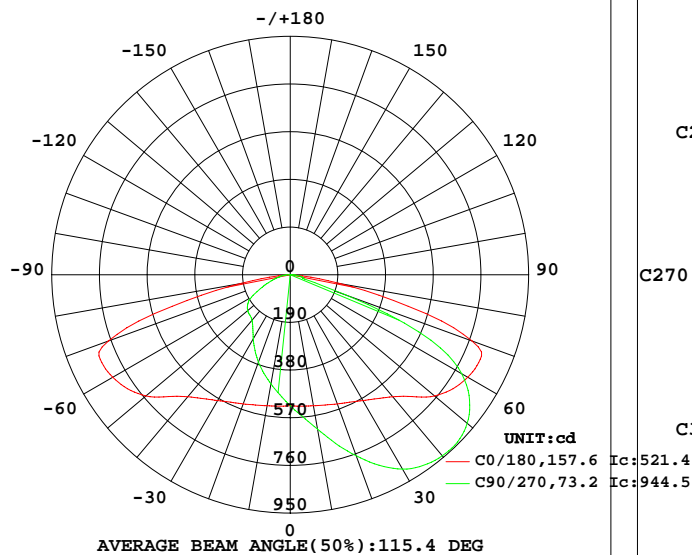
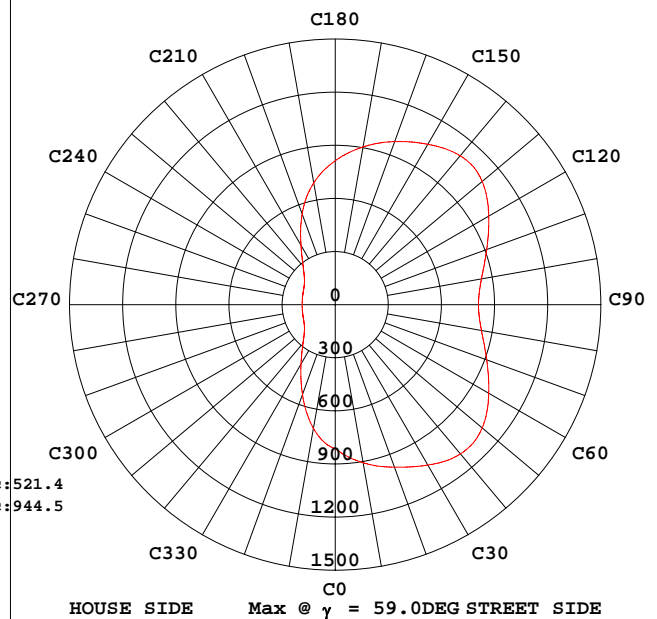


## STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:42.63V I:0.3499A P:14.92W PF:1.000 Freq:0Hz Lamp Flux:2932.48x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-15WSE-DC-L5-00-5070-T304-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 196.59 lm/W			
MODEL	5050	I <sub>max</sub> (cd)	1103	η street_up(%)	0.0
NOMINAL POWER(W)	15	LOR(%)	100.0	η street_down(%)	69.5
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	2932	η house_up(%)	0.0
NOMINAL FLUX(lm)	2932.48	MAXIMUM @(C,γ )	135,59.0	η house_down(%)	30.5
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220	η down(%)	100.0	SLI	19.248

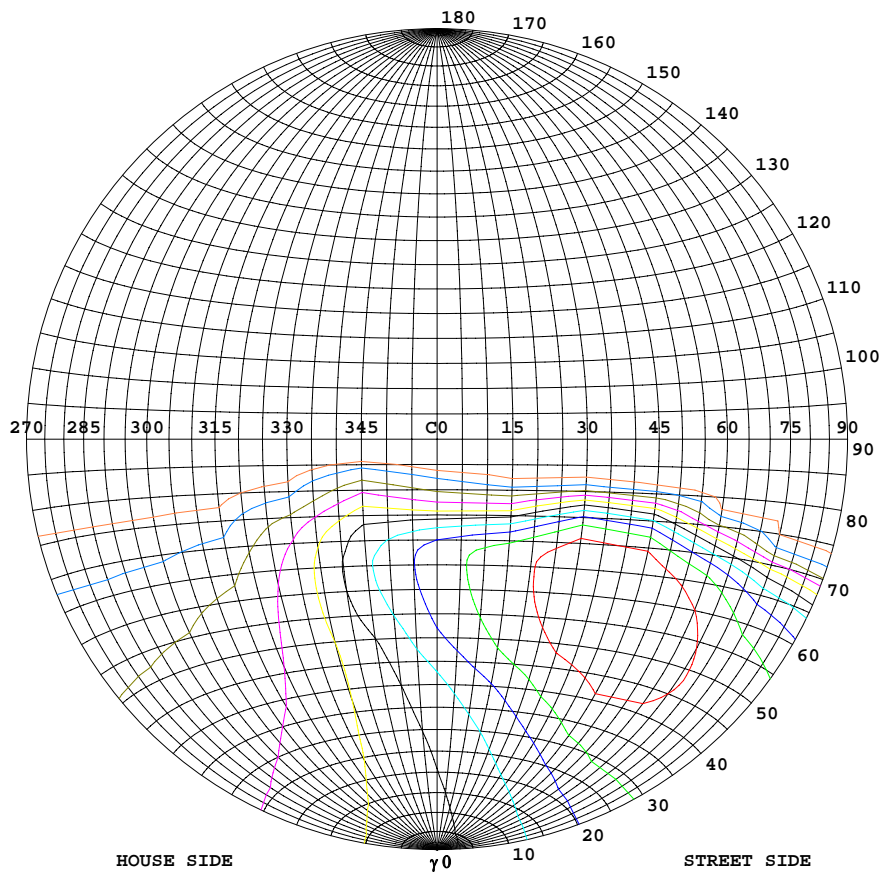
INTENSITY DISTRIBUTION DIAGRAM  
IN C PLANSMAX INTENSITY CONE SURFACE  
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-08-15

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.802m [K=1.0000]  
 Remarks:

## STREETLIGHT ISOCANDELA DIAGRAM

Test:U:42.63V I:0.3499A P:14.92W PF:1.000 Freq:0Hz Lamp Flux:2932.48x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-15WSE-DC-L5-00-5070-T304-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:



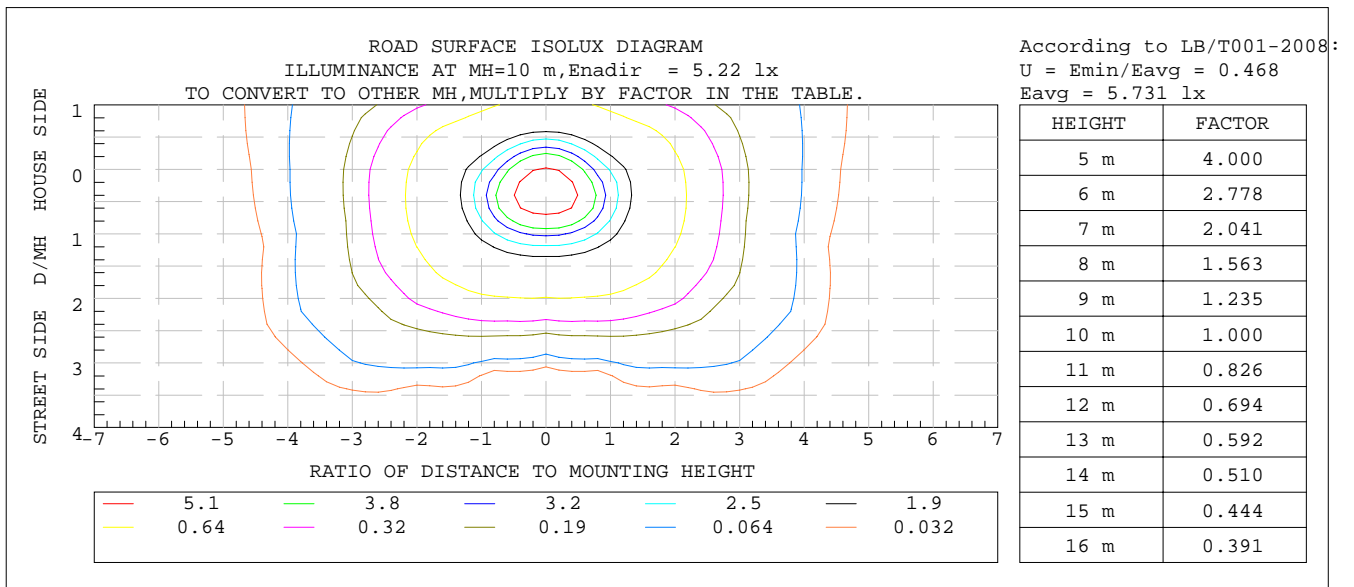
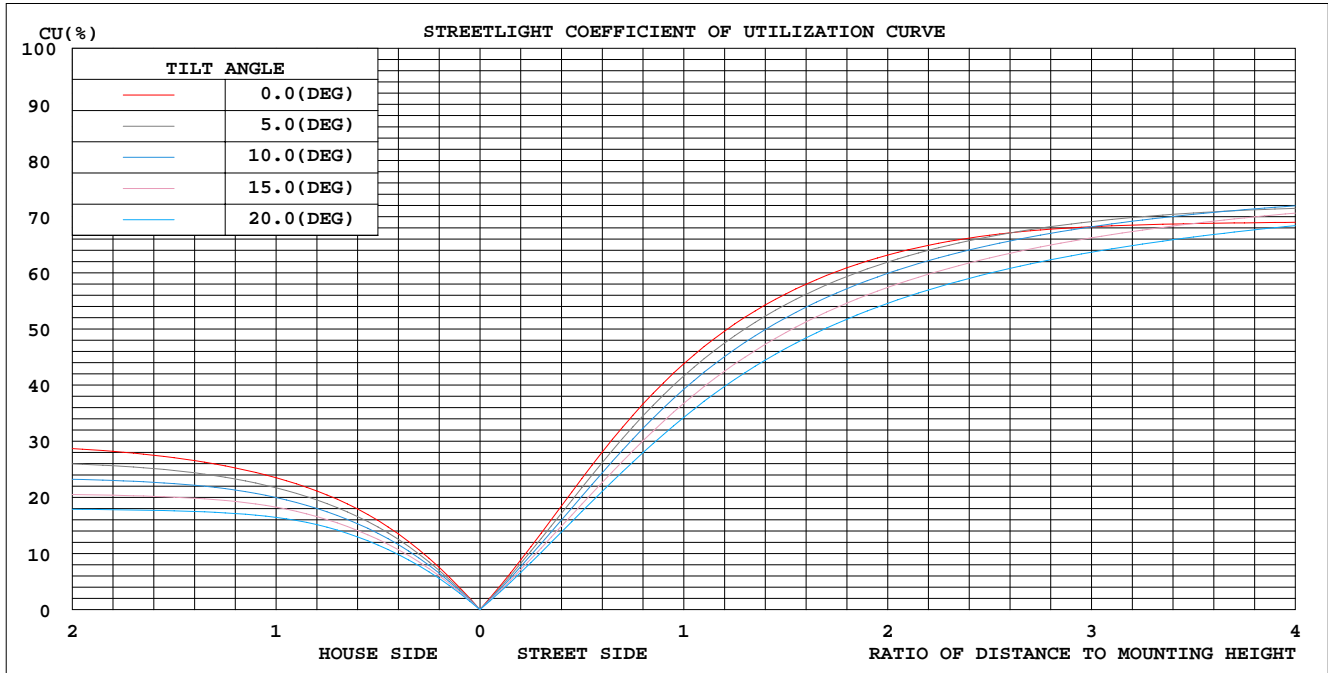
## Classification:

IES:Type IV - Short  
CIE:Broad - Short  
IES:Semi cut-off  
CIE:Non-cut-off  
Max.At80:106.7cd/klm  
Max.At90:0cd/klm  
Max.80-90:106.7cd/klm  
NRB 5101:Semi limited[20.3%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1103
90%	993
80%	882
70%	772
60%	662
50%	551
40%	441
30%	331
20%	221
10%	110
5%	55

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2020-08-15

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.802m [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: 2020-08-15

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.802m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

Test:U:42.63V I:0.3499A P:14.92W PF:1.000 Freq:0Hz Lamp Flux:2932.48x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-15WSE-DC-L5-00-5070-T304-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:

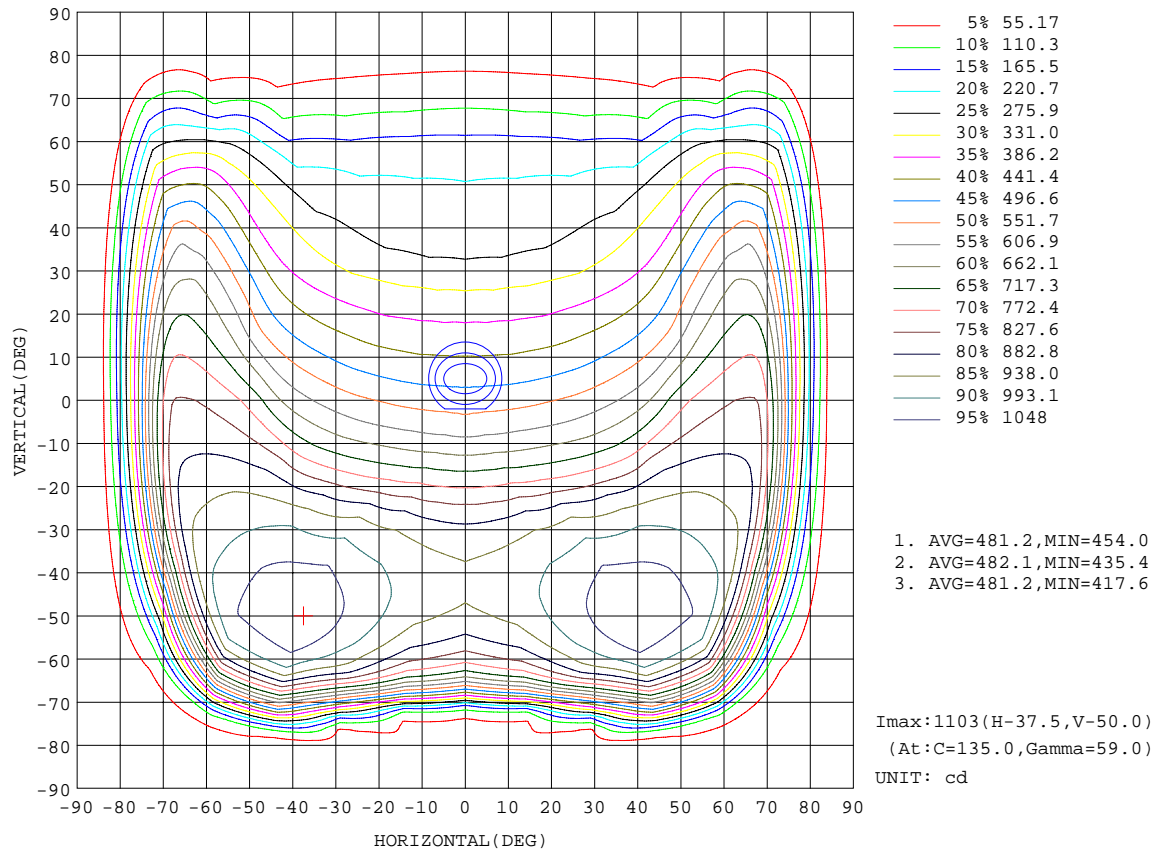
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	530.1	597.4	624.6	597.4	530.1	467.5	441.9	467.5	0- 10	50.38	50.38	1.72,1.72
20	548.0	703.4	767.2	703.4	548.0	418.7	371.0	418.7	10- 20	155.0	205.4	7.7
30	578.8	844.3	894.4	844.3	578.8	372.7	295.2	372.7	20- 30	268.2	473.5	16.1,16.1
40	634.8	979.7	942.1	979.7	634.8	325.7	237.9	325.7	30- 40	386.4	859.9	29.3,29.3
50	751.2	1061	920.4	1061	751.2	289.4	221.9	289.4	40- 50	502.4	1362	46.5,46.5
60	816.9	1102	788.7	1102	816.9	243.7	178.7	243.7	50- 60	597.8	1960	66.8,66.8
70	770.4	973.3	234.1	973.3	770.4	136.8	93.49	136.8	60- 70	602.4	2563	87.4,87.4
80	202.5	137.8	43.16	137.8	202.5	39.42	41.44	39.42	70- 80	329.3	2892	98.6,98.6
90	0	0	0	0	0	0	0	0	80- 90	40.63	2932	100,100
100	0	0	0	0	0	0	0	0	90-100	0	2932	100,100
110	0	0	0	0	0	0	0	0	100-110	0	2932	100,100
120	0	0	0	0	0	0	0	0	110-120	0	2932	100,100
130	0	0	0	0	0	0	0	0	120-130	0	2932	100,100
140	0	0	0	0	0	0	0	0	130-140	0	2932	100,100
150	0	0	0	0	0	0	0	0	140-150	0	2932	100,100
160	0	0	0	0	0	0	0	0	150-160	0	2932	100,100
170	0	0	0	0	0	0	0	0	160-170	0	2932	100,100
180	0	0	0	0	0	0	0	0	170-180	0	2932	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:2020-08-15

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.802m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

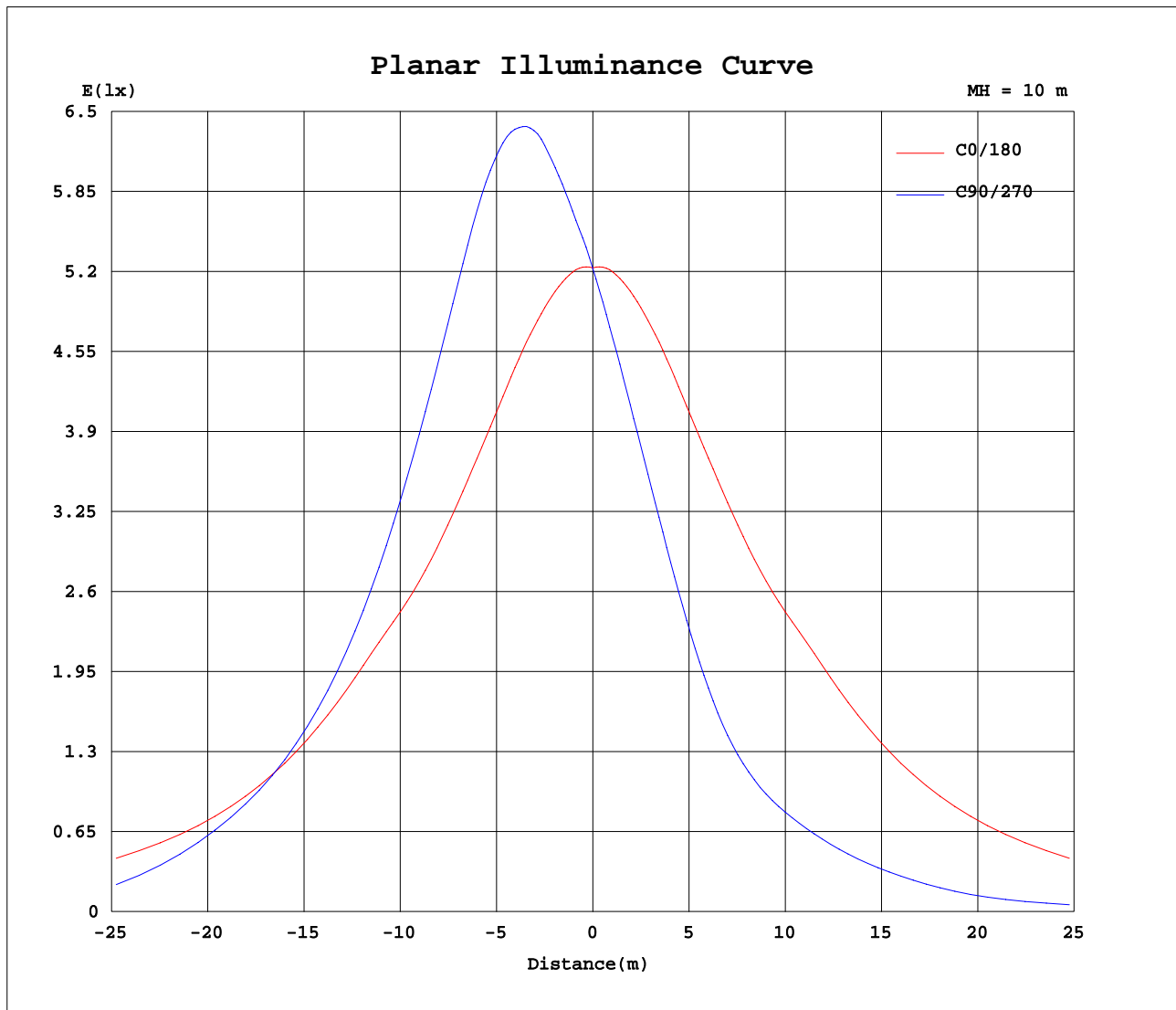
Test:U:42.63V I:0.3499A P:14.92W PF:1.000 Freq:0Hz Lamp Flux:2932.48x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-15WSE-DC-L5-00-5070-T304-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2020-08-15

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.802m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



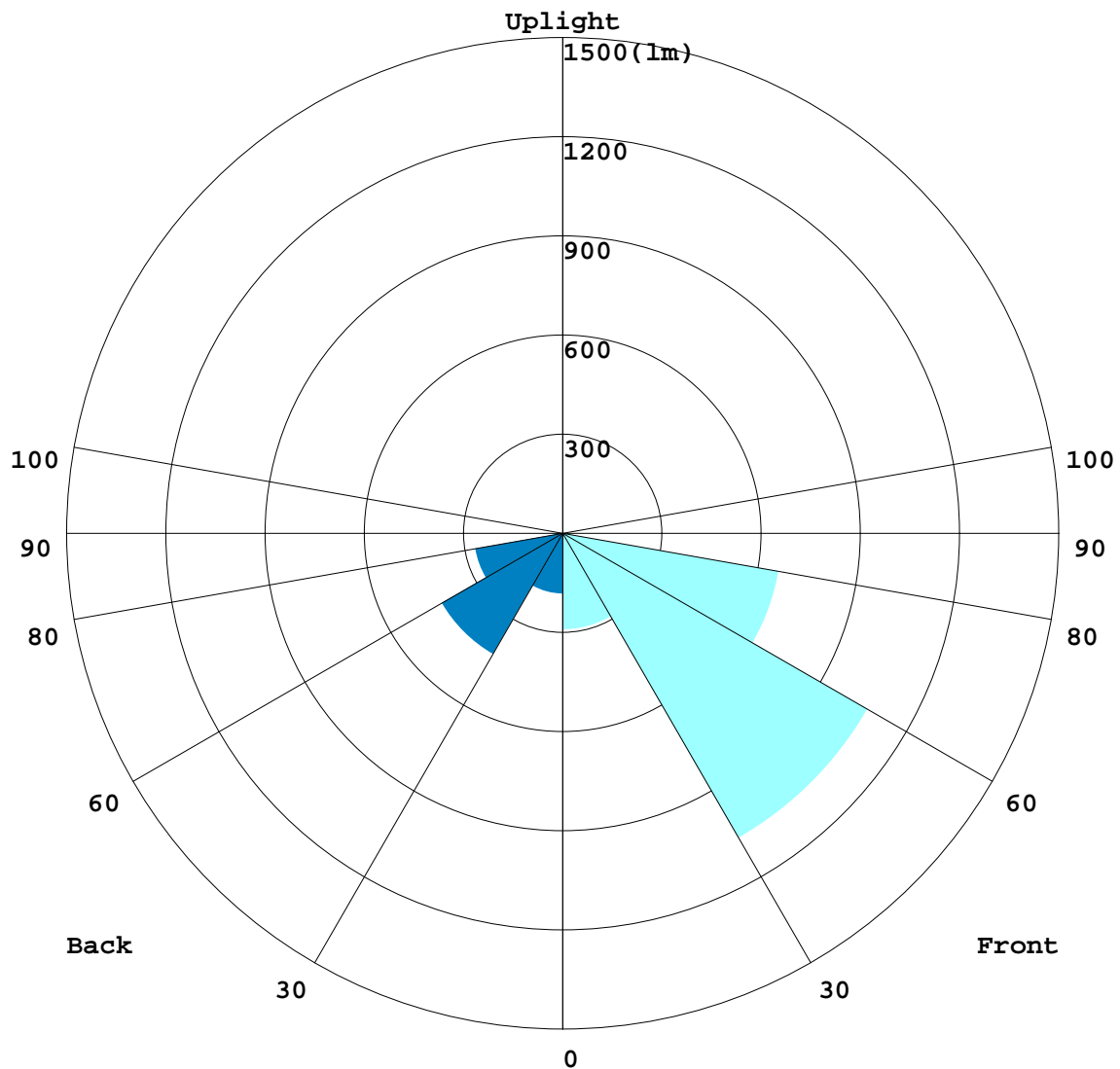
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2020-08-15

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.802m [K=1.0000]  
Remarks:

## LCS REPORT

Test:U:42.63V I:0.3499A P:14.92W PF:1.000 Freq:0Hz Lamp Flux:2932.48x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-15WSE-DC-L5-00-5070-T304-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:

## LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2020-08-15

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.802m [K=1.0000]  
Remarks:

### BUG REPORT

Test:U:42.63V I:0.3499A P:14.92W PF:1.000 Freq:0Hz Lamp Flux:2932.48x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-15WSE-DC-L5-00-5070-T304-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:

#### IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	290.98	9.9
FM - Front-Medium(30-60)	1064.6	36.3
FH - Front-High(60-80)	663.26	22.6
FVH - Front-Very High(80-90)	19.46	0.7
Total Forward Light	2038.3	69.5

BL - Back-Low(0-30)	182.54	6.2
BM - Back-Medium(30-60)	422.08	14.4
BH - Back-High(60-80)	268.42	9.2
BVH - Back-Very High(80-90)	21.169	0.7
Total Back Light	894.22	30.5

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	B1-U0-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	894.22	0	894.22
Street Side	2038.3	0	2038.3

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2020-08-15

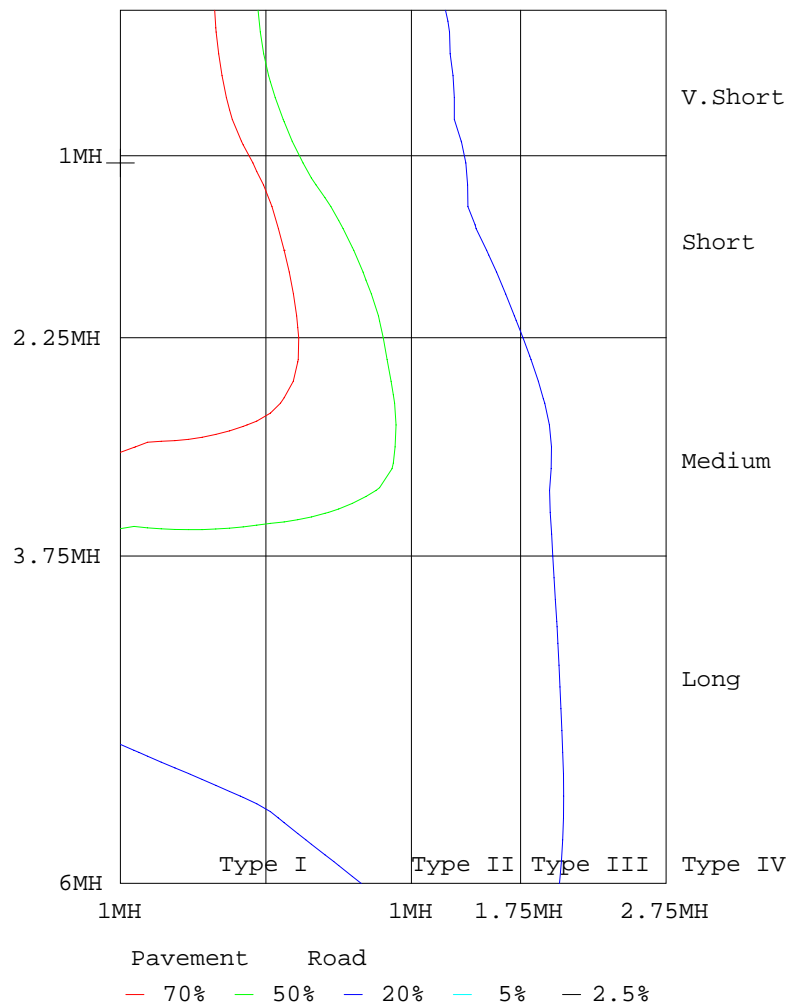
γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.802m [K=1.0000]  
Remarks:



### ROAD ISOCANDELA REPORT

Test:U:42.63V I:0.3499A P:14.92W PF:1.000 Freq:0Hz Lamp Flux:2932.48x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-15WSE-DC-L5-00-5070-T304-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:

### ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2020-08-15

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.802m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:42.63V I:0.3499A P:14.92W PF:1.000 Freq:0Hz Lamp Flux:2932.48x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-15WSE-DC-L5-00-5070-T304-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:

Table--1

UNIT: cd

C(DEC)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
γ (DEC)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	521	521	521	521	521	521	521	521	521	521	521	521	521	521	521	521	521	521	521
5	526	538	548	557	563	567	567	567	563	557	548	538	526	515	504	495	487	482	480
10	530	554	577	597	614	623	625	623	614	597	577	554	530	506	485	468	454	446	442
15	537	574	612	646	675	692	695	692	675	646	612	574	537	501	469	442	423	411	407
20	548	599	652	703	744	764	767	764	744	703	652	599	548	498	454	419	393	377	371
25	561	627	700	768	818	836	838	836	818	768	700	627	561	497	441	396	362	341	333
30	579	662	754	844	894	898	894	898	894	844	754	662	579	499	429	373	331	305	295
35	603	706	821	926	946	937	927	937	946	926	821	706	603	504	416	348	300	270	260
40	635	762	896	980	980	958	942	958	980	980	896	762	635	511	405	326	273	247	238
45	686	843	957	1023	1004	966	942	966	1004	1023	957	843	686	524	395	306	255	236	228
50	751	896	1006	1061	1019	955	920	955	1019	1061	1006	896	751	551	389	289	243	228	222
55	792	930	1035	1093	1019	920	872	920	1019	1093	1035	930	792	600	387	271	225	212	207
60	817	947	1047	1102	992	854	789	854	992	1102	1047	947	817	635	387	244	198	183	179
65	829	951	1049	1069	921	717	618	717	921	1069	1049	951	829	648	377	202	152	135	131
70	770	861	1012	973	675	382	234	382	675	973	1012	861	770	615	341	137	99.6	92.0	93.5
75	487	526	784	668	237	54.4	51.4	54.4	237	668	784	526	487	504	238	77.2	64.0	61.5	62.8
80	203	136	239	138	43.1	49.3	43.2	49.3	43.1	138	239	136	203	313	87.5	39.4	39.3	41.6	41.4
85	24.6	18.7	28.7	38.8	32.4	26.7	21.8	26.7	32.4	38.8	28.7	18.7	24.6	82.3	18.4	17.5	22.4	25.6	25.0
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:2020-08-15

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.802m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:42.63V I:0.3499A P:14.92W PF:1.000 Freq:0Hz Lamp Flux:2932.48x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-15WSE-DC-L5-00-5070-T304-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:

Table--2

UNIT: cd

C(DEC)	285	300	315	330	345														
γ (DEC)																			
0	521	521	521	521	521														
5	482	487	495	504	515														
10	446	454	468	485	506														
15	411	423	442	469	501														
20	377	393	419	454	498														
25	341	362	396	441	497														
30	305	331	373	429	499														
35	270	300	348	416	504														
40	247	273	326	405	511														
45	236	255	306	395	524														
50	228	243	289	389	551														
55	212	225	271	387	600														
60	183	198	244	387	635														
65	135	152	202	377	648														
70	92.0	99.6	137	341	615														
75	61.5	64.0	77.2	238	504														
80	41.6	39.3	39.4	87.5	313														
85	25.6	22.4	17.5	18.4	82.3														
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:2020-08-15

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.802m [K=1.0000]  
Remarks: