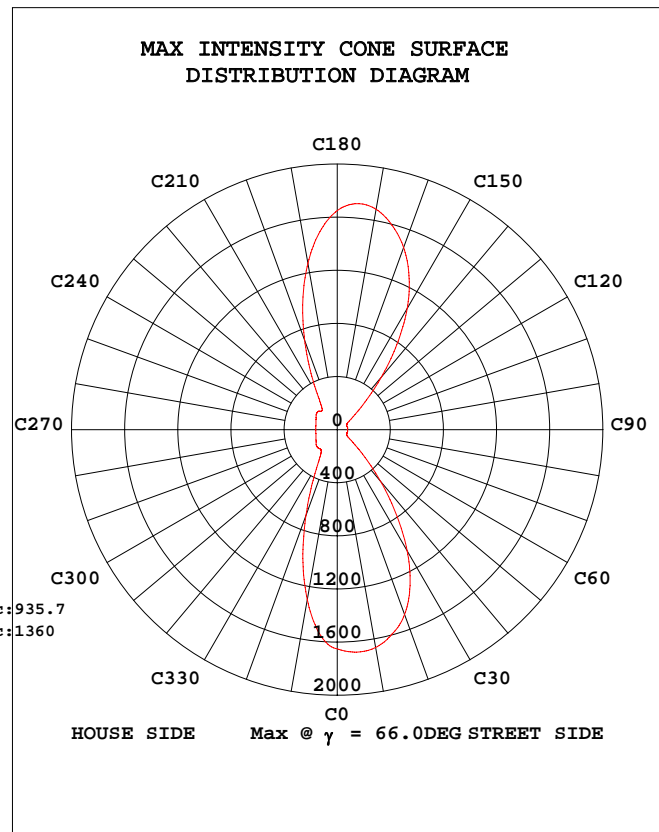
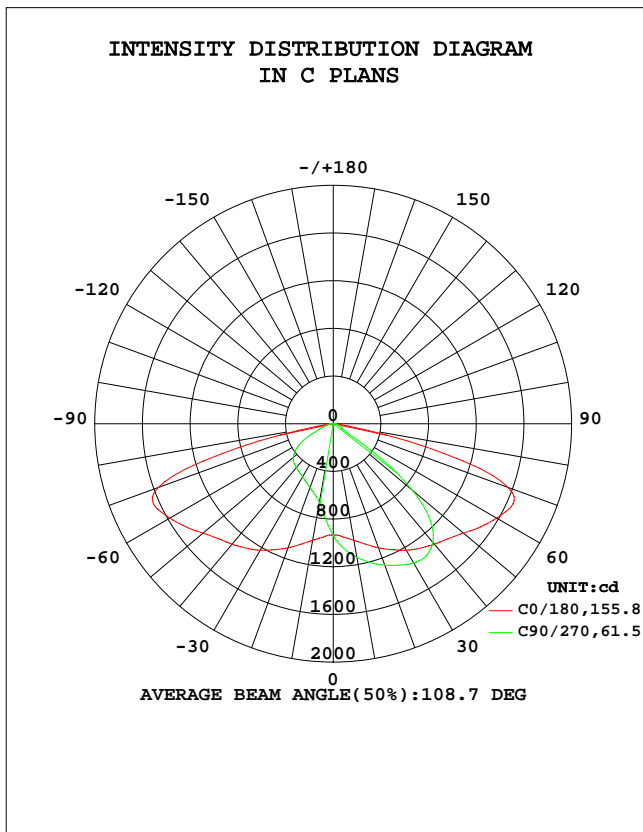


## STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:43.20V I:0.4649A P:20.08W PF:1.000 Freq:0Hz Lamp Flux:3945.04x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T203-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 196.44 lm/W			
MODEL	5050	I <sub>max</sub> (cd)	1650	η street_up(%)	0.0
NOMINAL POWER(W)	20	LOR(%)	100.0	η street_down(%)	64.4
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	3945	η house_up(%)	0.0
NOMINAL FLUX(lm)	3945.04	MAXIMUM @(C,γ )	0,66.0	η house_down(%)	35.6
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220	η down(%)	100.0	SLI	19.157

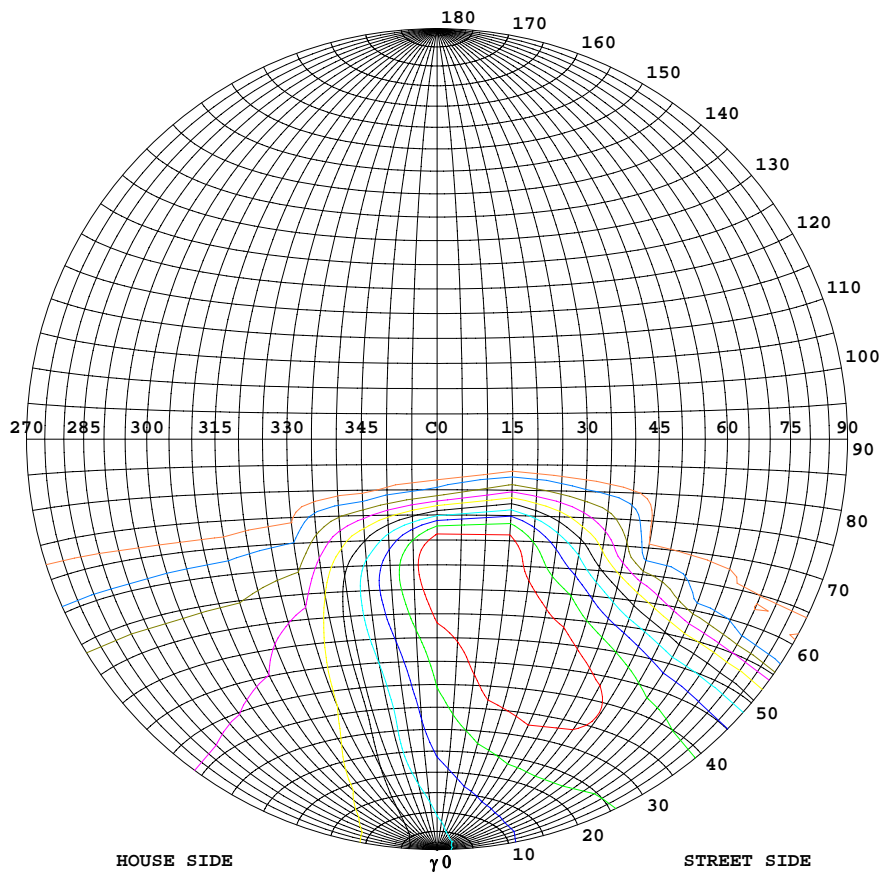


C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2020-10-30

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:43.20V I:0.4649A P:20.08W PF:1.000 Freq:0Hz Lamp Flux:3945.04x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T203-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:



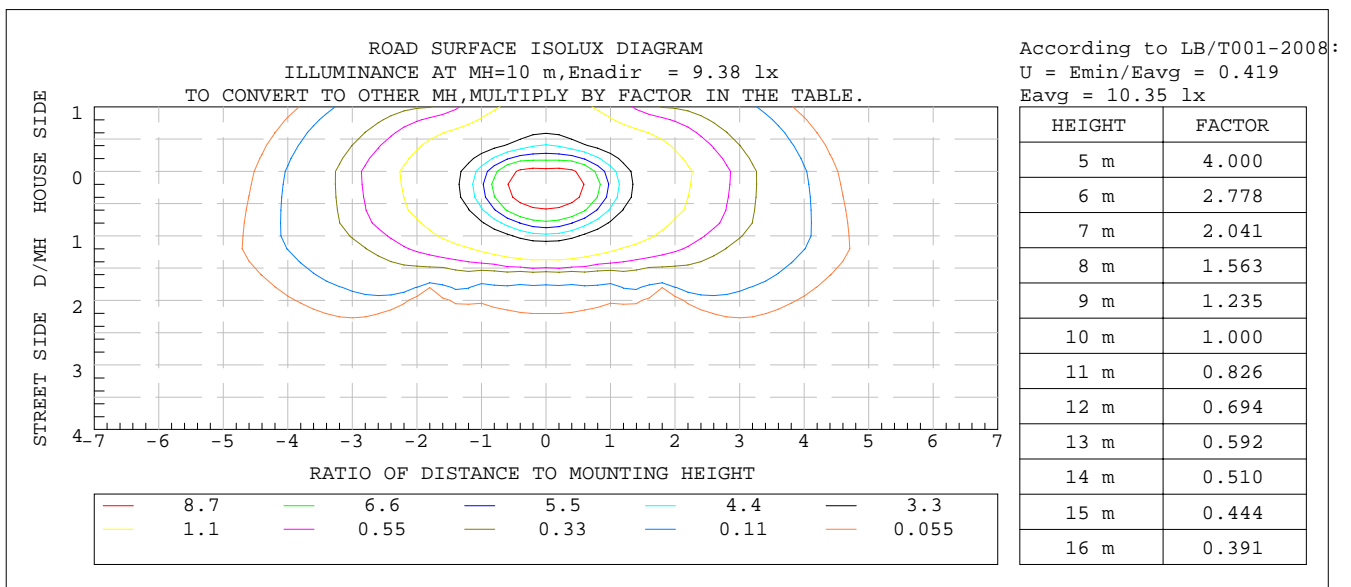
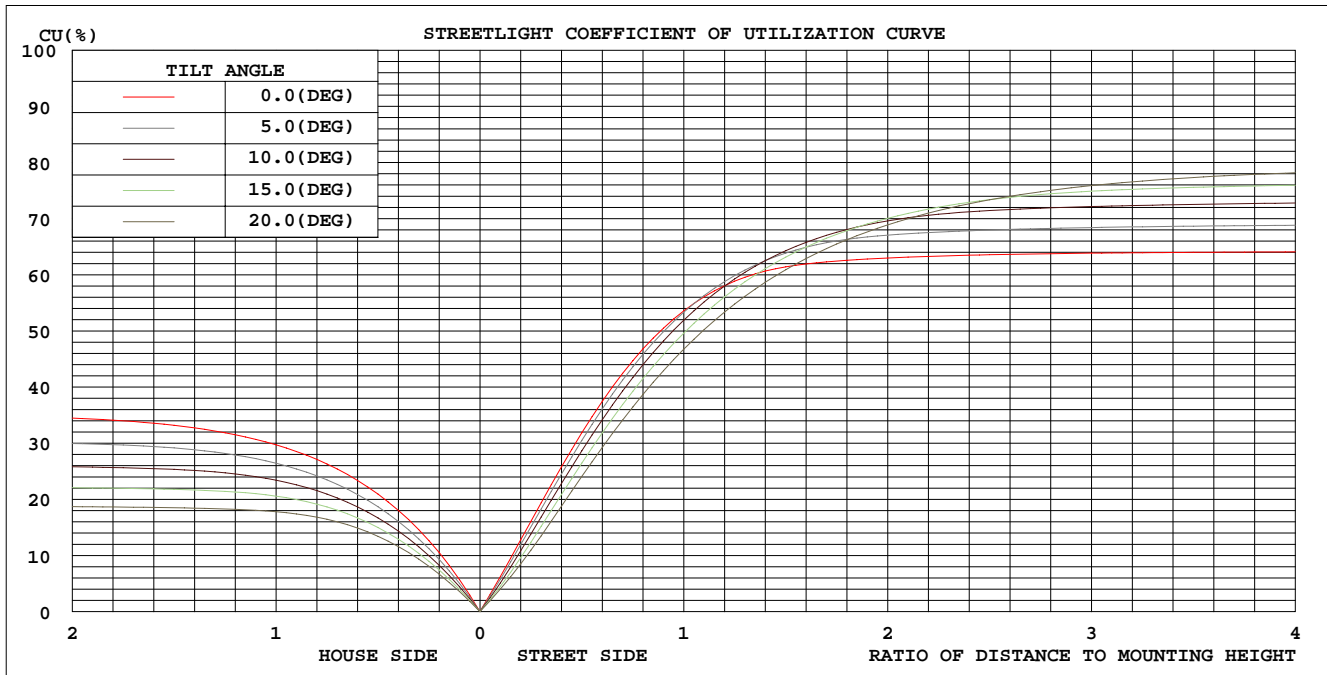
## Classification:

IES:Type II - Short  
CIE:Narrow - Intermediate  
IES:Semi cut-off  
CIE:Non-cut-off  
Max.At80:113.4cd/klm  
Max.At90:0cd/klm  
Max.80-90:113.4cd/klm  
NRB 5101:Semi limited[25.4%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1650
90%	1485
80%	1320
70%	1155
60%	990
50%	825
40%	660
30%	495
20%	330
10%	165
5%	83

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2020-10-30

$\gamma$  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: 2020-10-30

$\gamma$  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:43.20V I:0.4649A P:20.08W PF:1.000 Freq:0Hz Lamp Flux:3945.04x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T203-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:

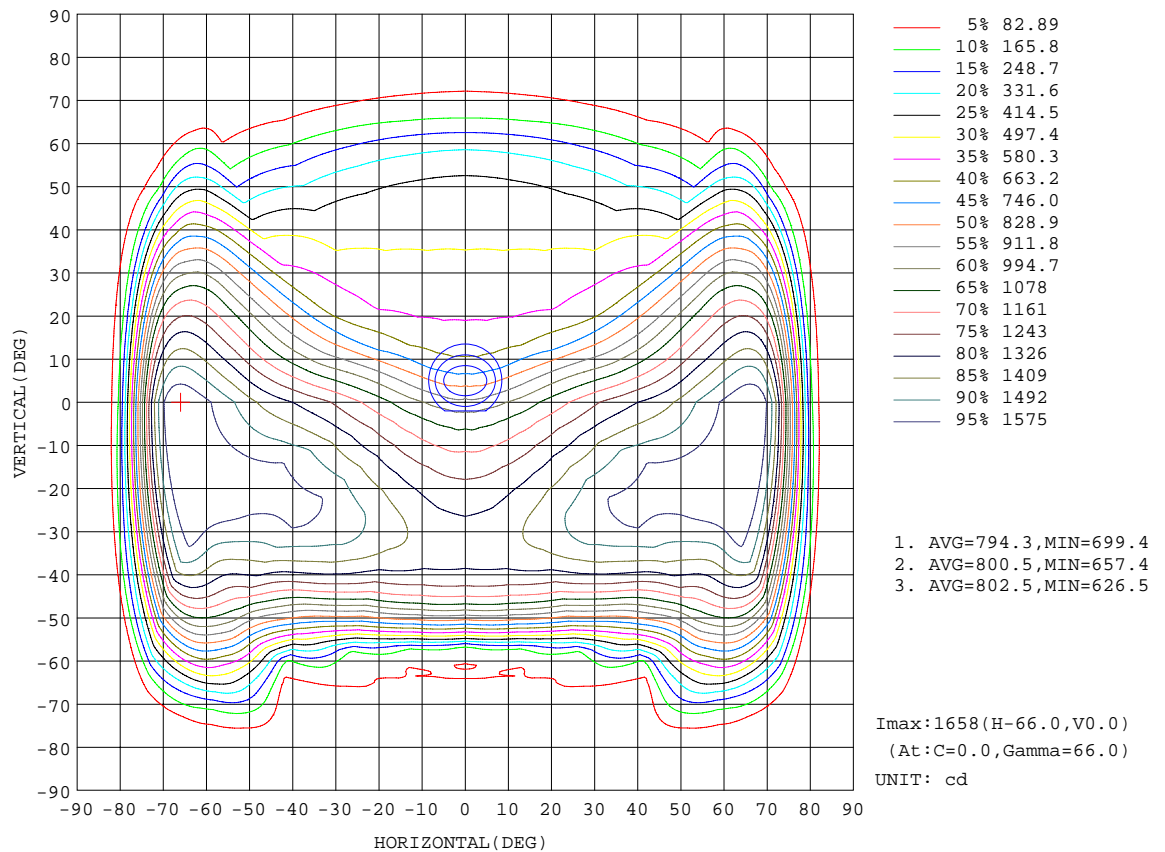
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
10	993.5	1114	1137	1114	993.5	764.6	669.4	764.6	0- 10	89.53	89.53	2.27,2.27
20	1108	1276	1262	1276	1108	650.6	571.5	650.6	10- 20	274.3	363.9	9.22,9.22
30	1225	1439	1349	1439	1225	578.5	514.8	578.5	20- 30	470.6	834.4	21.2,21.2
40	1320	1511	1299	1511	1320	527.9	481.5	527.9	30- 40	661.9	1496	37.9,37.9
50	1427	1313	860.4	1313	1427	462.5	437.6	462.5	40- 50	789.1	2285	57.9,57.9
60	1584	766.1	85.42	766.1	1584	324.3	304.9	324.3	50- 60	744.0	3029	76.8,76.8
70	1560	87.81	63.35	87.81	1560	116.8	102.5	116.8	60- 70	575.1	3605	91.4,91.4
80	190.0	50.39	31.59	50.39	190.0	35.77	44.02	35.77	70- 80	306.7	3911	99.1,99.1
90	0	0	0	0	0	0	0	0	80- 90	33.88	3945	100,100
100	0	0	0	0	0	0	0	0	90-100	0	3945	100,100
110	0	0	0	0	0	0	0	0	100-110	0	3945	100,100
120	0	0	0	0	0	0	0	0	110-120	0	3945	100,100
130	0	0	0	0	0	0	0	0	120-130	0	3945	100,100
140	0	0	0	0	0	0	0	0	130-140	0	3945	100,100
150	0	0	0	0	0	0	0	0	140-150	0	3945	100,100
160	0	0	0	0	0	0	0	0	150-160	0	3945	100,100
170	0	0	0	0	0	0	0	0	160-170	0	3945	100,100
180	0	0	0	0	0	0	0	0	170-180	0	3945	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:2020-10-30

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:

## ISOCANDELA DIAGRAM

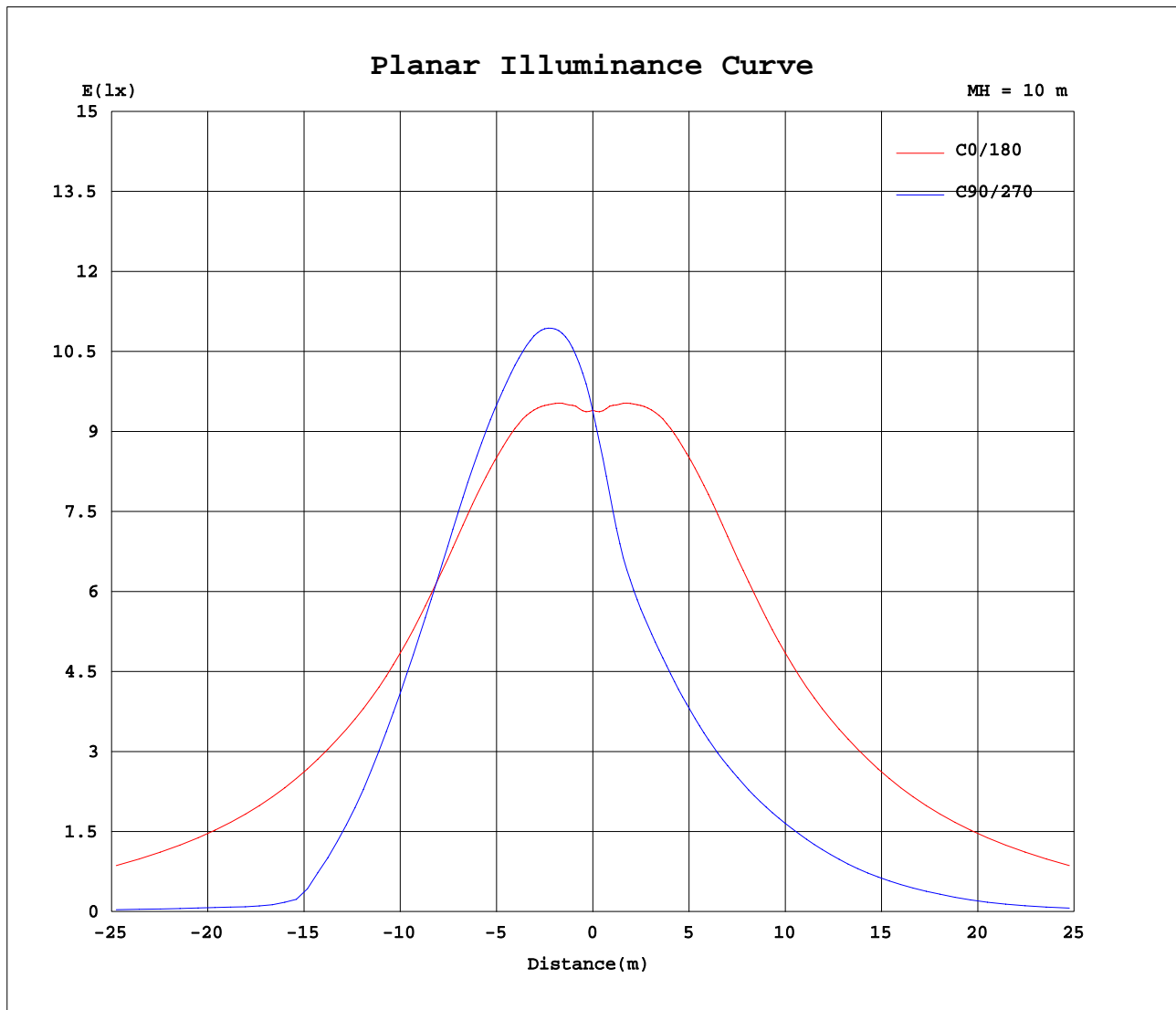
Test:U:43.20V I:0.4649A P:20.08W PF:1.000 Freq:0Hz Lamp Flux:3945.04x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T203-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2020-10-30

$\gamma$  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



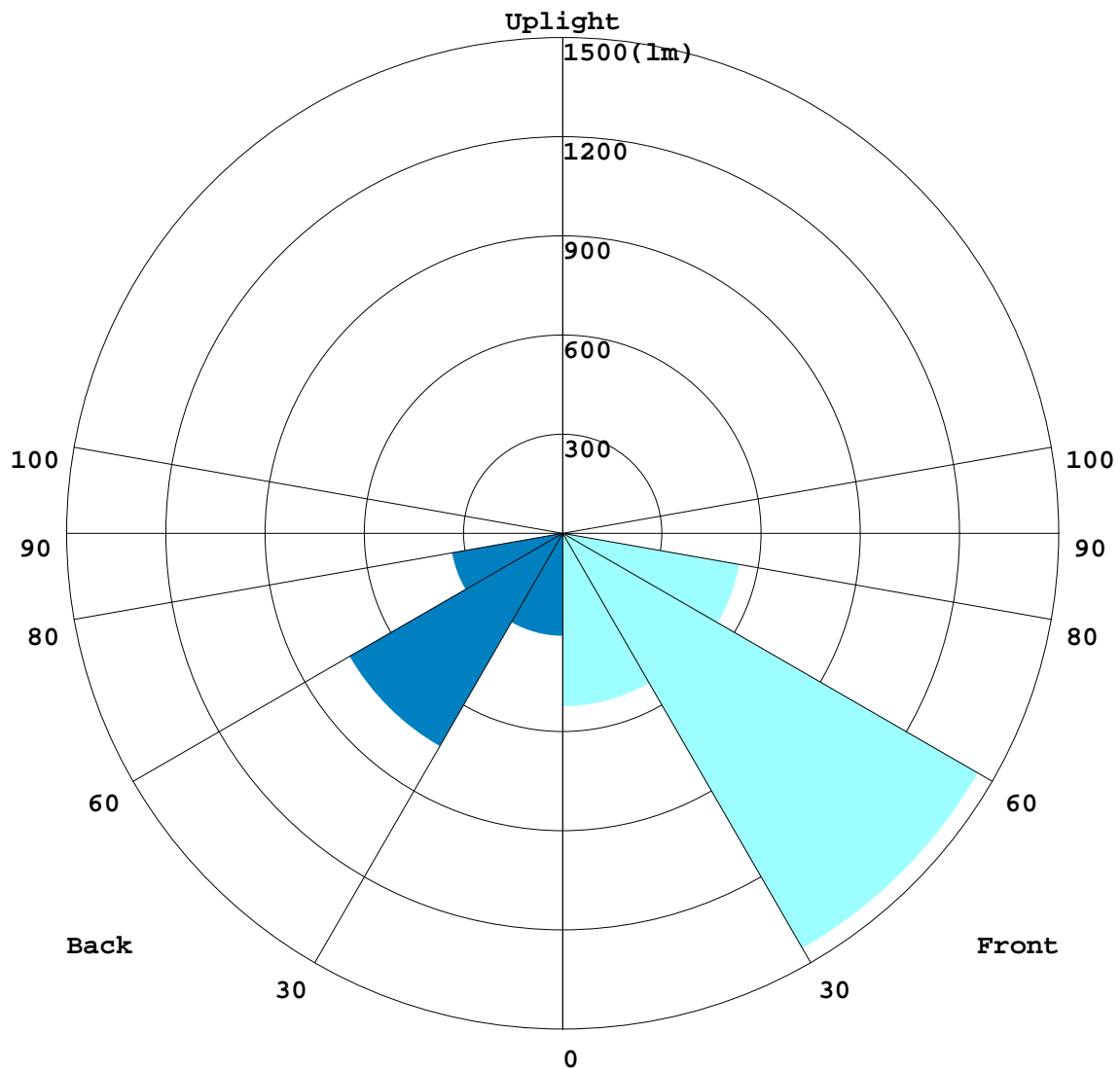
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2020-10-30

$\gamma$  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:43.20V I:0.4649A P:20.08W PF:1.000 Freq:0Hz Lamp Flux:3945.04x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T203-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:2020-10-30

$\gamma$  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:43.20V I:0.4649A P:20.08W PF:1.000 Freq:0Hz Lamp Flux:3945.04x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T203-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)	523.65	13.3
FM - Front-Medium(30-60)	1450.7	36.8
FH - Front-High(60-80)	542.36	13.7
FVH - Front-Very High(80-90)	22.442	0.6
Total Forward Light	2539.1	64.4

BL - Back-Low(0-30)	310.8	7.9
BM - Back-Medium(30-60)	744.29	18.9
BH - Back-High(60-80)	339.36	8.6
BVH - Back-Very High(80-90)	11.442	0.3
Total Back Light	1405.9	35.6

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	1405.9	0	1405.9
Street Side	2539.1	0	2539.1

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2020-10-30

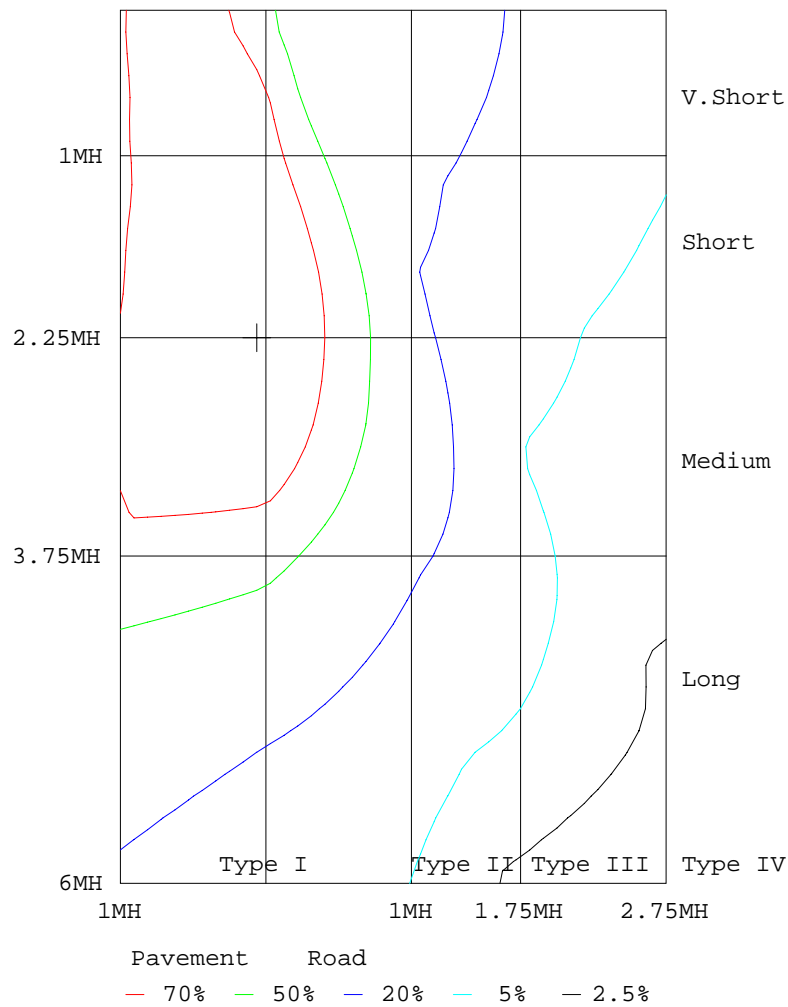
γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.802m [K=1.0000]  
Remarks:



### ROAD ISOCANDELA REPORT

Test:U:43.20V I:0.4649A P:20.08W PF:1.000 Freq:0Hz Lamp Flux:3945.04x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T203-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:2020-10-30

$\gamma$  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:43.20V I:0.4649A P:20.08W PF:1.000 Freq:0Hz Lamp Flux:3945.04x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T203-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	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	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936
5	954	985	1011	1027	1037	1048	1052	1048	1037	1027	1011	985	954	915	873	841	815	795	790
10	994	1049	1088	1114	1126	1131	1137	1131	1126	1114	1088	1049	994	922	841	765	707	679	669
15	1046	1121	1166	1193	1204	1207	1206	1207	1204	1193	1166	1121	1046	941	813	700	644	620	611
20	1108	1200	1251	1276	1278	1271	1262	1271	1278	1276	1251	1200	1108	964	777	651	599	580	572
25	1166	1278	1340	1362	1346	1324	1309	1324	1346	1362	1340	1278	1166	975	731	611	565	547	539
30	1225	1362	1433	1439	1401	1366	1349	1366	1401	1439	1433	1362	1225	969	693	578	538	522	515
35	1274	1447	1516	1497	1422	1371	1355	1371	1422	1497	1516	1447	1274	960	670	556	516	503	497
40	1320	1521	1573	1511	1379	1319	1299	1319	1379	1511	1573	1521	1320	973	651	528	494	486	482
45	1365	1575	1590	1448	1260	1188	1155	1188	1260	1448	1590	1575	1365	999	631	500	469	467	466
50	1427	1612	1540	1313	1059	931	860	931	1059	1313	1540	1612	1427	1034	594	462	438	438	438
55	1509	1635	1439	1082	722	499	385	499	722	1082	1439	1635	1509	1066	535	406	384	383	384
60	1584	1623	1302	766	272	99.3	85.4	99.3	272	766	1302	1623	1584	1080	443	324	305	302	305
65	1647	1594	1096	377	85.0	82.5	79.6	82.5	85.0	377	1096	1594	1647	1030	314	220	206	190	185
70	1560	1532	869	87.8	74.2	66.5	63.3	66.5	74.2	87.8	869	1532	1560	832	169	117	101	100	103
75	960	1135	549	71.8	50.6	40.9	40.2	40.9	50.6	71.8	549	1135	960	443	70.7	60.2	61.0	60.7	61.6
80	190	447	188	50.4	31.7	32.4	31.6	32.4	31.7	50.4	188	447	190	55.0	36.1	35.8	41.1	43.8	44.0
85	11.1	46.8	30.2	19.9	21.4	23.5	21.8	23.5	21.4	19.9	30.2	46.8	11.1	14.4	13.9	17.7	25.0	29.2	29.2
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:2020-10-30

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:43.20V I:0.4649A P:20.08W PF:1.000 Freq:0Hz Lamp Flux:3945.04x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T203-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	936	936	936	936	936														
5	795	815	841	873	915														
10	679	707	765	841	922														
15	620	644	700	813	941														
20	580	599	651	777	964														
25	547	565	611	731	975														
30	522	538	578	693	969														
35	503	516	556	670	960														
40	486	494	528	651	973														
45	467	469	500	631	999														
50	438	438	462	594	1034														
55	383	384	406	535	1066														
60	302	305	324	443	1080														
65	190	206	220	314	1030														
70	100	101	117	169	832														
75	60.7	61.0	60.2	70.7	443														
80	43.8	41.1	35.8	36.1	55.0														
85	29.2	25.0	17.7	13.9	14.4														
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:2020-10-30

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: