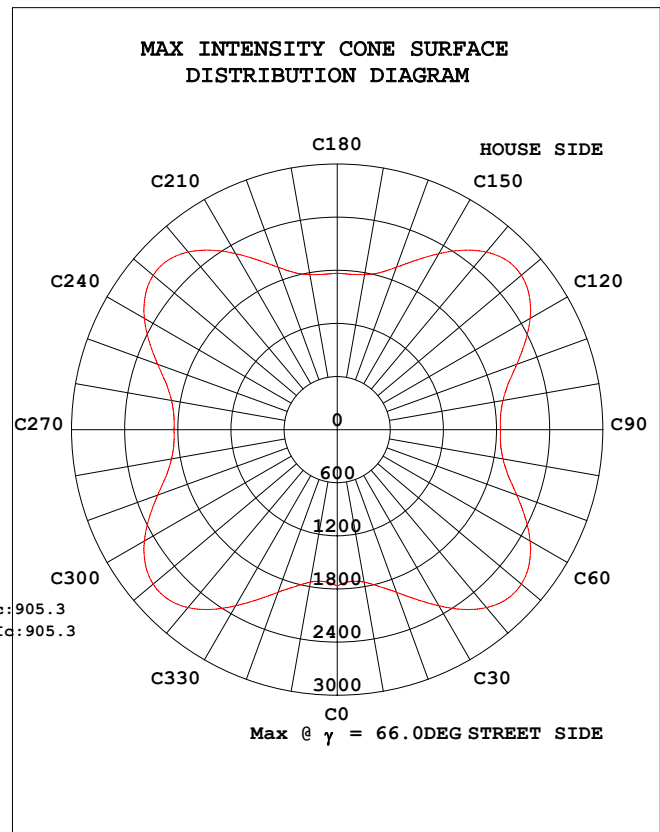
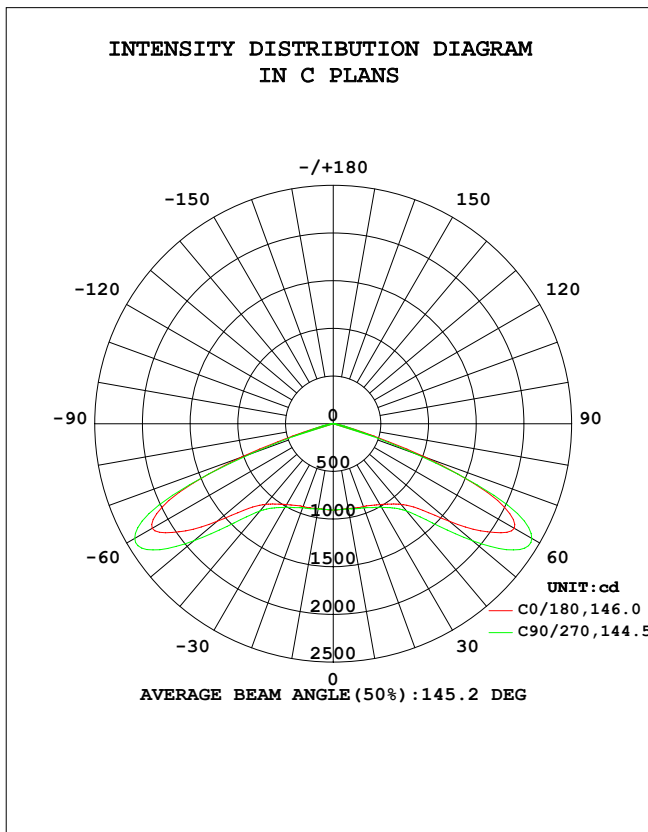


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.2V I:0.2836A P:50.00W PF:0.8754 Freq:49.99Hz Lamp Flux:6905.08x1 lm		
NAME: AOK iP	TYPE:LED	WEIGHT:
SPEC.:AOK-50WiP-NV-L3-00-5070-T501-P	DIM.: 0.46*0.08M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 0.409- ϕ 0.297M	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 138.10 lm/W			
MODEL	3030	I _{max} (cd)	2706	η street_up (%)	0.0
NOMINAL POWER (W)	50	LOR (%)	100.0	η street_down (%)	54.2
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	6905	η house_up (%)	0.0
NOMINAL FLUX (lm)	6905.08	MAXIMUM @ (C, γ)	315,66.0	η house_down (%)	45.8
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)	220	η down (%)	100.0	SLI	17.035

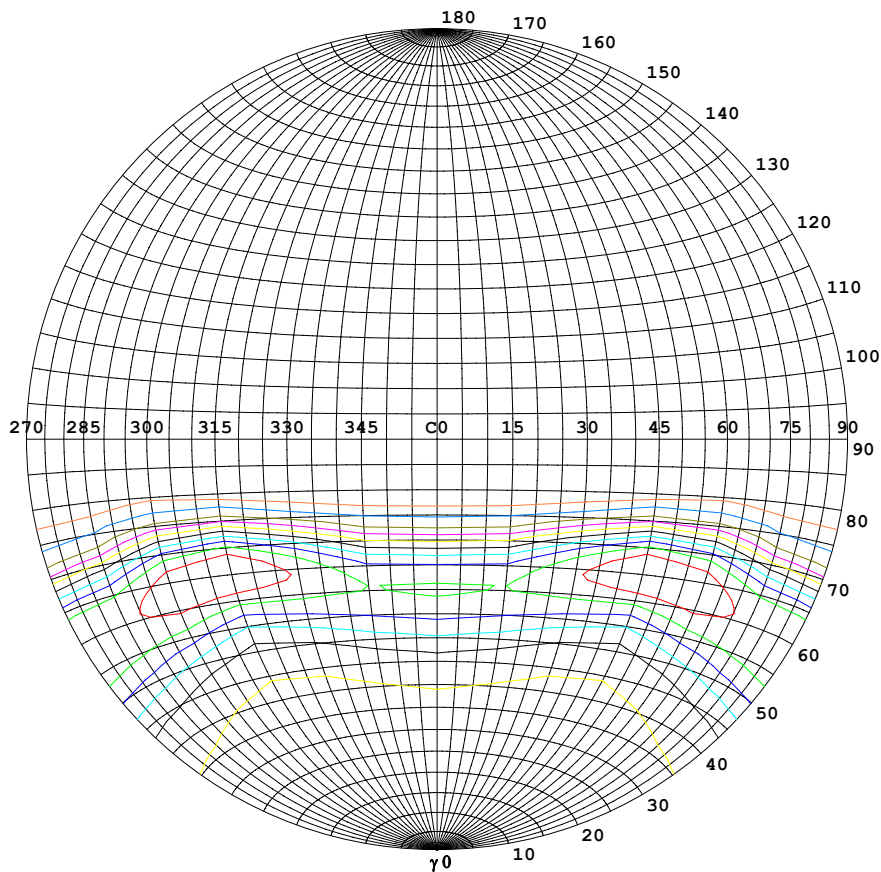


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-09-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.684m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:220.2V I:0.2836A P:50.00W PF:0.8754 Freq:49.99Hz Lamp Flux:6905.08x1 lm		
NAME: AOK iP	TYPE:LED	WEIGHT:
SPEC.:AOK-50WiP-NV-L3-00-5070-T501-P	DIM.: 0.46*0.08M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 0.409- ϕ 0.297M	Shielding Angle:



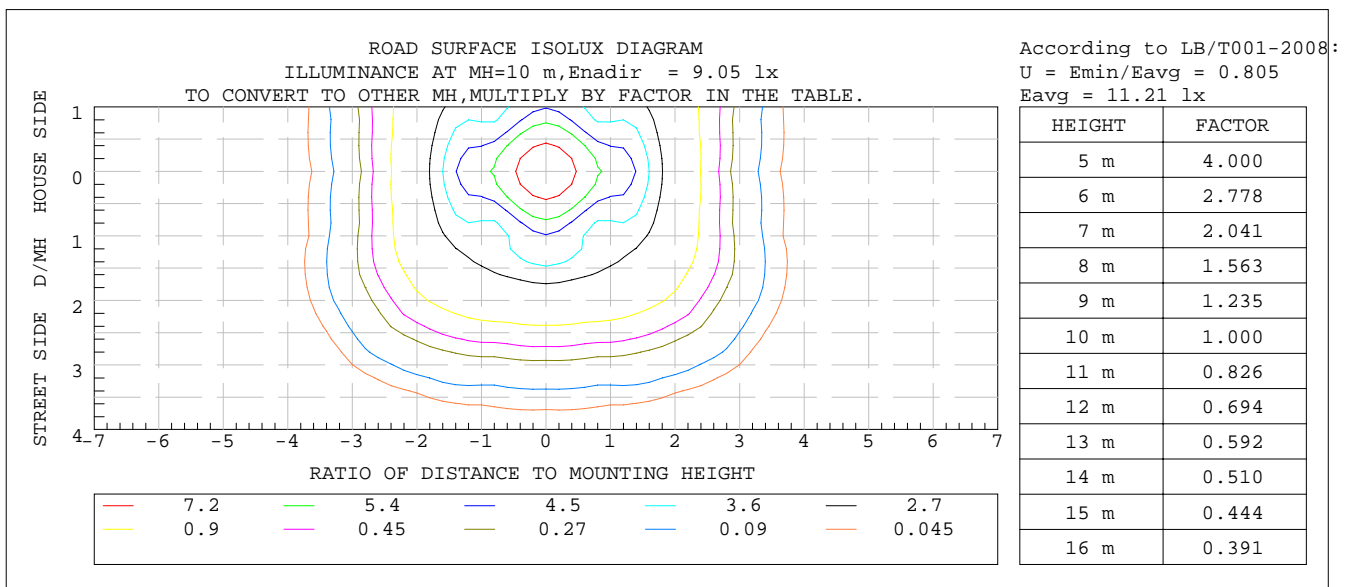
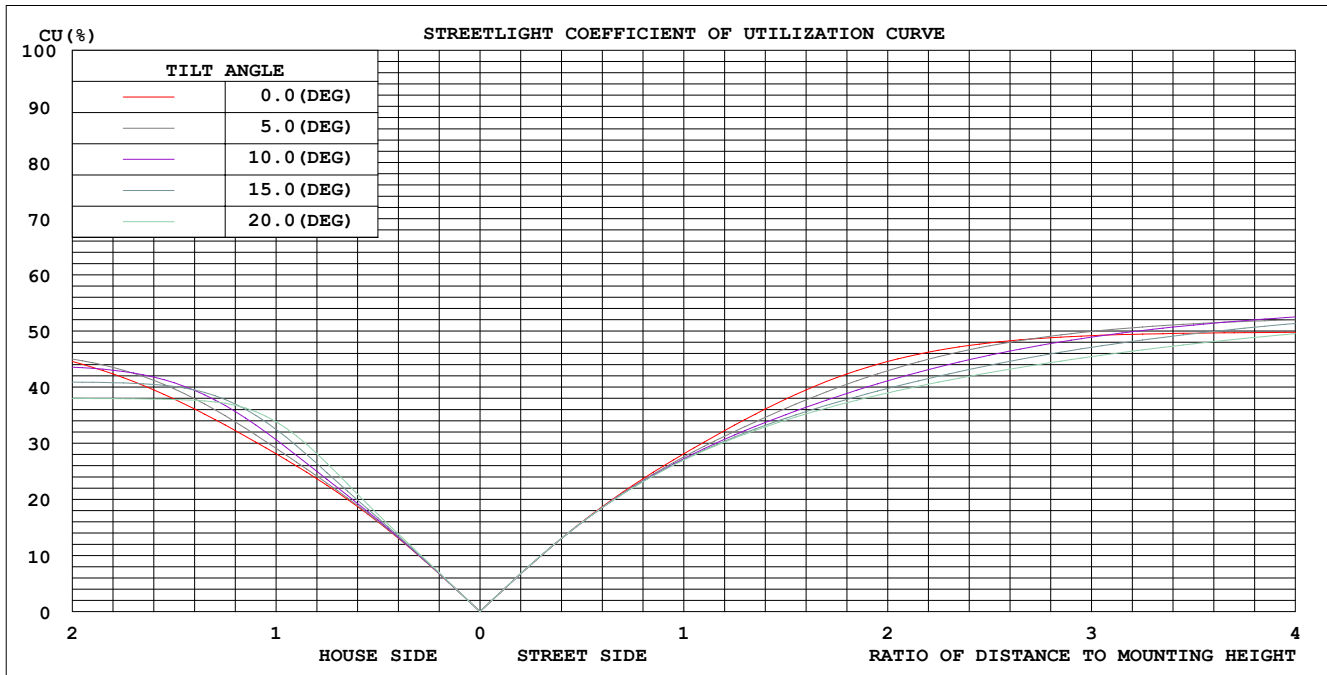
Classification:

IES:Type V - Short
CIE:Narrow - Intermediate
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:16.83cd/klm
Max.At90:0cd/klm
Max.80-90:16.83cd/klm
NRB 5101:Limited[4.3%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	2706
90%	2436
80%	2165
70%	1894
60%	1624
50%	1353
40%	1083
30%	812
20%	541
10%	271
5%	135

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-09-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.684m [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: 2018-09-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.684m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:220.2V I:0.2836A P:50.00W PF:0.8754 Freq:49.99Hz Lamp Flux:6905.08x1 lm		
NAME: AOK iP	TYPE:LED	WEIGHT:
SPEC.:AOK-50WiP-NV-L3-00-5070-T501-P	DIM.: 0.46*0.08M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 0.409- ϕ 0.297M	Shielding Angle:

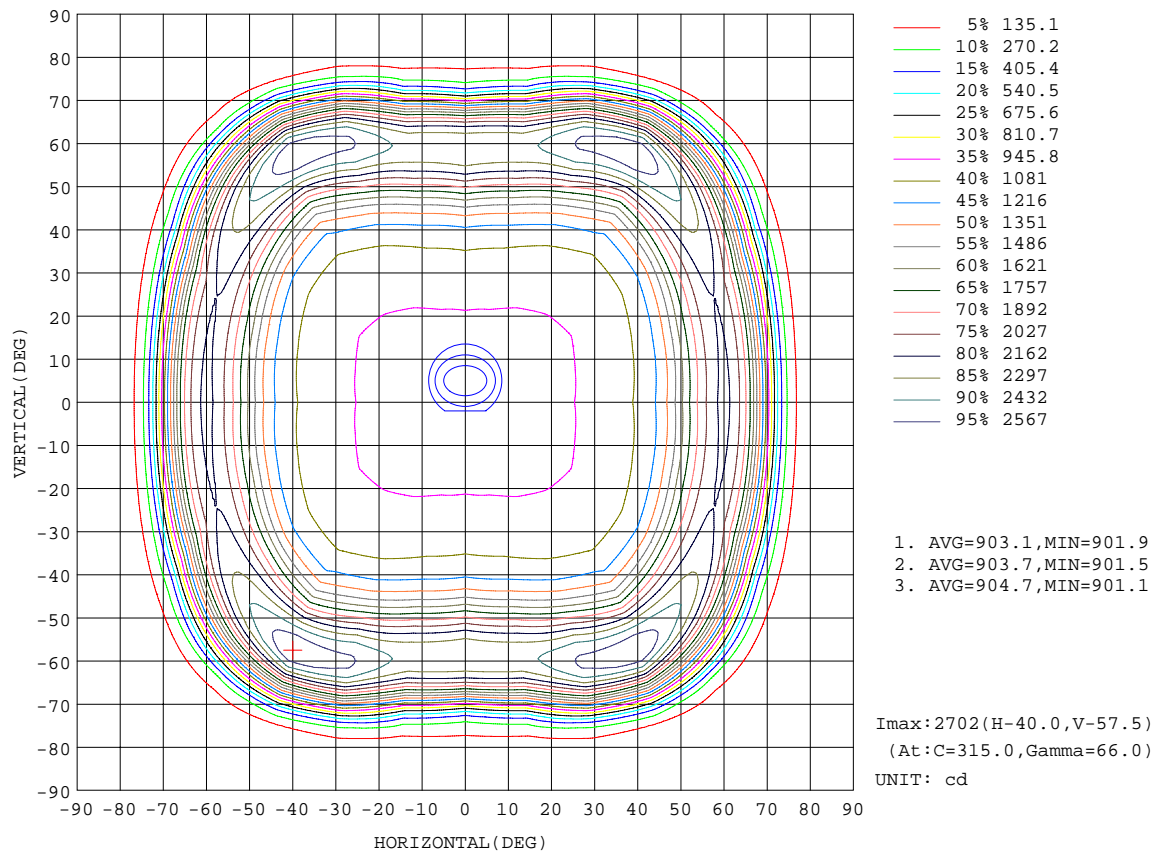
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	903.8	904.7	907.5	904.7	903.8	904.7	907.5	904.7	0- 10	86.21	86.21	1.25,1.25
20	925.2	920.8	938.5	920.8	925.2	920.8	938.5	920.8	10- 20	259.7	345.9	5.01,5.01
30	979.4	958.9	1012	958.9	979.4	958.9	1012	958.9	20- 30	438.9	784.8	11.4,11.4
40	1104	1024	1196	1024	1104	1024	1196	1024	30- 40	642.6	1427	20.7,20.7
50	1595	1262	1910	1262	1595	1262	1910	1262	40- 50	974.6	2402	34.8,34.8
60	2193	2266	2404	2266	2193	2266	2404	2266	50- 60	1744	4146	60,60
70	1024	2212	897.3	2212	1024	2212	897.3	2212	60- 70	2126	6272	90.8,90.8
80	62.39	91.24	82.94	91.24	62.39	91.24	82.94	91.24	70- 80	603.7	6876	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	29.54	6905	100,100
100	0	0	0	0	0	0	0	0	90-100	0	6905	100,100
110	0	0	0	0	0	0	0	0	100-110	0	6905	100,100
120	0	0	0	0	0	0	0	0	110-120	0	6905	100,100
130	0	0	0	0	0	0	0	0	120-130	0	6905	100,100
140	0	0	0	0	0	0	0	0	130-140	0	6905	100,100
150	0	0	0	0	0	0	0	0	140-150	0	6905	100,100
160	0	0	0	0	0	0	0	0	150-160	0	6905	100,100
170	0	0	0	0	0	0	0	0	160-170	0	6905	100,100
180	0	0	0	0	0	0	0	0	170-180	0	6905	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:2018-09-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.684m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

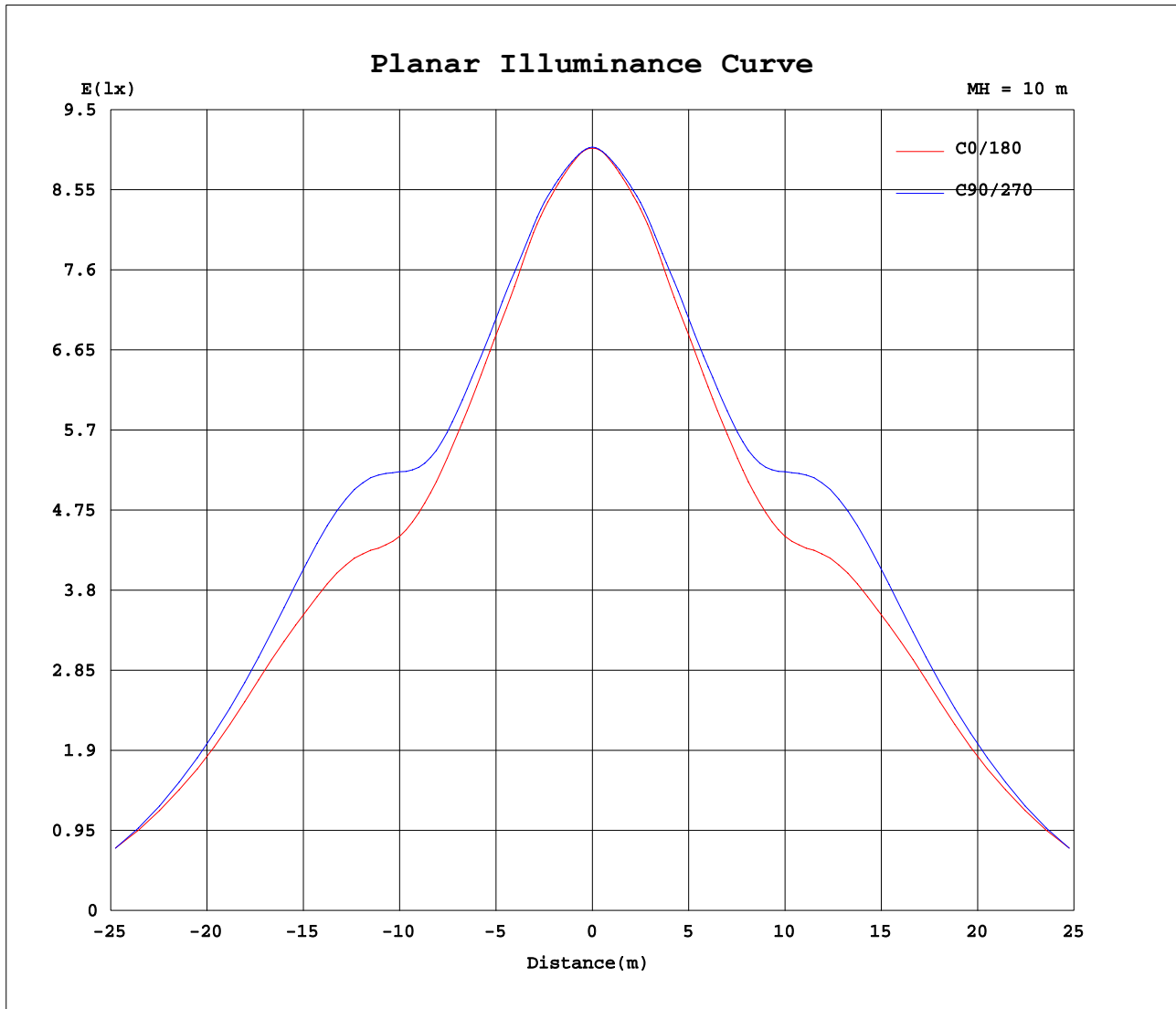
Test:U:220.2V I:0.2836A P:50.00W PF:0.8754 Freq:49.99Hz Lamp Flux:6905.08x1 lm		
NAME: AOK iP	TYPE:LED	WEIGHT:
SPEC.:AOK-50WiP-NV-L3-00-5070-T501-P	DIM.: 0.46*0.08M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 0.409- ϕ 0.297M	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-09-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.684m [K=1.0000]
Remarks:

Planar Illuminance Curve



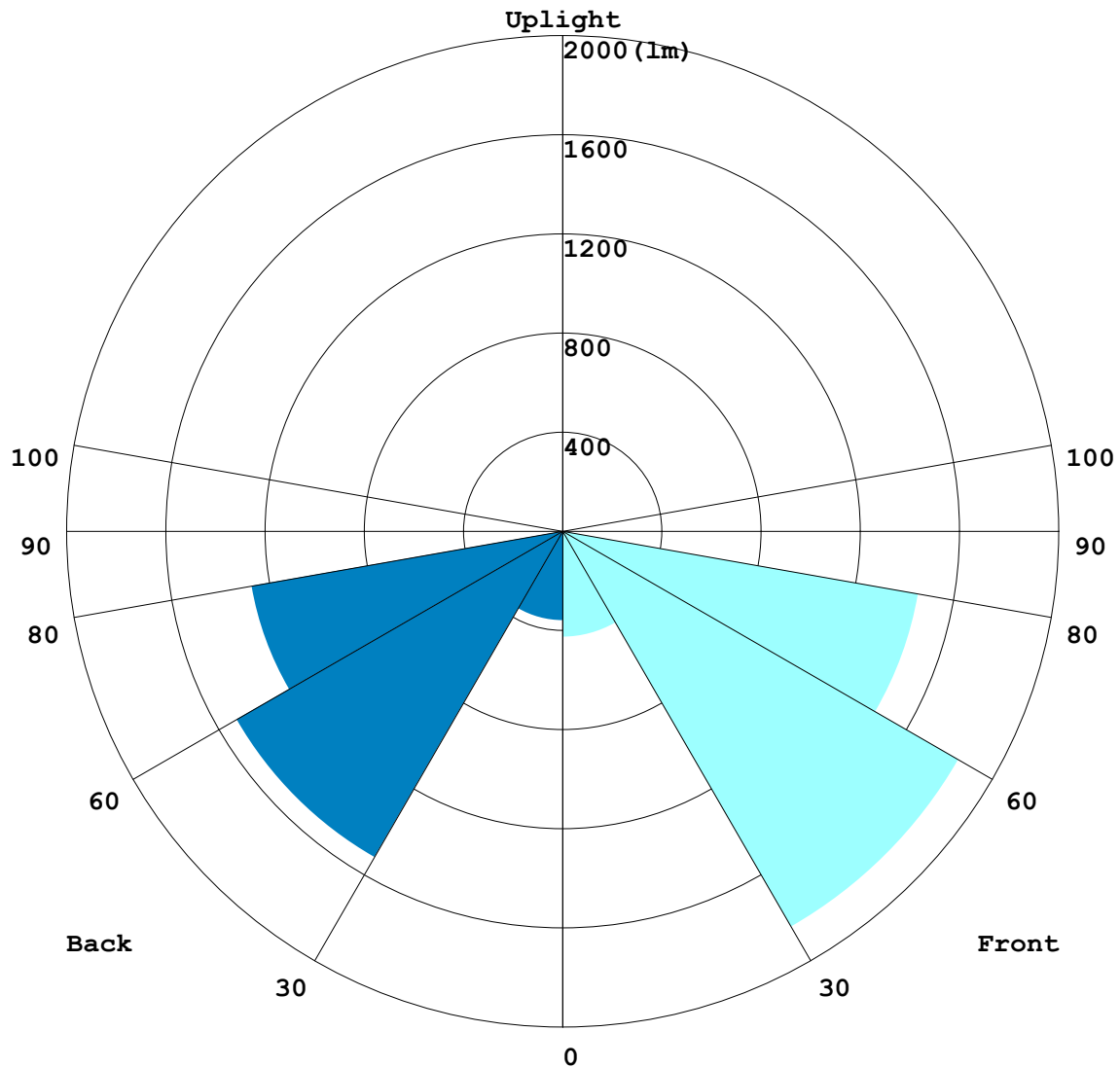
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2018-09-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.684m [K=1.0000]
Remarks:

LCS REPORT

Test:U:220.2V I:0.2836A P:50.00W PF:0.8754 Freq:49.99Hz Lamp Flux:6905.08x1 lm		
NAME: AOK iP	TYPE:LED	WEIGHT:
SPEC.:AOK-50WiP-NV-L3-00-5070-T501-P	DIM.: 0.46*0.08M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 0.409- ϕ 0.297M	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-09-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.684m [K=1.0000]
Remarks:

BUG REPORT

Test:U:220.2V I:0.2836A P:50.00W PF:0.8754 Freq:49.99Hz Lamp Flux:6905.08x1 lm		
NAME: AOK iP	TYPE:LED	WEIGHT:
SPEC.:AOK-50WiP-NV-L3-00-5070-T501-P	DIM.: 0.46*0.08M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 0.409- ϕ 0.297M	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	425.71	6.2
FM - Front-Medium(30-60)	1842.4	26.7
FH - Front-High(60-80)	1455.4	21.1
FVH - Front-Very High(80-90)	15.999	0.2
Total Forward Light	3739.6	54.2

BL - Back-Low(0-30)	359.1	5.2
BM - Back-Medium(30-60)	1518.7	22.0
BH - Back-High(60-80)	1274.2	18.5
BVH - Back-Very High(80-90)	13.542	0.2
Total Back Light	3165.5	45.8

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	B3-U0-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	3165.5	0	3165.5
Street Side	3739.6	0	3739.6

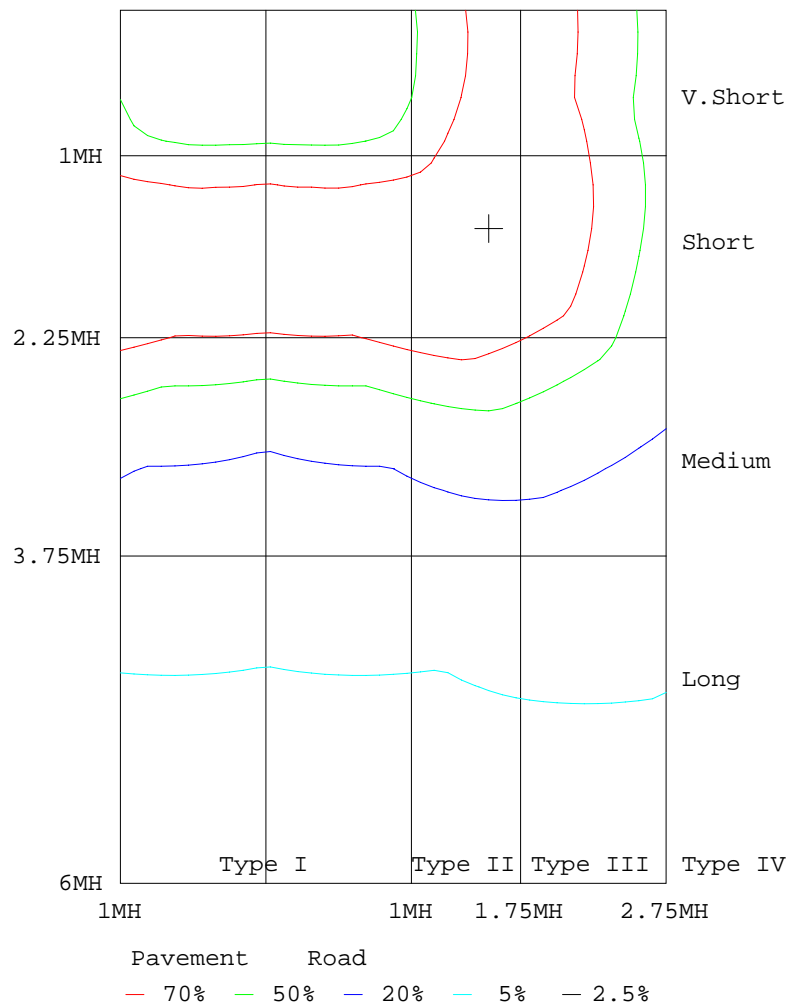
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-09-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.684m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:220.2V I:0.2836A P:50.00W PF:0.8754 Freq:49.99Hz Lamp Flux:6905.08x1 lm		
NAME: AOK iP	TYPE:LED	WEIGHT:
SPEC.:AOK-50WiP-NV-L3-00-5070-T501-P	DIM.: 0.46*0.08M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 0.409- ϕ 0.297M	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-09-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.684m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.2836A P:50.00W PF:0.8754 Freq:49.99Hz Lamp Flux:6905.08x1 lm		
NAME: AOK iP	TYPE:LED	WEIGHT:
SPEC.:AOK-50WiP-NV-L3-00-5070-T501-P	DIM.: 0.46*0.08M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 0.409- ϕ 0.297M	Shielding Angle:

Table--1

UNIT: cd

γ (DEG) \ C (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905
5	903	902	902	902	902	902	903	902	902	902	902	902	903	902	902	902	902	902	903
10	904	904	904	905	905	906	907	906	905	905	904	904	904	904	904	905	905	906	907
15	915	912	911	913	916	920	922	920	916	913	911	912	915	912	911	913	916	920	922
20	925	921	919	921	926	934	939	934	926	921	919	921	925	921	919	921	926	934	939
25	945	938	930	934	946	965	970	965	946	934	930	938	945	938	930	934	946	965	970
30	979	968	952	959	974	1001	1012	1001	974	959	952	968	979	968	952	959	974	1001	1012
35	1029	1010	986	979	1014	1057	1078	1057	1014	979	986	1010	1029	1010	986	979	1014	1057	1078
40	1104	1074	1035	1024	1075	1150	1196	1150	1075	1024	1035	1074	1104	1074	1035	1024	1075	1150	1196
45	1257	1200	1120	1101	1204	1365	1472	1365	1204	1101	1120	1200	1257	1200	1120	1101	1204	1365	1472
50	1595	1503	1335	1262	1504	1763	1910	1763	1504	1262	1335	1503	1595	1503	1335	1262	1504	1763	1910
55	1976	1906	1790	1636	2004	2200	2308	2200	2004	1636	1790	1906	1976	1906	1790	1636	2004	2200	2308
60	2193	2158	2234	2266	2474	2399	2404	2399	2474	2266	2234	2158	2193	2158	2234	2266	2474	2399	2404
65	1903	1936	2372	2698	2566	2131	2018	2131	2566	2698	2372	1936	1903	1936	2372	2698	2566	2131	2018
70	1024	1093	1685	2212	1947	1170	897	1170	1947	2212	1685	1093	1024	1093	1685	2212	1947	1170	897
75	233	265	457	785	645	281	216	281	645	785	457	265	233	265	457	785	645	281	216
80	62.4	62.0	67.2	91.2	116	89.9	82.9	89.9	116	91.2	67.2	62.0	62.4	62.0	67.2	91.2	116	89.9	82.9
85	20.3	20.4	16.9	16.2	23.8	23.3	19.0	23.3	23.8	16.2	16.9	20.4	20.3	20.4	16.9	16.2	23.8	23.3	19.0
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:2018-09-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.684m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.2836A P:50.00W PF:0.8754 Freq:49.99Hz Lamp Flux:6905.08x1 lm		
NAME: AOK iP	TYPE:LED	WEIGHT:
SPEC.:AOK-50WiP-NV-L3-00-5070-T501-P	DIM.: 0.46*0.08M	SERIAL No.:
MFR.: AOK	SUR.: ϕ 0.409- ϕ 0.297M	Shielding Angle:

Table--2

UNIT: cd

γ (DEG) \ C (DEG)	285	300	315	330	345														
0	905	905	905	905	905														
5	902	902	902	902	902														
10	906	905	905	904	904														
15	920	916	913	911	912														
20	934	926	921	919	921														
25	965	946	934	930	938														
30	1001	974	959	952	968														
35	1057	1014	979	986	1010														
40	1150	1075	1024	1035	1074														
45	1365	1204	1101	1120	1200														
50	1763	1504	1262	1335	1503														
55	2200	2004	1636	1790	1906														
60	2399	2474	2266	2234	2158														
65	2131	2566	2698	2372	1936														
70	1170	1947	2212	1685	1093														
75	281	645	785	457	265														
80	89.9	116	91.2	67.2	62.0														
85	23.3	23.8	16.2	16.9	20.4														
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:2018-09-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.684m [K=1.0000]
 Remarks: