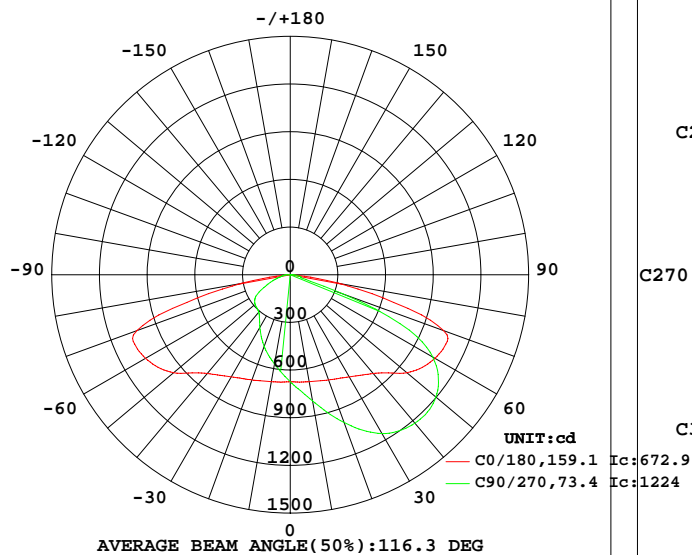
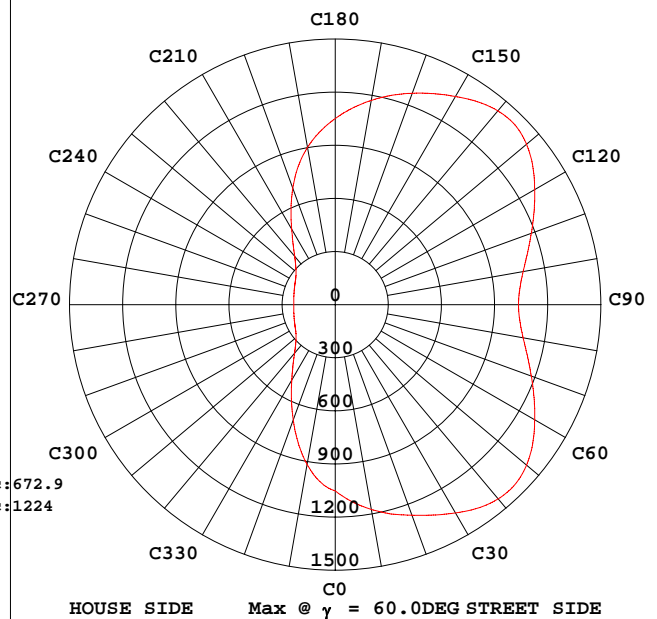


## STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:43.12V I:0.4600A P:19.84W PF:1.000 Freq:0Hz Lamp Flux:3836.22x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-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: 193.39 lm/W			
MODEL	5050	I <sub>max</sub> (cd)	1436	η street_up(%)	0.0
NOMINAL POWER(W)	20	LOR(%)	100.0	η street_down(%)	69.7
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	3836	η house_up(%)	0.0
NOMINAL FLUX(lm)	3836.22	MAXIMUM @(C,γ )	135,60.0	η house_down(%)	30.3
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220	η down(%)	100.0	SLI	19.818

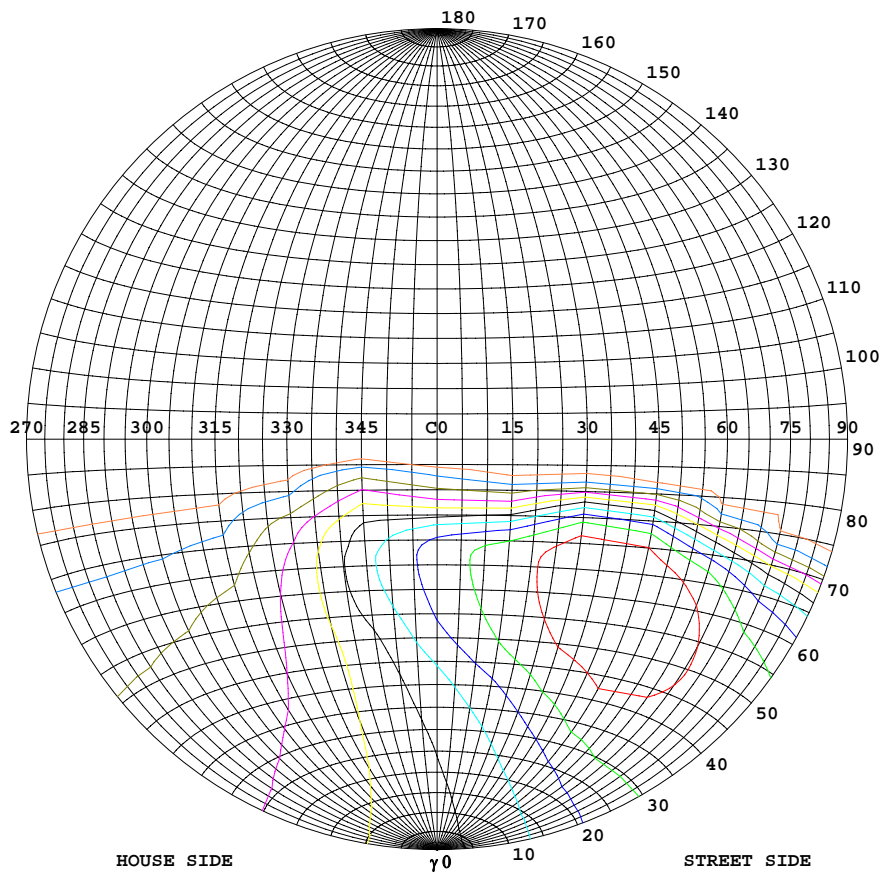
INTENSITY DISTRIBUTION DIAGRAM  
IN C PLANSMAX INTENSITY CONE SURFACE  
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-08-14

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:43.12V I:0.4600A P:19.84W PF:1.000 Freq:0Hz Lamp Flux:3836.22x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T304-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:



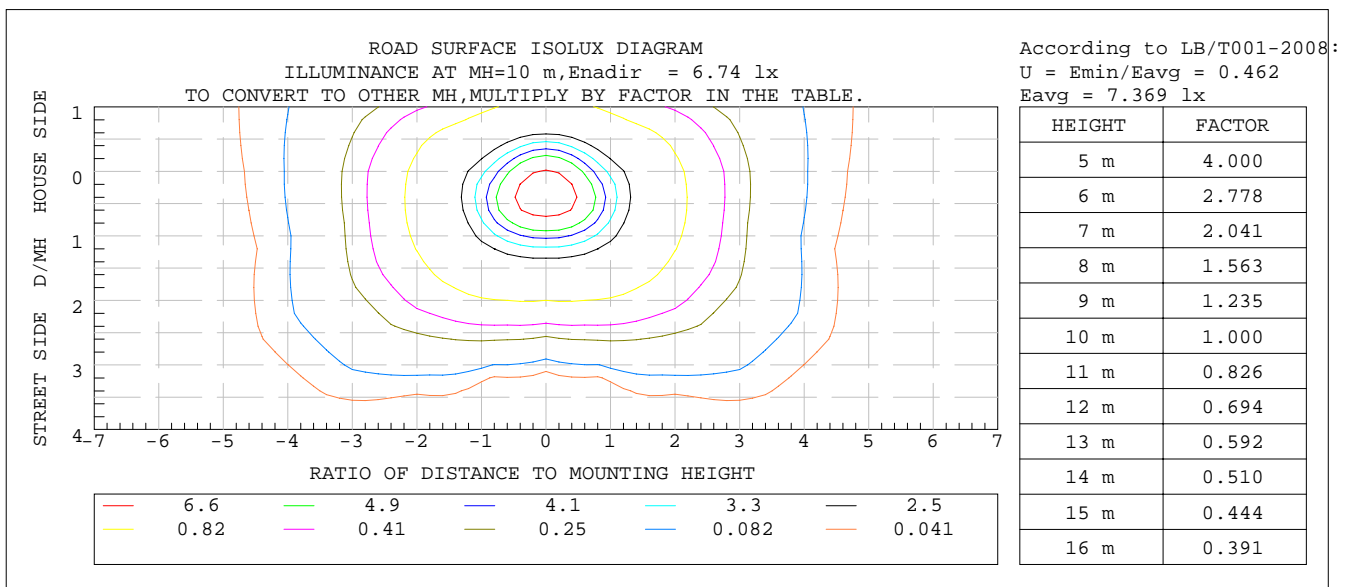
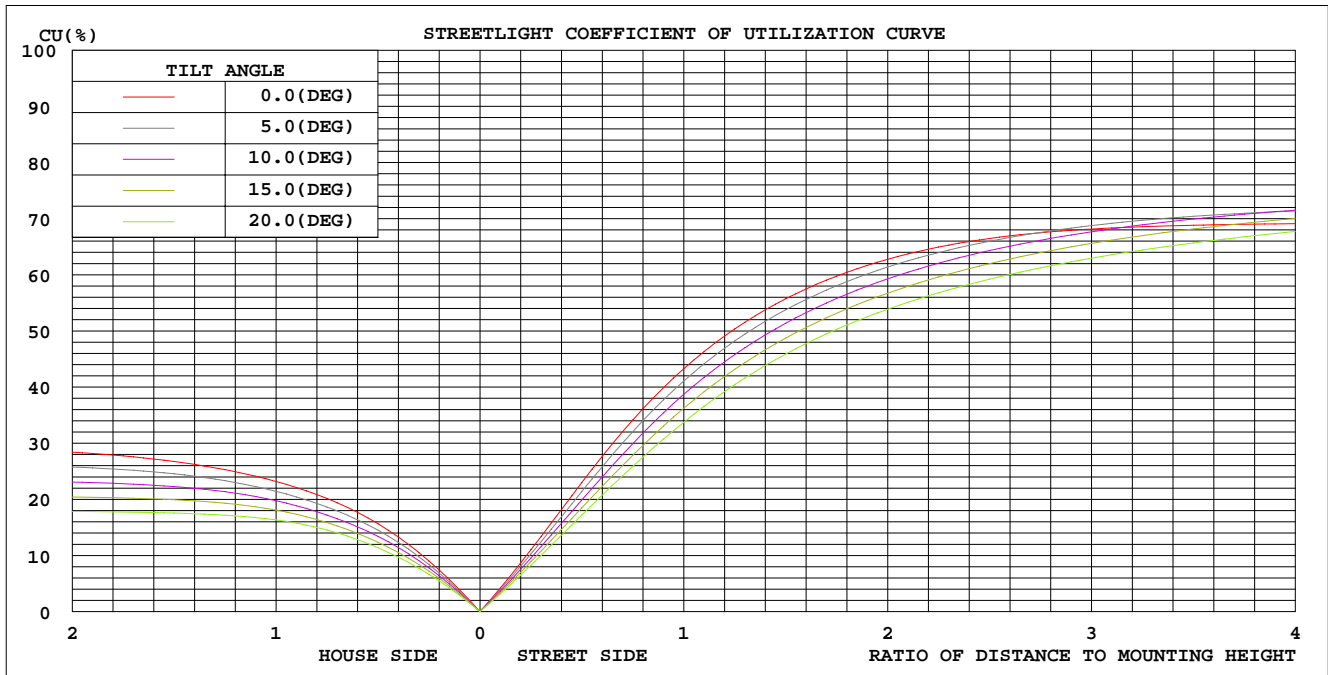
## Classification:

IES:Type IV - Short  
CIE:Broad - Intermediate  
IES:Semi cut-off  
CIE:Non-cut-off  
Max.At80:114.1cd/klm  
Max.At90:0cd/klm  
Max.80-90:114.1cd/klm  
NRB 5101:Semi limited[22.2%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1436
90%	1292
80%	1149
70%	1005
60%	862
50%	718
40%	574
30%	431
20%	287
10%	144
5%	72

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2020-08-14

$\gamma$  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: 2020-08-14

$\gamma$  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:43.12V I:0.4600A P:19.84W PF:1.000 Freq:0Hz Lamp Flux:3836.22x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T304-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:

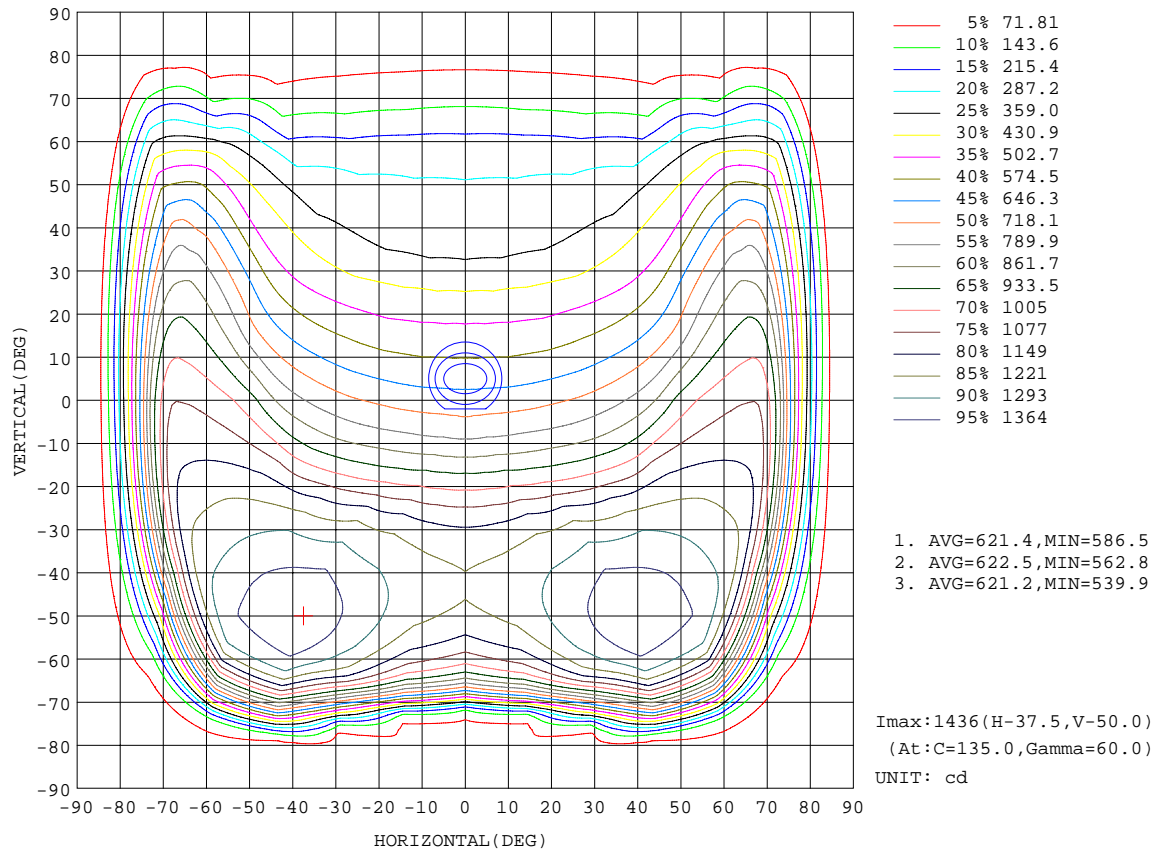
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	683.0	769.2	805.4	769.2	683.0	603.3	571.0	603.3	0- 10	64.97	64.97	1.69,1.69
20	704.6	904.1	988.8	904.1	704.6	539.8	480.3	539.8	10- 20	199.6	264.6	6.9,6.9
30	742.0	1082	1154	1082	742.0	480.4	383.2	480.4	20- 30	345.1	609.7	15.9,15.9
40	811.4	1263	1219	1263	811.4	419.5	308.7	419.5	30- 40	497.2	1107	28.9,28.9
50	959.3	1373	1196	1373	959.3	372.7	289.7	372.7	40- 50	647.1	1754	45.7,45.7
60	1051	1436	1035	1436	1051	316.8	234.7	316.8	50- 60	773.6	2528	65.9,65.9
70	1026	1294	346.1	1294	1026	183.9	125.0	183.9	60- 70	789.7	3317	86.5,86.5
80	306.8	272.6	58.14	272.6	306.8	55.92	55.38	55.92	70- 80	457.0	3774	98.4,98.4
90	0	0	0	0	0	0	0	0	80- 90	61.97	3836	100,100
100	0	0	0	0	0	0	0	0	90-100	0	3836	100,100
110	0	0	0	0	0	0	0	0	100-110	0	3836	100,100
120	0	0	0	0	0	0	0	0	110-120	0	3836	100,100
130	0	0	0	0	0	0	0	0	120-130	0	3836	100,100
140	0	0	0	0	0	0	0	0	130-140	0	3836	100,100
150	0	0	0	0	0	0	0	0	140-150	0	3836	100,100
160	0	0	0	0	0	0	0	0	150-160	0	3836	100,100
170	0	0	0	0	0	0	0	0	160-170	0	3836	100,100
180	0	0	0	0	0	0	0	0	170-180	0	3836	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:2020-08-14

$\gamma$  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

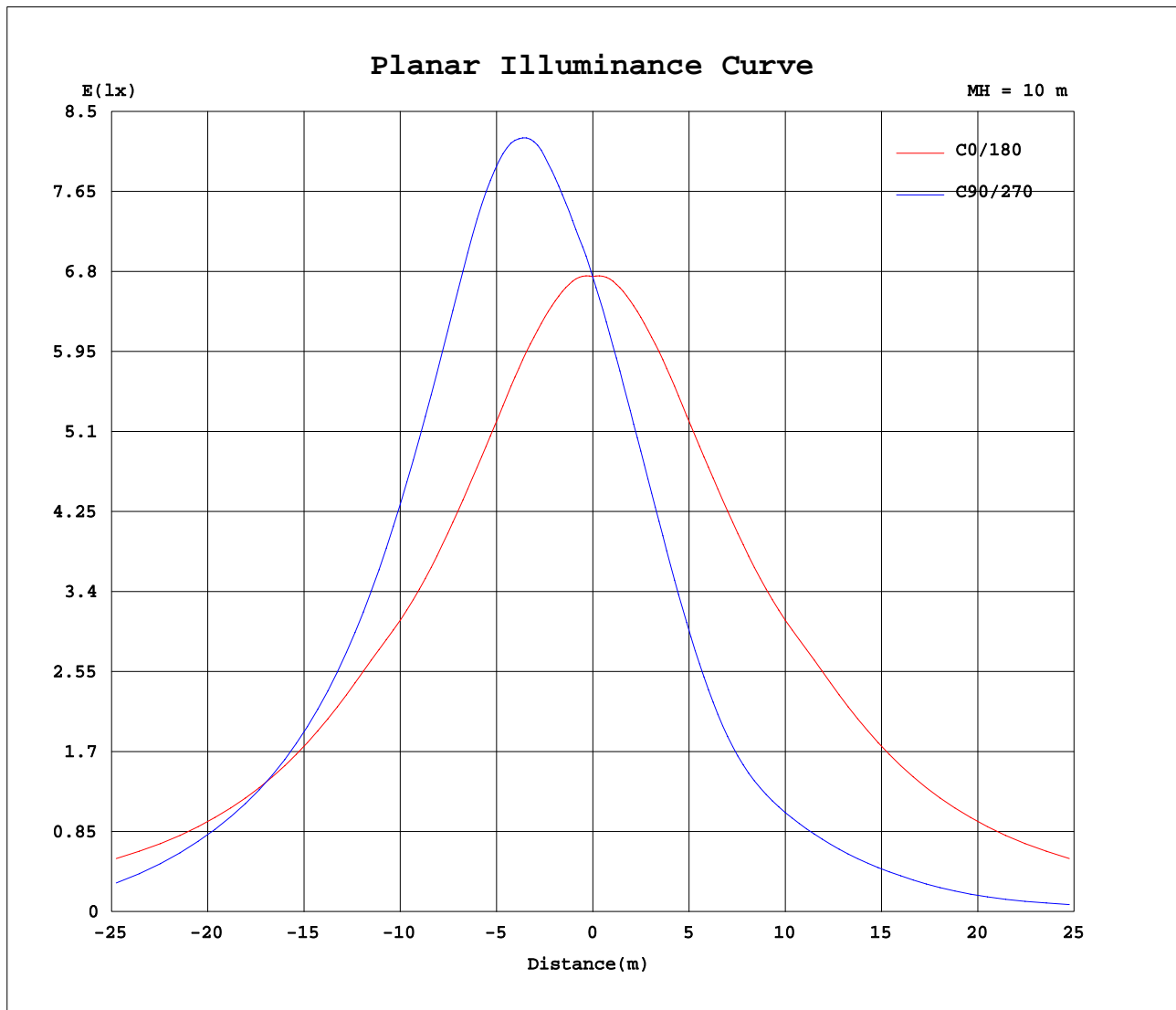
Test:U:43.12V I:0.4600A P:19.84W PF:1.000 Freq:0Hz Lamp Flux:3836.22x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T304-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2020-08-14

$\gamma$  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:

## Planar Illuminance Curve



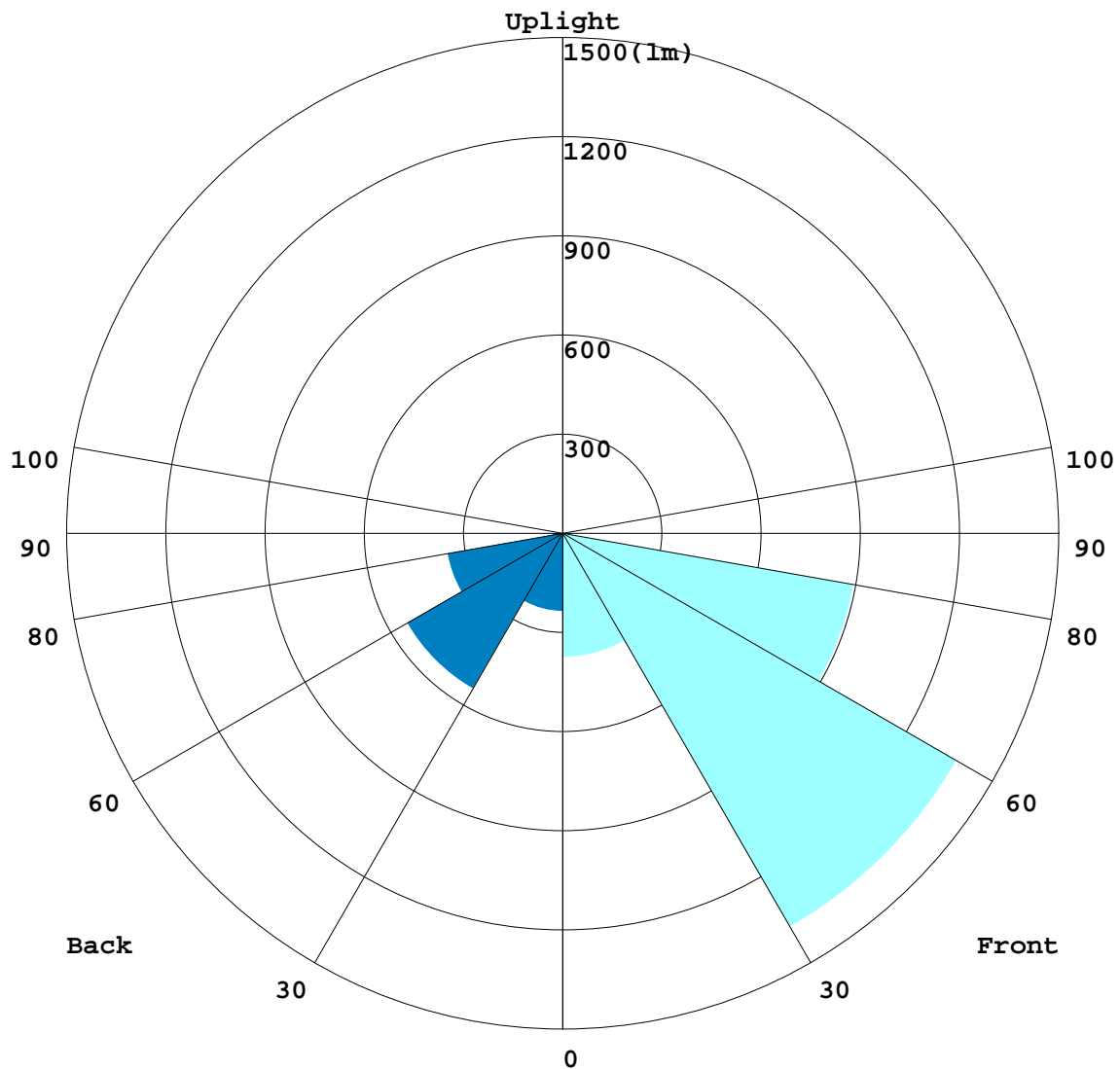
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2020-08-14

$\gamma$  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:43.12V I:0.4600A P:19.84W PF:1.000 Freq:0Hz Lamp Flux:3836.22x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-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:2020-08-14

$\gamma$  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:43.12V I:0.4600A P:19.84W PF:1.000 Freq:0Hz Lamp Flux:3836.22x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-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)	374.21	9.8
FM - Front-Medium(30-60)	1375.3	35.9
FH - Front-High(60-80)	893.33	23.3
FVH - Front-Very High(80-90)	30.762	0.8
Total Forward Light	2673.6	69.7

BL - Back-Low(0-30)	235.45	6.1
BM - Back-Medium(30-60)	542.6	14.1
BH - Back-High(60-80)	353.36	9.2
BVH - Back-Very High(80-90)	31.205	0.8
Total Back Light	1162.6	30.3

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	1162.6	0	1162.6
Street Side	2673.6	0	2673.6

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2020-08-14

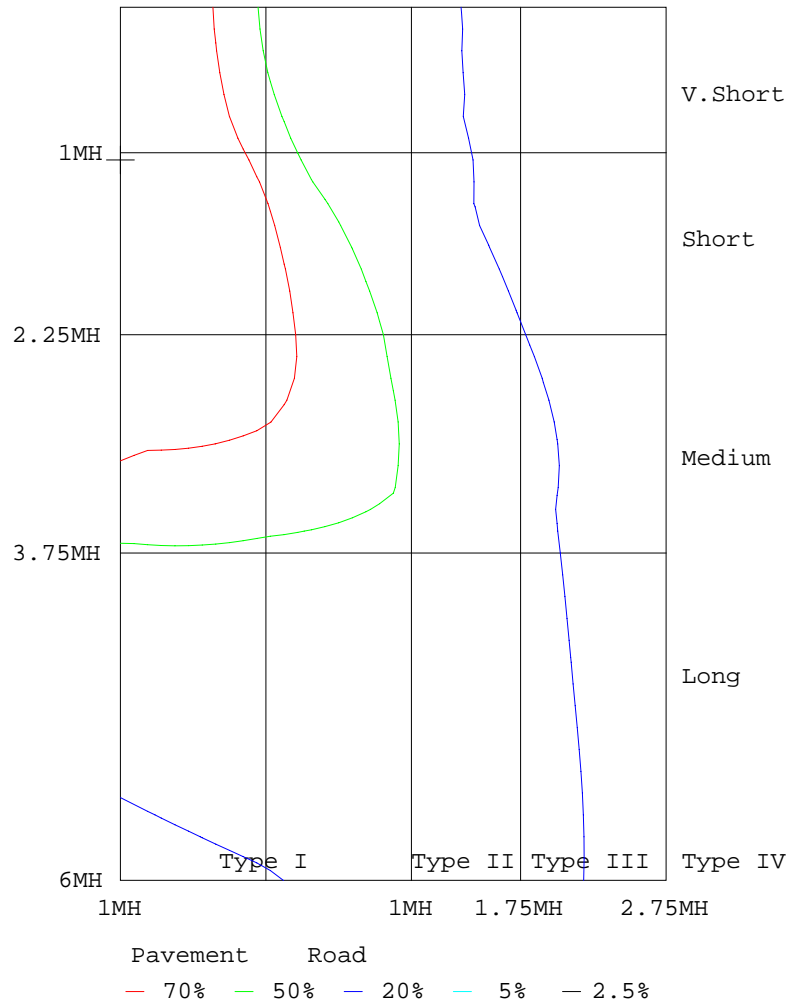
γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.802m [K=1.0000]  
Remarks:



### ROAD ISOCANDELA REPORT

Test:U:43.12V I:0.4600A P:19.84W PF:1.000 Freq:0Hz Lamp Flux:3836.22x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-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:2020-08-14

$\gamma$  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:43.12V I:0.4600A P:19.84W PF:1.000 Freq:0Hz Lamp Flux:3836.22x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-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	673	673	673	673	673	673	673	673	673	673	673	673	673	673	673	673	673	673
5	678	693	707	719	726	731	731	731	726	719	707	693	678	664	650	638	629	622	620
10	683	714	743	769	791	803	805	803	791	769	743	714	683	653	626	603	587	575	571
15	691	739	787	831	869	891	896	891	869	831	787	739	691	646	604	570	547	532	526
20	705	770	838	904	957	984	989	984	957	904	838	770	705	641	584	540	508	488	480
25	720	805	898	986	1051	1077	1080	1077	1051	986	898	805	720	639	567	510	468	441	432
30	742	849	967	1082	1151	1159	1154	1159	1151	1082	967	849	742	640	552	480	428	395	383
35	772	903	1051	1190	1221	1211	1198	1211	1221	1190	1051	903	772	646	535	449	388	351	338
40	811	974	1148	1263	1266	1241	1219	1241	1266	1263	1148	974	811	654	520	419	353	320	309
45	873	1077	1230	1321	1300	1253	1221	1253	1300	1321	1230	1077	873	668	506	394	329	305	297
50	959	1152	1297	1373	1323	1243	1196	1243	1323	1373	1297	1152	959	699	497	373	314	296	290
55	1015	1198	1338	1417	1329	1203	1138	1203	1329	1417	1338	1198	1015	759	494	350	294	276	272
60	1051	1224	1357	1436	1300	1124	1035	1124	1300	1436	1357	1224	1051	809	492	317	261	242	235
65	1071	1232	1362	1402	1220	962	827	962	1220	1402	1362	1232	1071	831	479	264	203	181	174
70	1026	1143	1330	1294	934	557	346	557	934	1294	1330	1143	1026	795	435	184	135	124	125
75	674	739	1070	940	388	75.7	67.4	75.7	388	940	1070	739	674	669	319	106	87.0	83.2	84.2
80	307	236	409	273	57.8	66.6	58.1	66.6	57.8	273	409	236	307	438	121	55.9	52.8	55.4	55.4
85	49.3	32.4	42.7	52.1	45.6	37.2	30.5	37.2	45.6	52.1	42.7	32.4	49.3	113	27.6	25.4	31.2	35.3	34.4
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:2020-08-14

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:43.12V I:0.4600A P:19.84W PF:1.000 Freq:0Hz Lamp Flux:3836.22x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-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) γ (DEC)	285	300	315	330	345														
0	673	673	673	673	673														
5	622	629	638	650	664														
10	575	587	603	626	653														
15	532	547	570	604	646														
20	488	508	540	584	641														
25	441	468	510	567	639														
30	395	428	480	552	640														
35	351	388	449	535	646														
40	320	353	419	520	654														
45	305	329	394	506	668														
50	296	314	373	497	699														
55	276	294	350	494	759														
60	242	261	317	492	809														
65	181	203	264	479	831														
70	124	135	184	435	795														
75	83.2	87.0	106	319	669														
80	55.4	52.8	55.9	121	438														
85	35.3	31.2	25.4	27.6	113														
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:2020-08-14

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: