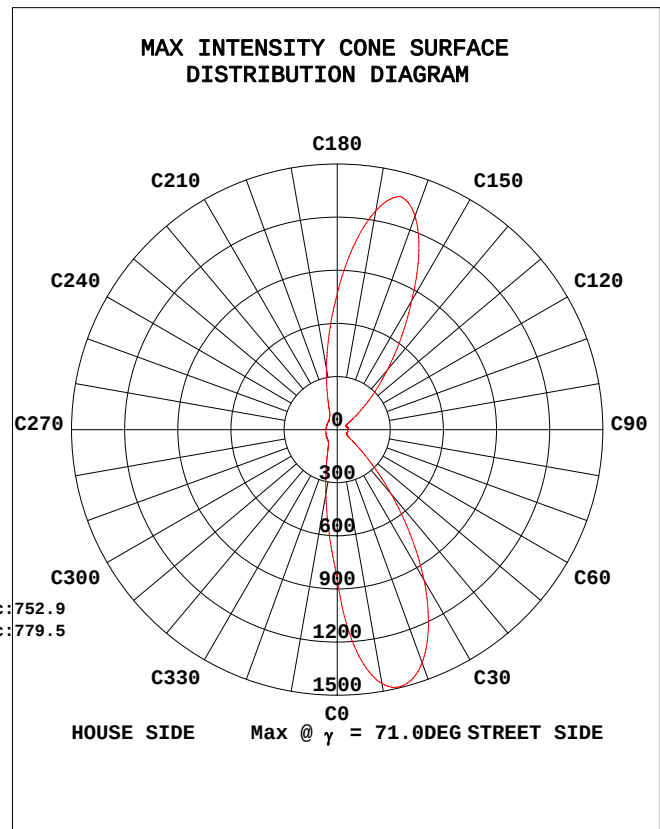
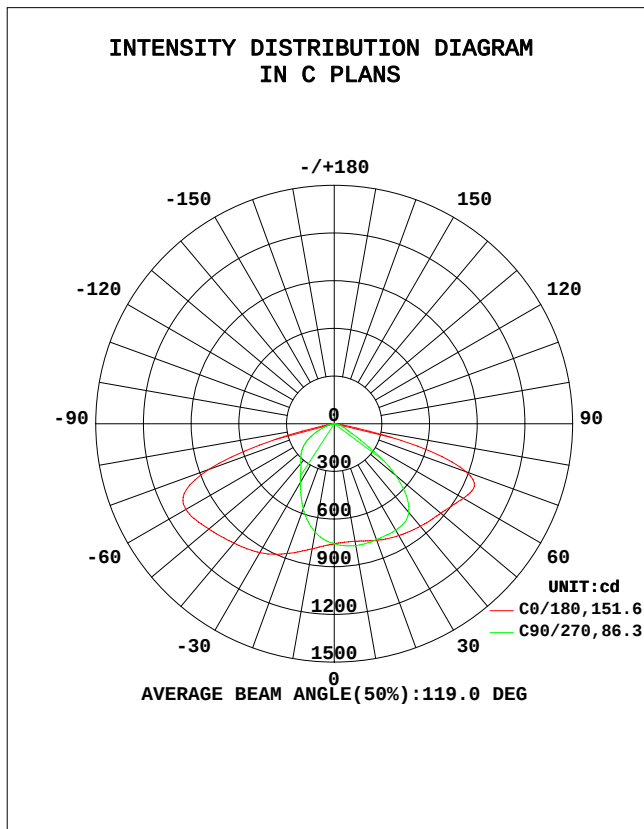


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:219.4V I:0.0947A P:20.35W PF:0.9792 Freq:60.01Hz Lamp Flux:2888.4x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-20W iLA-NVO-L3-00-3070-T201-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 141.95 lm/W
MODEL	3030	I _{max} (cd)	1488	η street_up(%)	0.0	
NOMINAL POWER(W)	20	LOR(%)	100.0	η street_down(%)	62.9	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2888	η house_up(%)	0.0	
NOMINAL FLUX(lm)	2888.4	MAXIMUM @(C,γ)	15,71.0	η house_down(%)	37.1	
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100	
TEST VOLTAGE(V)	220	η down(%)	100.0	SLI	18.272	

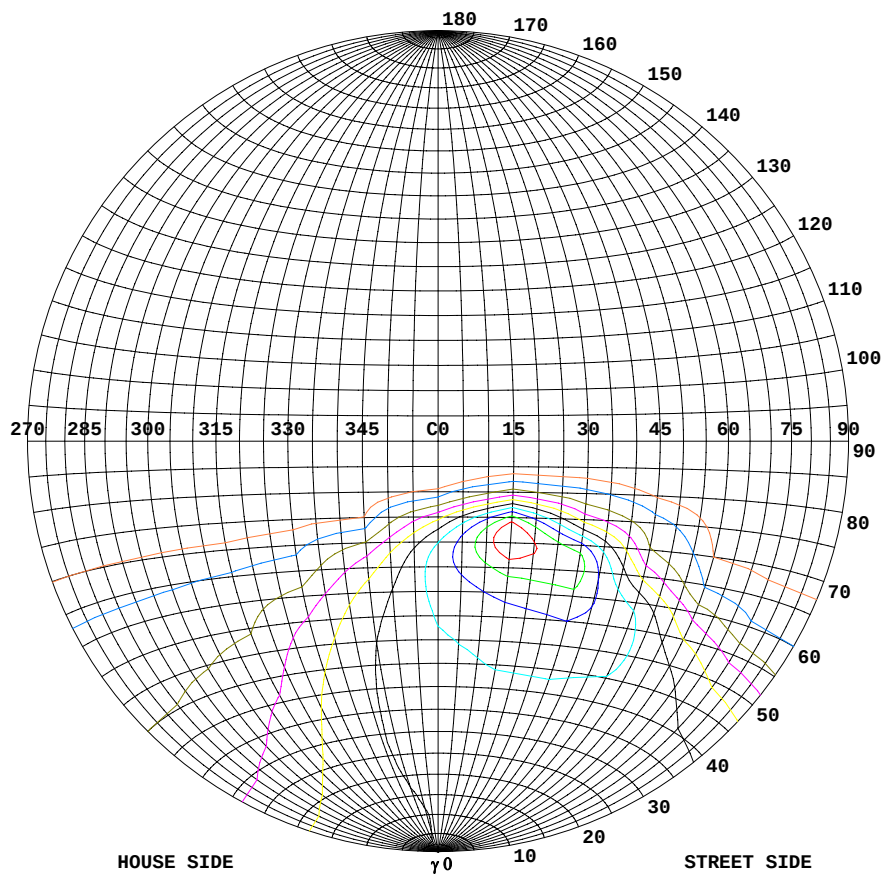


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
 Humidity: 65.0%
 Test Distance: 7.682m [K=1.0000]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:219.4V I:0.0947A P:20.35W PF:0.9792 Freq:60.01Hz Lamp Flux:2888.4x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Light Weight:3.6kg
SPEC.:AOK-20WiLA-NVO-L3-00-3070-T201-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:



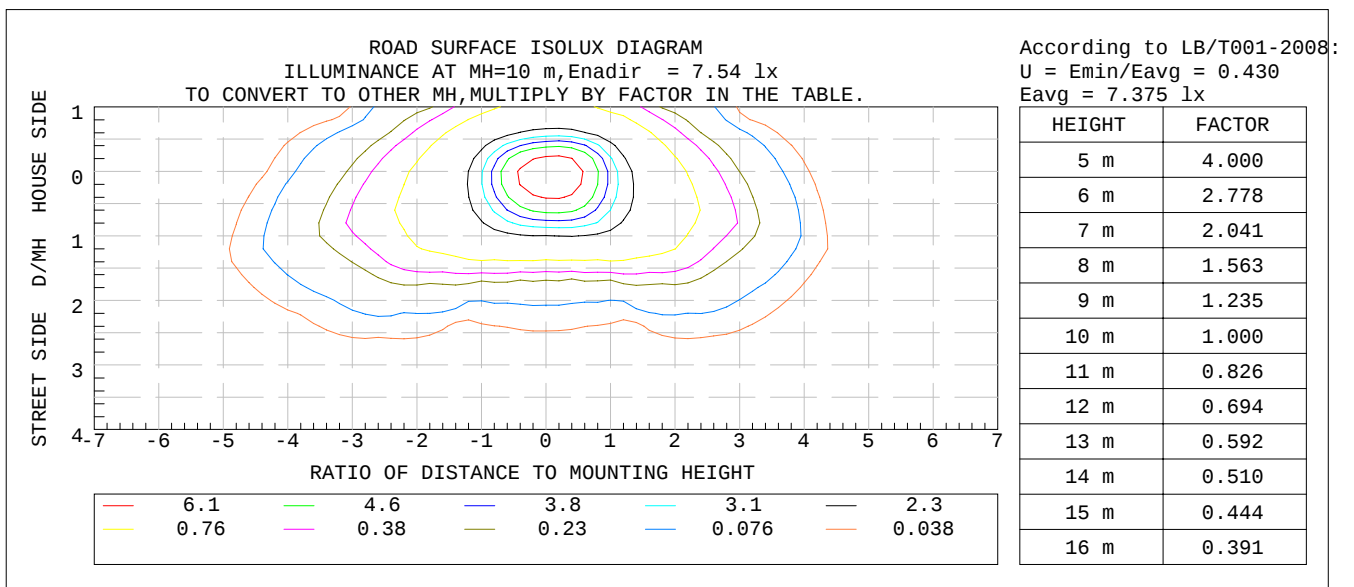
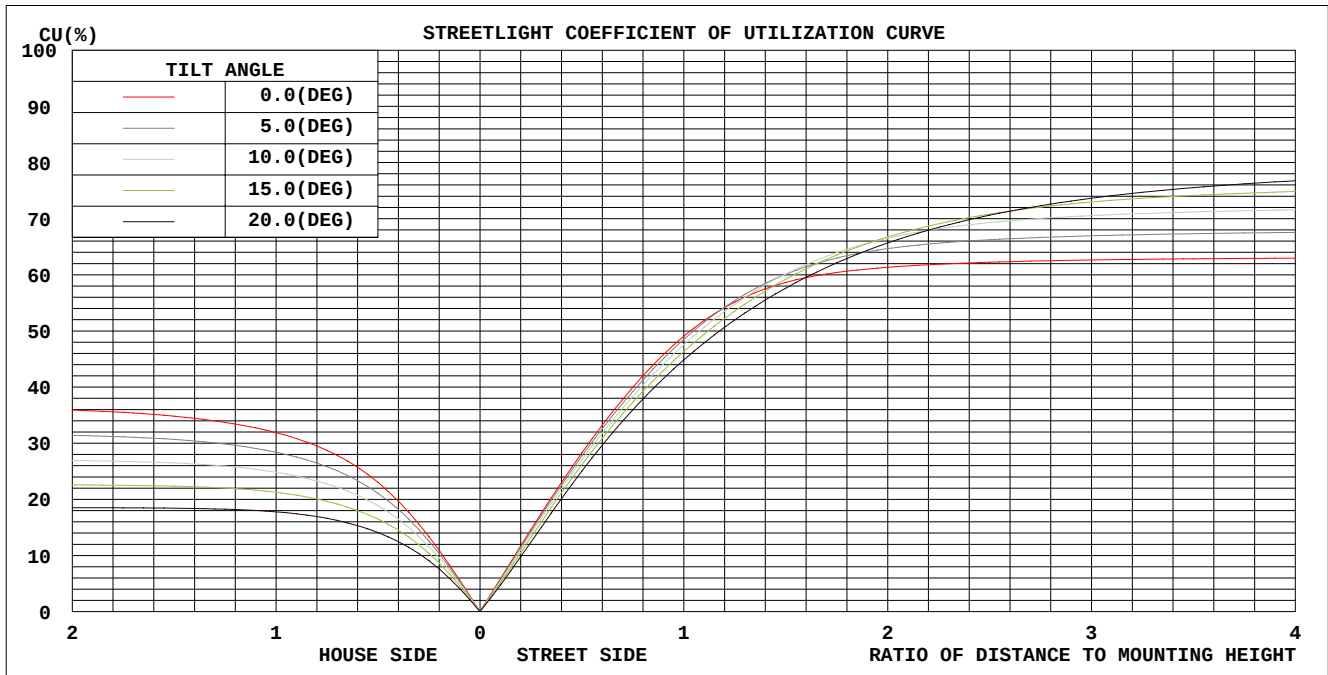
Classification:

IES:Type II - Medium
CIE:Average - Long
IES:Semi cut-off
CIE:Non-cut-off
Max.At80:124.2cd/klm
Max.At90:0cd/klm
Max.80-90:124.2cd/klm
NRB 5101:Limited[8.9%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1488
90%	1339
80%	1190
70%	1042
60%	893
50%	744
40%	595
30%	446
20%	298
10%	149
5%	74

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [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: 2023-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
Humidity: 65.0%
Test Distance: 7.682m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:219.4V I:0.0947A P:20.35W PF:0.9792 Freq:60.01Hz Lamp Flux:2888.4x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	HEIGHT:3.6kg
SPEC.:AOK-20WiLA-NVO-L3-00-3070-T201-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:

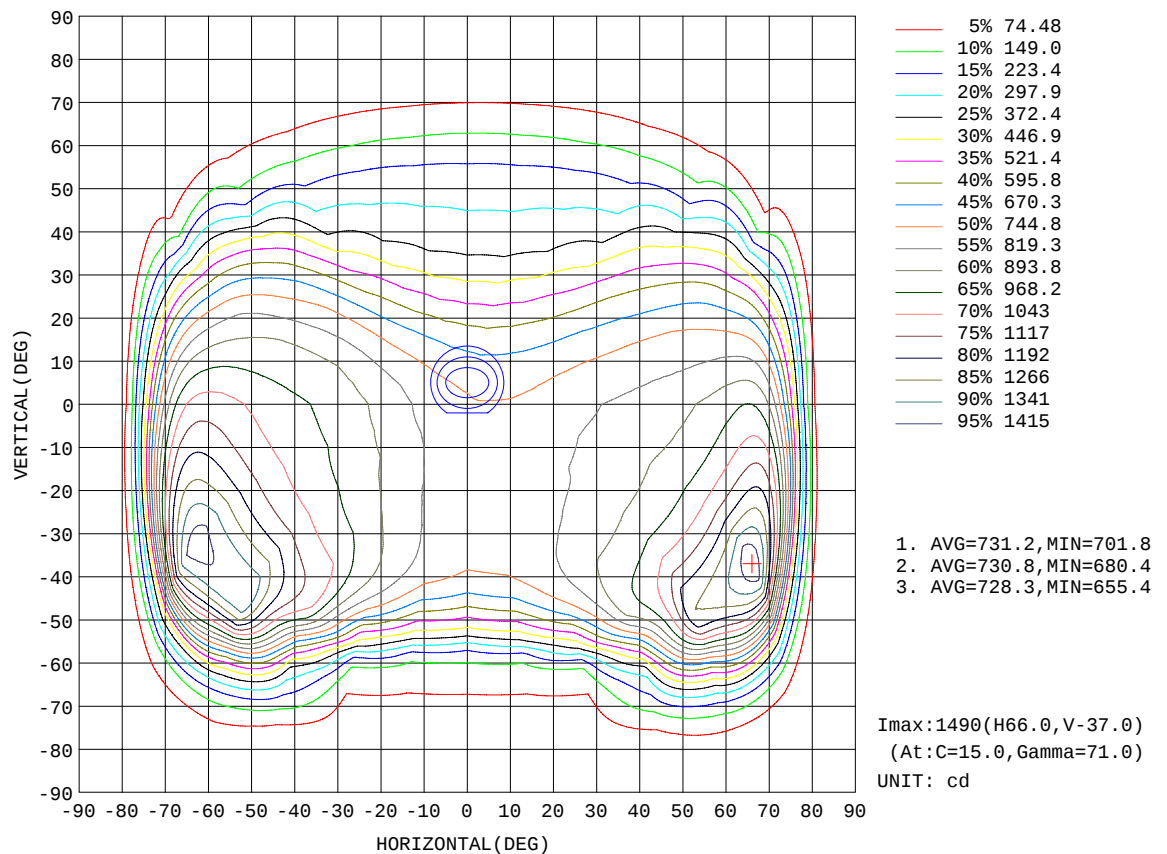
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	ϕ zone	ϕ total	%lum,lamp
10	751.0	768.0	778.8	801.0	800.0	743.6	692.3	707.0	0- 10	72.13	72.13	2.5,2.5
20	780.7	783.9	775.3	846.4	869.0	711.1	570.0	649.7	10- 20	213.5	285.6	9.89,9.89
30	812.1	808.1	773.4	901.9	936.3	642.3	426.6	569.5	20- 30	343.4	629.0	21.8,21.8
40	842.0	854.6	729.3	978.0	980.9	525.4	328.3	464.1	30- 40	455.5	1084	37.5,37.5
50	875.1	924.4	502.5	1069	1030	359.0	267.6	341.1	40- 50	539.3	1624	56.2,56.2
60	938.5	840.0	148.5	916.5	1079	220.0	179.1	227.8	50- 60	557.8	2182	75.5,75.5
70	884.2	309.2	62.04	325.6	838.3	77.62	73.47	88.83	60- 70	470.0	2652	91.8,91.8
80	100.6	67.30	17.57	50.92	48.29	14.13	15.93	16.03	70- 80	221.6	2873	99.5,99.5
90	0	0	0	0	0	0	0	0	80- 90	15.33	2888	100,100
100	0	0	0	0	0	0	0	0	90-100	0	2888	100,100
110	0	0	0	0	0	0	0	0	100-110	0	2888	100,100
120	0	0	0	0	0	0	0	0	110-120	0	2888	100,100
130	0	0	0	0	0	0	0	0	120-130	0	2888	100,100
140	0	0	0	0	0	0	0	0	130-140	0	2888	100,100
150	0	0	0	0	0	0	0	0	140-150	0	2888	100,100
160	0	0	0	0	0	0	0	0	150-160	0	2888	100,100
170	0	0	0	0	0	0	0	0	160-170	0	2888	100,100
180	0	0	0	0	0	0	0	0	170-180	0	2888	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:2023-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
 Humidity:65.0%
 Test Distance:7.682m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

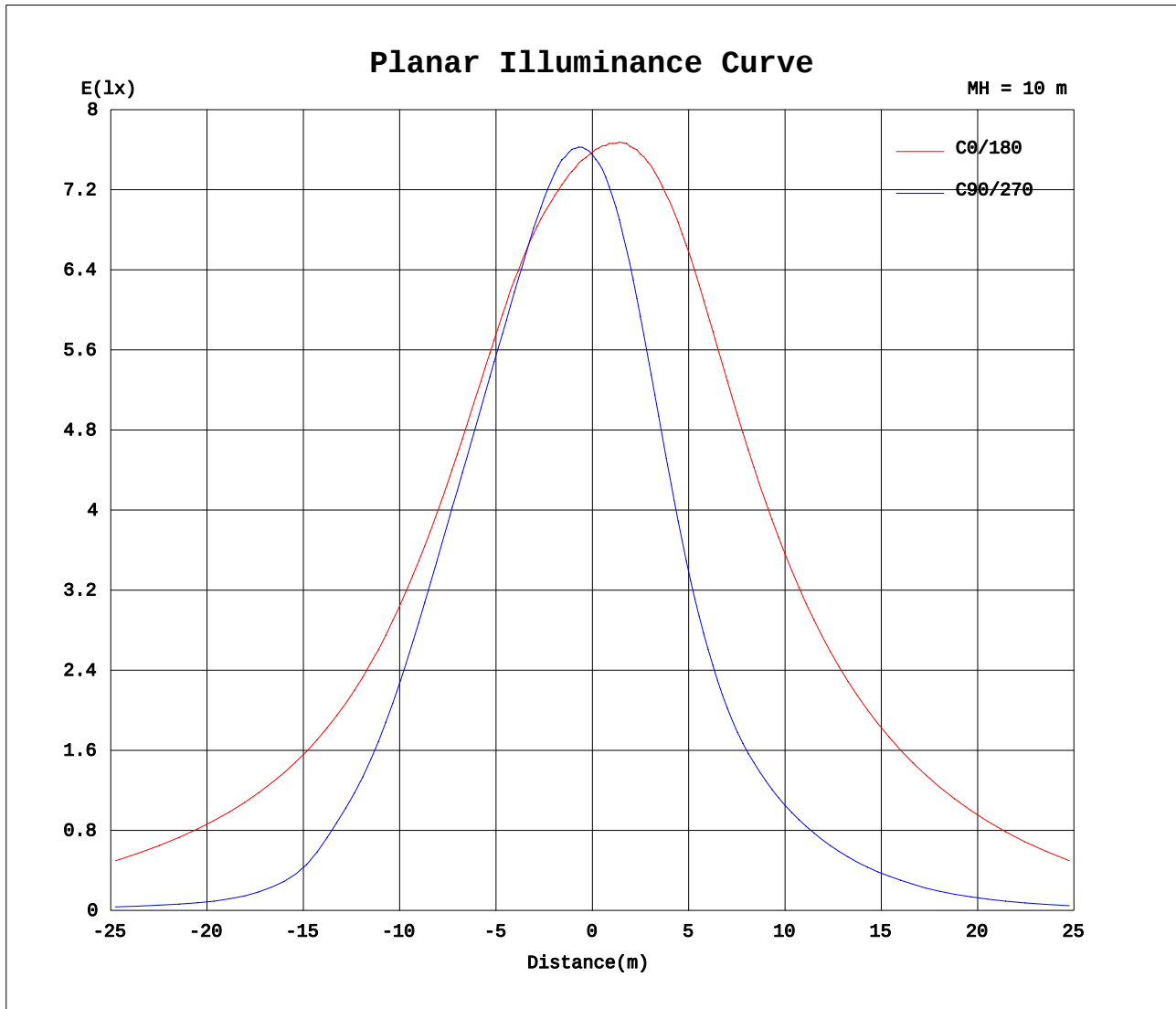
Test:U:219.4V I:0.0947A P:20.35W PF:0.9792 Freq:60.01Hz Lamp Flux:2888.4x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-20WiLA-NVO-L3-00-3070-T201-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-06-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [K=1.0000]
Remarks:

Planar Illuminance Curve



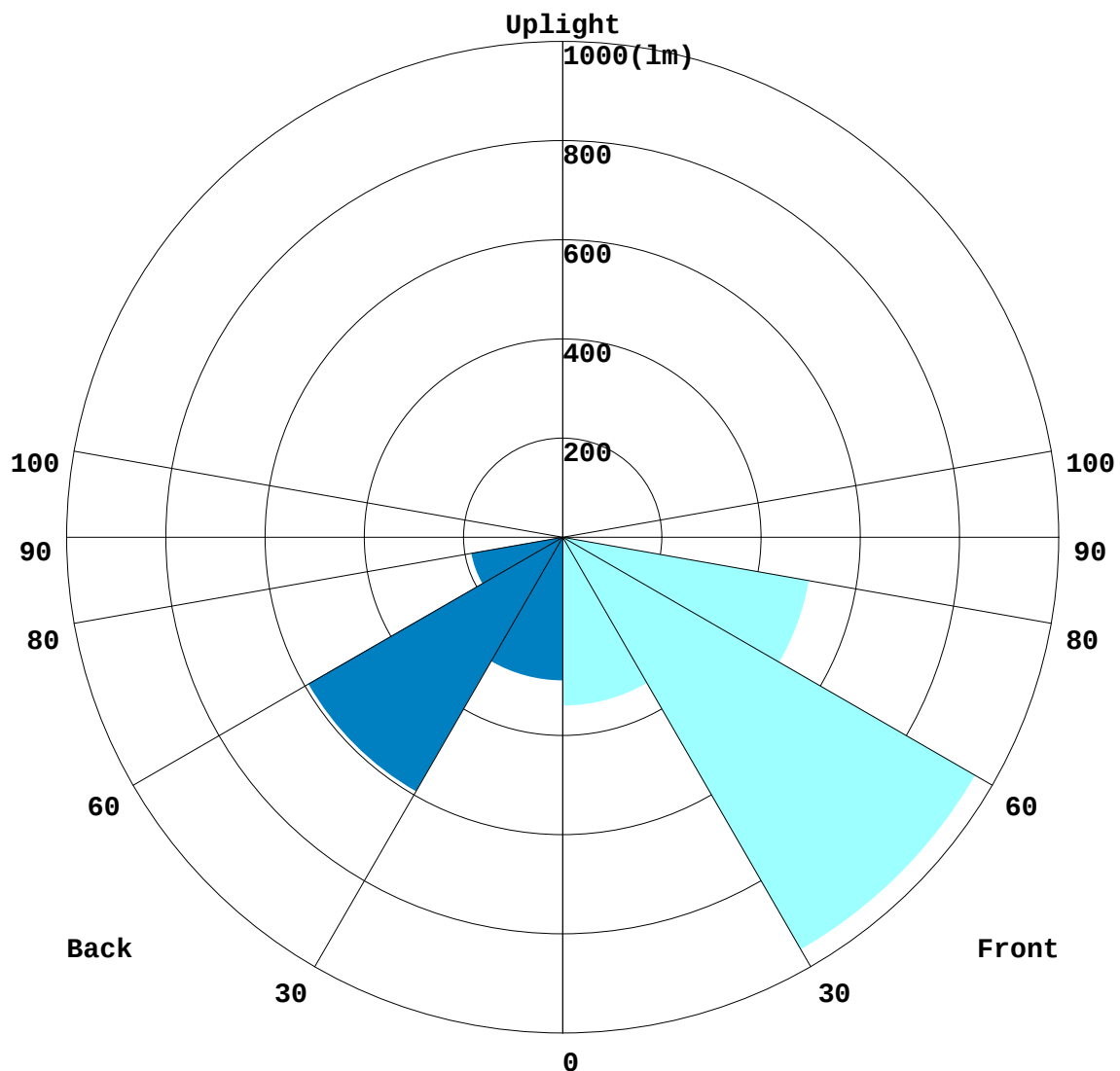
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
Humidity: 65.0%
Test Distance: 7.682m [K=1.0000]
Remarks:

LCS REPORT

Test:U:219.4V I:0.0947A P:20.35W PF:0.9792 Freq:60.01Hz Lamp Flux:2888.4x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-20WiLA-NVO-L3-00-3070-T201-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [K=1.0000]
Remarks:

BUG REPORT

Test:U:219.4V I:0.0947A P:20.35W PF:0.9792 Freq:60.01Hz Lamp Flux:2888.4x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-20WiLA-NVO-L3-00-3070-T201-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	339.92	11.8
FM - Front-Medium(30-60)	960.36	33.2
FH - Front-High(60-80)	504.63	17.5
FVH - Front-Very High(80-90)	12.447	0.4
Total Forward Light	1817.4	62.9

BL - Back-Low(0-30)	289.03	10.0
BM - Back-Medium(30-60)	592.24	20.5
BH - Back-High(60-80)	186.88	6.5
BVH - Back-Very High(80-90)	2.8841	0.1
Total Back Light	1071	37.1

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	1071	0	1071
Street Side	1817.4	0	1817.4

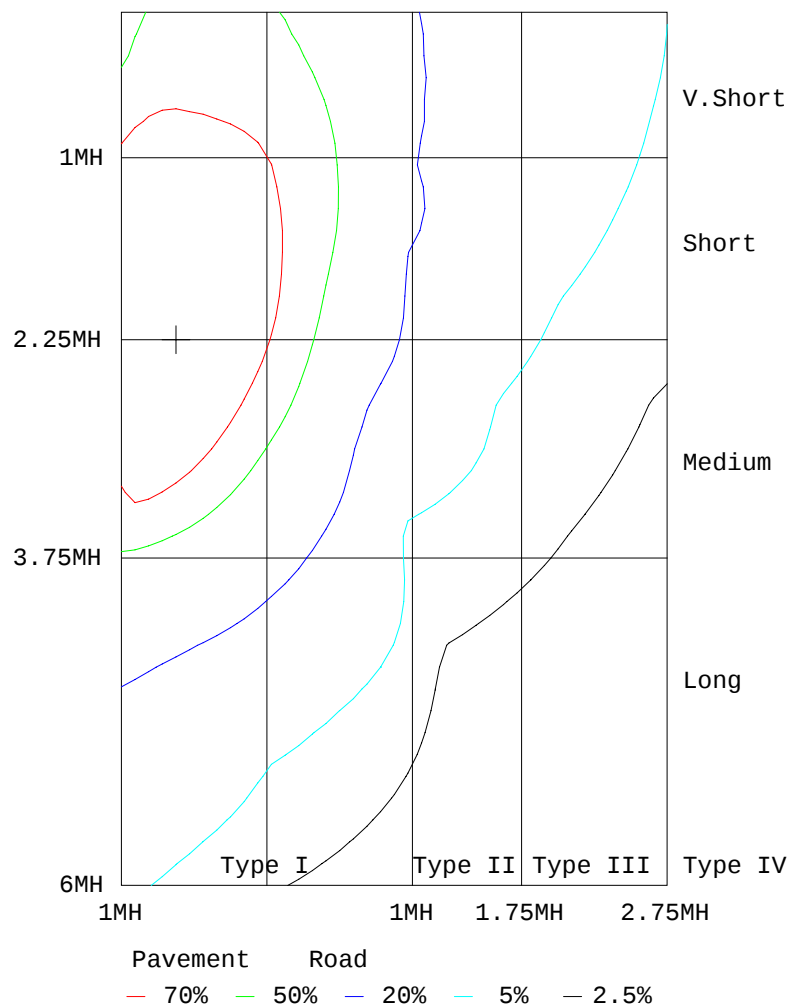
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
 Humidity:65.0%
 Test Distance:7.682m [K=1.0000]
 Remarks:

ROAD ISOCANDELA REPORT

Test:U:219.4V I:0.0947A P:20.35W PF:0.9792 Freq:60.01Hz Lamp Flux:2888.4x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Light:3.6kg
SPEC.:AOK-20WiLA-NVO-L3-00-3070-T201-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-06-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.4V I:0.0947A P:20.35W PF:0.9792 Freq:60.01Hz Lamp Flux:2888.4x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	WEIGHT:3.6kg
SPEC.:AOK-20WiLA-NVO-L3-00-3070-T201-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	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	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755
5	748	754	756	760	764	768	770	775	776	777	778	776	773	768	758	751	744	736	731
10	751	760	764	768	772	775	779	789	794	801	806	805	800	788	767	744	722	703	692
15	764	774	778	775	775	775	779	793	808	823	839	840	833	813	776	732	692	656	638
20	781	794	793	784	777	772	775	794	818	846	872	880	869	839	783	711	647	595	570
25	797	812	808	794	781	773	774	797	830	871	906	916	905	866	786	681	589	522	496
30	812	831	823	808	789	775	773	800	849	902	937	950	936	888	784	642	525	453	427
35	827	851	844	828	800	770	764	799	867	940	970	980	960	899	772	591	459	389	368
40	842	871	871	855	809	750	729	776	881	978	1011	1011	981	902	742	525	392	343	328
45	858	899	905	888	799	688	642	704	870	1027	1061	1050	1004	897	698	447	344	310	297
50	875	932	958	924	742	566	503	566	791	1069	1139	1106	1030	876	632	359	301	276	268
55	902	989	1038	938	595	397	310	385	600	1071	1246	1188	1058	830	533	290	254	234	229
60	939	1088	1151	840	387	173	149	162	360	916	1364	1310	1079	729	386	220	199	182	179
65	967	1257	1258	560	137	90.8	86.1	89.2	132	581	1379	1436	1042	550	203	146	128	123	126
70	884	1473	1080	309	74.2	64.9	62.0	64.0	73.6	326	973	1414	838	287	100	77.6	74.1	72.1	73.5
75	541	1239	541	190	44.6	41.1	38.8	40.0	42.8	183	413	820	387	61.9	45.7	36.1	38.0	38.0	38.8
80	101	359	182	67.3	21.6	20.0	17.6	18.9	20.1	50.9	120	142	48.3	19.6	16.9	14.1	15.5	16.0	15.9
85	6.47	30.6	27.4	12.2	5.64	5.18	3.14	4.48	4.85	7.28	12.8	9.90	3.24	2.07	1.94	1.88	2.47	2.23	2.33
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:2023-06-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.4V I:0.0947A P:20.35W PF:0.9792 Freq:60.01Hz Lamp Flux:2888.4x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-20WiLA-NVO-L3-00-3070-T201-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345														
0	755	755	755	755	755														
5	729	729	731	738	744														
10	689	696	707	724	738														
15	637	653	682	714	743														
20	573	603	650	705	751														
25	502	545	612	693	759														
30	434	483	569	678	765														
35	375	422	523	657	766														
40	333	366	464	631	766														
45	302	328	402	591	760														
50	272	293	341	540	745														
55	234	252	286	464	717														
60	184	203	228	350	656														
65	129	139	160	214	533														
70	76.4	81.3	88.8	116	307														
75	39.5	41.5	40.9	52.3	76.5														
80	16.2	17.2	16.0	18.7	24.2														
85	2.36	2.99	2.52	2.77	3.18														
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:2023-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
 Humidity:65.0%
 Test Distance:7.682m [K=1.0000]
 Remarks: