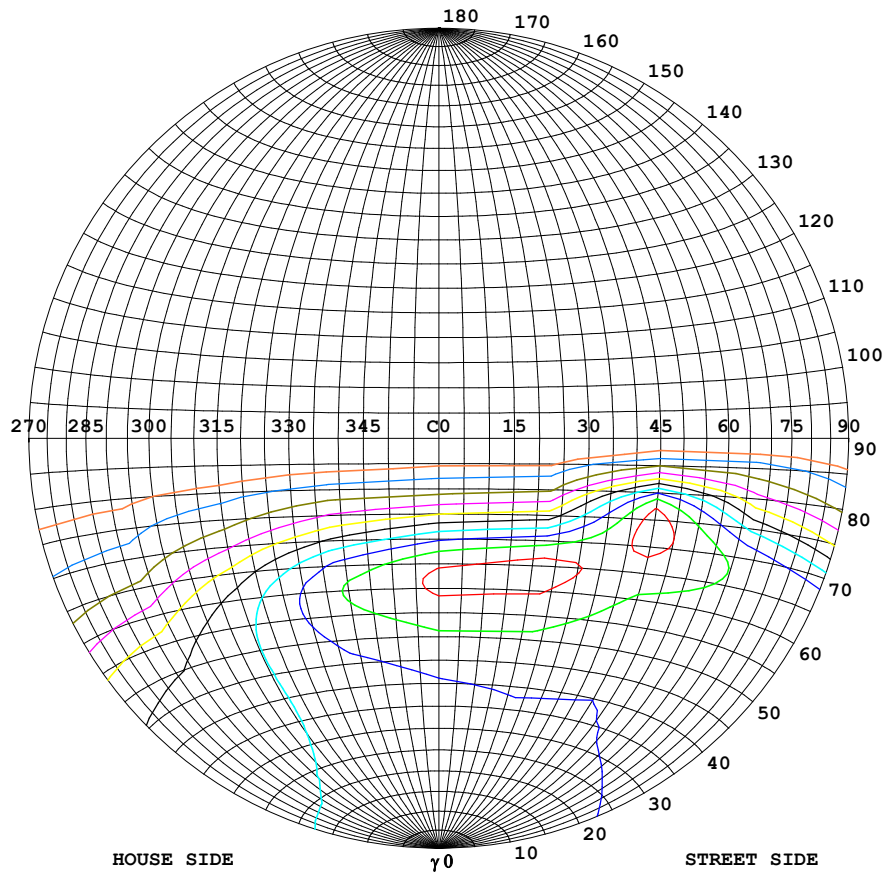
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
Test Distance: 26.000m [K=0.4295]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:119.14V I:1.2673A P:150.91W PF:0.9994 Freq:60.01Hz

Lamp Flux:21942.8x1 lm

| | | |
|------------------------|-------|------------------|
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Tamlite lighting | SUR.: | Shielding Angle: |



Classification:

IES:Type IV - Short

CIE:Broad - Long

IES:None cut-off

CIE:Non-cut-off

Max.At80:216.3cd/klm

Max.At90:0cd/klm

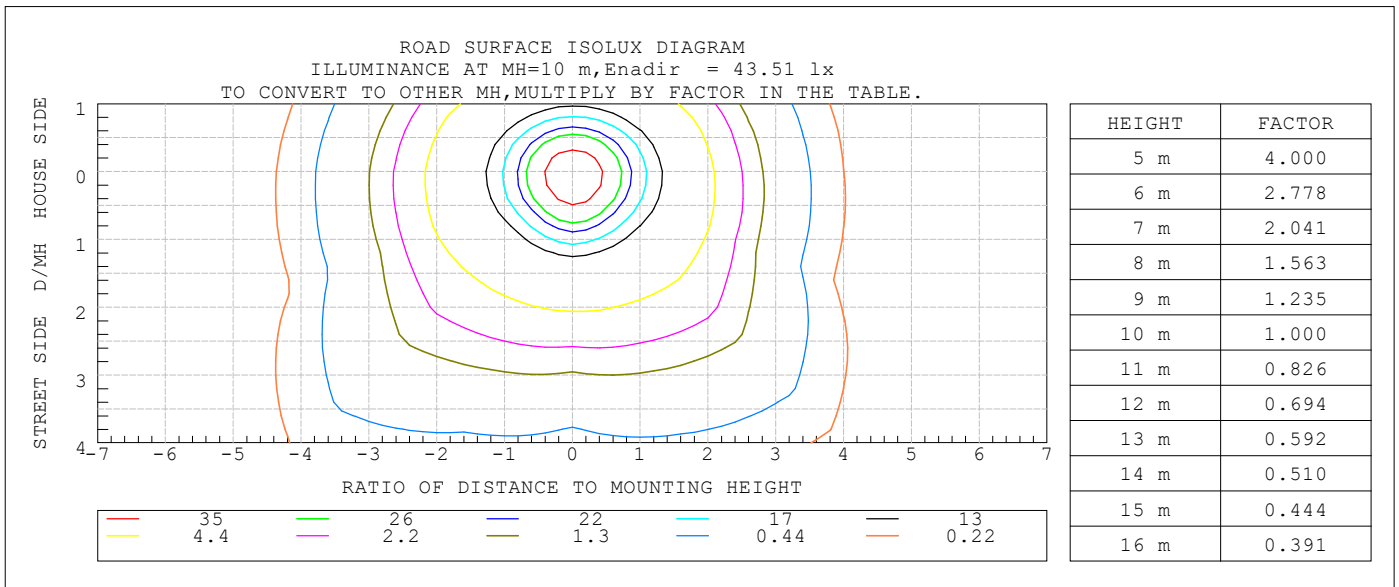
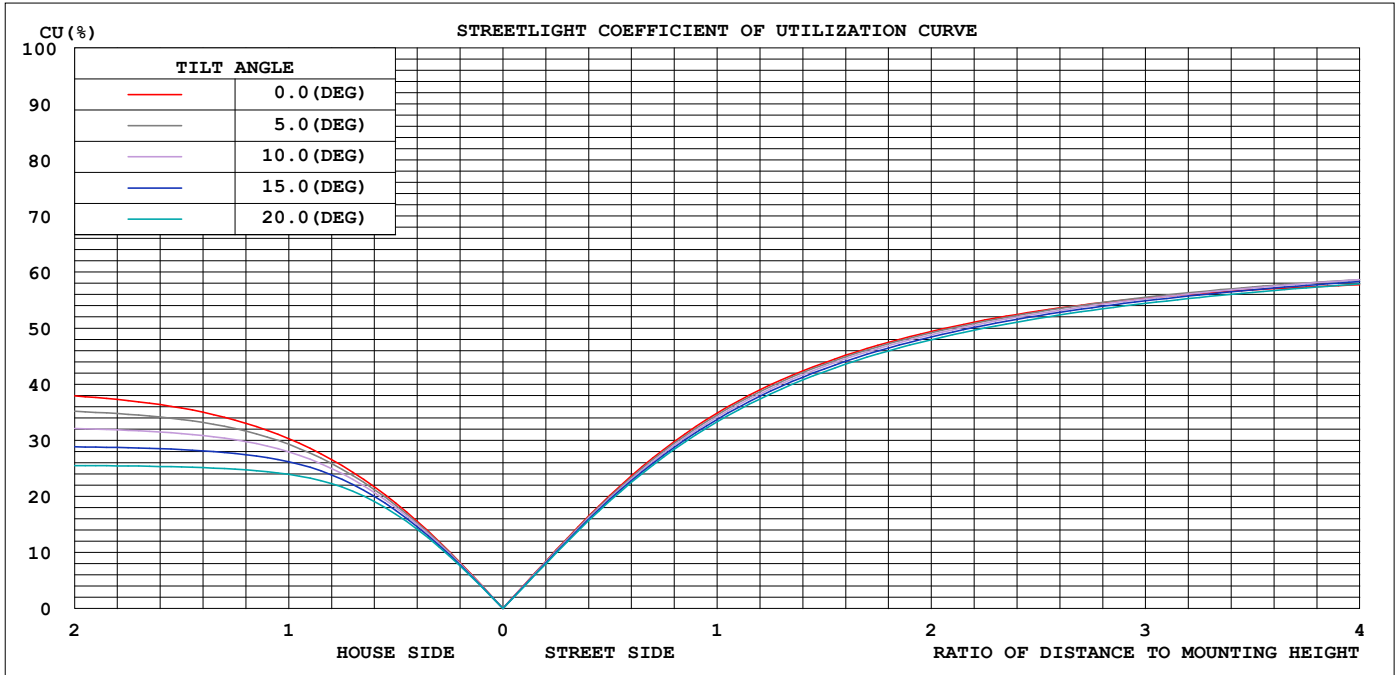
Max.80-90:216.3cd/klm

| ISOCANDELA DIAGRAM | |
|--------------------|------|
| UNIT | cd |
| Imax=100% | 6788 |
| 90% | 6109 |
| 80% | 5430 |
| 70% | 4752 |
| 60% | 4073 |
| 50% | 3394 |
| 40% | 2715 |
| 30% | 2036 |
| 20% | 1358 |
| 10% | 679 |
| 5% | 339 |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.8℃
Operators:DAMIN
Test Date:2024-12-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
Test Distance:26.000m [K=0.4295]
Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.8℃
Operators:DAMIN
Test Date:2024-12-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
Test Distance:26.000m [K=0.4295]
Remarks:

ZONAL FLUX DIAGRAM

| | | |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:119.14V I:1.2673A P:150.91W PF:0.9994 Freq:60.01Hz Lamp Flux:21942.8x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Tamlite lighting | SUR.: | Shielding Angle: |

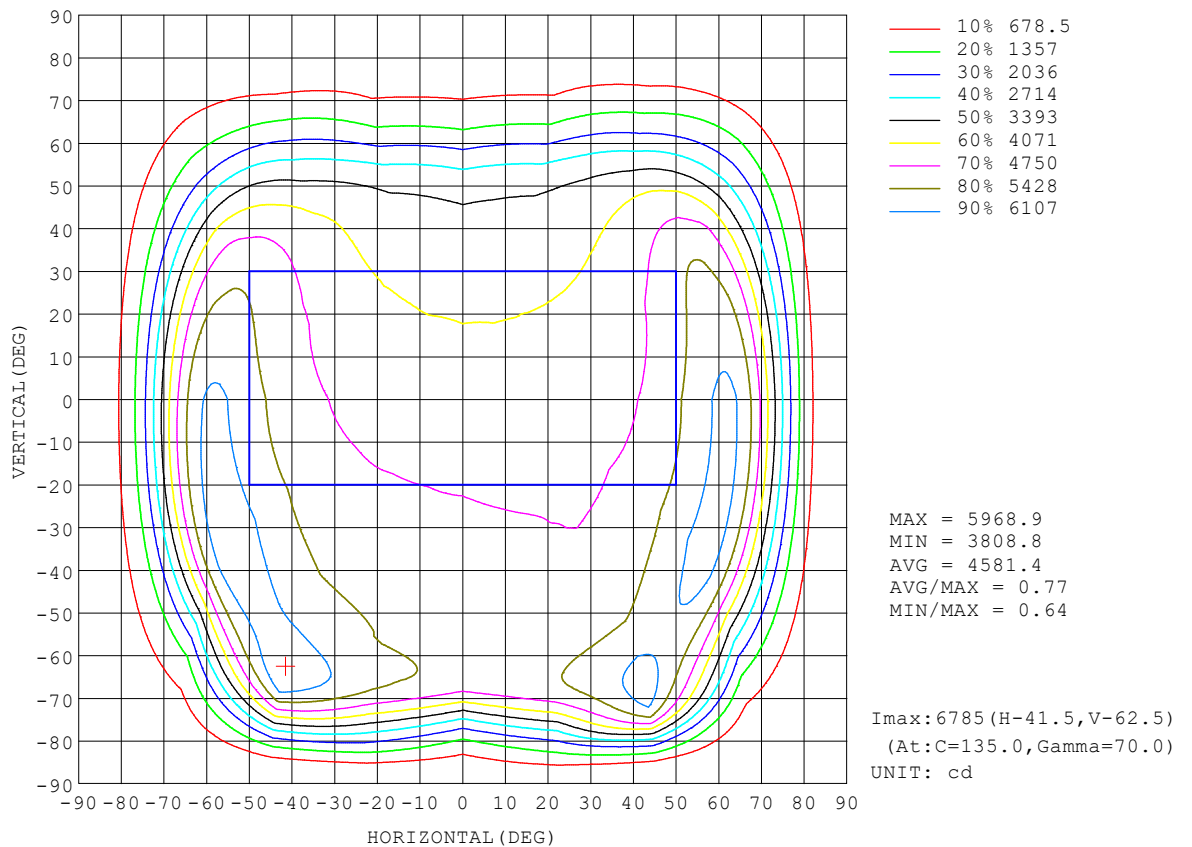
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|-----|-----------------------|------|------|------|-------|-------|-------|-------|---------|---------|---------|-----------|
| 10 | 4345 | 4436 | 4494 | 4503 | 4431 | 4314 | 4214 | 4249 | 0- 10 | 416.6 | 416.6 | 1.9,1.9 |
| 20 | 4386 | 4541 | 4684 | 4657 | 4546 | 4263 | 4018 | 4164 | 10- 20 | 1244 | 1660 | 7.57,7.57 |
| 30 | 4477 | 4659 | 4945 | 4839 | 4719 | 4206 | 3805 | 4080 | 20- 30 | 2053 | 3714 | 16.9,16.9 |
| 40 | 4714 | 4766 | 5198 | 5071 | 5090 | 4208 | 3577 | 4039 | 30- 40 | 2842 | 6556 | 29.9,29.9 |
| 50 | 5322 | 4961 | 5327 | 5378 | 5721 | 4205 | 3116 | 4048 | 40- 50 | 3628 | 10184 | 46.4,46.4 |
| 60 | 6225 | 5370 | 5302 | 5883 | 6178 | 3442 | 1798 | 3670 | 50- 60 | 4317 | 14500 | 66.1,66.1 |
| 70 | 4644 | 6342 | 4324 | 6788 | 3606 | 1715 | 693.8 | 1951 | 60- 70 | 4305 | 18806 | 85.7,85.7 |
| 80 | 1075 | 4745 | 1261 | 3313 | 755.1 | 357.9 | 241.1 | 471.6 | 70- 80 | 2618 | 21424 | 97.6,97.6 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80- 90 | 519.2 | 21943 | 100,100 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90-100 | 0 | 21943 | 100,100 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100-110 | 0 | 21943 | 100,100 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110-120 | 0 | 21943 | 100,100 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120-130 | 0 | 21943 | 100,100 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130-140 | 0 | 21943 | 100,100 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140-150 | 0 | 21943 | 100,100 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150-160 | 0 | 21943 | 100,100 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160-170 | 0 | 21943 | 100,100 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170-180 | 0 | 21943 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.8℃
Operators:DAMIN
Test Date:2024-12-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
Test Distance:26.000m [K=0.4295]
Remarks:

ISOCANDELA DIAGRAM

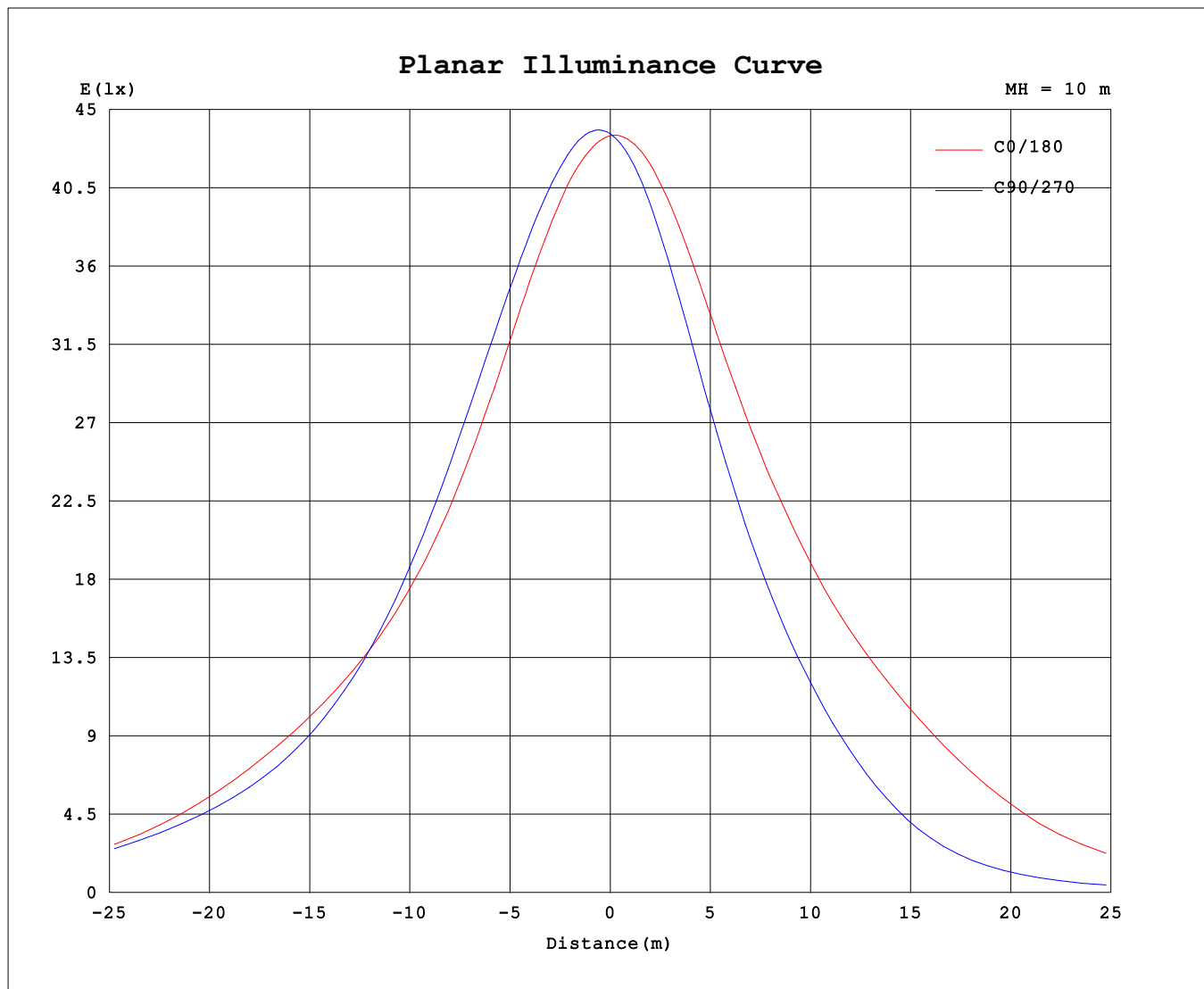
| | | |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:119.14V I:1.2673A P:150.91W PF:0.9994 Freq:60.01Hz Lamp Flux:21942.8x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Tamlite lighting | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.8℃
Operators:DAMIN
Test Date:2024-12-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
Test Distance:26.000m [K=0.4295]
Remarks:

Planar Illuminance Curve



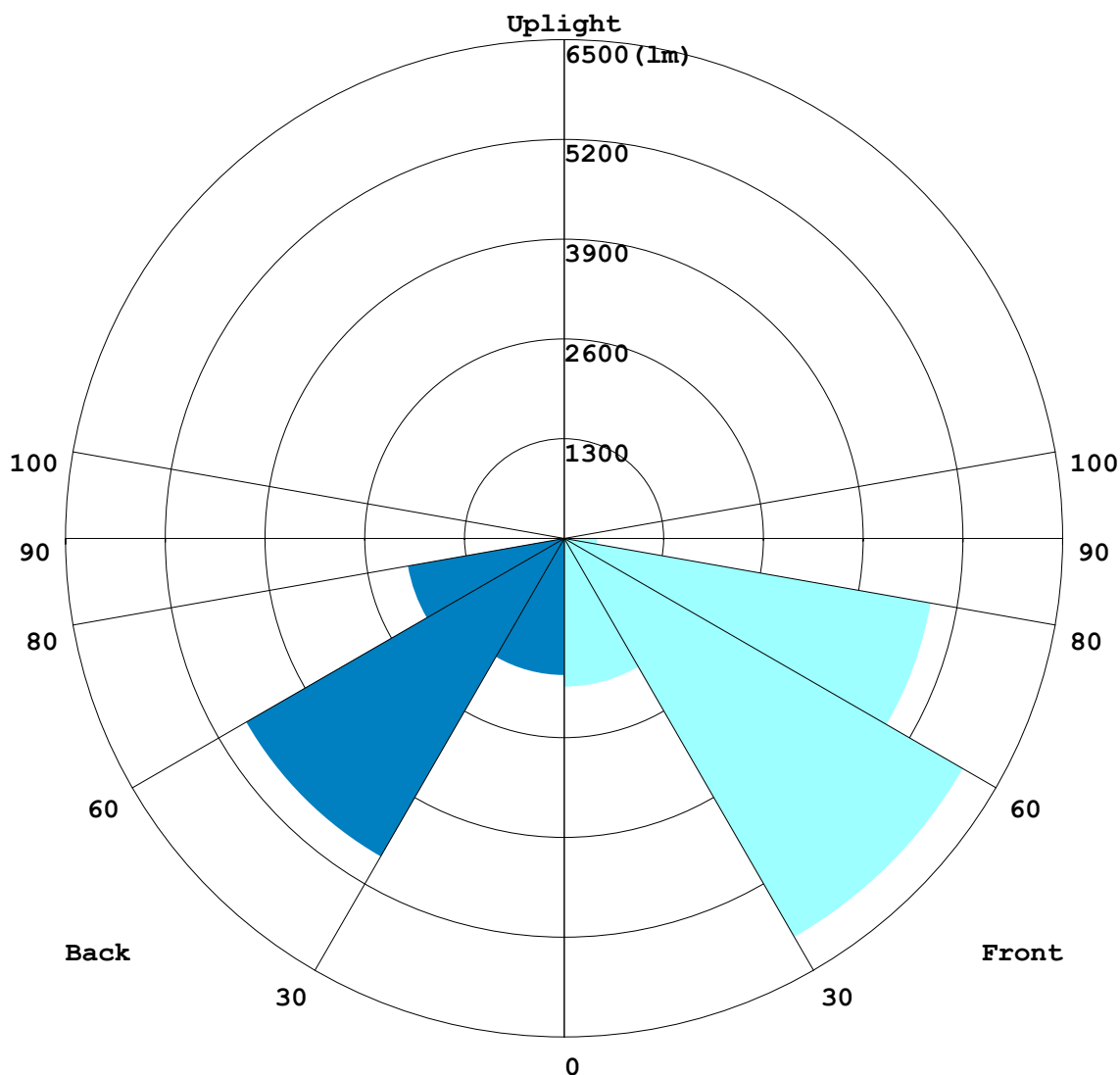
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.8℃
 Operators:DAMIN
 Test Date:2024-12-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
 Humidity: 100.0%
 Test Distance:26.000m [K=0.4295]
 Remarks:

LCS REPORT

| | | |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:119.14V I:1.2673A P:150.91W PF:0.9994 Freq:60.01Hz Lamp Flux:21942.8x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Tamlite lighting | SUR.: | Shielding Angle: |

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.8℃
Operators:DAMIN
Test Date:2024-12-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
Test Distance:26.000m [K=0.4295]
Remarks:

BUG REPORT

| | | |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:119.14V I:1.2673A P:150.91W PF:0.9994 Freq:60.01Hz Lamp Flux:21942.8x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: TamLite lighting | SUR.: | Shielding Angle: |

IESNA Luminaire Flux Distribution Table:

| Zone | Lumens | Luminaire % |
|------------------------------|--------|-------------|
| FL - Front-Low(0-30) | 1932.9 | 8.8 |
| FM - Front-Medium(30-60) | 6001.4 | 27.4 |
| FH - Front-High(60-80) | 4853.2 | 22.1 |
| FVH - Front-Very High(80-90) | 431.55 | 2.0 |
| Total Forward Light | 13219 | 60.2 |

| | | |
|-----------------------------|--------|------|
| BL - Back-Low(0-30) | 1780.7 | 8.1 |
| BM - Back-Medium(30-60) | 4785.2 | 21.8 |
| BH - Back-High(60-80) | 2070.1 | 9.4 |
| BVH - Back-Very High(80-90) | 87.679 | 0.4 |
| Total Back Light | 8723.7 | 39.8 |

| | | |
|----------------------------|---|-----|
| UL - Uplight-Low(90-100) | 0 | 0.0 |
| UH - Uplight-High(100-180) | 0 | 0.0 |
| Total Up Light | 0 | 0.0 |

| | |
|---------------------------|----------|
| BUG(Back,Up,Glare) Rating | B3-U0-G3 |
|---------------------------|----------|

| Zone | Downward Lumens | Upward Lumens | Total Lumens |
|-------------|--------------------|------------------|-----------------|
| House Side | 8723.7 | 0 | 8723.7 |
| Street Side | 13219 | 0 | 13219 |

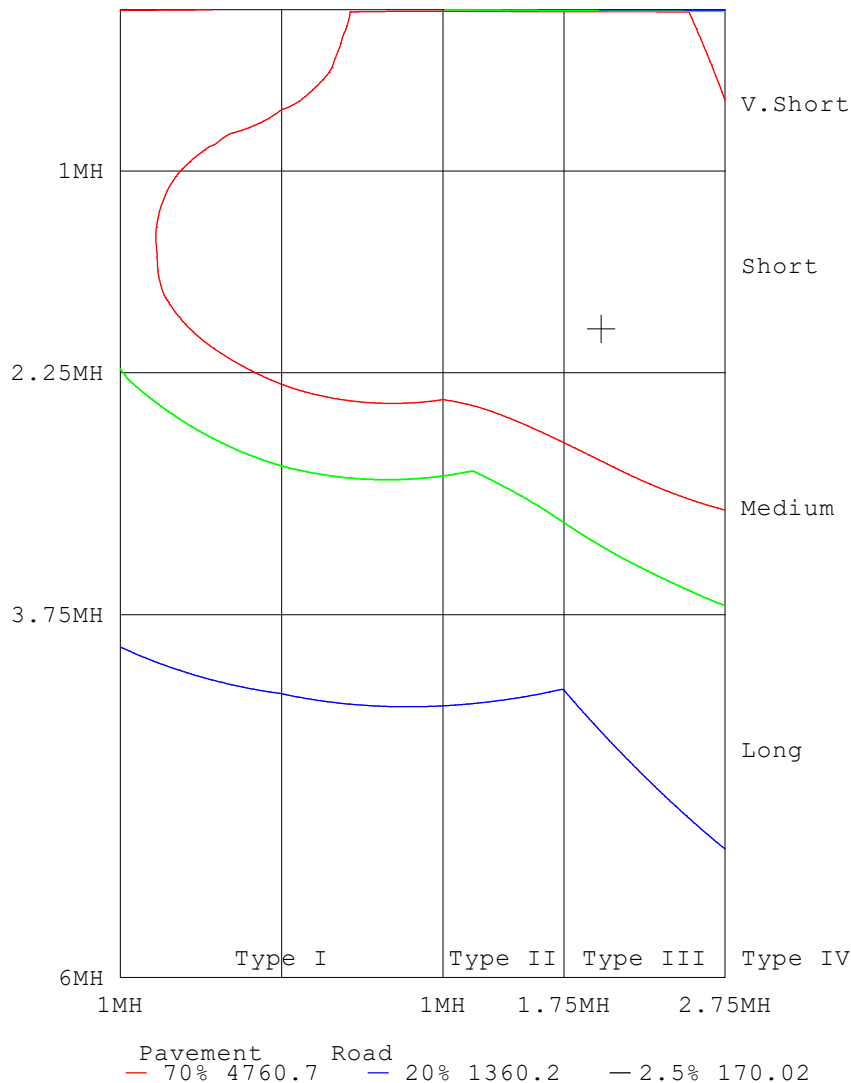
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.8℃
Operators:DAMIN
Test Date:2024-12-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
Test Distance:26.000m [K=0.4295]
Remarks:

ROAD ISOCANDELA REPORT

| | | |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:119.14V I:1.2673A P:150.91W PF:0.9994 Freq:60.01Hz Lamp Flux:21942.8x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Tamlite lighting | SUR.: | Shielding Angle: |

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.8 °C
Operators:DAMIN
Test Date:2024-12-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
Test Distance:26.000m [K=0.4295]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|-------------------------------------------------------------------------------------|-------|------------------|
| Test:U:119.14V I:1.2673A P:150.91W PF:0.9994 Freq:60.01Hz Lamp Flux:21942.8x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: TamLite lighting | SUR.: | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) 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 | 4357 | 4357 | 4357 | 4357 | 4357 | 4357 | 4357 | 4357 | 4357 | 4357 | 4357 | 4357 | 4357 | 4357 | 4357 | 4357 | | | |
| 5 | 4341 | 4366 | 4393 | 4410 | 4422 | 4428 | 4411 | 4410 | 4386 | 4359 | 4341 | 4304 | 4289 | 4285 | 4291 | 4316 | | | |
| 10 | 4345 | 4382 | 4436 | 4467 | 4494 | 4506 | 4503 | 4471 | 4431 | 4369 | 4314 | 4242 | 4214 | 4214 | 4249 | 4293 | | | |
| 15 | 4358 | 4420 | 4475 | 4529 | 4577 | 4597 | 4567 | 4547 | 4484 | 4389 | 4289 | 4170 | 4121 | 4137 | 4205 | 4285 | | | |
| 20 | 4386 | 4462 | 4541 | 4602 | 4684 | 4695 | 4657 | 4612 | 4546 | 4415 | 4263 | 4088 | 4018 | 4051 | 4164 | 4291 | | | |
| 25 | 4430 | 4515 | 4614 | 4690 | 4806 | 4813 | 4757 | 4705 | 4623 | 4451 | 4234 | 3999 | 3907 | 3961 | 4115 | 4302 | | | |
| 30 | 4477 | 4592 | 4659 | 4788 | 4945 | 4935 | 4839 | 4812 | 4719 | 4512 | 4206 | 3915 | 3805 | 3870 | 4080 | 4329 | | | |
| 35 | 4574 | 4689 | 4694 | 4882 | 5085 | 5046 | 4958 | 4950 | 4871 | 4612 | 4195 | 3833 | 3692 | 3777 | 4051 | 4381 | | | |
| 40 | 4714 | 4824 | 4766 | 4968 | 5198 | 5148 | 5071 | 5139 | 5090 | 4772 | 4208 | 3749 | 3577 | 3684 | 4039 | 4473 | | | |
| 45 | 4950 | 5020 | 4849 | 5048 | 5289 | 5230 | 5205 | 5417 | 5371 | 4979 | 4231 | 3634 | 3414 | 3559 | 4044 | 4651 | | | |
| 50 | 5322 | 5307 | 4961 | 5110 | 5327 | 5301 | 5378 | 5750 | 5721 | 5188 | 4205 | 3426 | 3116 | 3384 | 4048 | 4904 | | | |
| 55 | 5809 | 5718 | 5126 | 5150 | 5319 | 5363 | 5594 | 6165 | 6109 | 5300 | 3965 | 2982 | 2556 | 2991 | 3977 | 5228 | | | |
| 60 | 6225 | 6163 | 5370 | 5217 | 5302 | 5444 | 5883 | 6507 | 6178 | 5042 | 3442 | 2231 | 1798 | 2301 | 3670 | 5394 | | | |
| 65 | 6006 | 6313 | 5794 | 5318 | 5217 | 5589 | 6353 | 6158 | 5271 | 4252 | 2641 | 1422 | 1132 | 1513 | 2945 | 4904 | | | |
| 70 | 4644 | 5117 | 6342 | 5160 | 4324 | 5340 | 6788 | 4350 | 3606 | 2785 | 1715 | 831 | 694 | 899 | 1951 | 3519 | | | |
| 75 | 2702 | 3047 | 6487 | 3928 | 2642 | 4019 | 5923 | 2219 | 1826 | 1513 | 900 | 480 | 425 | 519 | 1089 | 2069 | | | |
| 80 | 1075 | 1261 | 4745 | 2236 | 1261 | 2377 | 3313 | 873 | 755 | 665 | 358 | 251 | 241 | 270 | 472 | 865 | | | |
| 85 | 290 | 290 | 1323 | 947 | 411 | 810 | 875 | 234 | 190 | 129 | 94.1 | 76.2 | 86.8 | 89.9 | 107 | 173 | | | |
| 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 110 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 115 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 120 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 125 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 130 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 140 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 145 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 155 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 160 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 170 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 175 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.8℃
Operators:DAMIN
Test Date:2024-12-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
Test Distance:26.000m [K=0.4295]
Remarks: