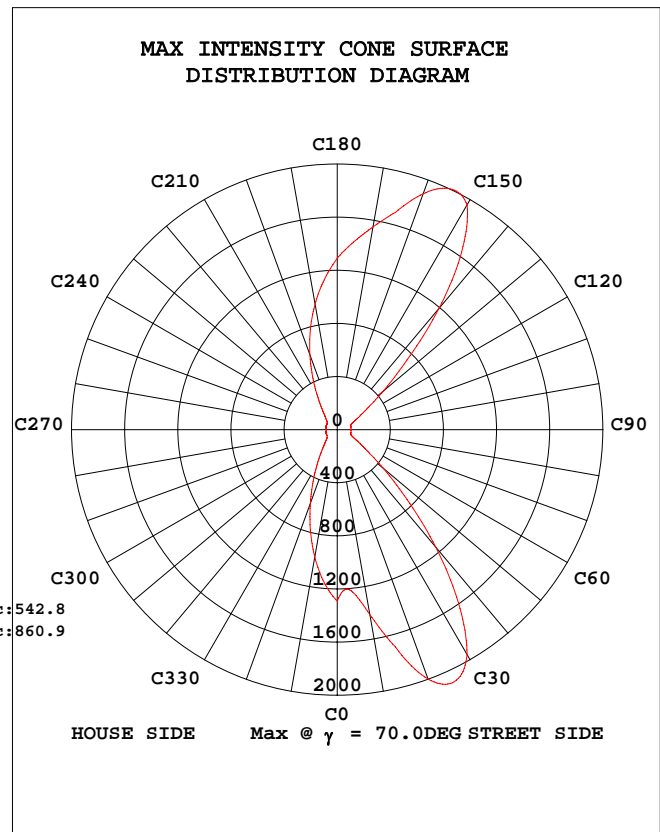
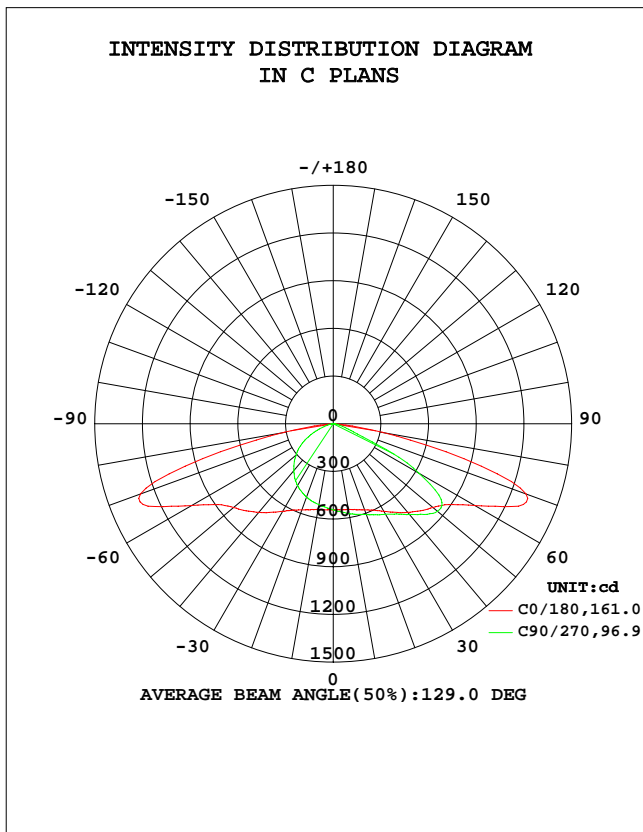


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:219.2V I:0.1005A P:20.40W PF:0.9258 Freq:49.99Hz Lamp Flux:3109.3x1 lm		
NAME: AOK IL02	TYPE:LED Street Light	WEIGHT:3.5kg
SPEC.:AOK-20WiL02-NV-L3-00-5070-T301-P	DIM.: 470*290*60mm	SERIAL No.:
MFR.: AOK	SUR.:150*150mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 152.41 lm/W			
MODEL	3030	I _{max} (cd)	1955	η street_up(%)	0.0
NOMINAL POWER(W)	20	LOR(%)	100.0	η street_down(%)	64.3
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	3109	η house_up(%)	0.0
NOMINAL FLUX(lm)	3109.3	MAXIMUM @(C,γ)	30,70.0	η house_down(%)	35.7
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220	η down(%)	100.0	SLI	19.832

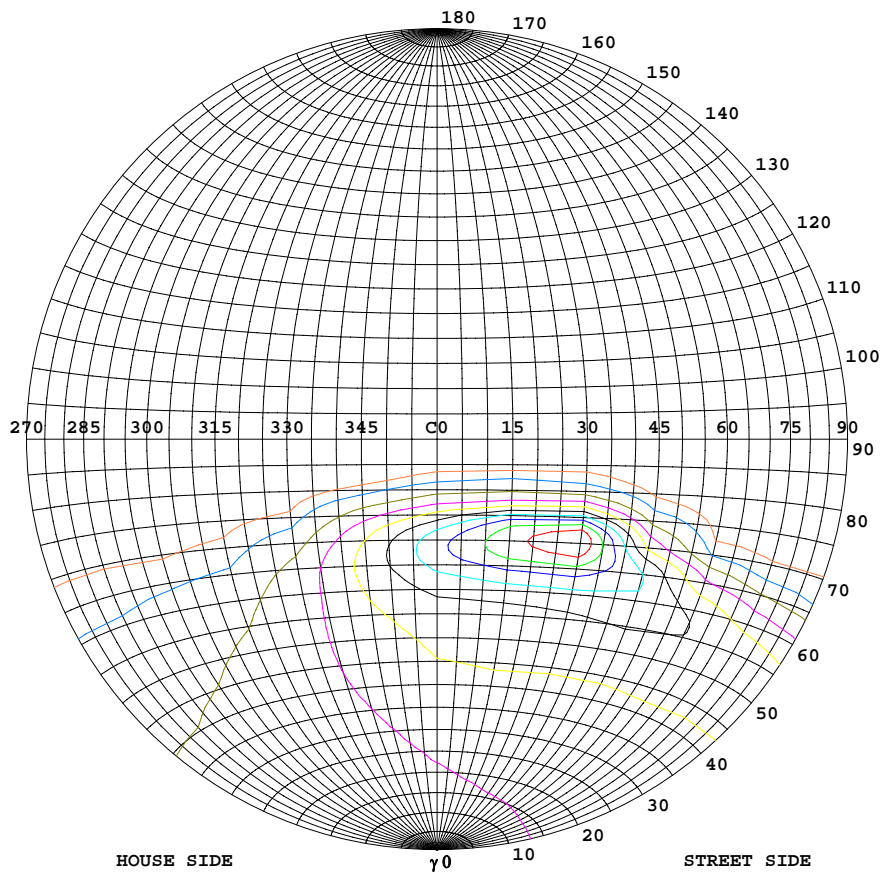


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-04-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.801m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:219.2V I:0.1005A P:20.40W PF:0.9258 Freq:49.99Hz Lamp Flux:3109.3x1 lm		
NAME: AOK IL02	TYPE:LED Street Light	WEIGHT:3.5kg
SPEC.:AOK-20WiL02-NV-L3-00-5070-T301-P	DIM.: 470*290*60mm	SERIAL No.:
MFR.: AOK	SUR.:150*150mm	Shielding Angle:



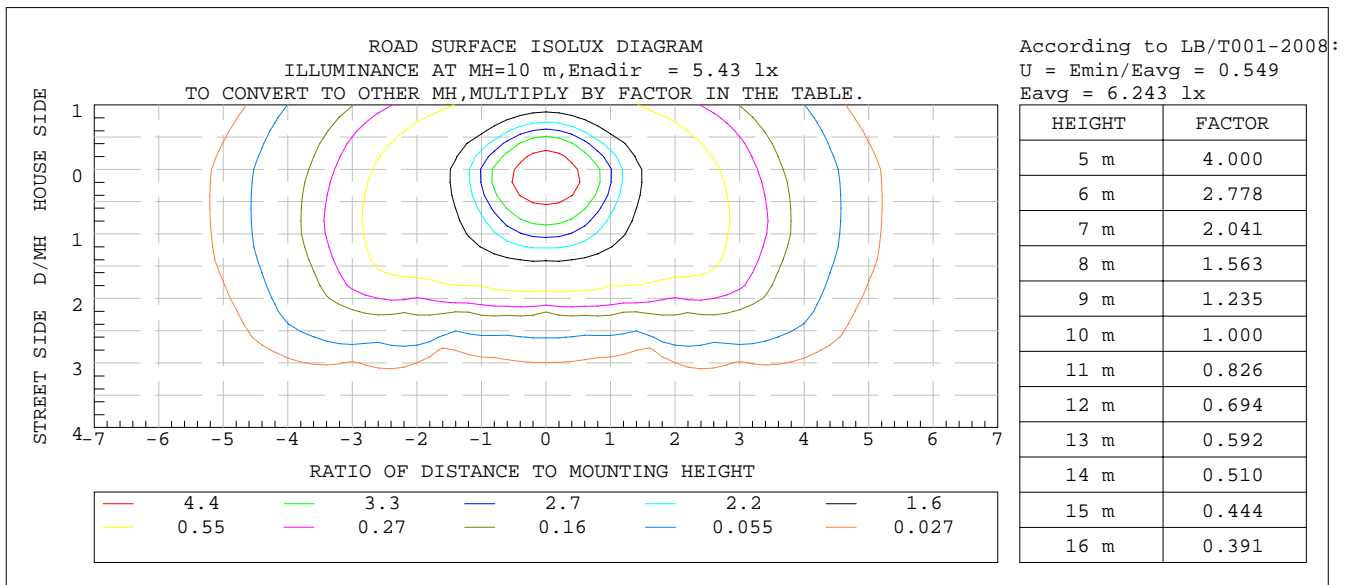
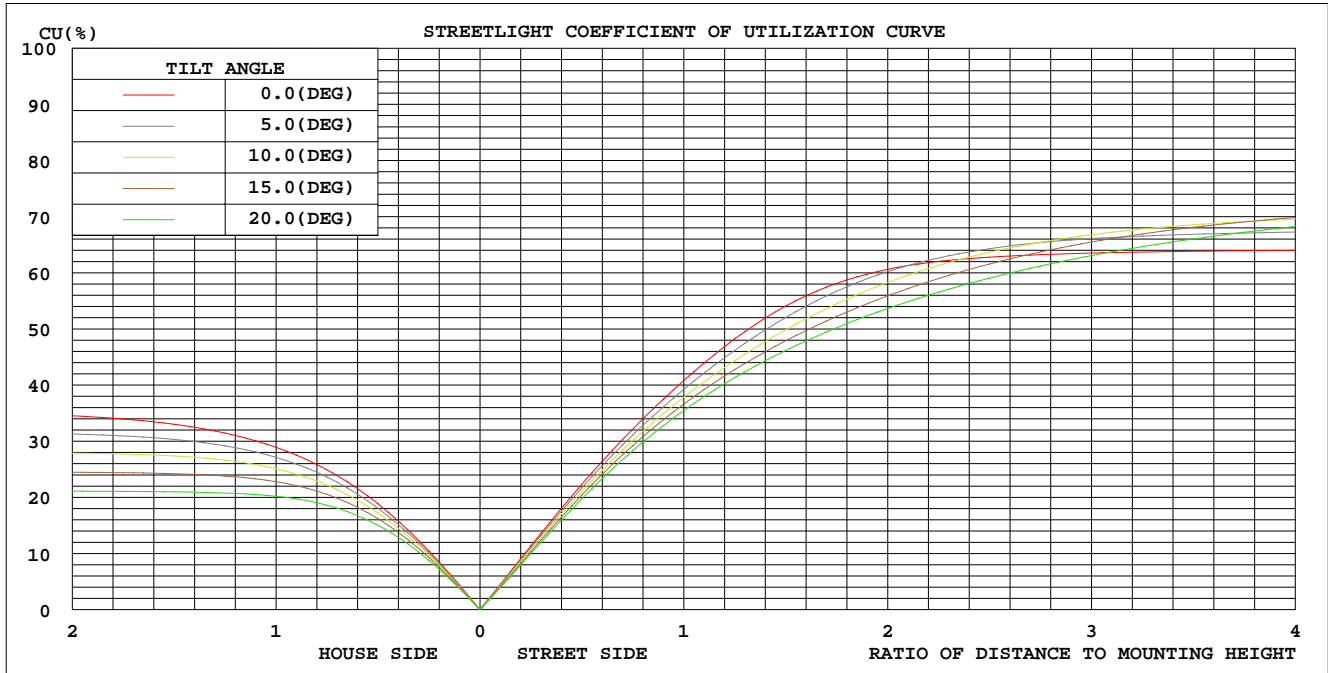
Classification:

IES:Type III - Medium
CIE:Broad - Long
IES:Semi cut-off
CIE:Non-cut-off
Max.At80:116.8cd/klm
Max.At90:0cd/klm
Max.80-90:116.8cd/klm
NRB 5101:Limited[9.3%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1955
90%	1759
80%	1564
70%	1368
60%	1173
50%	977
40%	782
30%	586
20%	391
10%	195
5%	98

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-04-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.801m [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: 2020-04-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.801m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:219.2V I:0.1005A P:20.40W PF:0.9258 Freq:49.99Hz Lamp Flux:3109.3x1 lm		
NAME: AOK IL02	TYPE:LED Street Light	WEIGHT:3.5kg
SPEC.:AOK-20WiL02-NV-L3-00-5070-T301-P	DIM.: 470*290*60mm	SERIAL No.:
MFR.: AOK	SUR.:150*150mm	Shielding Angle:

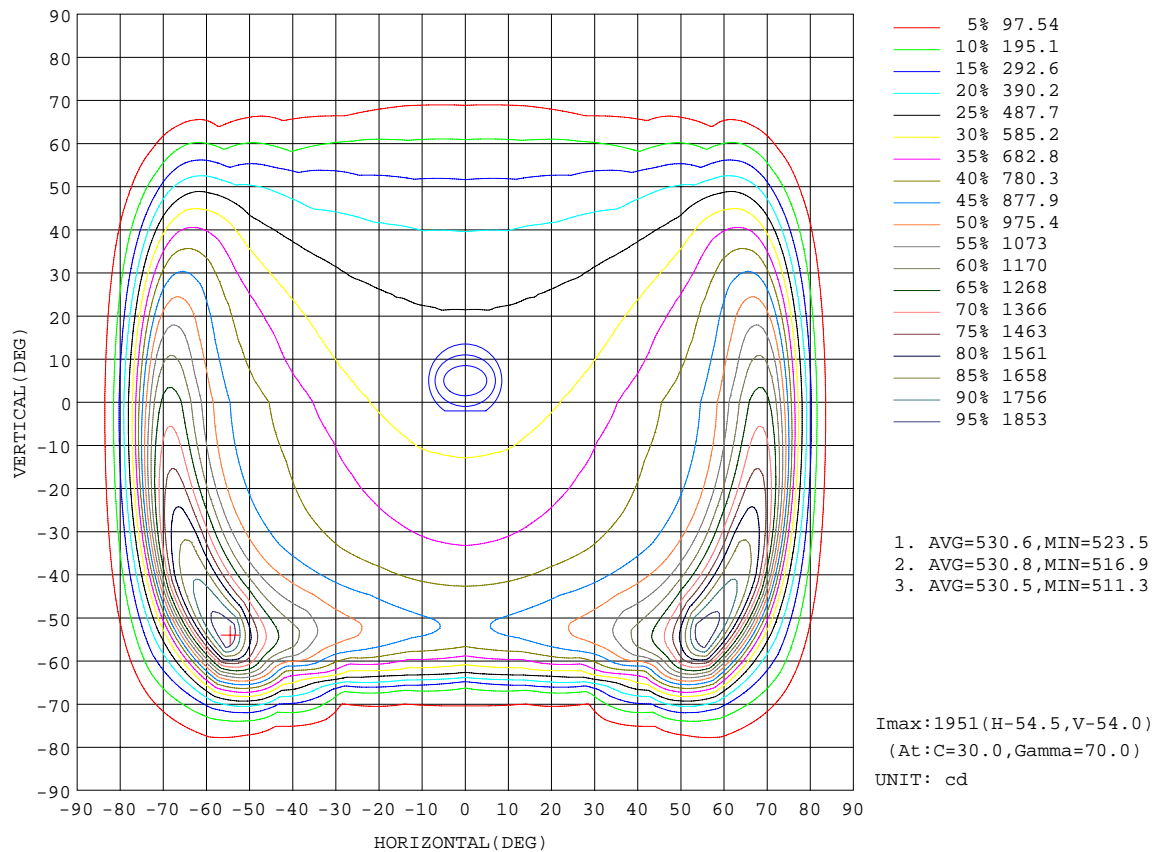
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	548.7	569.4	573.9	569.4	548.7	525.8	517.9	525.8	0- 10	52.05	52.05	1.67,1.67
20	577.0	610.3	608.3	610.3	577.0	517.3	492.0	517.3	10- 20	157.5	209.6	6.74,6.74
30	636.2	676.7	656.9	676.7	636.2	505.8	449.9	505.8	20- 30	267.7	477.2	15.3,15.3
40	728.0	748.7	744.8	748.7	728.0	481.6	384.9	481.6	30- 40	383.6	860.8	27.7,27.7
50	820.1	873.4	856.4	873.4	820.1	428.4	304.7	428.4	40- 50	505.0	1366	43.9,43.9
60	1030	1133	623.0	1133	1030	328.3	206.0	328.3	50- 60	625.0	1991	64,64
70	1291	743.6	102.1	743.6	1291	123.4	82.00	123.4	60- 70	686.6	2677	86.1,86.1
80	312.9	81.25	23.03	81.25	312.9	22.03	18.49	22.03	70- 80	397.2	3075	98.9,98.9
90	0	0	0	0	0	0	0	0	80- 90	34.75	3109	100,100
100	0	0	0	0	0	0	0	0	90-100	0	3109	100,100
110	0	0	0	0	0	0	0	0	100-110	0	3109	100,100
120	0	0	0	0	0	0	0	0	110-120	0	3109	100,100
130	0	0	0	0	0	0	0	0	120-130	0	3109	100,100
140	0	0	0	0	0	0	0	0	130-140	0	3109	100,100
150	0	0	0	0	0	0	0	0	140-150	0	3109	100,100
160	0	0	0	0	0	0	0	0	150-160	0	3109	100,100
170	0	0	0	0	0	0	0	0	160-170	0	3109	100,100
180	0	0	0	0	0	0	0	0	170-180	0	3109	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:2020-04-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.801m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

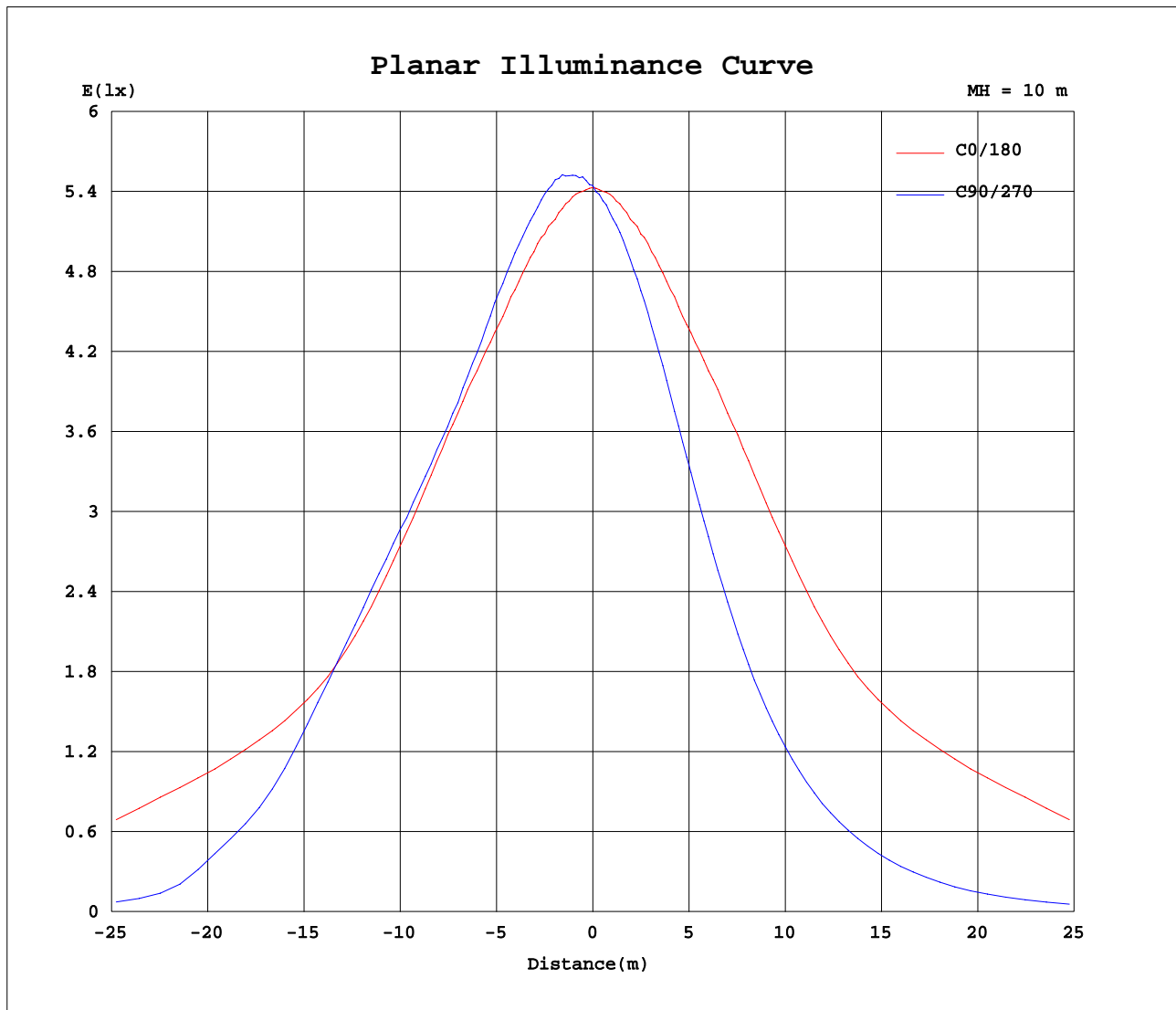
Test:U:219.2V I:0.1005A P:20.40W PF:0.9258 Freq:49.99Hz Lamp Flux:3109.3x1 lm		
NAME: AOK IL02	TYPE:LED Street Light	WEIGHT:3.5kg
SPEC.:AOK-20WiL02-NV-L3-00-5070-T301-P	DIM.: 470*290*60mm	SERIAL No.:
MFR.: AOK	SUR.:150*150mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-04-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.801m [K=1.0000]
Remarks:

Planar Illuminance Curve



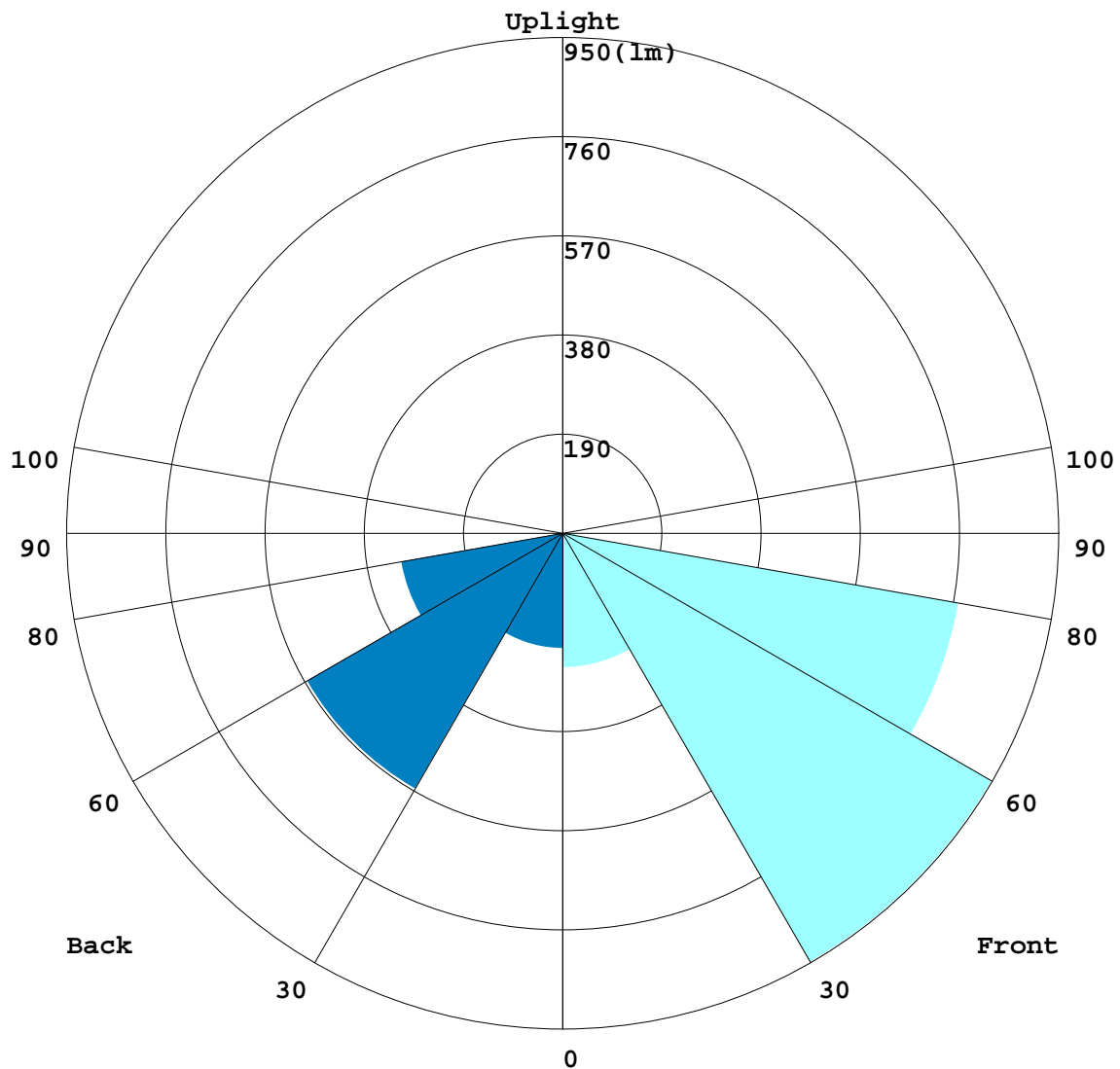
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2020-04-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.801m [K=1.0000]
Remarks:

LCS REPORT

Test:U:219.2V I:0.1005A P:20.40W PF:0.9258 Freq:49.99Hz Lamp Flux:3109.3x1 lm		
NAME: AOK IL02	TYPE:LED Street Light	WEIGHT:3.5kg
SPEC.:AOK-20WiL02-NV-L3-00-5070-T301-P	DIM.: 470*290*60mm	SERIAL No.:
MFR.: AOK	SUR.:150*150mm	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-04-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.801m [K=1.0000]
Remarks:

BUG REPORT

Test:U:219.2V I:0.1005A P:20.40W PF:0.9258 Freq:49.99Hz Lamp Flux:3109.3x1 lm		
NAME: AOK IL02	TYPE:LED Street Light	WEIGHT:3.5kg
SPEC.:AOK-20WiL02-NV-L3-00-5070-T301-P	DIM.: 470*290*60mm	SERIAL No.:
MFR.: AOK	SUR.:150*150mm	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	256.96	8.3
FM - Front-Medium(30-60)	948.33	30.5
FH - Front-High(60-80)	769.52	24.7
FVH - Front-Very High(80-90)	24.992	0.8
Total Forward Light	1999.8	64.3

BL - Back-Low(0-30)	220.25	7.1
BM - Back-Medium(30-60)	565.26	18.2
BH - Back-High(60-80)	314.22	10.1
BVH - Back-Very High(80-90)	9.7615	0.3
Total Back Light	1109.5	35.7

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
---------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1109.5	0	1109.5
Street Side	1999.8	0	1999.8

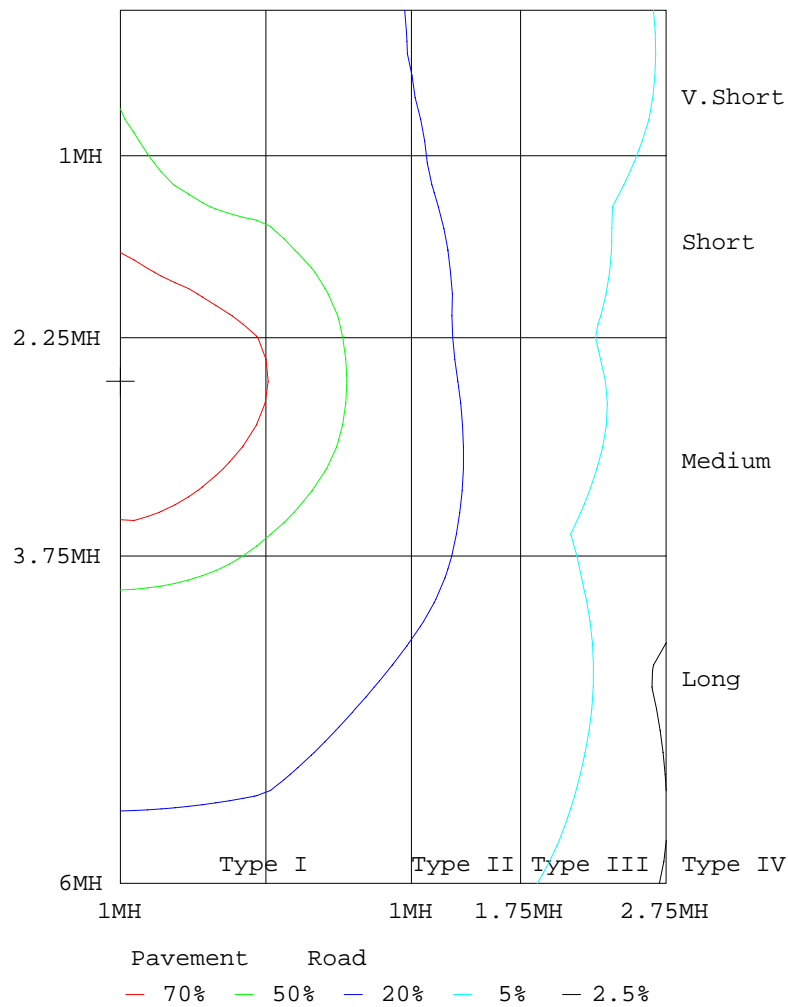
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-04-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.801m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:219.2V I:0.1005A P:20.40W PF:0.9258 Freq:49.99Hz Lamp Flux:3109.3x1 lm		
NAME: AOK IL02	TYPE:LED Street Light	WEIGHT:3.5kg
SPEC.:AOK-20WiL02-NV-L3-00-5070-T301-P	DIM.: 470*290*60mm	SERIAL No.:
MFR.: AOK	SUR.:150*150mm	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-04-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.801m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.2V I:0.1005A P:20.40W PF:0.9258 Freq:49.99Hz Lamp Flux:3109.3x1 lm		
NAME: AOK IL02	TYPE:LED Street Light	WEIGHT:3.5kg
SPEC.:AOK-20WiL02-NV-L3-00-5070-T301-P	DIM.: 470*290*60mm	SERIAL No.:
MFR.: AOK	SUR.:150*150mm	Shielding Angle:

Table--1

UNIT: cd

C(DEC) γ (DEC)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543
5	544	546	553	553	557	559	557	559	557	553	553	546	544	540	537	534	532	532	529
10	549	556	565	569	573	575	574	575	573	569	565	556	549	540	533	526	521	520	518
15	561	573	582	585	591	594	590	594	591	585	582	573	561	545	531	520	511	508	507
20	577	594	610	610	611	612	608	612	611	610	610	594	577	557	534	517	503	495	492
25	599	625	642	642	639	636	631	636	639	642	642	625	599	568	537	512	491	476	472
30	636	667	678	677	669	665	657	665	669	677	678	667	636	583	541	506	476	455	450
35	680	711	717	708	708	702	692	702	708	708	717	711	680	605	546	496	454	429	421
40	728	753	754	749	755	753	745	753	755	749	754	753	728	635	549	482	430	396	385
45	776	796	794	800	817	817	808	817	817	800	794	796	776	676	548	461	396	359	349
50	820	835	844	873	899	880	856	880	899	873	844	835	820	717	542	428	357	316	305
55	887	907	938	990	973	889	829	889	973	990	938	907	887	756	530	386	309	270	260
60	1030	1087	1125	1133	932	713	623	713	932	1133	1125	1087	1030	807	504	328	252	216	206
65	1233	1439	1518	1174	619	407	273	407	619	1174	1518	1439	1233	855	450	226	171	153	144
70	1291	1695	1955	744	184	106	102	106	184	744	1955	1695	1291	783	304	123	89.2	88.9	82.0
75	851	1222	1247	330	60.9	56.8	52.2	56.8	60.9	330	1247	1222	851	507	129	60.9	47.0	41.8	41.0
80	313	363	315	81.2	27.2	24.0	23.0	24.0	27.2	81.2	315	363	313	144	34.7	22.0	20.8	18.0	18.5
85	39.2	52.9	51.1	15.1	6.90	6.25	5.85	6.25	6.90	15.1	51.1	52.9	39.2	11.2	7.96	6.18	5.58	4.72	4.88
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:2020-04-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.801m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.2V I:0.1005A P:20.40W PF:0.9258 Freq:49.99Hz Lamp Flux:3109.3x1 lm		
NAME: AOK IL02	TYPE:LED Street Light	WEIGHT:3.5kg
SPEC.:AOK-20WiL02-NV-L3-00-5070-T301-P	DIM.: 470*290*60mm	SERIAL No.:
MFR.: AOK	SUR.:150*150mm	Shielding Angle:

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345														
0	543	543	543	543	543														
5	532	532	534	537	540														
10	520	521	526	533	540														
15	508	511	520	531	545														
20	495	503	517	534	557														
25	476	491	512	537	568														
30	455	476	506	541	583														
35	429	454	496	546	605														
40	396	430	482	549	635														
45	359	396	461	548	676														
50	316	357	428	542	717														
55	270	309	386	530	756														
60	216	252	328	504	807														
65	153	171	226	450	855														
70	88.9	89.2	123	304	783														
75	41.8	47.0	60.9	129	507														
80	18.0	20.8	22.0	34.7	144														
85	4.72	5.58	6.18	7.96	11.2														
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:2020-04-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.801m [K=1.0000]
 Remarks: