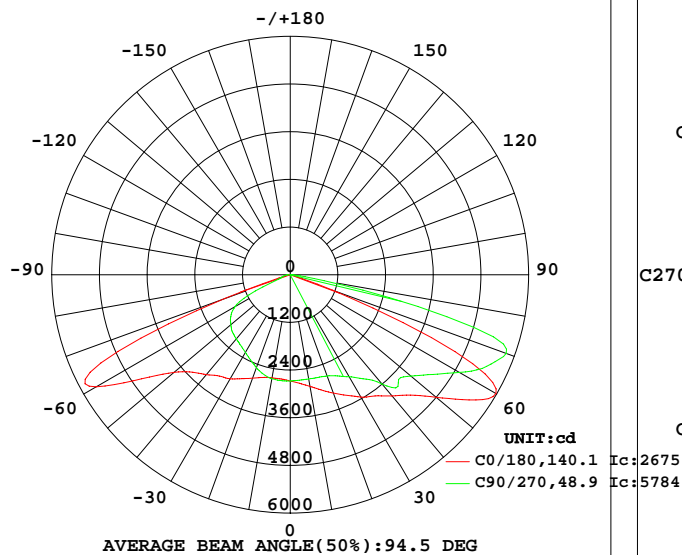
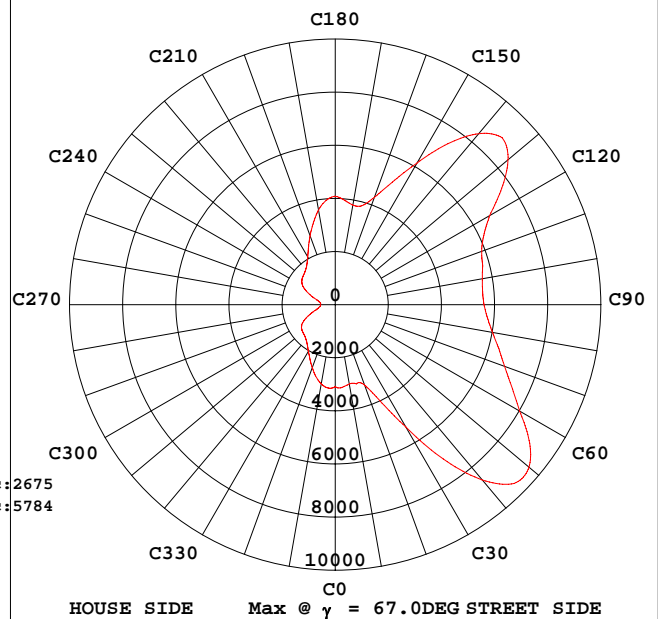


## STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:479.0V I:0.2263A P:99.62W PF:0.9192 Freq:60.01Hz Lamp Flux:16354.6x1 lm		
NAME: AoK PLA	TYPE:LED STREET LIGHT	WEIGHT:4.8KG
SPEC.:AOK-100WPLA-HV-L2-00-5070-T411-P	DIM.: 585*270*56mm	SERIAL No.:
MFR.: AOK	SUR.:180*180mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 164.17 lm/W			
MODEL	2835	I <sub>max</sub> (cd)	9517	η street_up(%)	0.0
NOMINAL POWER(W)	100	LOR(%)	100.0	η street_down(%)	65.0
RATED VOLTAGE(V)	480	TOTAL FLUX(lm)	16355	η house_up(%)	0.0
NOMINAL FLUX(lm)	16354.6	MAXIMUM @(C,γ )	45,67.0	η house_down(%)	35.0
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	480	η down(%)	100.0	SLI	17.658

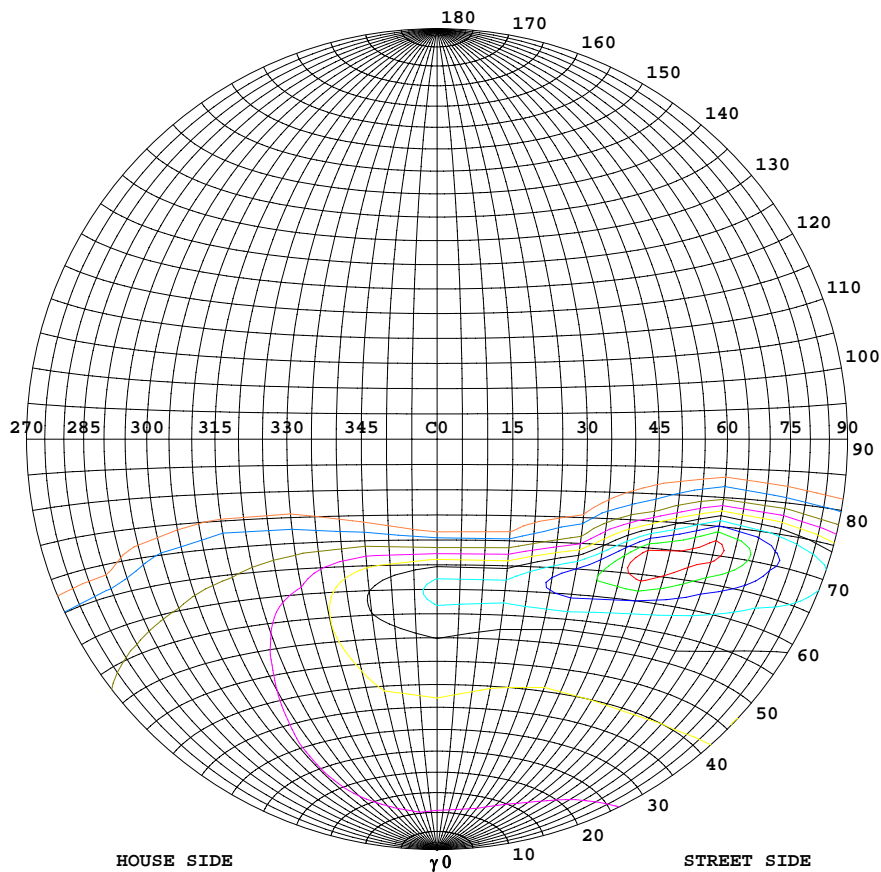
INTENSITY DISTRIBUTION DIAGRAM  
IN C PLANSMAX INTENSITY CONE SURFACE  
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-12-21

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
 Humidity:65.0%  
 Test Distance:7.682m [K=1.0000]  
 Remarks:

## STREETLIGHT ISOCANDELA DIAGRAM

Test:U:479.0V I:0.2263A P:99.62W PF:0.9192 Freq:60.01Hz Lamp Flux:16354.6x1 lm		
NAME: AoK PLA	TYPE:LED STREET LIGHT	WEIGHT:4.8KG
SPEC.:AOK-100WPLA-HV-L2-00-5070-T411-P	DIM.: 585*270*56mm	SERIAL No.:
MFR.: AOK	SUR.:180*180mm	Shielding Angle:



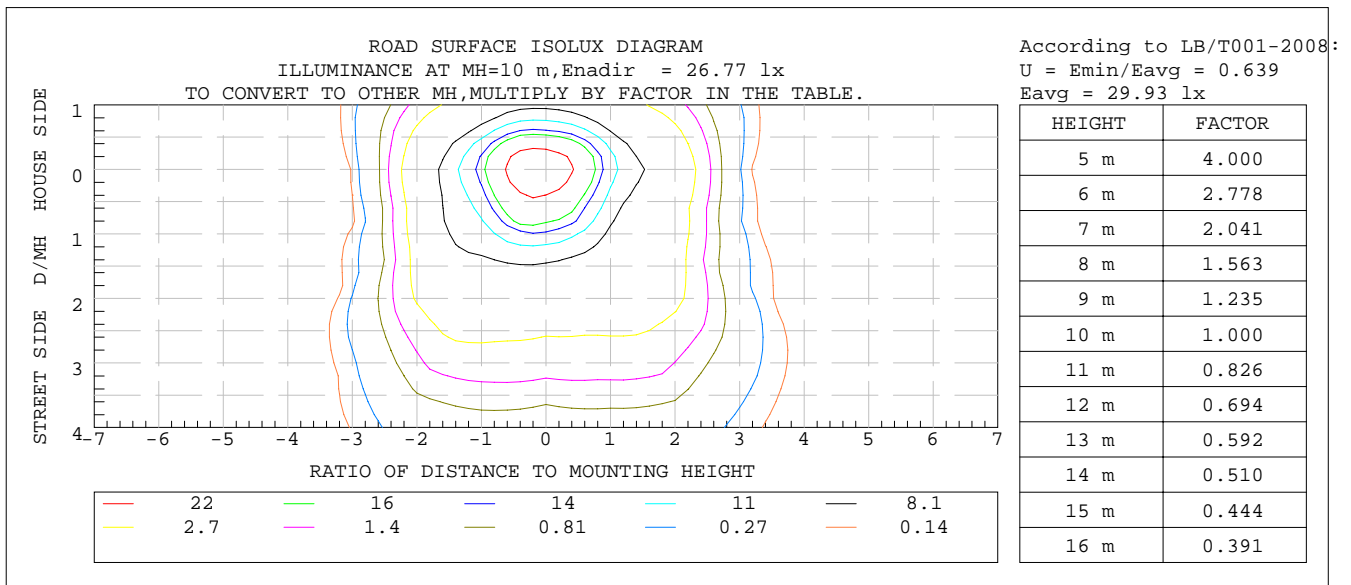
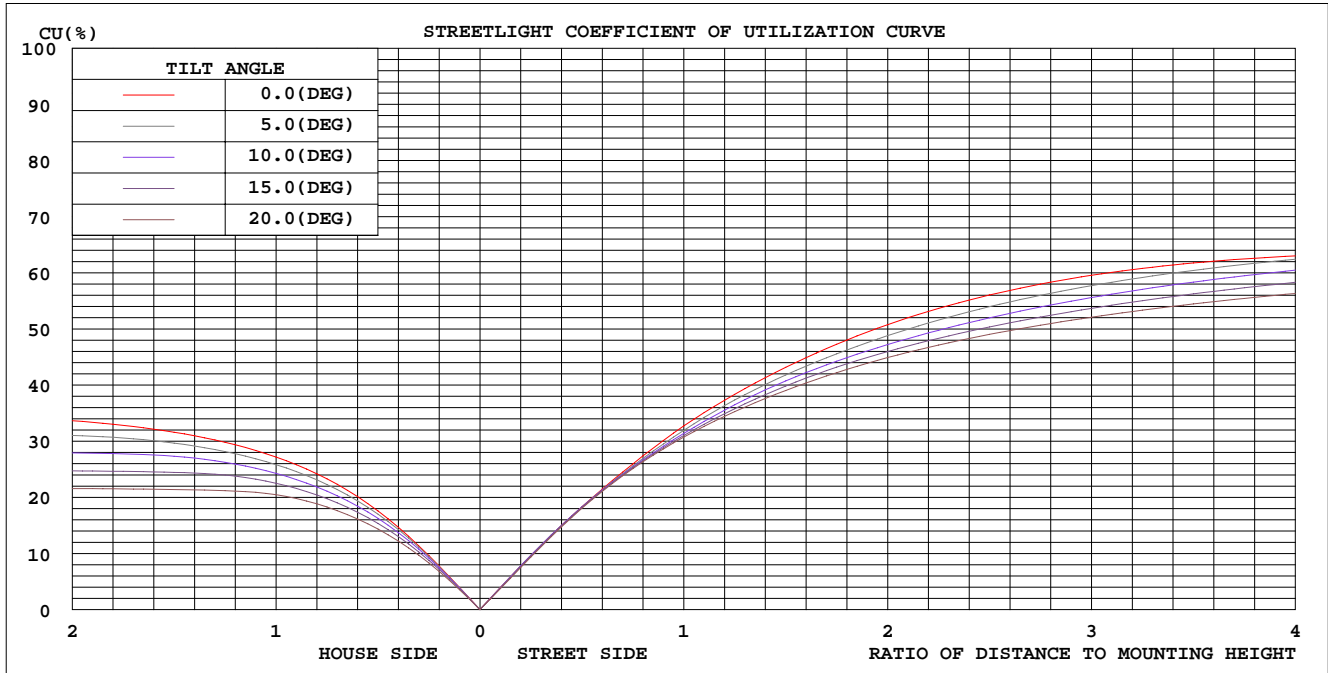
## Classification:

IES:Type IV - Short  
CIE:Broad - Intermediate  
IES:Semi cut-off  
CIE:Non-cut-off  
Max.At80:126.3cd/klm  
Max.At90:0cd/klm  
Max.80-90:126.3cd/klm  
NRB 5101:Limited[8.3%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	9517
90%	8565
80%	7613
70%	6662
60%	5710
50%	4758
40%	3807
30%	2855
20%	1903
10%	952
5%	476

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-12-21

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity:65.0%  
Test Distance:7.682m [K=1.0000]  
Remarks:

COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2022-12-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity: 65.0%  
Test Distance: 7.682m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

Test:U:479.0V I:0.2263A P:99.62W PF:0.9192 Freq:60.01Hz Lamp Flux:16354.6x1 lm		
NAME: AoK PLA	TYPE:LED STREET LIGHT	WEIGHT:4.8KG
SPEC.:AOK-100WPLA-HV-L2-00-5070-T411-P	DIM.: 585*270*56mm	SERIAL No.:
MFR.: AOK	SUR.:180*180mm	Shielding Angle:

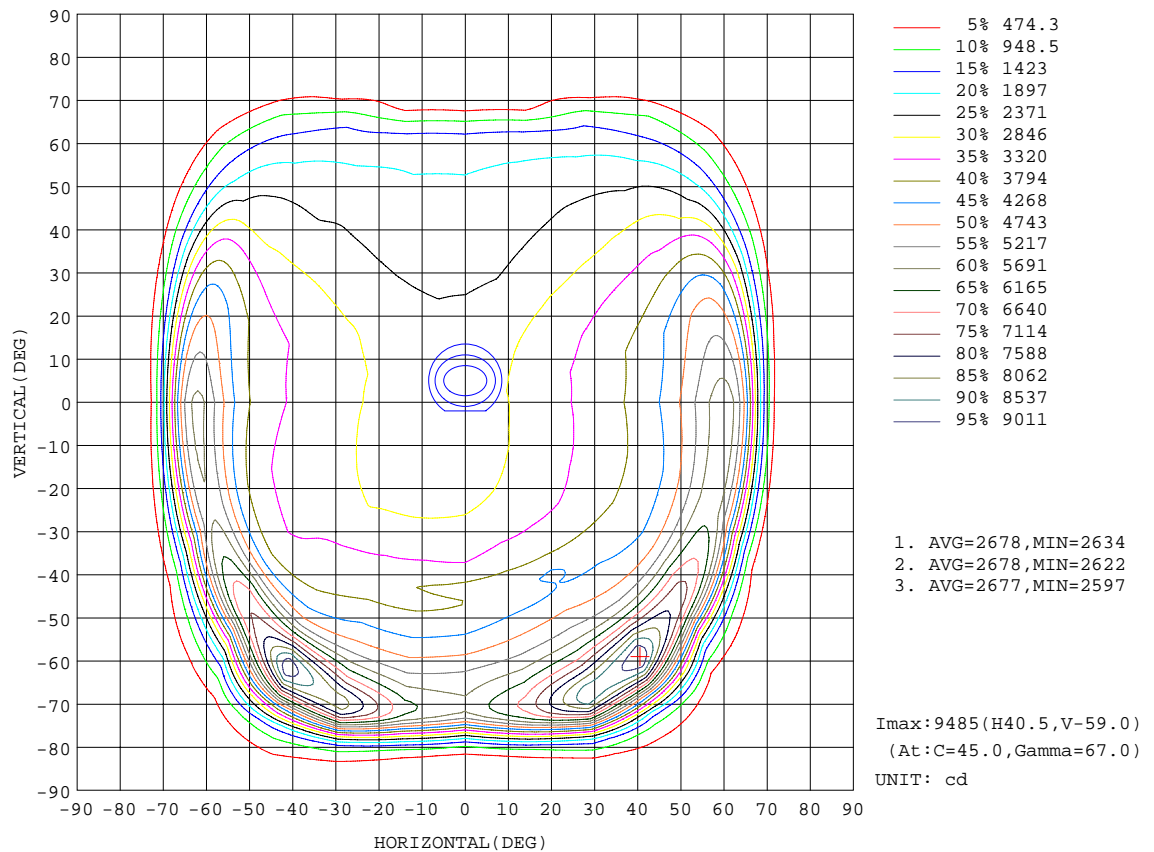
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	2851	2772	2664	2614	2637	2626	2656	2764	0- 10	256.3	256.3	1.57,1.57
20	3170	2971	2713	2653	2771	2618	2490	2886	10- 20	777.2	1034	6.32,6.32
30	3553	3268	2966	2788	3026	2636	2259	2938	20- 30	1323	2356	14.4,14.4
40	3980	3819	3586	3128	3281	2575	2113	2871	30- 40	1913	4269	26.1,26.1
50	4801	4459	3967	3551	3825	2433	1953	2694	40- 50	2567	6836	41.8,41.8
60	5976	6680	4920	4924	5640	2133	1606	2274	50- 60	3391	10228	62.5,62.5
70	1131	8302	5784	9206	1753	1366	272.1	1309	60- 70	4021	14249	87.1,87.1
80	98.82	734.8	864.7	1352	94.15	137.5	152.8	133.8	70- 80	1934	16183	98.9,98.9
90	0	0	0	0	0	0	0	0	80- 90	171.7	16355	100,100
100	0	0	0	0	0	0	0	0	90-100	0	16355	100,100
110	0	0	0	0	0	0	0	0	100-110	0	16355	100,100
120	0	0	0	0	0	0	0	0	110-120	0	16355	100,100
130	0	0	0	0	0	0	0	0	120-130	0	16355	100,100
140	0	0	0	0	0	0	0	0	130-140	0	16355	100,100
150	0	0	0	0	0	0	0	0	140-150	0	16355	100,100
160	0	0	0	0	0	0	0	0	150-160	0	16355	100,100
170	0	0	0	0	0	0	0	0	160-170	0	16355	100,100
180	0	0	0	0	0	0	0	0	170-180	0	16355	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-12-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
 Humidity:65.0%  
 Test Distance:7.682m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

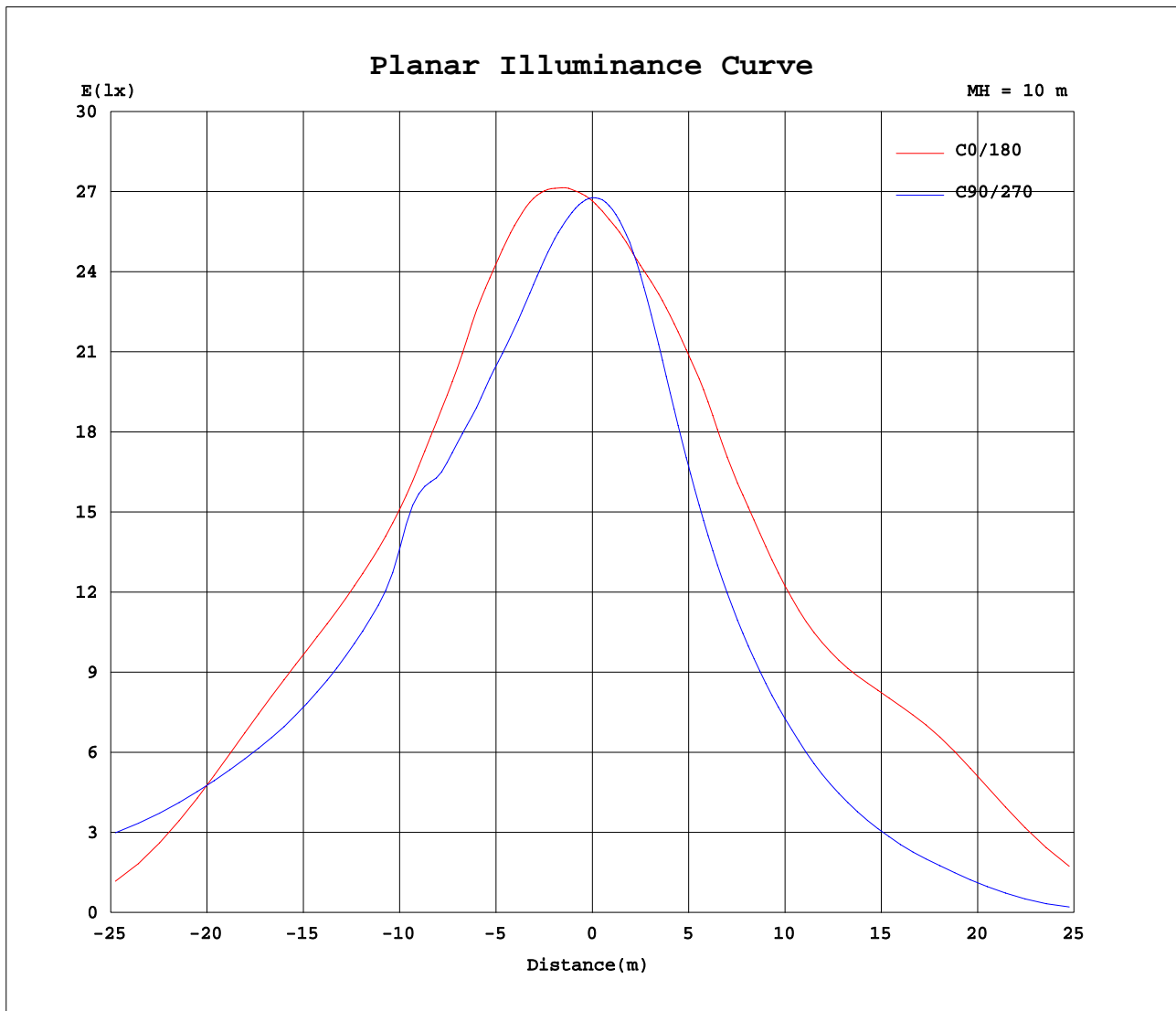
Test:U:479.0V I:0.2263A P:99.62W PF:0.9192 Freq:60.01Hz Lamp Flux:16354.6x1 lm		
NAME: AoK PLA	TYPE:LED STREET LIGHT	WEIGHT:4.8KG
SPEC.:AOK-100WPLA-HV-L2-00-5070-T411-P	DIM.: 585*270*56mm	SERIAL No.:
MFR.: AOK	SUR.:180*180mm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-12-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity:65.0%  
Test Distance:7.682m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



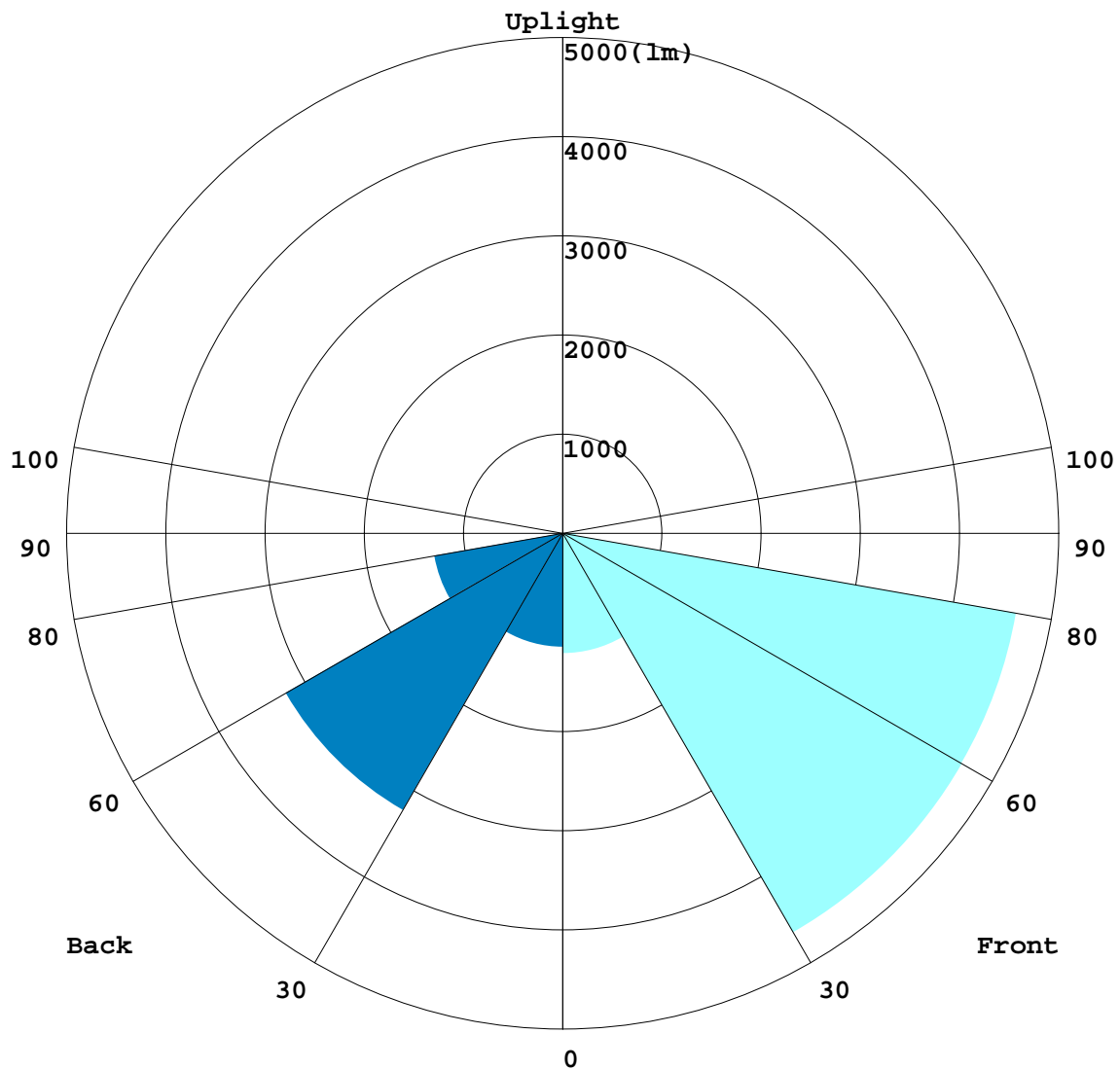
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2022-12-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity: 65.0%  
Test Distance: 7.682m [K=1.0000]  
Remarks:

## LCS REPORT

Test:U:479.0V I:0.2263A P:99.62W PF:0.9192 Freq:60.01Hz Lamp Flux:16354.6x1 lm		
NAME: AoK PLA	TYPE:LED STREET LIGHT	WEIGHT:4.8KG
SPEC.:AOK-100WPLA-HV-L2-00-5070-T411-P	DIM.: 585*270*56mm	SERIAL No.:
MFR.: AOK	SUR.:180*180mm	Shielding Angle:

## LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-12-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity:65.0%  
Test Distance:7.682m [K=1.0000]  
Remarks:

## BUG REPORT

Test:U:479.0V I:0.2263A P:99.62W PF:0.9192 Freq:60.01Hz Lamp Flux:16354.6x1 lm		
NAME: AoK PLA	TYPE:LED STREET LIGHT	WEIGHT:4.8KG
SPEC.:AOK-100WPLA-HV-L2-00-5070-T411-P	DIM.: 585*270*56mm	SERIAL No.:
MFR.: AOK	SUR.:180*180mm	Shielding Angle:

## IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1209.6	7.4
FM - Front-Medium(30-60)	4649	28.4
FH - Front-High(60-80)	4641.8	28.4
FVH - Front-Very High(80-90)	134.44	0.8
Total Forward Light	10635	65.0

BL - Back-Low(0-30)	1146.5	7.0
BM - Back-Medium(30-60)	3222.4	19.7
BH - Back-High(60-80)	1313.5	8.0
BVH - Back-Very High(80-90)	37.297	0.2
Total Back Light	5719.7	35.0

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	5719.7	0	5719.7
Street Side	10635	0	10635

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-12-21

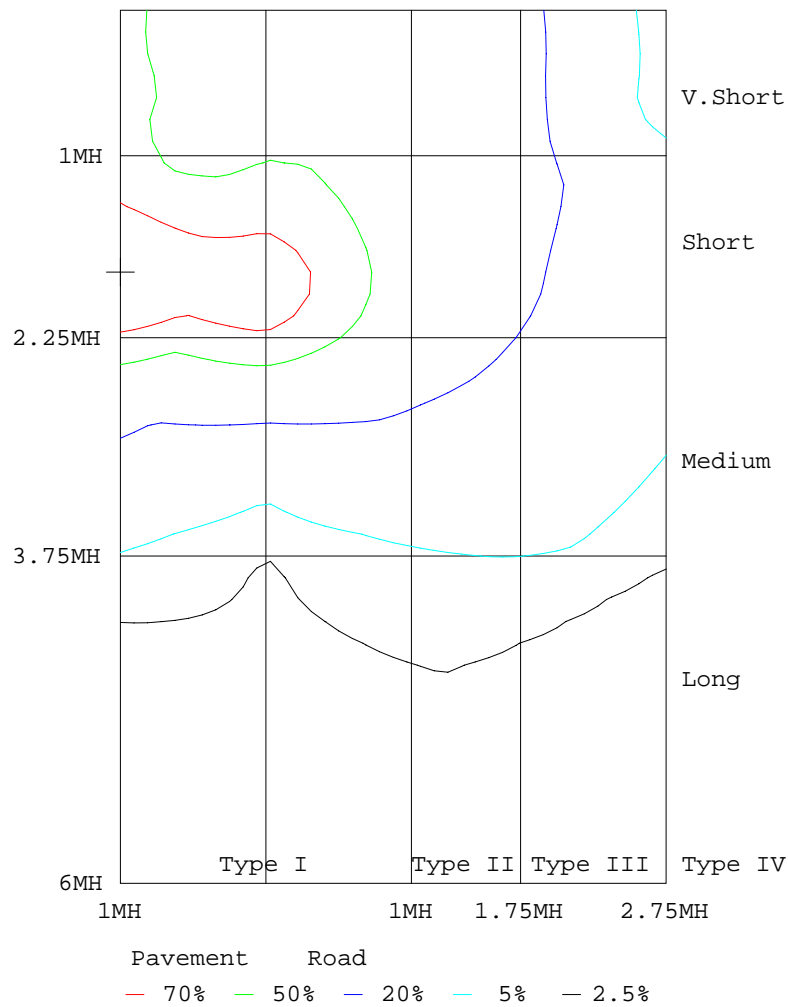
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
 Humidity:65.0%  
 Test Distance:7.682m [K=1.0000]  
 Remarks:



### ROAD ISOCANDELA REPORT

Test:U:479.0V I:0.2263A P:99.62W PF:0.9192 Freq:60.01Hz Lamp Flux:16354.6x1 lm		
NAME: AoK PLA	TYPE:LED STREET LIGHT	WEIGHT:4.8KG
SPEC.:AOK-100WPLA-HV-L2-00-5070-T411-P	DIM.: 585*270*56mm	SERIAL No.:
MFR.: AOK	SUR.:180*180mm	Shielding Angle:

### ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-12-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity:65.0%  
Test Distance:7.682m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:479.0V I:0.2263A P:99.62W PF:0.9192 Freq:60.01Hz Lamp Flux:16354.6x1 lm		
NAME: AoK PLA	TYPE:LED STREET LIGHT	WEIGHT:4.8KG
SPEC.:AOK-100WPLA-HV-L2-00-5070-T411-P	DIM.: 585*270*56mm	SERIAL No.:
MFR.: AOK	SUR.:180*180mm	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675
5	2743	2736	2724	2712	2697	2680	2665	2652	2639	2632	2632	2633	2635	2640	2642	2649	2654	2662	2675
10	2851	2840	2809	2772	2735	2700	2664	2636	2618	2614	2627	2633	2637	2641	2632	2626	2624	2630	2656
15	3001	2977	2931	2863	2800	2737	2677	2640	2631	2630	2644	2656	2677	2685	2653	2613	2583	2568	2596
20	3170	3127	3064	2971	2888	2797	2713	2671	2663	2653	2687	2722	2771	2781	2718	2618	2524	2473	2490
25	3347	3293	3213	3097	3025	2925	2811	2770	2743	2700	2761	2816	2887	2891	2795	2634	2464	2363	2367
30	3553	3480	3386	3268	3208	3126	2966	2922	2860	2788	2854	2932	3026	3018	2869	2636	2402	2267	2259
35	3724	3640	3568	3483	3473	3420	3197	3176	3116	2920	2948	3005	3113	3106	2911	2603	2343	2191	2175
40	3980	3840	3767	3819	3859	3781	3586	3451	3345	3128	3046	3116	3281	3255	2944	2575	2272	2120	2113
45	4285	4075	4018	4186	4301	4141	3846	3765	3715	3423	3196	3240	3472	3403	2954	2515	2217	2052	2052
50	4801	4496	4337	4459	4499	4268	3967	3831	3805	3551	3344	3483	3825	3618	2921	2433	2164	1972	1953
55	5494	5284	5262	5111	5074	4723	4375	4218	4265	3960	3855	4108	4570	4008	2863	2305	2031	1867	1827
60	5976	5977	6902	6680	5904	5296	4920	4727	4901	4924	5593	5355	5640	4402	2715	2133	1836	1653	1606
65	4576	4474	6678	9096	7284	6053	5455	5430	6070	7603	7010	4960	5259	3897	2342	1828	1567	1110	971
70	1131	1110	2768	8302	8844	6752	5784	6200	7808	9206	3923	1997	1753	1847	1580	1366	972	282	272
75	157	170	568	3423	6753	5499	4078	5266	7395	5247	1305	393	174	384	612	571	265	210	208
80	98.8	106	132	735	1643	1332	865	1335	2066	1352	336	105	94.1	127	132	138	170	146	153
85	46.2	57.6	55.4	187	296	226	121	236	365	359	69.8	44.5	36.2	50.8	40.7	47.3	113	77.9	88.5
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00	0.00	0.00

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-12-21

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity:65.0%  
Test Distance:7.682m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:479.0V I:0.2263A P:99.62W PF:0.9192 Freq:60.01Hz Lamp Flux:16354.6x1 lm		
NAME: AoK PLA	TYPE:LED STREET LIGHT	WEIGHT:4.8KG
SPEC.:AOK-100WPLA-HV-L2-00-5070-T411-P	DIM.: 585*270*56mm	SERIAL No.:
MFR.: AOK	SUR.:180*180mm	Shielding Angle:

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345														
0	2675	2675	2675	2675	2675														
5	2689	2704	2718	2732	2741														
10	2681	2717	2764	2809	2840														
15	2636	2717	2822	2921	2984														
20	2555	2701	2886	3041	3142														
25	2453	2667	2924	3150	3302														
30	2360	2614	2938	3257	3481														
35	2285	2553	2908	3330	3627														
40	2221	2482	2871	3395	3838														
45	2154	2416	2798	3417	4059														
50	2074	2335	2694	3405	4385														
55	1954	2170	2525	3302	4724														
60	1722	1928	2274	2990	4732														
65	1192	1611	1849	2359	3655														
70	286	1017	1309	1456	1428														
75	212	308	529	569	323														
80	146	173	134	132	127														
85	75.6	115	44.8	40.7	56.1														
90	0.00	0.00	0.00	0.00	0.00														
95	0.00	0.00	0.00	0.00	0.00														
100	0.00	0.00	0.00	0.00	0.00														
105	0.00	0.00	0.00	0.00	0.00														
110	0.00	0.00	0.00	0.00	0.00														
115	0.00	0.00	0.00	0.00	0.00														
120	0.00	0.00	0.00	0.00	0.00														
125	0.00	0.00	0.00	0.00	0.00														
130	0.00	0.00	0.00	0.00	0.00														
135	0.00	0.00	0.00	0.00	0.00														
140	0.00	0.00	0.00	0.00	0.00														
145	0.00	0.00	0.00	0.00	0.00														
150	0.00	0.00	0.00	0.00	0.00														
155	0.00	0.00	0.00	0.00	0.00														
160	0.00	0.00	0.00	0.00	0.00														
165	0.00	0.00	0.00	0.00	0.00														
170	0.00	0.00	0.00	0.00	0.00														
175	0.00	0.00	0.00	0.00	0.00														
180	0.00	0.00	0.00	0.00	0.00														

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-12-21

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity:65.0%  
Test Distance:7.682m [K=1.0000]  
Remarks: