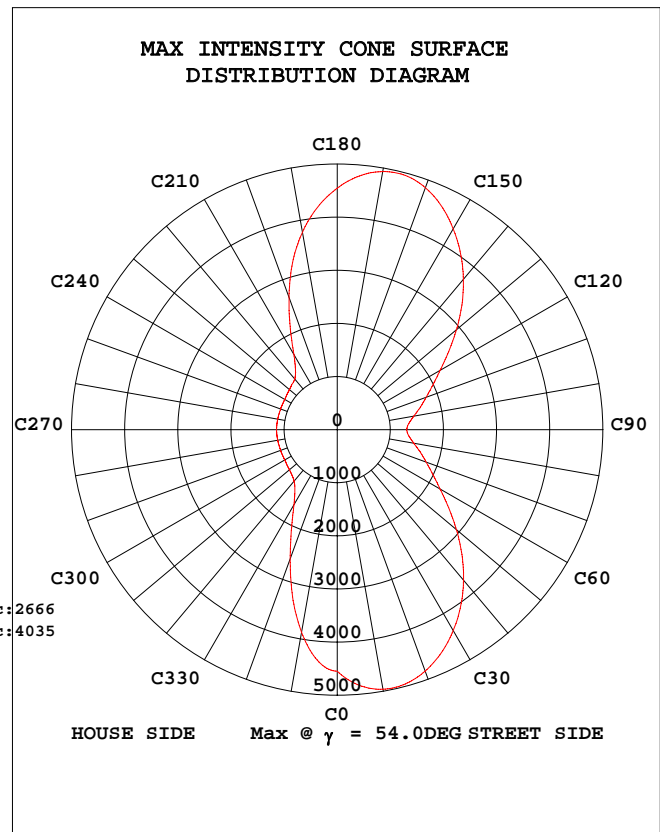
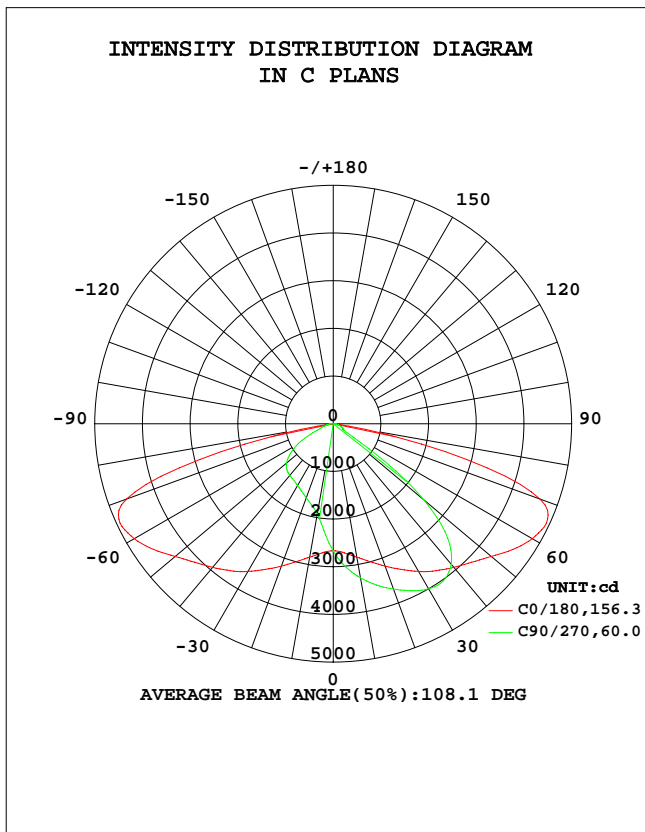


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:43.65V I:1.370A P:59.80W PF:1.000 Freq:0Hz Lamp Flux:11560.1x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-60WSE-DC-L5-00-5070-T203-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm*3	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 193.30 lm/W			
MODEL	5050	I _{max} (cd)	4955	η street_up(%)	0.0
NOMINAL POWER(W)	30	LOR(%)	100.0	η street_down(%)	64.4
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	11560	η house_up(%)	0.0
NOMINAL FLUX(lm)	11560.1	MAXIMUM @(C,γ)	165,54.0	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	21.148

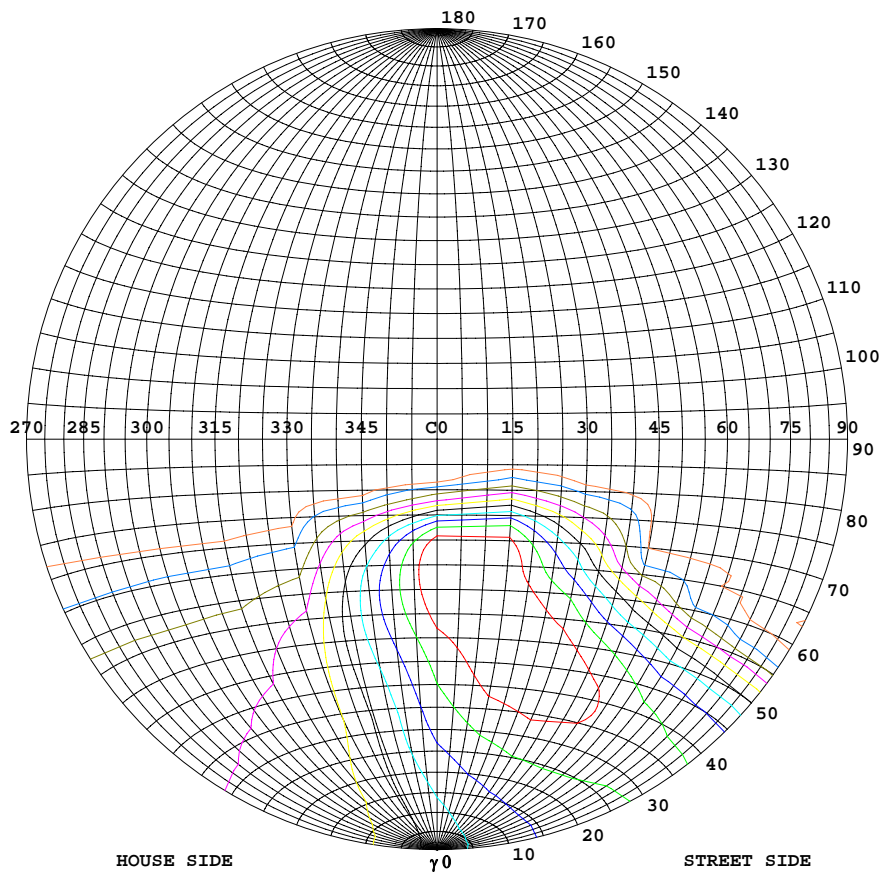


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-10-28

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:43.65V I:1.370A P:59.80W PF:1.000 Freq:0Hz Lamp Flux:11560.1x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-60WSE-DC-L5-00-5070-T203-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm*3	Shielding Angle:



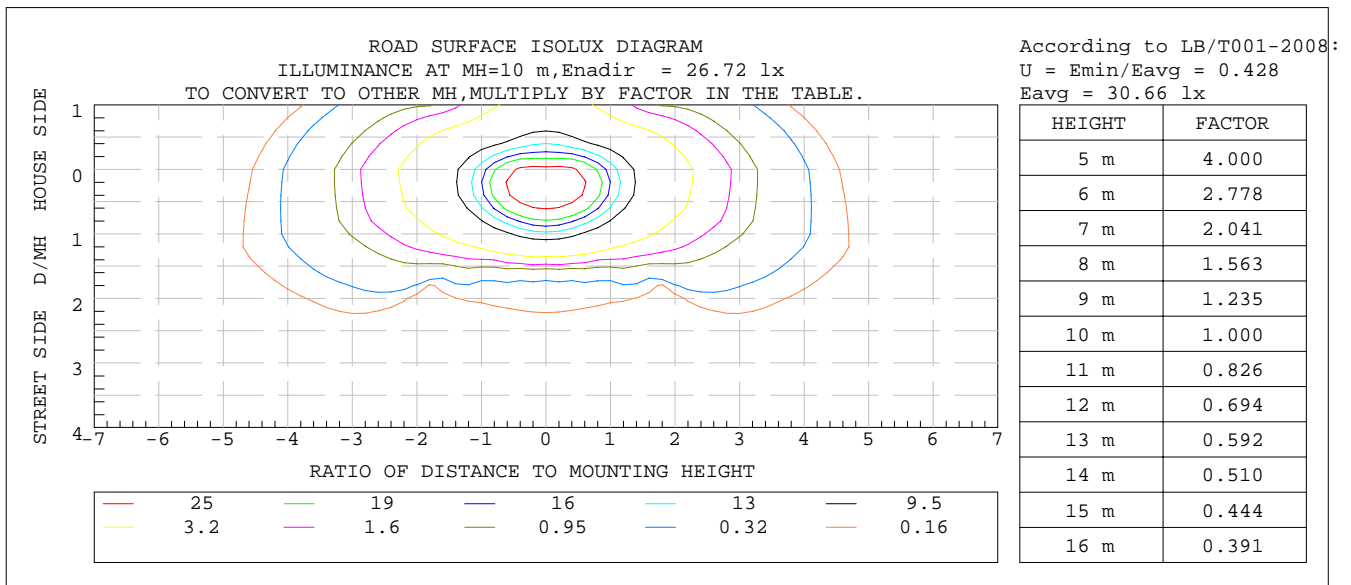
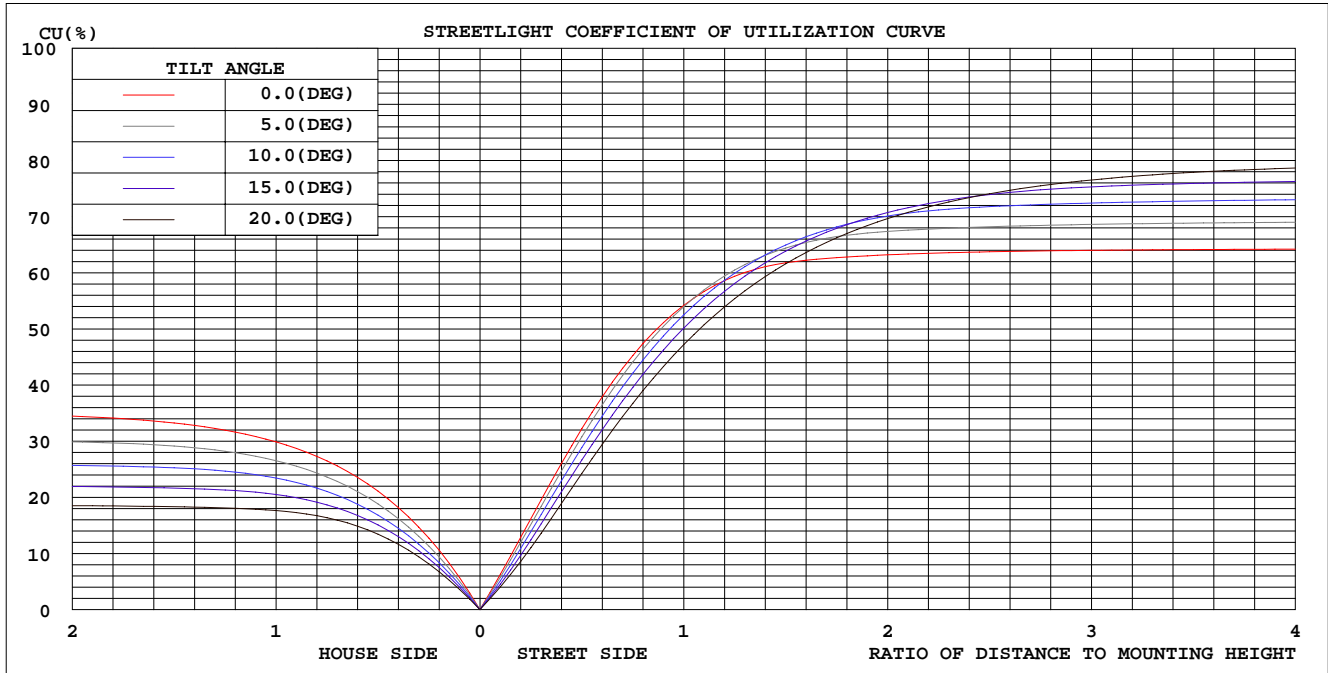
Classification:

IES:Type II - Short
CIE:Narrow - Short
IES:Semi cut-off
CIE:Non-cut-off
Max.At80:111.7cd/klm
Max.At90:0cd/klm
Max.80-90:111.7cd/klm
NRB 5101:Semi limited[24.9%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4955
90%	4460
80%	3964
70%	3469
60%	2973
50%	2478
40%	1982
30%	1487
20%	991
10%	496
5%	248

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-10-28

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: 2020-10-28

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:43.65V I:1.370A P:59.80W PF:1.000 Freq:0Hz Lamp Flux:11560.1x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-60WSE-DC-L5-00-5070-T203-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm*3	Shielding Angle:

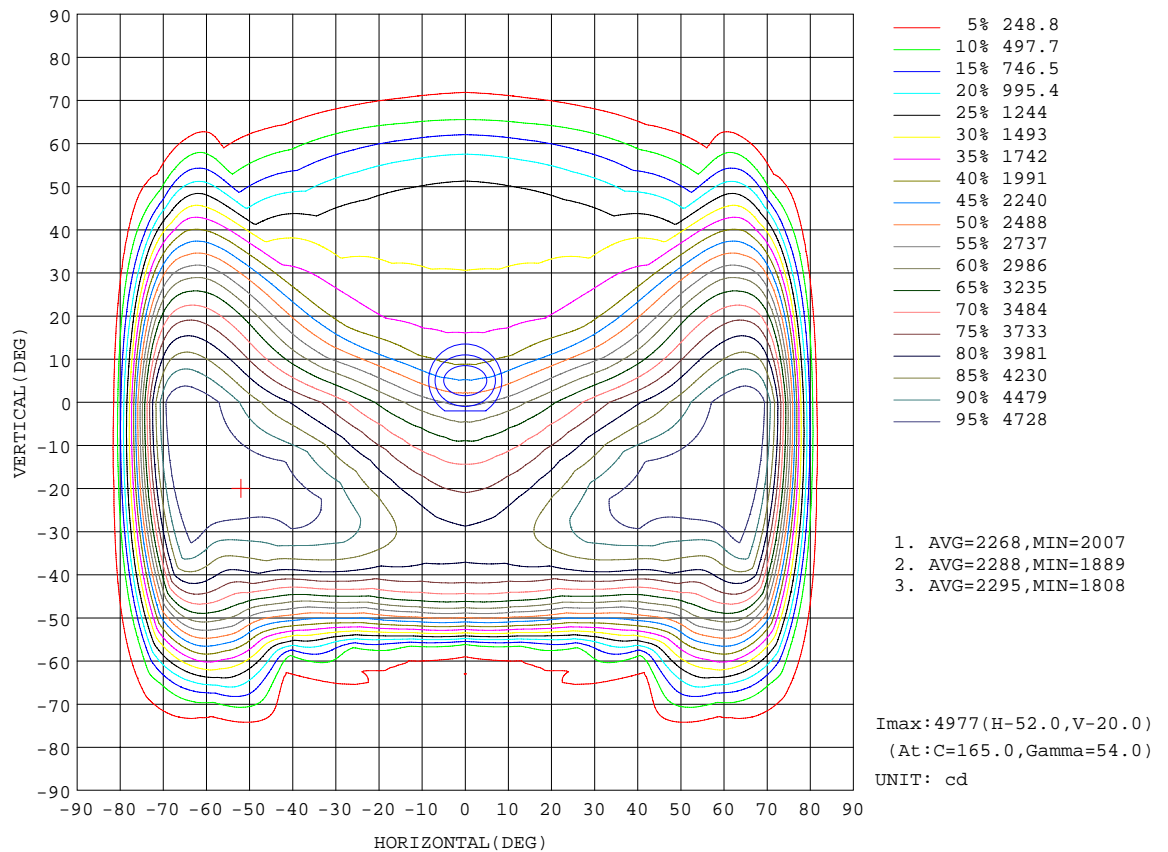
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	2840	3215	3281	3215	2840	2179	1925	2179	0- 10	256.3	256.3	2.22,2.22
20	3178	3722	3691	3722	3178	1882	1655	1882	10- 20	791.5	1048	9.06,9.06
30	3576	4254	3998	4254	3576	1699	1497	1699	20- 30	1374	2422	21,21
40	3933	4515	3849	4515	3933	1553	1414	1553	30- 40	1958	4380	37.9,37.9
50	4330	3895	2466	3895	4330	1352	1279	1352	40- 50	2352	6733	58.2,58.2
60	4819	2166	232.4	2166	4819	907.1	865.0	907.1	50- 60	2191	8924	77.2,77.2
70	4607	246.2	181.9	246.2	4607	306.0	294.8	306.0	60- 70	1672	10596	91.7,91.7
80	688.3	132.1	76.39	132.1	688.3	100.3	132.7	100.3	70- 80	876.2	11472	99.2,99.2
90	0	0	0	0	0	0	0	0	80- 90	88.36	11560	100,100
100	0	0	0	0	0	0	0	0	90-100	0	11560	100,100
110	0	0	0	0	0	0	0	0	100-110	0	11560	100,100
120	0	0	0	0	0	0	0	0	110-120	0	11560	100,100
130	0	0	0	0	0	0	0	0	120-130	0	11560	100,100
140	0	0	0	0	0	0	0	0	130-140	0	11560	100,100
150	0	0	0	0	0	0	0	0	140-150	0	11560	100,100
160	0	0	0	0	0	0	0	0	150-160	0	11560	100,100
170	0	0	0	0	0	0	0	0	160-170	0	11560	100,100
180	0	0	0	0	0	0	0	0	170-180	0	11560	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:2020-10-28

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

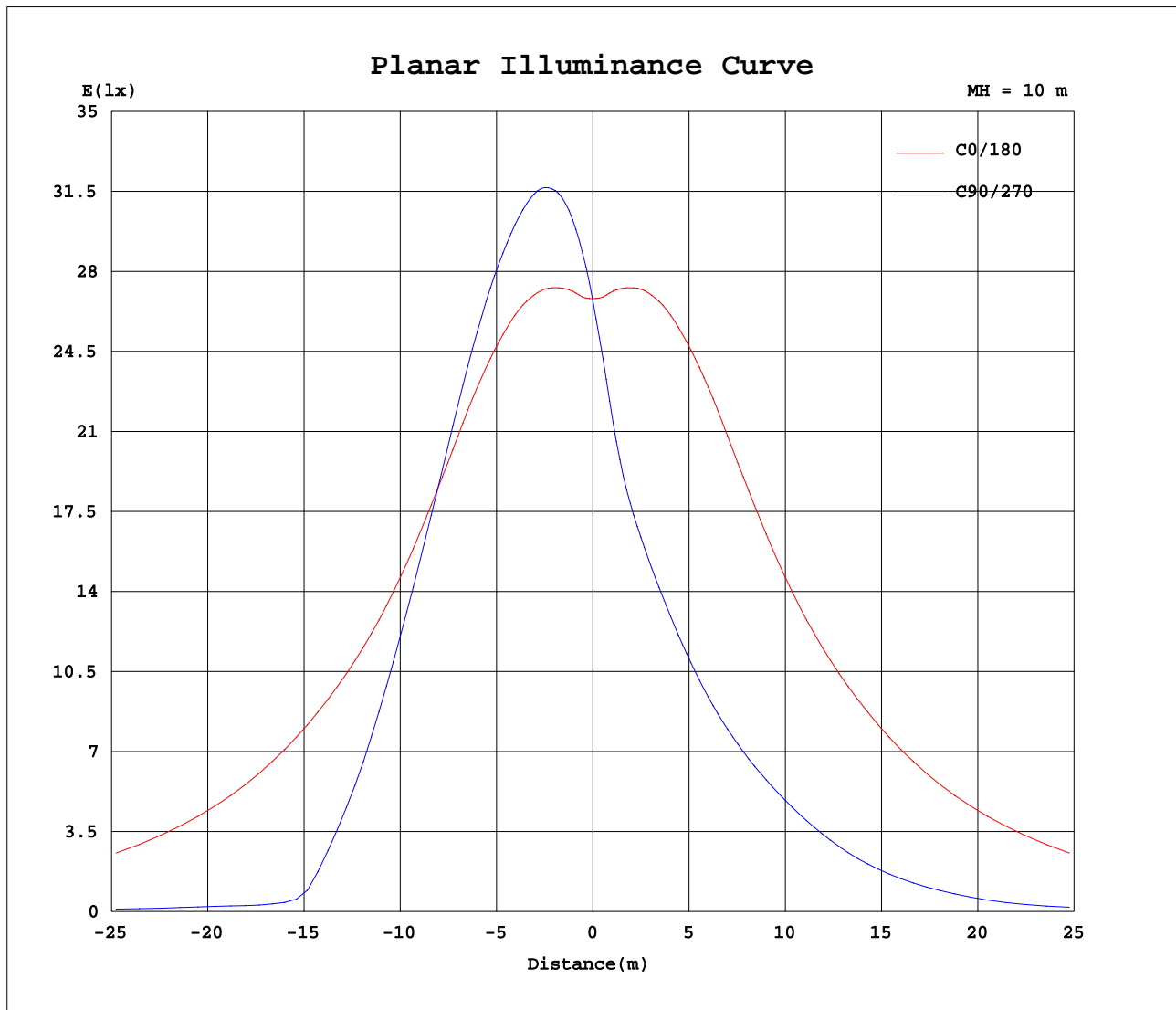
Test:U:43.65V I:1.370A P:59.80W PF:1.000 Freq:0Hz Lamp Flux:11560.1x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-60WSE-DC-L5-00-5070-T203-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm*3	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-10-28

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



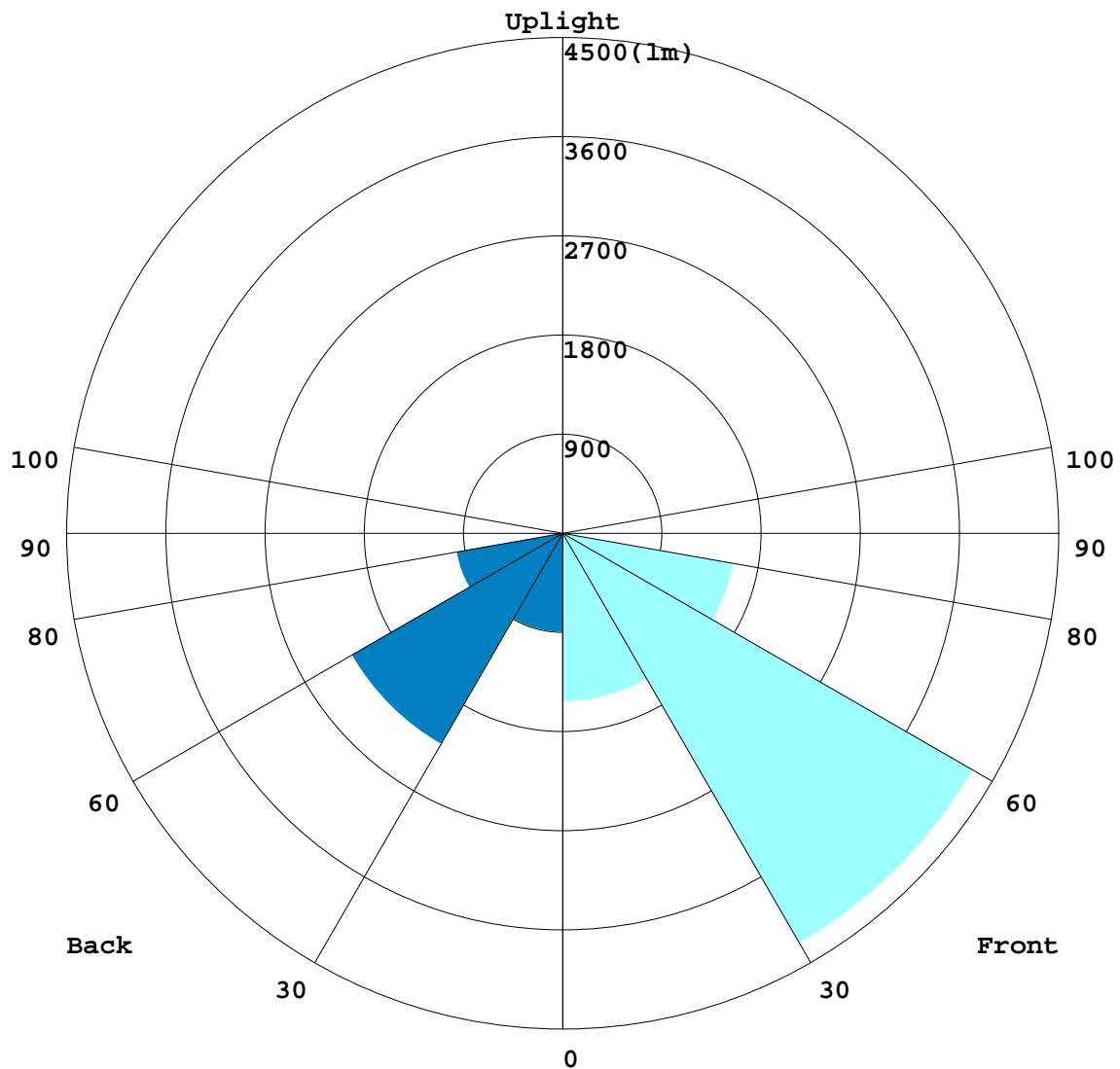
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2020-10-28

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:43.65V I:1.370A P:59.80W PF:1.000 Freq:0Hz Lamp Flux:11560.1x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-60WSE-DC-L5-00-5070-T203-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm*3	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-10-28

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:43.65V I:1.370A P:59.80W PF:1.000 Freq:0Hz Lamp Flux:11560.1x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-60WSE-DC-L5-00-5070-T203-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm*3	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1526.1	13.2
FM - Front-Medium(30-60)	4293.6	37.1
FH - Front-High(60-80)	1571.1	13.6
FVH - Front-Very High(80-90)	56.978	0.5
Total Forward Light	7447.9	64.4

BL - Back-Low(0-30)	895.94	7.8
BM - Back-Medium(30-60)	2208.1	19.1
BH - Back-High(60-80)	976.79	8.4
BVH - Back-Very High(80-90)	31.383	0.3
Total Back Light	4112.2	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	B2-U0-G2
---------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4112.2	0	4112.2
Street Side	7447.9	0	7447.9

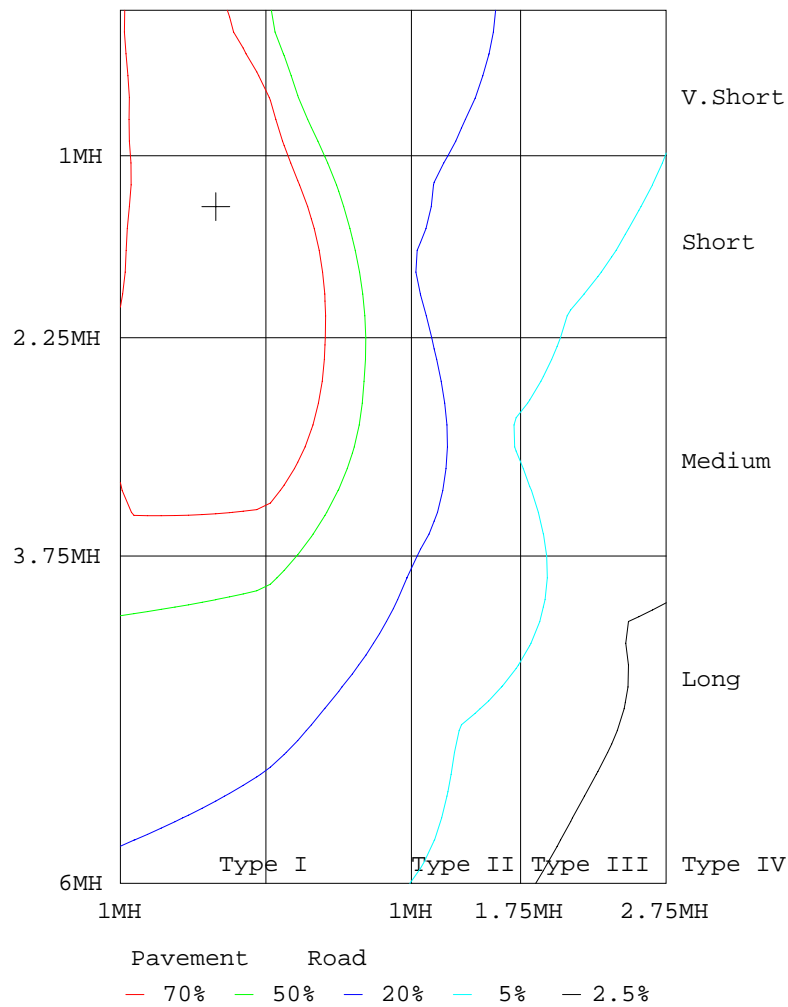
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-10-28

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:43.65V I:1.370A P:59.80W PF:1.000 Freq:0Hz Lamp Flux:11560.1x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-60WSE-DC-L5-00-5070-T203-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm*3	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-10-28

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:43.65V I:1.370A P:59.80W PF:1.000 Freq:0Hz Lamp Flux:11560.1x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-60WSE-DC-L5-00-5070-T203-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm*3	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	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666
5	2721	2810	2884	2941	2974	3004	3012	3004	2974	2941	2884	2810	2721	2612	2500	2403	2324	2269	2254
10	2840	3004	3127	3215	3254	3274	3281	3274	3254	3215	3127	3004	2840	2631	2394	2179	2026	1950	1925
15	2996	3218	3370	3466	3498	3511	3502	3511	3498	3466	3370	3218	2996	2689	2316	2007	1855	1789	1765
20	3178	3466	3638	3722	3730	3719	3691	3719	3730	3722	3638	3466	3178	2751	2227	1882	1736	1678	1655
25	3371	3722	3921	3996	3959	3907	3862	3907	3959	3996	3921	3722	3371	2803	2112	1780	1644	1588	1566
30	3576	4000	4222	4254	4148	4045	3998	4045	4148	4254	4222	4000	3576	2814	2026	1699	1569	1518	1497
35	3762	4282	4501	4457	4219	4067	4023	4067	4219	4457	4501	4282	3762	2830	1981	1630	1508	1468	1449
40	3933	4555	4717	4515	4088	3903	3849	3903	4088	4515	4717	4555	3933	2909	1941	1553	1449	1426	1414
45	4109	4757	4788	4321	3718	3496	3396	3496	3718	4321	4788	4757	4109	3029	1888	1469	1381	1374	1373
50	4330	4899	4619	3895	3058	2659	2466	2659	3058	3895	4619	4899	4330	3170	1784	1352	1276	1275	1279
55	4598	4955	4296	3133	1998	1290	921	1290	1998	3133	4296	4955	4598	3269	1583	1165	1101	1095	1103
60	4819	4877	3837	2166	608	263	232	263	608	2166	3837	4877	4819	3248	1265	907	857	852	865
65	4932	4781	3171	936	251	238	237	238	251	936	3171	4781	4932	2996	853	602	569	533	530
70	4607	4537	2463	246	214	191	182	191	214	246	2463	4537	4607	2366	439	306	278	281	295
75	2895	3275	1484	214	135	110	110	110	135	214	1484	3275	2895	1184	186	167	176	178	180
80	688	1291	399	132	75.5	78.1	76.4	78.1	75.5	132	399	1291	688	155	97.8	100	120	130	133
85	48.5	118	78.5	41.3	41.2	50.9	48.7	50.9	41.2	41.3	78.5	118	48.5	36.1	34.7	44.5	65.2	77.0	78.5
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:2020-10-28

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:43.65V I:1.370A P:59.80W PF:1.000 Freq:0Hz Lamp Flux:11560.1x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-60WSE-DC-L5-00-5070-T203-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm*3	Shielding Angle:

Table--2

UNIT: cd

C(DEC)	285	300	315	330	345														
γ (DEC)																			
0	2666	2666	2666	2666	2666														
5	2269	2324	2403	2500	2612														
10	1950	2026	2179	2394	2631														
15	1789	1855	2007	2316	2689														
20	1678	1736	1882	2227	2751														
25	1588	1644	1780	2112	2803														
30	1518	1569	1699	2026	2814														
35	1468	1508	1630	1981	2830														
40	1426	1449	1553	1941	2909														
45	1374	1381	1469	1888	3029														
50	1275	1276	1352	1784	3170														
55	1095	1101	1165	1583	3269														
60	852	857	907	1265	3248														
65	533	569	602	853	2996														
70	281	278	306	439	2366														
75	178	176	167	186	1184														
80	130	120	100	97.8	155														
85	77.0	65.2	44.5	34.7	36.1														
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:2020-10-28

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: