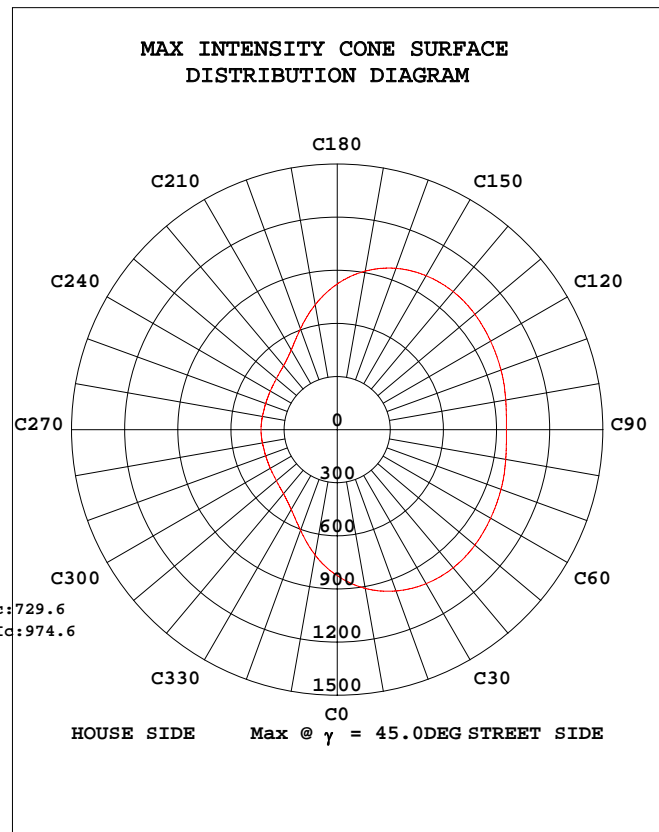
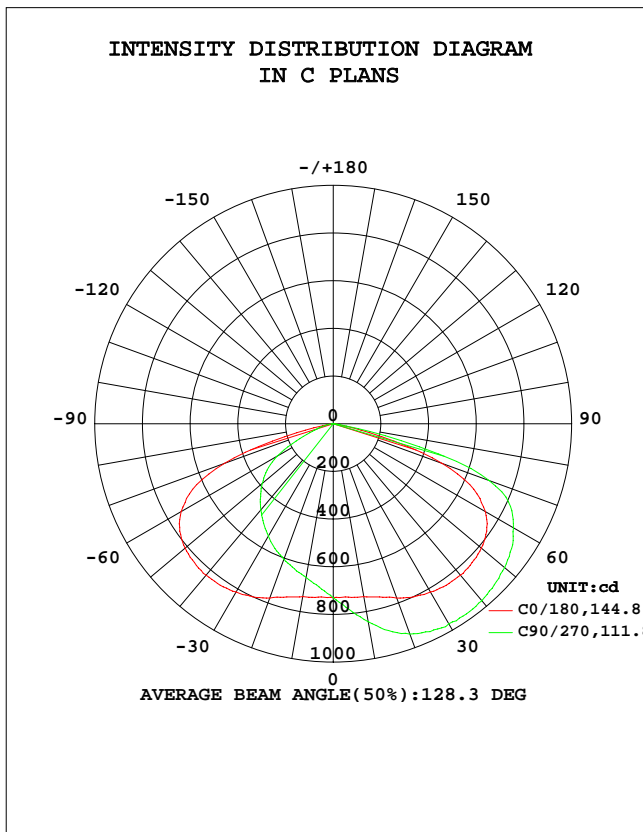


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:219.2V I:0.1013A P:20.62W PF:0.9284 Freq:49.99Hz Lamp Flux:3239.51x1 lm		
NAME: AOK IL02	TYPE:LED Street Light	WEIGHT:3.5kg
SPEC.:AOK-20WiL02-NV-L3-00-5070-T411-P	DIM.: 470*290*60mm	SERIAL No.:
MFR.: AOK	SUR.:150*150mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 157.08 lm/W			
MODEL	3030	I _{max} (cd)	1019	η street_up(%)	0.0
NOMINAL POWER(W)	20	LOR(%)	100.0	η street_down(%)	68.2
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	3240	η house_up(%)	0.0
NOMINAL FLUX(lm)	3239.51	MAXIMUM @(C,γ)	45,45.0	η house_down(%)	31.8
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220	η down(%)	100.0	SLI	16.144

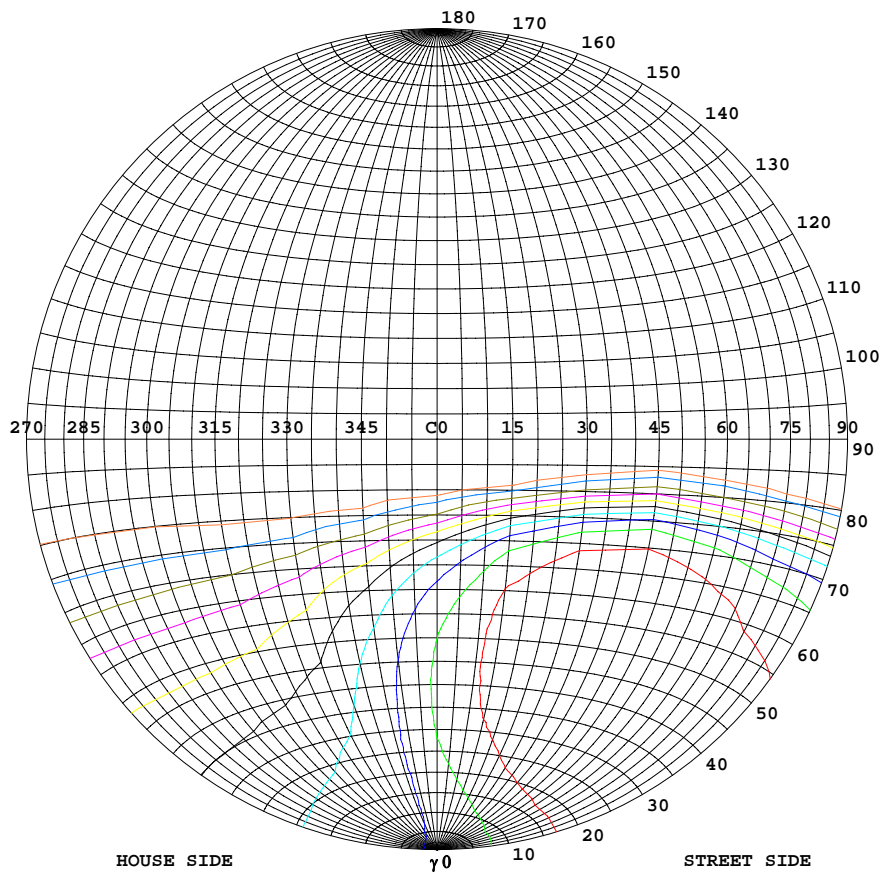


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-04-13

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:0.1013A P:20.62W PF:0.9284 Freq:49.99Hz Lamp Flux:3239.51x1 lm		
NAME: AOK IL02	TYPE:LED Street Light	WEIGHT:3.5kg
SPEC.:AOK-20WiL02-NV-L3-00-5070-T411-P	DIM.: 470*290*60mm	SERIAL No.:
MFR.: AOK	SUR.:150*150mm	Shielding Angle:



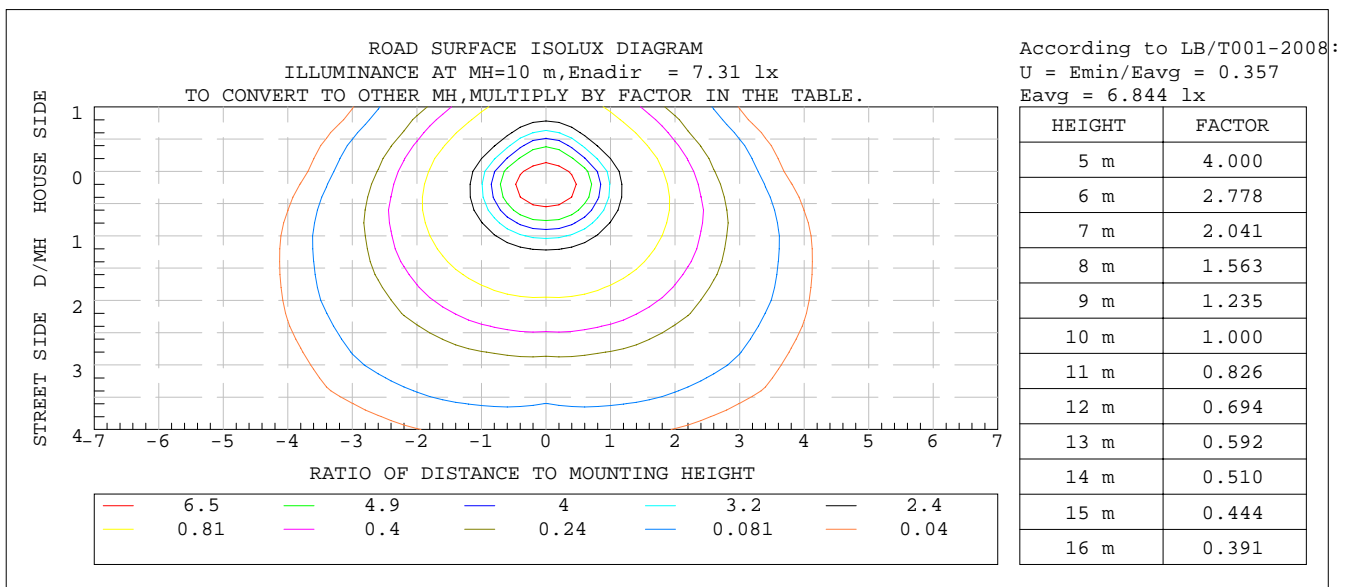
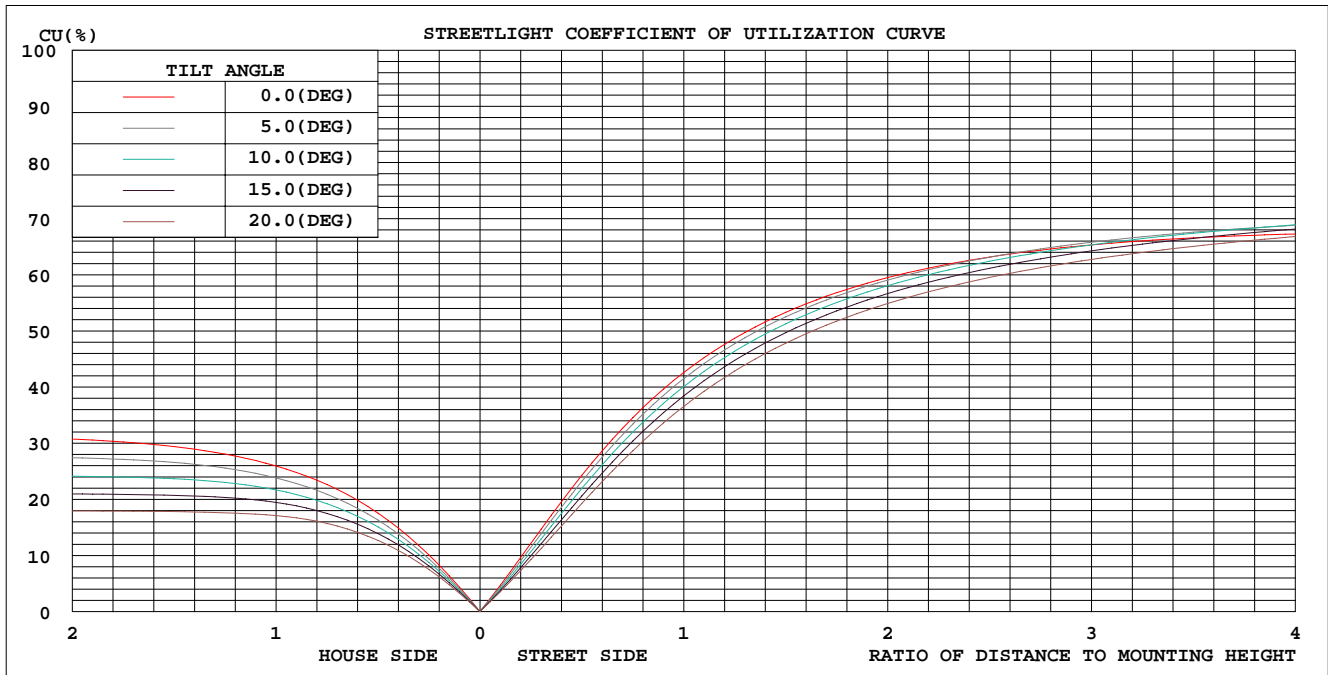
Classification:

IES:Type IV - Very Short
 CIE:Broad - Short
 IES:Full cut-off
 CIE:Semi-cut-off
 Max.At80:94.18cd/klm
 Max.At90:0cd/klm
 Max.80-90:94.18cd/klm
 NRB 5101:Semi limited[15.3%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1019
90%	917
80%	815
70%	713
60%	611
50%	509
40%	407
30%	306
20%	204
10%	102
5%	51

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-04-13

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: 2020-04-13

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:0.1013A P:20.62W PF:0.9284 Freq:49.99Hz Lamp Flux:3239.51x1 lm		
NAME: AOK IL02	TYPE:LED Street Light	WEIGHT:3.5kg
SPEC.:AOK-20WiL02-NV-L3-00-5070-T411-P	DIM.: 470*290*60mm	SERIAL No.:
MFR.: AOK	SUR.:150*150mm	Shielding Angle:

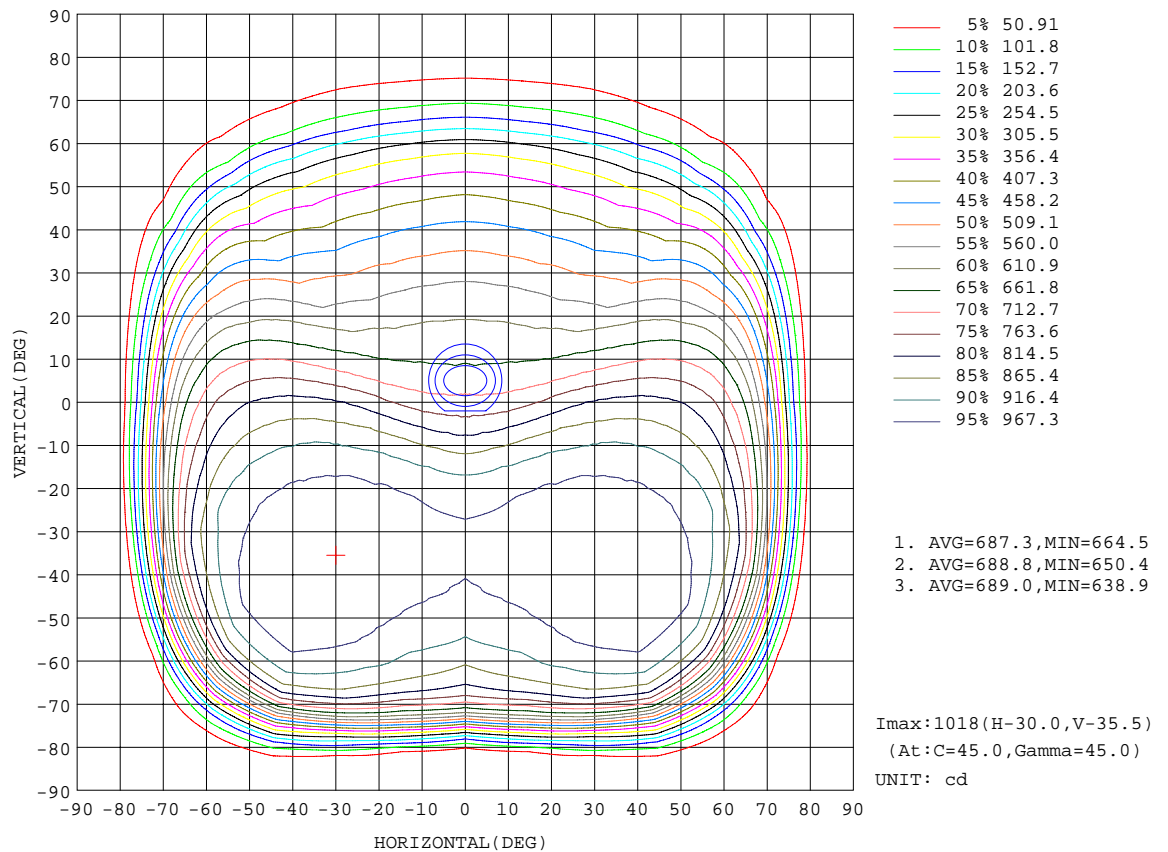
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
10	736.5	821.2	842.4	821.2	736.5	673.2	654.3	673.2	0- 10	70.39	70.39	2.17,2.17
20	777.9	925.5	938.9	925.5	777.9	630.6	605.3	630.6	10- 20	216.5	286.9	8.86,8.86
30	814.9	986.1	969.5	986.1	814.9	574.3	544.6	574.3	20- 30	361.6	648.5	20,20
40	829.3	1011	969.4	1011	829.3	500.6	472.6	500.6	30- 40	486.0	1135	35,35
50	811.0	1017	938.6	1017	811.0	414.0	388.5	414.0	40- 50	577.5	1712	52.8,52.8
60	736.8	999.9	872.8	999.9	736.8	294.9	271.7	294.9	50- 60	621.1	2333	72,72
70	485.2	913.8	695.2	913.8	485.2	94.62	93.39	94.62	60- 70	571.1	2904	89.7,89.7
80	28.94	305.1	55.26	305.1	28.94	20.91	23.34	20.91	70- 80	311.6	3216	99.3,99.3
90	0	0	0	0	0	0	0	0	80- 90	23.60	3240	100,100
100	0	0	0	0	0	0	0	0	90-100	0	3240	100,100
110	0	0	0	0	0	0	0	0	100-110	0	3240	100,100
120	0	0	0	0	0	0	0	0	110-120	0	3240	100,100
130	0	0	0	0	0	0	0	0	120-130	0	3240	100,100
140	0	0	0	0	0	0	0	0	130-140	0	3240	100,100
150	0	0	0	0	0	0	0	0	140-150	0	3240	100,100
160	0	0	0	0	0	0	0	0	150-160	0	3240	100,100
170	0	0	0	0	0	0	0	0	160-170	0	3240	100,100
180	0	0	0	0	0	0	0	0	170-180	0	3240	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:2020-04-13

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:

ISOCANDELA DIAGRAM

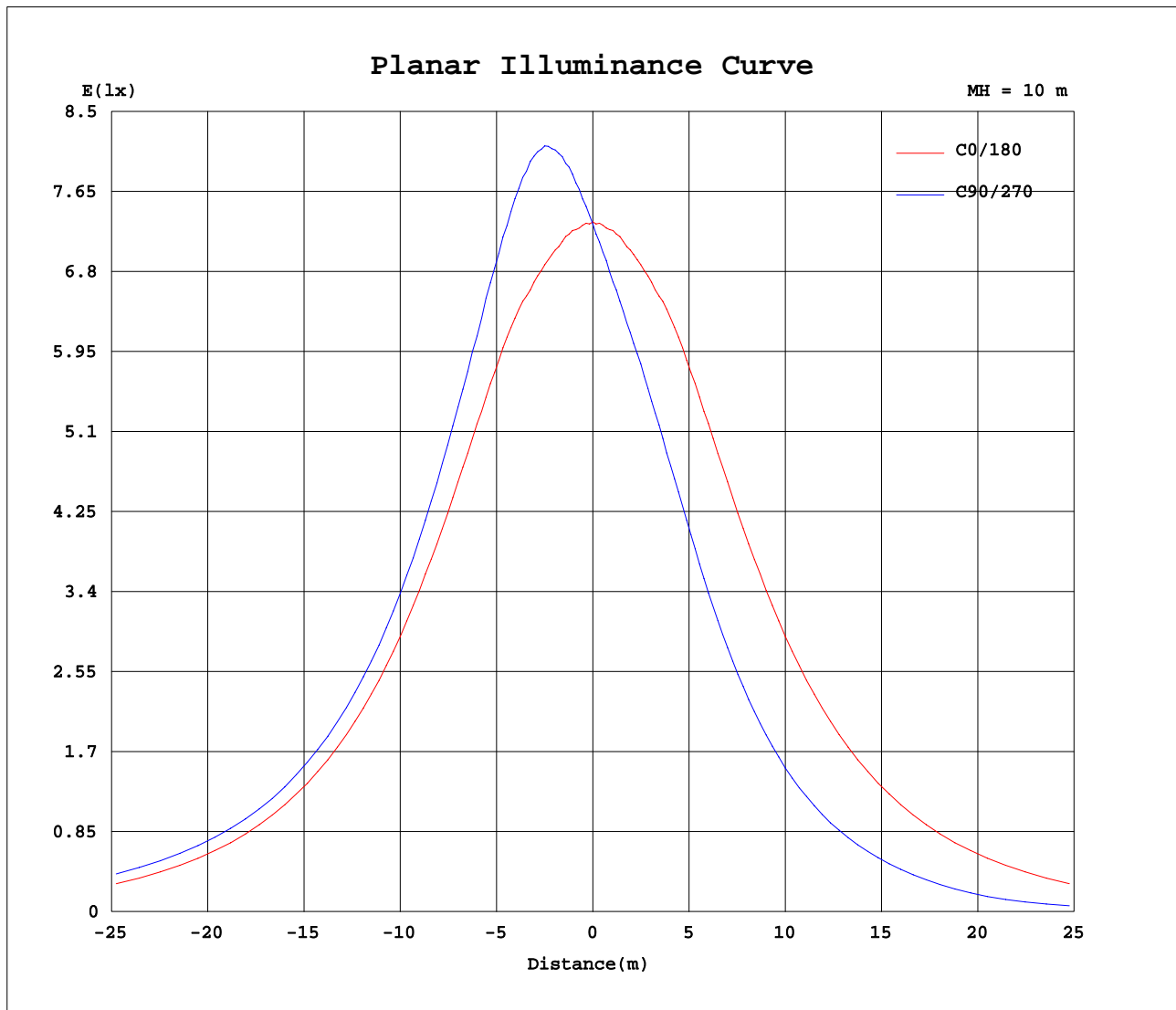
Test:U:219.2V I:0.1013A P:20.62W PF:0.9284 Freq:49.99Hz Lamp Flux:3239.51x1 lm		
NAME: AOK IL02	TYPE:LED Street Light	WEIGHT:3.5kg
SPEC.:AOK-20WiL02-NV-L3-00-5070-T411-P	DIM.: 470*290*60mm	SERIAL No.:
MFR.: AOK	SUR.:150*150mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-04-13

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



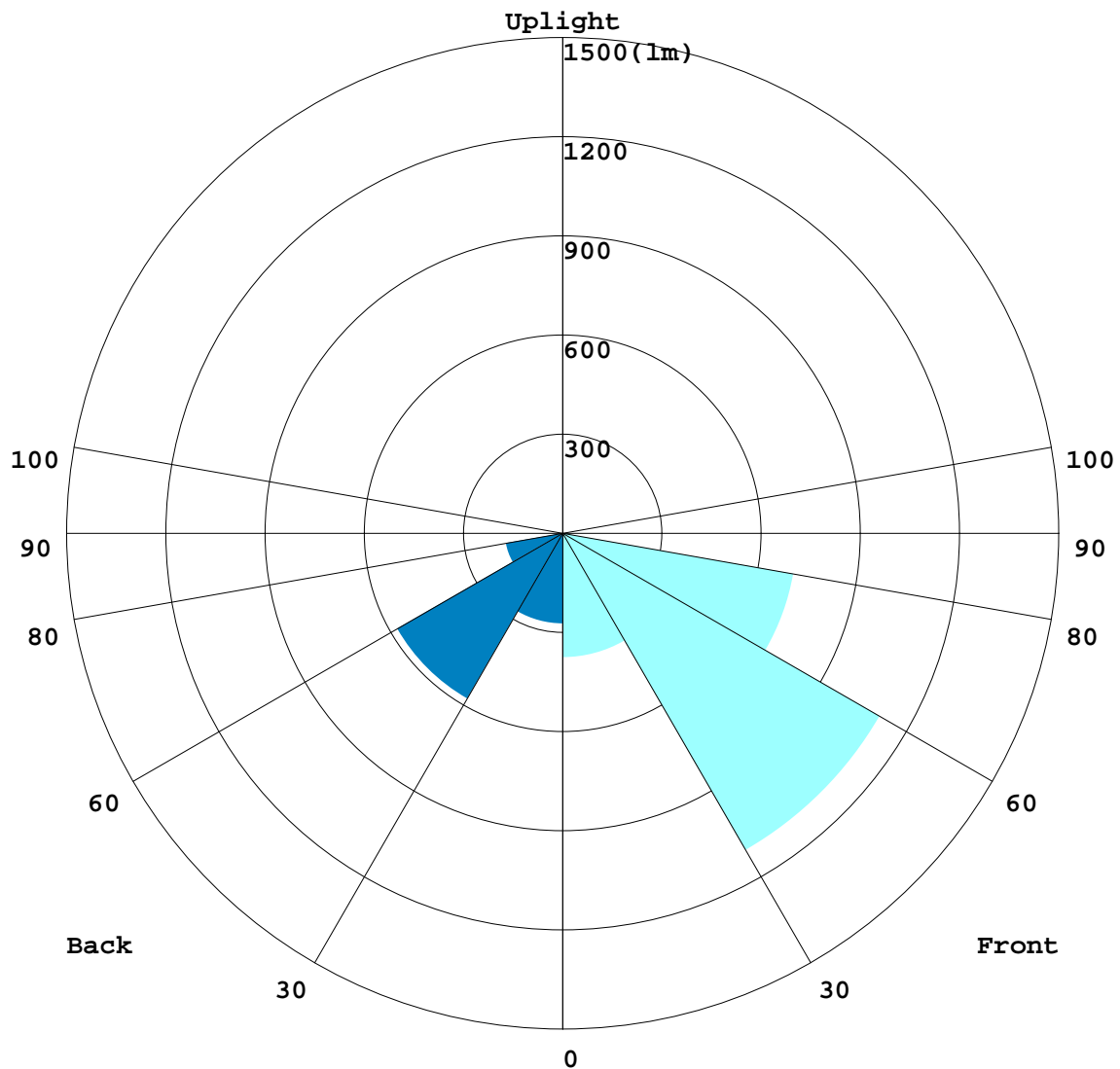
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2020-04-13

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:0.1013A P:20.62W PF:0.9284 Freq:49.99Hz Lamp Flux:3239.51x1 lm		
NAME: AOK IL02	TYPE:LED Street Light	WEIGHT:3.5kg
SPEC.:AOK-20WiL02-NV-L3-00-5070-T411-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:2020-04-13

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:0.1013A P:20.62W PF:0.9284 Freq:49.99Hz Lamp Flux:3239.51x1 lm		
NAME: AOK IL02	TYPE:LED Street Light	WEIGHT:3.5kg
SPEC.:AOK-20WiL02-NV-L3-00-5070-T411-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)	375.21	11.6
FM - Front-Medium(30-60)	1106.9	34.2
FH - Front-High(60-80)	708.34	21.9
FVH - Front-Very High(80-90)	19.351	0.6
Total Forward Light	2209.8	68.2

BL - Back-Low(0-30)	273.3	8.4
BM - Back-Medium(30-60)	577.76	17.8
BH - Back-High(60-80)	174.41	5.4
BVH - Back-Very High(80-90)	4.2491	0.1
Total Back Light	1029.7	31.8

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	1029.7	0	1029.7
Street Side	2209.8	0	2209.8

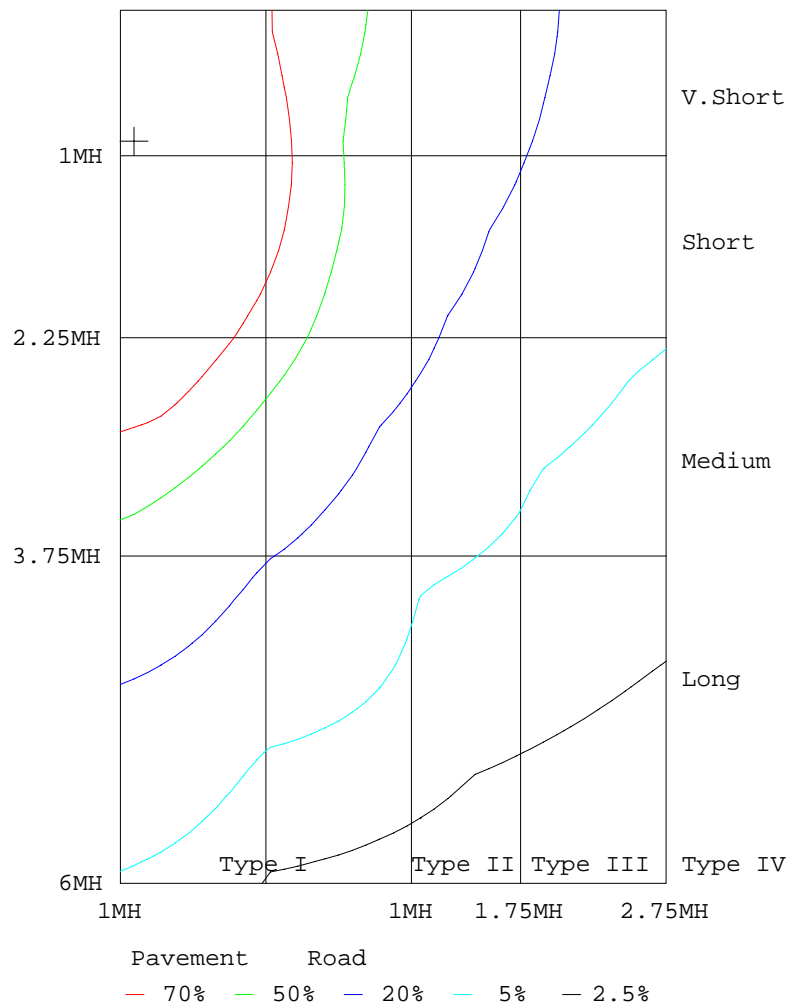
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-04-13

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:0.1013A P:20.62W PF:0.9284 Freq:49.99Hz Lamp Flux:3239.51x1 lm		
NAME: AOK IL02	TYPE:LED Street Light	WEIGHT:3.5kg
SPEC.:AOK-20WiL02-NV-L3-00-5070-T411-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:2020-04-13

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:0.1013A P:20.62W PF:0.9284 Freq:49.99Hz Lamp Flux:3239.51x1 lm		
NAME: AOK IL02	TYPE:LED Street Light	WEIGHT:3.5kg
SPEC.:AOK-20WiL02-NV-L3-00-5070-T411-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	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730
5	730	743	757	769	773	779	782	779	773	769	757	743	730	722	708	699	692	688	687
10	736	765	799	821	833	842	842	842	833	821	799	765	736	713	690	673	664	656	654
15	752	804	850	879	893	900	898	900	893	879	850	804	752	710	674	653	642	634	630
20	778	845	899	926	935	940	939	940	935	926	899	845	778	704	660	631	618	608	605
25	801	878	934	961	965	963	962	963	965	961	934	878	801	704	639	606	588	580	578
30	815	902	961	986	983	978	969	978	983	986	961	902	815	696	615	574	556	546	545
35	827	923	981	1001	995	985	974	985	995	1001	981	923	827	689	587	540	518	509	510
40	829	935	995	1011	1001	985	969	985	1001	1011	995	935	829	677	554	501	479	473	473
45	823	943	1004	1019	1000	976	955	976	1000	1019	1004	943	823	662	520	459	437	429	431
50	811	943	1010	1017	992	957	939	957	992	1017	1010	943	811	633	479	414	390	387	388
55	786	937	1004	1011	976	938	913	938	976	1011	1004	937	786	589	429	361	341	336	339
60	737	916	997	1000	960	909	873	909	960	1000	997	916	737	525	365	295	273	267	272
65	651	866	965	976	920	865	820	865	920	976	965	866	651	422	273	203	181	168	172
70	485	753	886	914	850	749	695	749	850	914	886	753	485	258	136	94.6	92.9	90.1	93.4
75	211	472	655	734	616	483	374	483	616	734	655	472	211	81.8	49.8	46.9	50.4	50.3	51.8
80	28.9	91.1	227	305	204	115	55.3	115	204	305	227	91.1	28.9	23.2	21.7	20.9	23.5	23.3	23.3
85	6.20	6.83	14.4	29.4	11.7	7.23	6.52	7.23	11.7	29.4	14.4	6.83	6.20	5.51	5.13	5.26	5.90	5.87	6.08
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:2020-04-13

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:0.1013A P:20.62W PF:0.9284 Freq:49.99Hz Lamp Flux:3239.51x1 lm		
NAME: AOK IL02	TYPE:LED Street Light	WEIGHT:3.5kg
SPEC.:AOK-20WiL02-NV-L3-00-5070-T411-P	DIM.: 470*290*60mm	SERIAL No.:
MFR.: AOK	SUR.:150*150mm	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	730	730	730	730	730														
5	688	692	699	708	722														
10	656	664	673	690	713														
15	634	642	653	674	710														
20	608	618	631	660	704														
25	580	588	606	639	704														
30	546	556	574	615	696														
35	509	518	540	587	689														
40	473	479	501	554	677														
45	429	437	459	520	662														
50	387	390	414	479	633														
55	336	341	361	429	589														
60	267	273	295	365	525														
65	168	181	203	273	422														
70	90.1	92.9	94.6	136	258														
75	50.3	50.4	46.9	49.8	81.8														
80	23.3	23.5	20.9	21.7	23.2														
85	5.87	5.90	5.26	5.13	5.51														
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:2020-04-13

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: