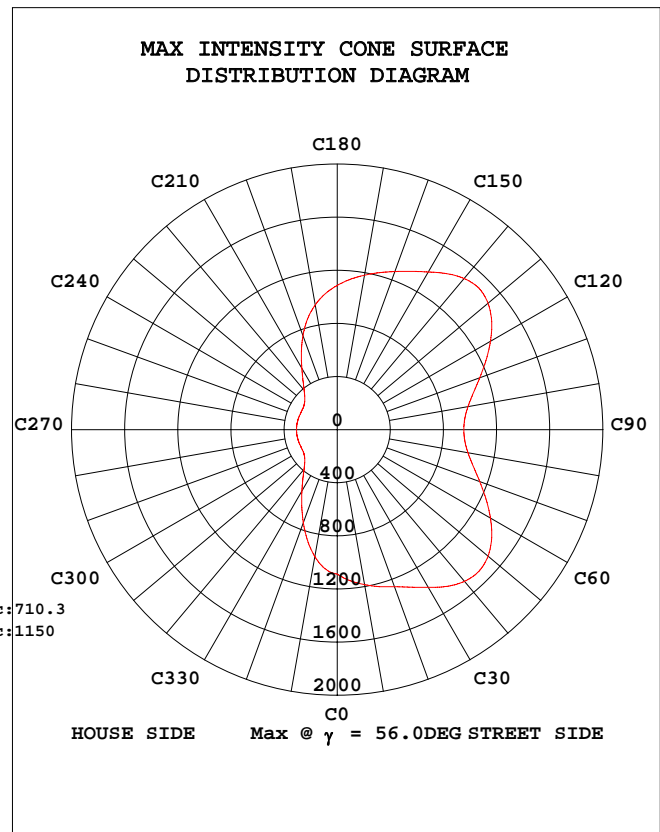
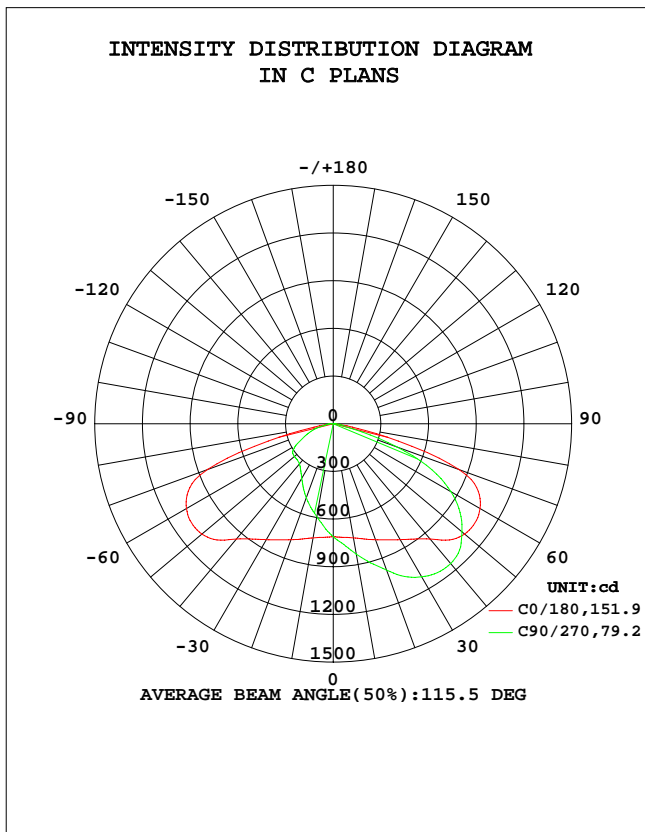


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:43.17V I:0.4600A P:19.86W PF:1.000 Freq:0Hz Lamp Flux:3839.18x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T402-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 193.33 lm/W			
MODEL	5050	I _{max} (cd)	1508	η street_up(%)	0.0
NOMINAL POWER(W)	20	LOR(%)	100.0	η street_down(%)	69.4
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	3839	η house_up(%)	0.0
NOMINAL FLUX(lm)	3839.18	MAXIMUM @(C,γ)	135,56.0	η house_down(%)	30.6
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220	η down(%)	100.0	SLI	18.428

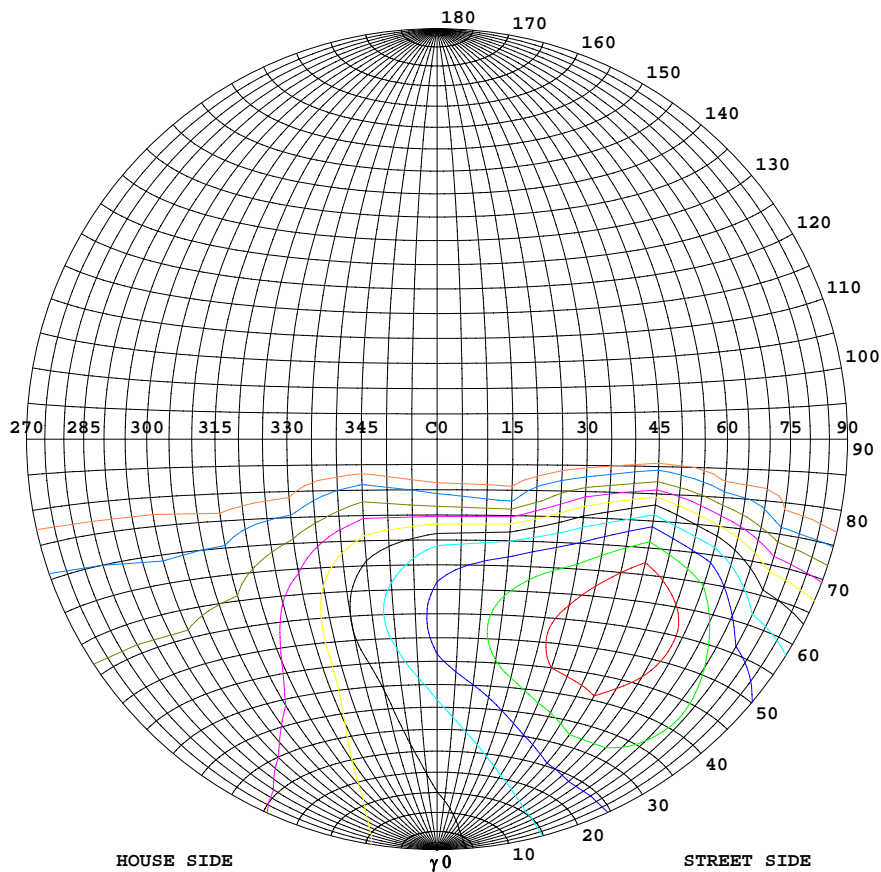


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-08-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.802m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:43.17V I:0.4600A P:19.86W PF:1.000 Freq:0Hz Lamp Flux:3839.18x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T402-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:



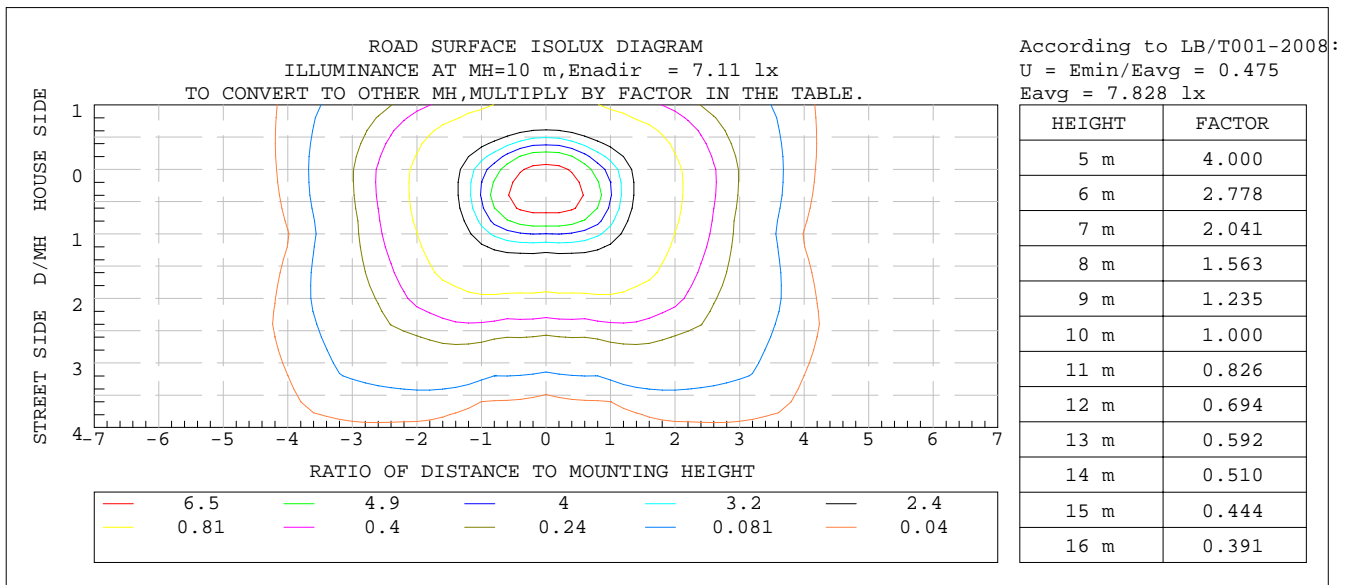
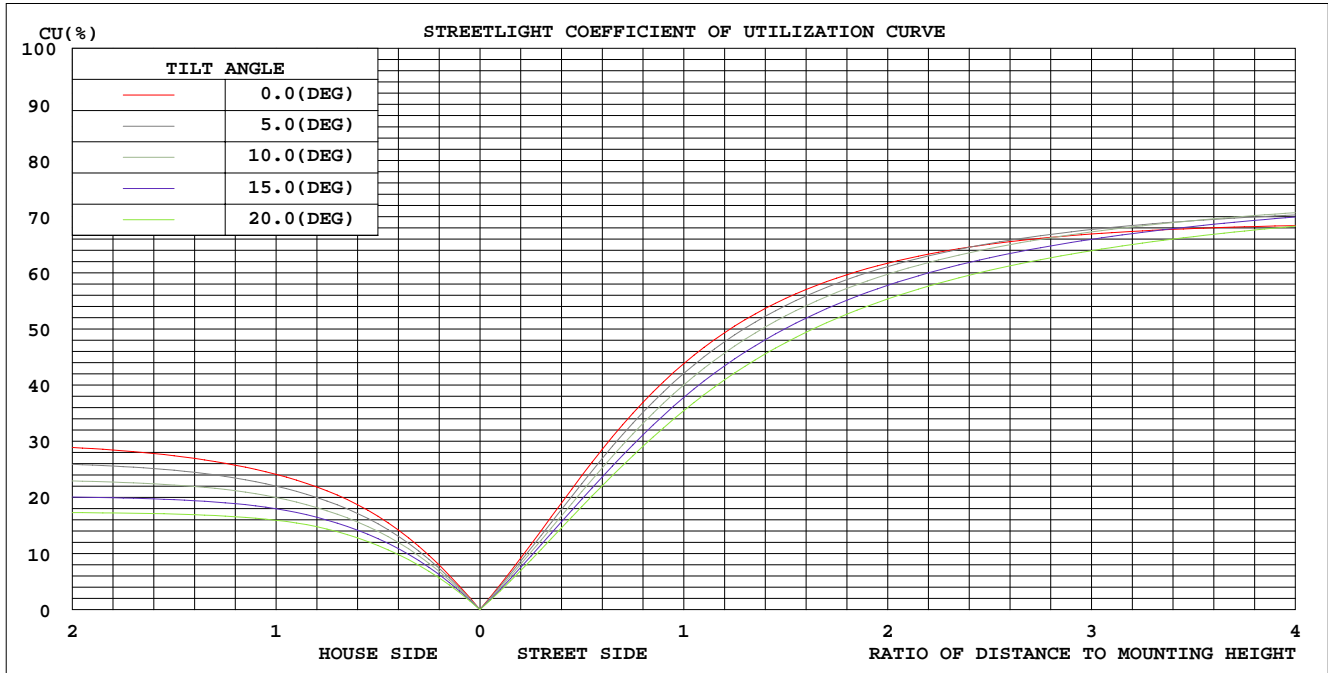
Classification:

IES:Type IV - Short
CIE:Broad - Short
IES:Semi cut-off
CIE:Non-cut-off
Max.At80:138.9cd/klm
Max.At90:0cd/klm
Max.80-90:138.9cd/klm
NRB 5101:Semi limited[16.0%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1508
90%	1357
80%	1207
70%	1056
60%	905
50%	754
40%	603
30%	452
20%	302
10%	151
5%	75

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-08-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.802m [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: 2020-08-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.802m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:43.17V I:0.4600A P:19.86W PF:1.000 Freq:0Hz Lamp Flux:3839.18x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T402-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:

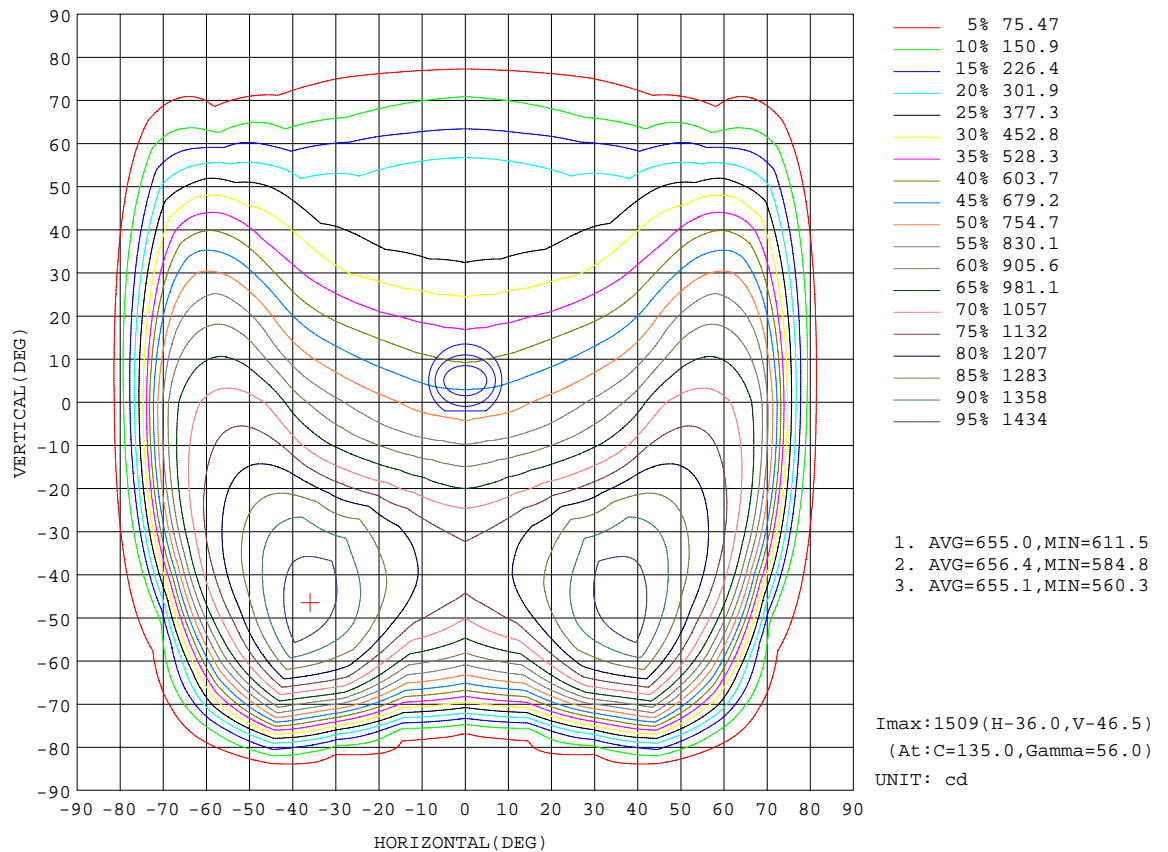
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum,lamp
10	729.3	805.3	832.6	805.3	729.3	641.1	594.4	641.1	0- 10	68.39	68.39	1.78,1.78
20	776.6	950.0	979.6	950.0	776.6	582.2	496.1	582.2	10- 20	210.6	279.0	7.27,7.27
30	842.3	1148	1112	1148	842.3	518.2	397.5	518.2	20- 30	365.5	644.5	16.8,16.8
40	947.3	1345	1149	1345	947.3	445.8	331.2	445.8	30- 40	528.2	1173	30.5,30.5
50	1080	1476	1057	1476	1080	386.3	319.9	386.3	40- 50	687.5	1860	48.5,48.5
60	1066	1493	855.0	1493	1066	312.3	271.0	312.3	50- 60	790.6	2651	69,69
70	838.9	1257	425.8	1257	838.9	158.5	159.4	158.5	60- 70	738.6	3389	88.3,88.3
80	123.4	533.2	56.38	533.2	123.4	50.90	48.57	50.90	70- 80	394.0	3783	98.5,98.5
90	0	0	0	0	0	0	0	0	80- 90	55.76	3839	100,100
100	0	0	0	0	0	0	0	0	90-100	0	3839	100,100
110	0	0	0	0	0	0	0	0	100-110	0	3839	100,100
120	0	0	0	0	0	0	0	0	110-120	0	3839	100,100
130	0	0	0	0	0	0	0	0	120-130	0	3839	100,100
140	0	0	0	0	0	0	0	0	130-140	0	3839	100,100
150	0	0	0	0	0	0	0	0	140-150	0	3839	100,100
160	0	0	0	0	0	0	0	0	150-160	0	3839	100,100
170	0	0	0	0	0	0	0	0	160-170	0	3839	100,100
180	0	0	0	0	0	0	0	0	170-180	0	3839	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:2020-08-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.802m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

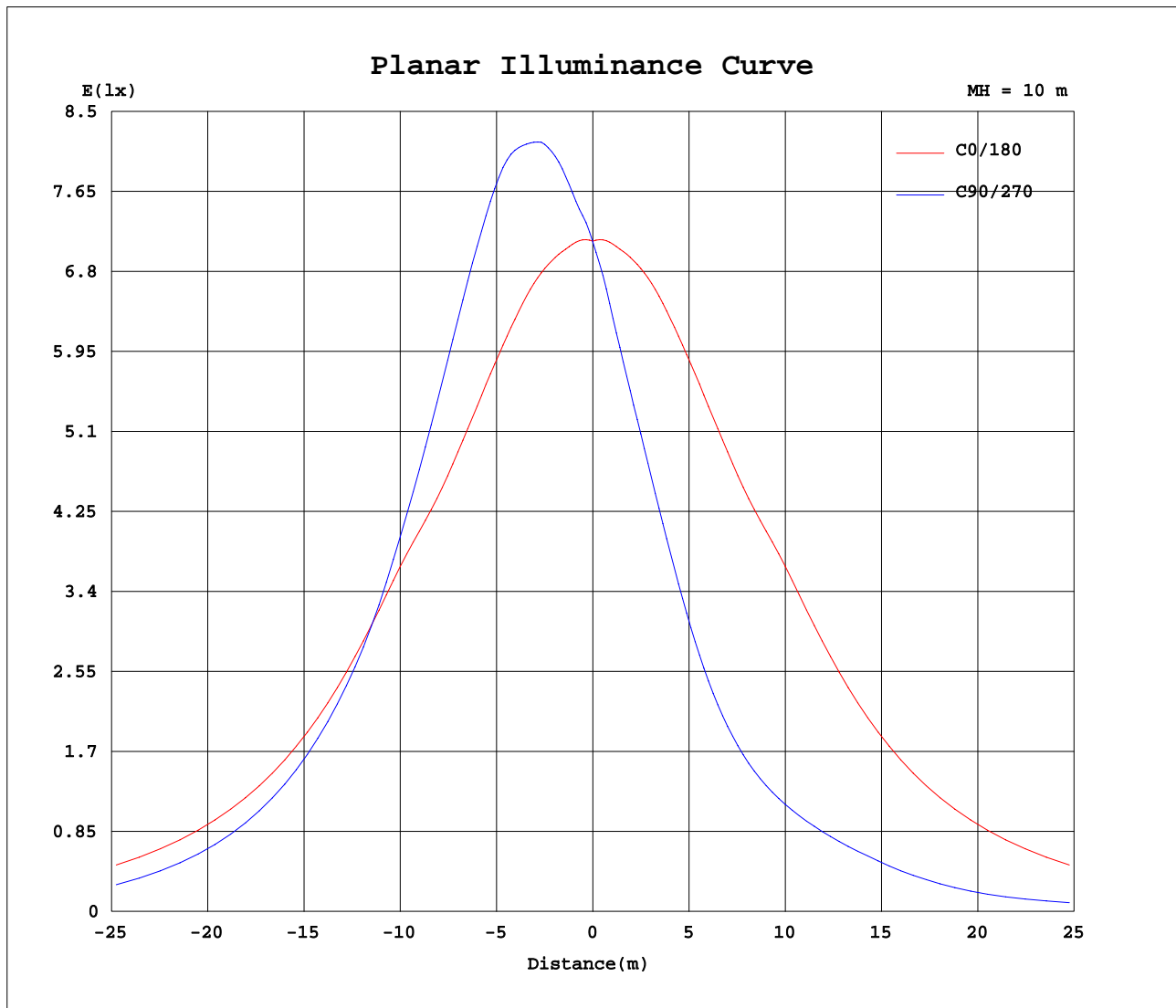
Test:U:43.17V I:0.4600A P:19.86W PF:1.000 Freq:0Hz Lamp Flux:3839.18x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T402-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-08-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.802m [K=1.0000]
Remarks:

Planar Illuminance Curve



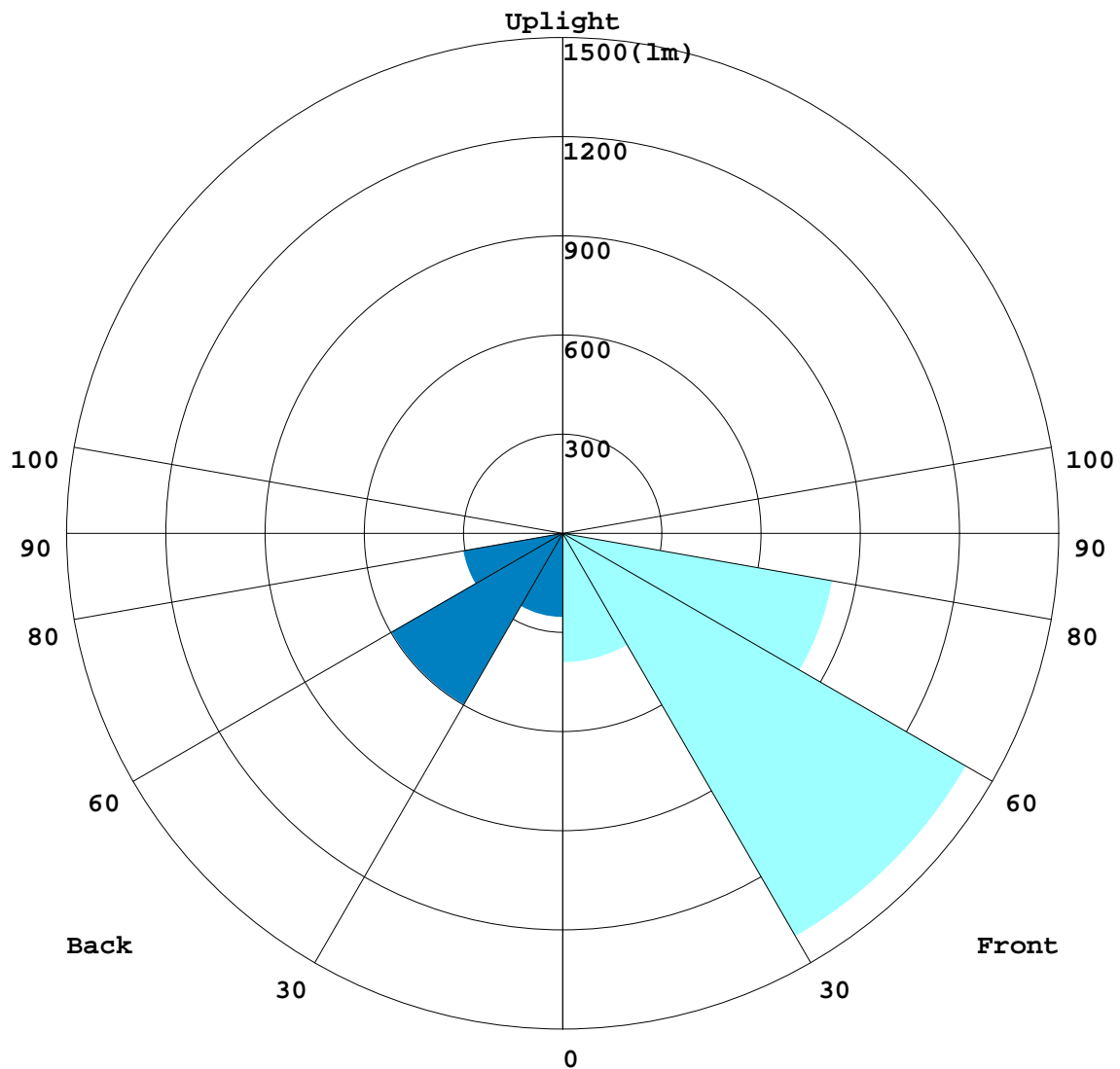
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2020-08-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.802m [K=1.0000]
Remarks:

LCS REPORT

Test:U:43.17V I:0.4600A P:19.86W PF:1.000 Freq:0Hz Lamp Flux:3839.18x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T402-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:2020-08-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.802m [K=1.0000]
Remarks:

BUG REPORT

Test:U:43.17V I:0.4600A P:19.86W PF:1.000 Freq:0Hz Lamp Flux:3839.18x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T402-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)	390.63	10.2
FM - Front-Medium(30-60)	1408.1	36.7
FH - Front-High(60-80)	828.11	21.6
FVH - Front-Very High(80-90)	38.789	1.0
Total Forward Light	2665.7	69.4

BL - Back-Low(0-30)	253.84	6.6
BM - Back-Medium(30-60)	598.2	15.6
BH - Back-High(60-80)	304.51	7.9
BVH - Back-Very High(80-90)	16.975	0.4
Total Back Light	1173.5	30.6

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

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1173.5	0	1173.5
Street Side	2665.7	0	2665.7

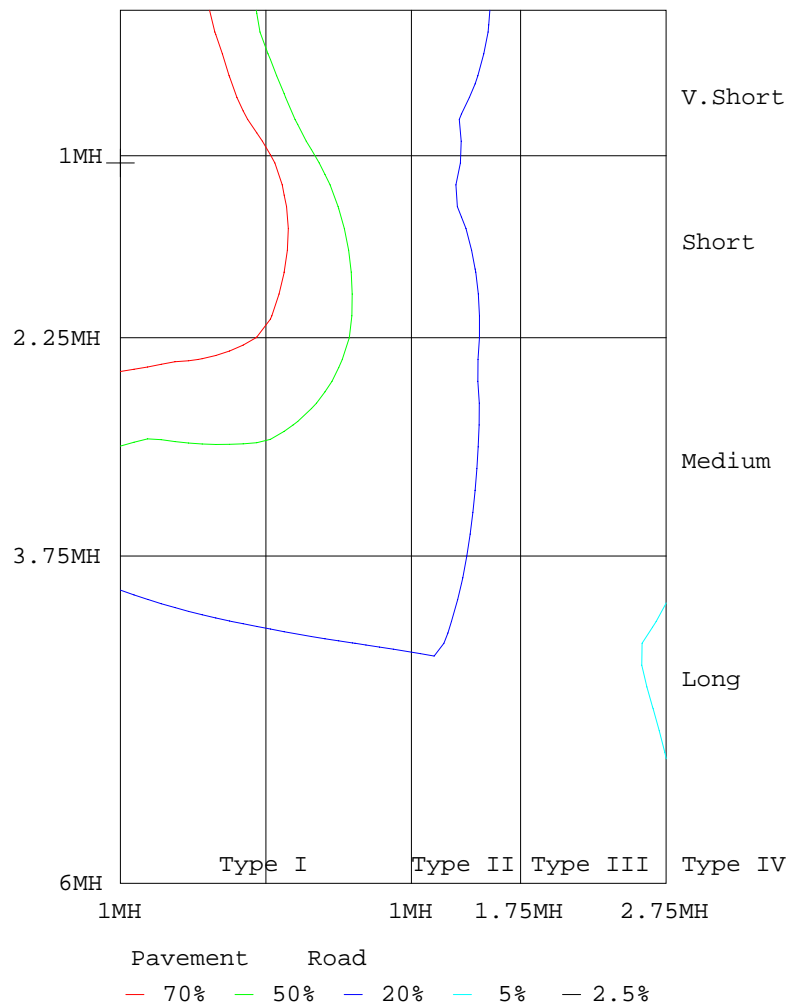
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-08-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.802m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:43.17V I:0.4600A P:19.86W PF:1.000 Freq:0Hz Lamp Flux:3839.18x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T402-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:2020-08-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.802m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:43.17V I:0.4600A P:19.86W PF:1.000 Freq:0Hz Lamp Flux:3839.18x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T402-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	710	710	710	710	710	710	710	710	710	710	710	710	710	710	710	710	710	710	710
5	717	731	743	753	760	763	762	763	760	753	743	731	717	703	690	676	665	656	653
10	729	755	780	805	825	834	833	834	825	805	780	755	729	700	669	641	618	601	594
15	751	789	831	870	898	908	906	908	898	870	831	789	751	705	656	612	577	555	545
20	777	832	893	950	981	986	980	986	981	950	893	832	777	712	643	582	538	508	496
25	806	882	966	1042	1075	1072	1061	1072	1075	1042	966	882	806	719	630	552	496	460	446
30	842	941	1047	1148	1169	1140	1112	1140	1169	1148	1047	941	842	729	615	518	452	413	397
35	886	1009	1146	1265	1238	1179	1143	1179	1238	1265	1146	1009	886	742	597	480	409	372	357
40	947	1103	1268	1345	1274	1196	1149	1196	1274	1345	1268	1103	947	761	579	446	374	342	331
45	1034	1197	1354	1409	1311	1190	1125	1190	1311	1409	1354	1197	1034	797	563	415	349	328	321
50	1080	1231	1388	1476	1332	1157	1057	1157	1332	1476	1388	1231	1080	847	553	386	330	321	320
55	1088	1229	1378	1507	1335	1081	974	1081	1335	1507	1378	1229	1088	866	538	355	309	310	312
60	1066	1193	1327	1493	1295	960	855	960	1295	1493	1327	1193	1066	845	506	312	277	270	271
65	1007	1112	1227	1418	1189	792	685	792	1189	1418	1227	1112	1007	776	439	250	207	202	207
70	839	897	1058	1257	983	541	426	541	983	1257	1058	897	839	640	325	159	139	151	159
75	423	421	773	985	614	219	137	219	614	985	773	421	423	431	167	89.7	91.8	102	109
80	123	88.9	366	533	207	69.5	56.4	69.5	207	533	366	88.9	123	198	62.1	50.9	49.0	51.2	48.6
85	13.7	20.1	56.2	106	47.0	36.0	28.0	36.0	47.0	106	56.2	20.1	13.7	32.2	21.3	22.4	28.2	32.0	32.4
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:2020-08-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.802m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:43.17V I:0.4600A P:19.86W PF:1.000 Freq:0Hz Lamp Flux:3839.18x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-20WSE-DC-L5-00-5070-T402-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm	Shielding Angle:

Table--2

UNIT: cd

C(DEC)	285	300	315	330	345														
γ (DEC)																			
0	710	710	710	710	710														
5	656	665	676	690	703														
10	601	618	641	669	700														
15	555	577	612	656	705														
20	508	538	582	643	712														
25	460	496	552	630	719														
30	413	452	518	615	729														
35	372	409	480	597	742														
40	342	374	446	579	761														
45	328	349	415	563	797														
50	321	330	386	553	847														
55	310	309	355	538	866														
60	270	277	312	506	845														
65	202	207	250	439	776														
70	151	139	159	325	640														
75	102	91.8	89.7	167	431														
80	51.2	49.0	50.9	62.1	198														
85	32.0	28.2	22.4	21.3	32.2														
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:2020-08-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
γ Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.802m [K=1.0000]
Remarks: