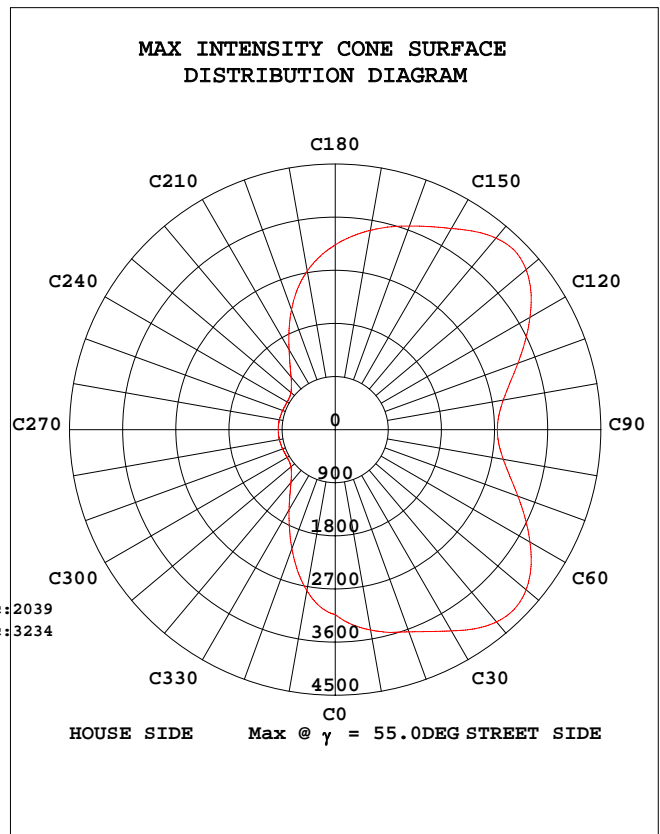
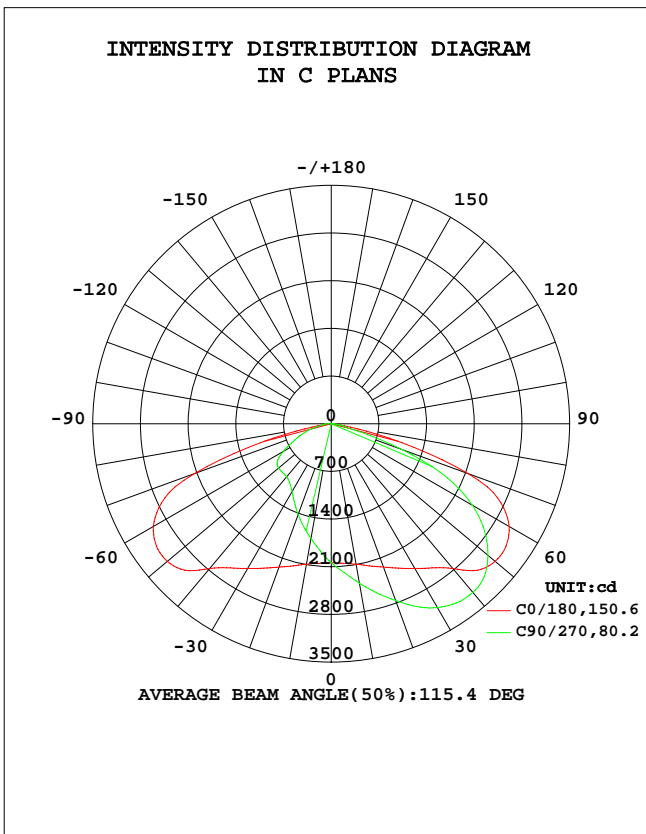


**STREETLIGHT PHOTOMETRIC TEST REPORT**

Test:U:44.30V I:1.354A P:59.98W PF:1.000 Freq:0Hz Lamp Flux:10803.8x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-60WSE-DC-L5-00-5070-T402-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm*2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 180.13 lm/W			
MODEL	5050	I <sub>max</sub> (cd)	4295	η street_up(%)	0.0
NOMINAL POWER(W)	60	LOR(%)	100.0	η street_down(%)	68.9
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	10804	η house_up(%)	0.0
NOMINAL FLUX(lm)	10803.8	MAXIMUM @(C,γ )	45,55.0	η house_down(%)	31.1
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220	η down(%)	100.0	SLI	19.851

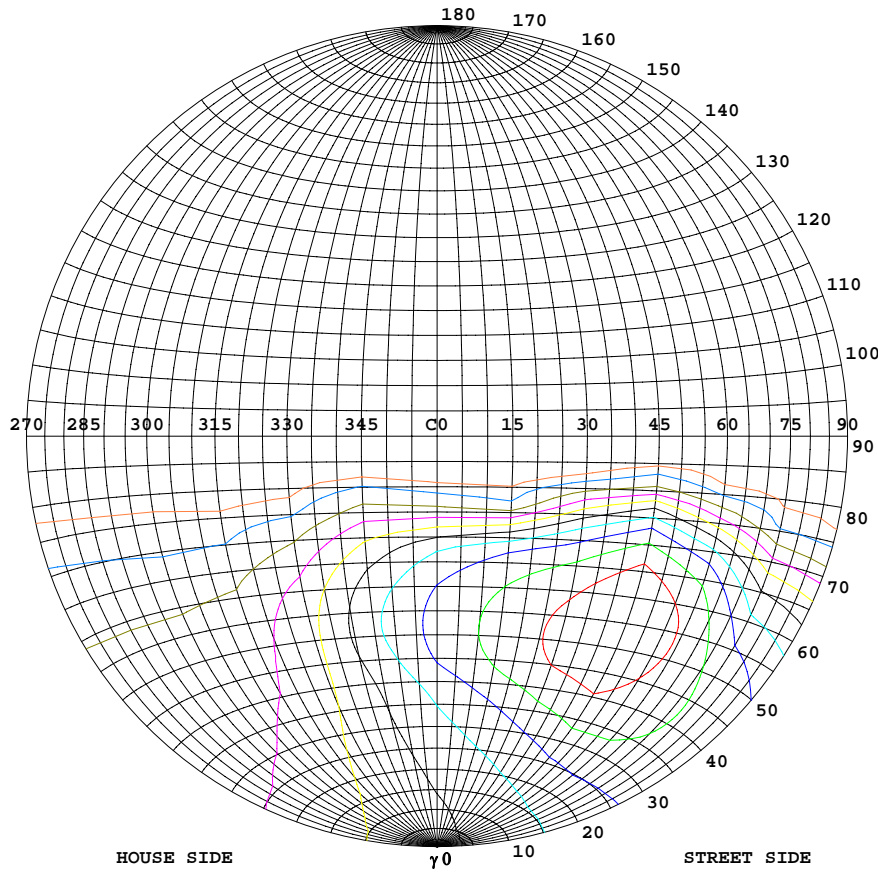


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-12-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.682m [K=1.0000]  
 Remarks:

**STREETLIGHT ISOCANDELA DIAGRAM**

Test:U:44.30V I:1.354A P:59.98W PF:1.000 Freq:0Hz Lamp Flux:10803.8x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-60WSE-DC-L5-00-5070-T402-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm*2	Shielding Angle:



**Classification:**

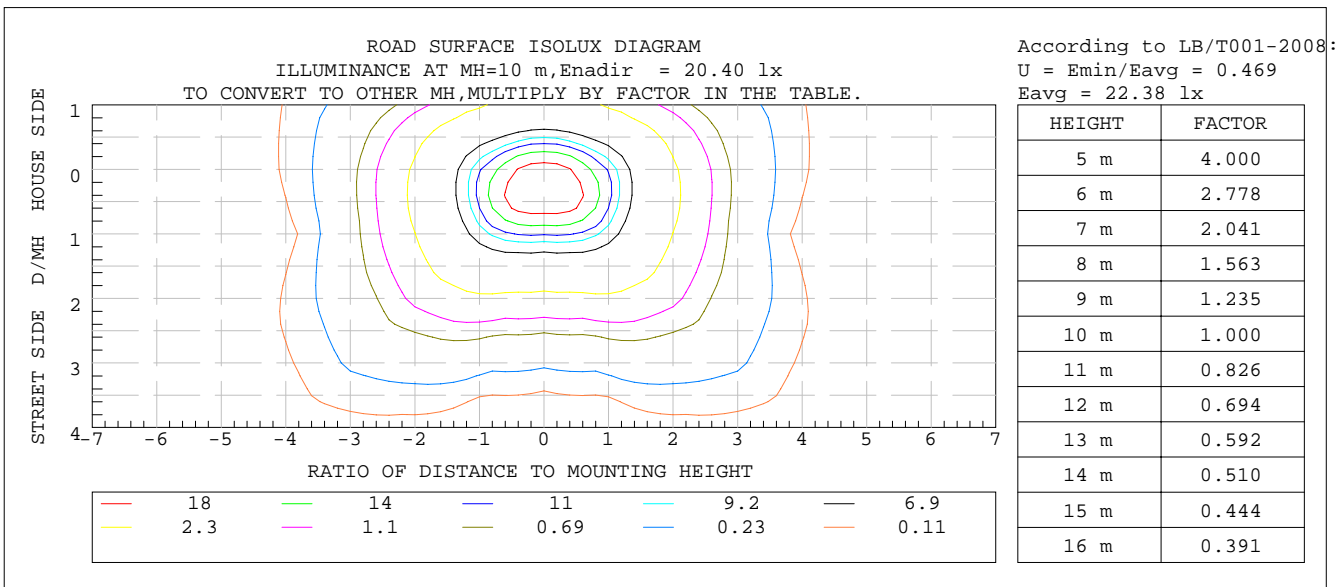
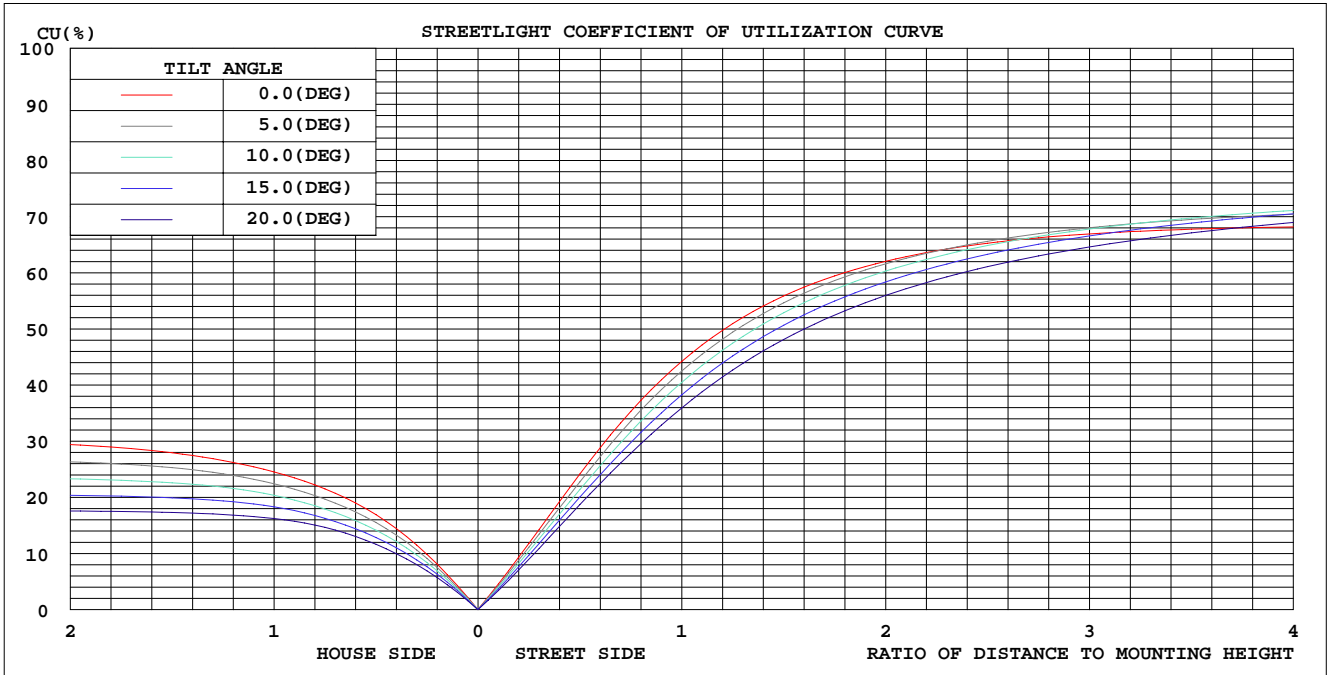
IES:Type IV - Short  
 CIE:Broad - Short  
 IES:Semi cut-off  
 CIE:Non-cut-off  
 Max.At80:100.9cd/klm  
 Max.At90:0cd/klm  
 Max.80-90:100.9cd/klm  
 NRB 5101:Semi limited[13.8%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4295
90%	3865
80%	3436
70%	3006
60%	2577
50%	2147
40%	1718
30%	1288
20%	859
10%	429
5%	215

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-12-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 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: 2020-12-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.682m [K=1.0000]  
Remarks:

**ZONAL FLUX DIAGRAM**

Test:U:44.30V I:1.354A P:59.98W PF:1.000 Freq:0Hz Lamp Flux:10803.8x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-60WSE-DC-L5-00-5070-T402-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm*2	Shielding Angle:

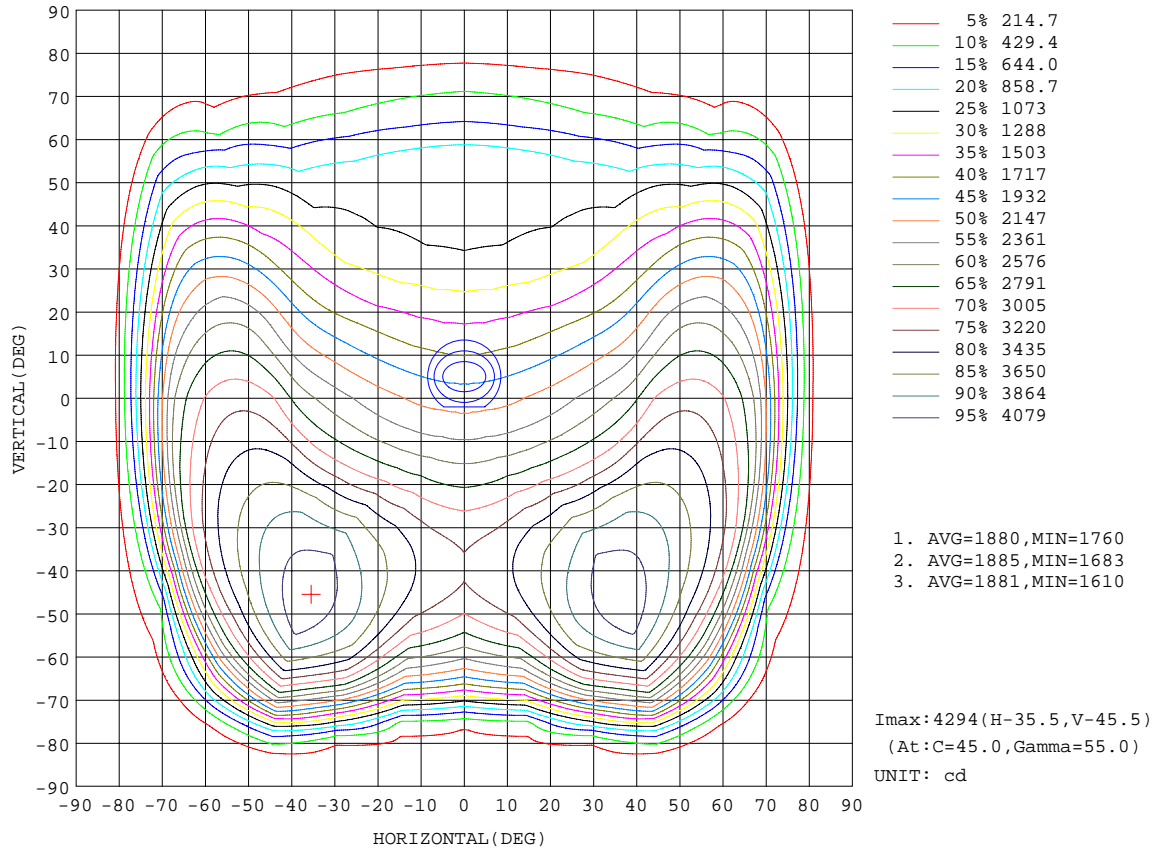
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum,lamp
10	2094	2300	2377	2300	2094	1838	1712	1838	0- 10	196.1	196.1	1.82,1.82
20	2239	2681	2762	2681	2239	1670	1420	1670	10- 20	601.2	797.3	7.38,7.38
30	2454	3230	3117	3230	2454	1483	1153	1483	20- 30	1041	1838	17,17
40	2776	3837	3233	3837	2776	1302	1019	1302	30- 40	1515	3353	31,31
50	3143	4215	3002	4215	3143	1149	1011	1149	40- 50	1994	5347	49.5,49.5
60	3015	4234	2391	4234	3015	913.1	814.6	913.1	50- 60	2274	7621	70.5,70.5
70	2130	3485	1107	3485	2130	436.8	464.2	436.8	60- 70	2059	9680	89.6,89.6
80	288.3	1090	155.2	1090	288.3	126.6	159.0	126.6	70- 80	1008	10688	98.9,98.9
90	0	0	0	0	0	0	0	0	80- 90	115.8	10804	100,100
100	0	0	0	0	0	0	0	0	90-100	0	10804	100,100
110	0	0	0	0	0	0	0	0	100-110	0	10804	100,100
120	0	0	0	0	0	0	0	0	110-120	0	10804	100,100
130	0	0	0	0	0	0	0	0	120-130	0	10804	100,100
140	0	0	0	0	0	0	0	0	130-140	0	10804	100,100
150	0	0	0	0	0	0	0	0	140-150	0	10804	100,100
160	0	0	0	0	0	0	0	0	150-160	0	10804	100,100
170	0	0	0	0	0	0	0	0	160-170	0	10804	100,100
180	0	0	0	0	0	0	0	0	170-180	0	10804	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:2020-12-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.682m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

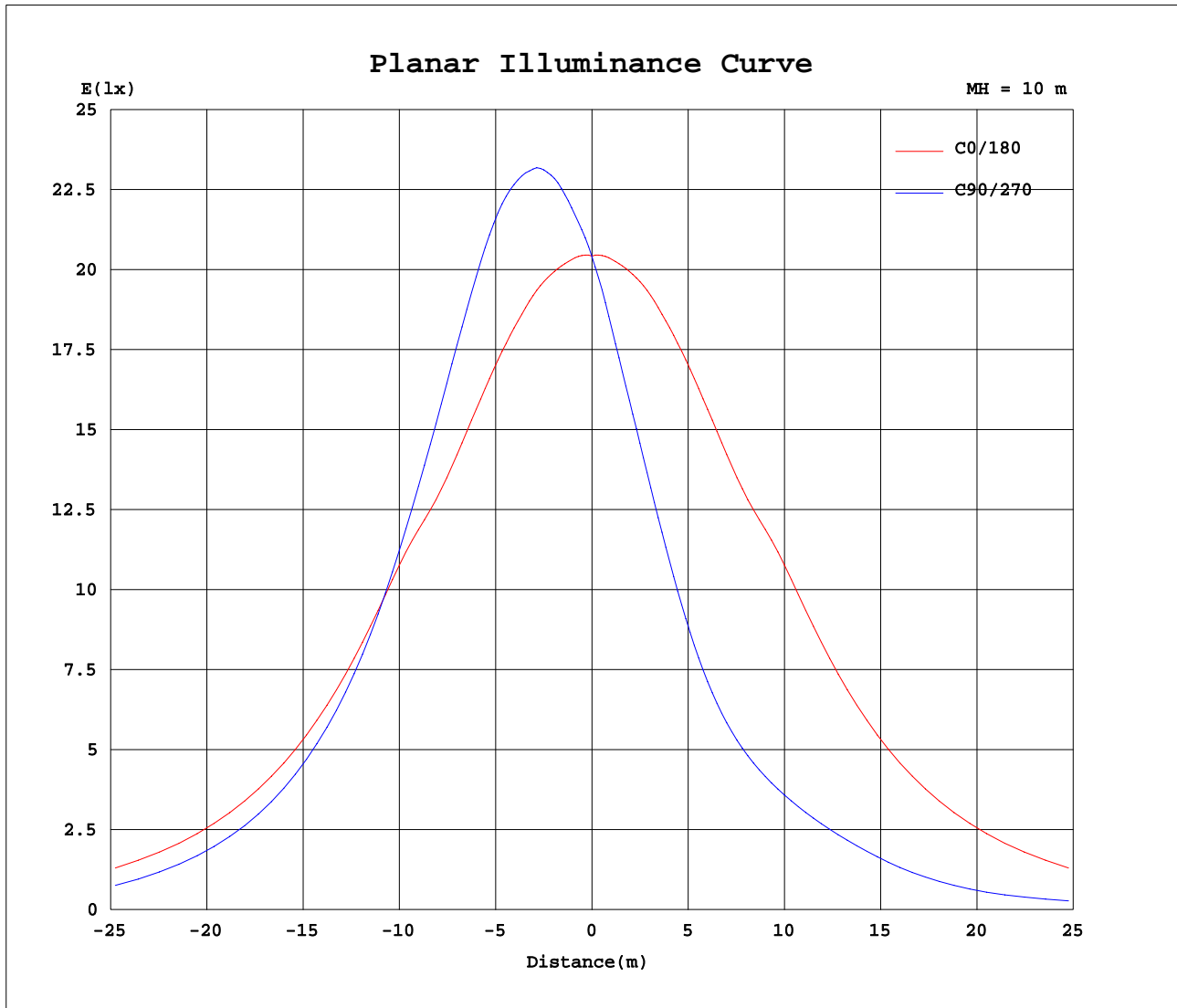
Test:U:44.30V I:1.354A P:59.98W PF:1.000 Freq:0Hz Lamp Flux:10803.8x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-60WSE-DC-L5-00-5070-T402-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm*2	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2020-12-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.682m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



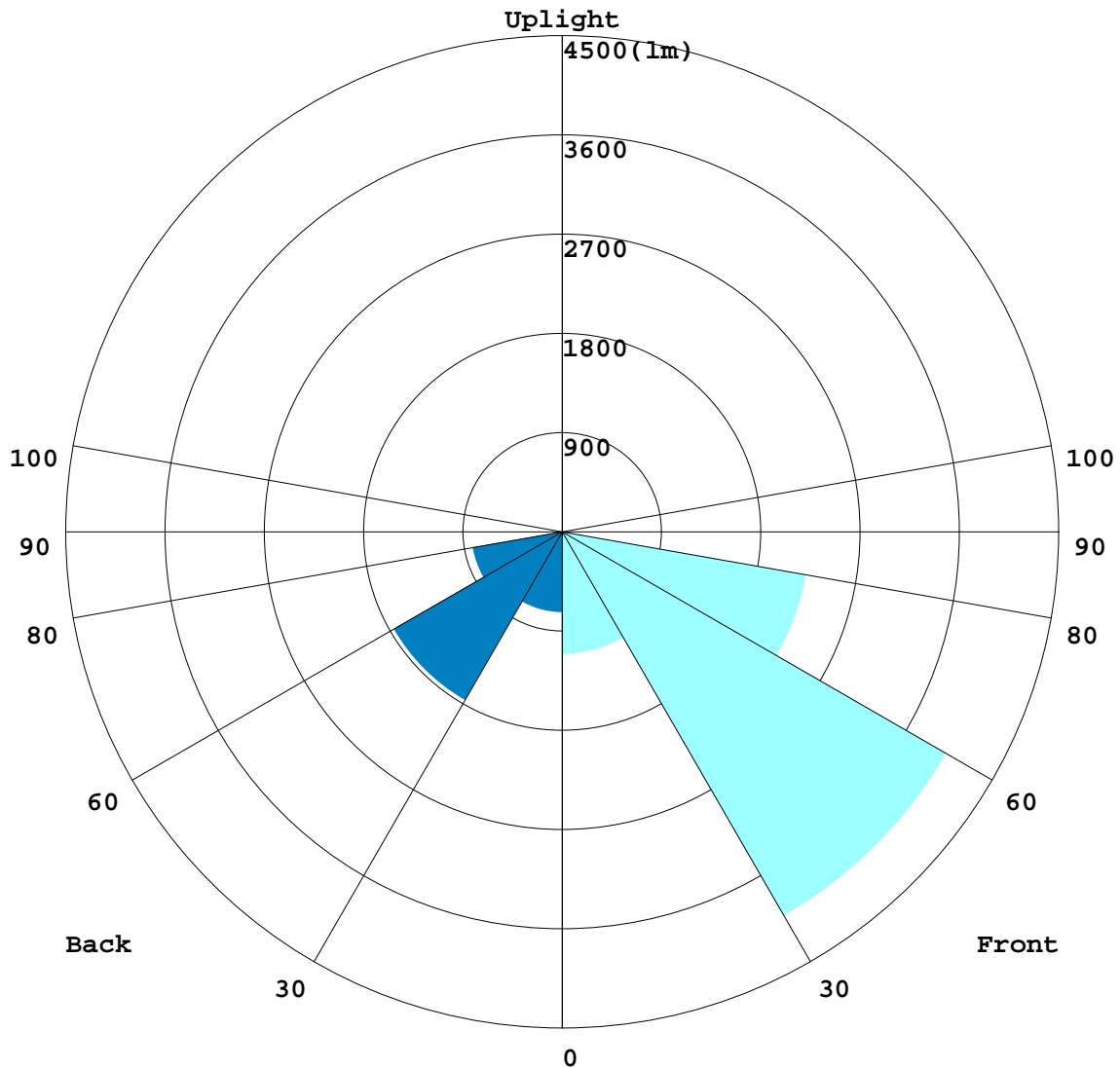
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2020-12-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.682m [K=1.0000]  
 Remarks:

**LCS REPORT**

Test:U:44.30V I:1.354A P:59.98W PF:1.000 Freq:0Hz Lamp Flux:10803.8x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-60WSE-DC-L5-00-5070-T402-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm*2	Shielding Angle:

**LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH**



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-12-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.682m [K=1.0000]  
 Remarks:

**BUG REPORT**

Test:U:44.30V I:1.354A P:59.98W PF:1.000 Freq:0Hz Lamp Flux:10803.8x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-60WSE-DC-L5-00-5070-T402-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm*2	Shielding Angle:

**IESNA Luminaire Flux Distribution Table:**

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1107.9	10.3
FM - Front-Medium(30-60)	4019.9	37.2
FH - Front-High(60-80)	2244.3	20.8
FVH - Front-Very High(80-90)	73.248	0.7
Total Forward Light	7445.3	68.9

BL - Back-Low(0-30)	730	6.8
BM - Back-Medium(30-60)	1763	16.3
BH - Back-High(60-80)	823.04	7.6
BVH - Back-Very High(80-90)	42.528	0.4
Total Back Light	3358.6	31.1

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	B2-U0-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	3358.6	0	3358.6
Street Side	7445.3	0	7445.3

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-12-18

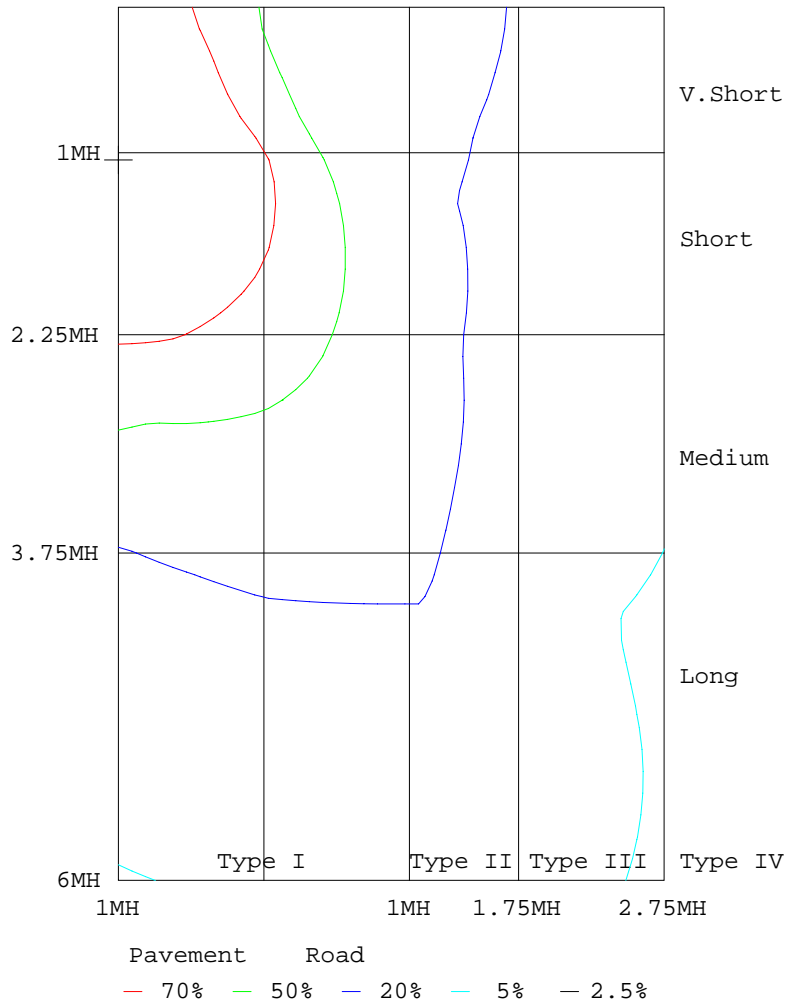
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.682m [K=1.0000]  
 Remarks:



ROAD ISOCANDELA REPORT

Test:U:44.30V I:1.354A P:59.98W PF:1.000 Freq:0Hz Lamp Flux:10803.8x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-60WSE-DC-L5-00-5070-T402-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm*2	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-12-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.682m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:44.30V I:1.354A P:59.98W PF:1.000 Freq:0Hz Lamp Flux:10803.8x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-60WSE-DC-L5-00-5070-T402-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm*2	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	2039	2039	2039	2039	2039	2039	2039	2039	2039	2039	2039	2039	2039	2039	2039	2039	2039	2039	2039
5	2057	2097	2131	2161	2182	2194	2195	2194	2182	2161	2131	2097	2057	2014	1973	1936	1905	1883	1874
10	2094	2169	2237	2300	2348	2373	2377	2373	2348	2300	2237	2169	2094	2008	1918	1838	1774	1731	1712
15	2161	2269	2376	2472	2541	2570	2569	2570	2541	2472	2376	2269	2161	2021	1879	1752	1655	1591	1565
20	2239	2395	2547	2681	2762	2778	2762	2778	2762	2681	2547	2395	2239	2044	1845	1670	1538	1453	1420
25	2340	2548	2746	2934	3011	2998	2961	2998	3011	2934	2746	2548	2340	2077	1812	1582	1418	1318	1278
30	2454	2721	2980	3230	3270	3193	3117	3193	3270	3230	2980	2721	2454	2118	1774	1483	1294	1191	1153
35	2583	2926	3281	3558	3503	3331	3209	3331	3503	3558	3281	2926	2583	2160	1726	1386	1186	1096	1062
40	2776	3226	3609	3837	3650	3393	3233	3393	3650	3837	3609	3226	2776	2226	1686	1302	1113	1048	1019
45	3040	3482	3859	4045	3751	3384	3174	3384	3751	4045	3859	3482	3040	2356	1661	1226	1061	1029	1013
50	3143	3573	3963	4215	3808	3284	3002	3284	3808	4215	3963	3573	3143	2484	1632	1149	1012	1010	1011
55	3132	3557	3935	4295	3808	3064	2748	3064	3808	4295	3935	3557	3132	2472	1566	1051	942	957	967
60	3015	3441	3794	4234	3680	2696	2391	2696	3680	4234	3794	3441	3015	2331	1420	913	820	807	815
65	2747	3180	3491	3985	3333	2183	1883	2183	3333	3985	3491	3180	2747	2061	1174	706	601	592	615
70	2130	2413	2955	3485	2659	1409	1107	1409	2659	3485	2955	2413	2130	1645	832	437	402	436	464
75	1073	964	1978	2614	1526	486	339	486	1526	2614	1978	964	1073	1070	392	252	262	292	318
80	288	224	719	1090	393	189	155	189	393	1090	719	224	288	451	155	127	145	162	159
85	38.4	39.9	83.2	151	106	88.7	73.6	88.7	106	151	83.2	39.9	38.4	52.3	41.1	58.4	88.1	106	109
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:2020-12-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.682m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:44.30V I:1.354A P:59.98W PF:1.000 Freq:0Hz Lamp Flux:10803.8x1 lm		
NAME: AOK SE	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:AOK-60WSE-DC-L5-00-5070-T402-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.: AOK	SUR.:235*70mm*2	Shielding Angle:

Table--2

UNIT: cd

C( DEG) γ (DEG)	285	300	315	330	345														
0	2039	2039	2039	2039	2039														
5	1883	1905	1936	1973	2014														
10	1731	1774	1838	1918	2008														
15	1591	1655	1752	1879	2021														
20	1453	1538	1670	1845	2044														
25	1318	1418	1582	1812	2077														
30	1191	1294	1483	1774	2118														
35	1096	1186	1386	1726	2160														
40	1048	1113	1302	1686	2226														
45	1029	1061	1226	1661	2356														
50	1010	1012	1149	1632	2484														
55	957	942	1051	1566	2472														
60	807	820	913	1420	2331														
65	592	601	706	1174	2061														
70	436	402	437	832	1645														
75	292	262	252	392	1070														
80	162	145	127	155	451														
85	106	88.1	58.4	41.1	52.3														
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:2020-12-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.682m [K=1.0000]  
 Remarks: