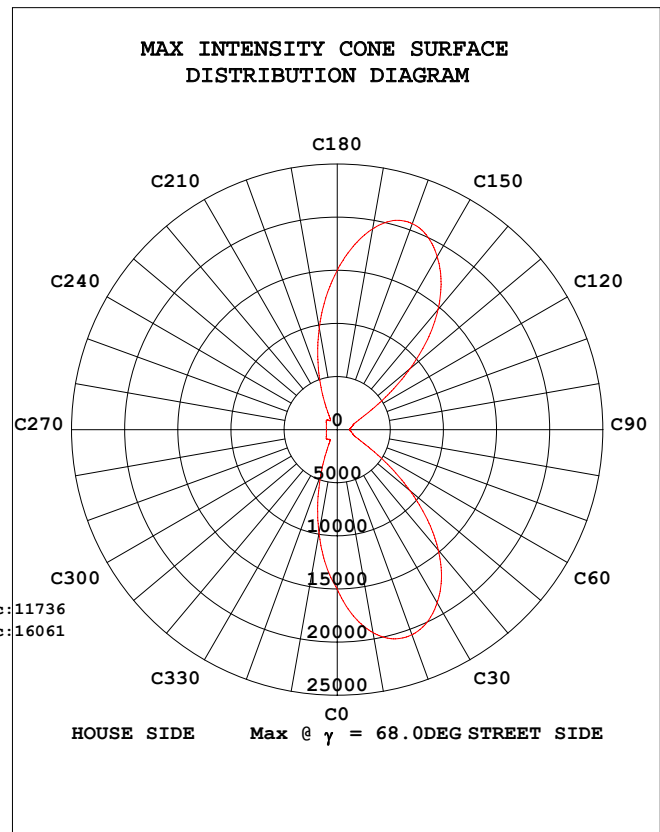
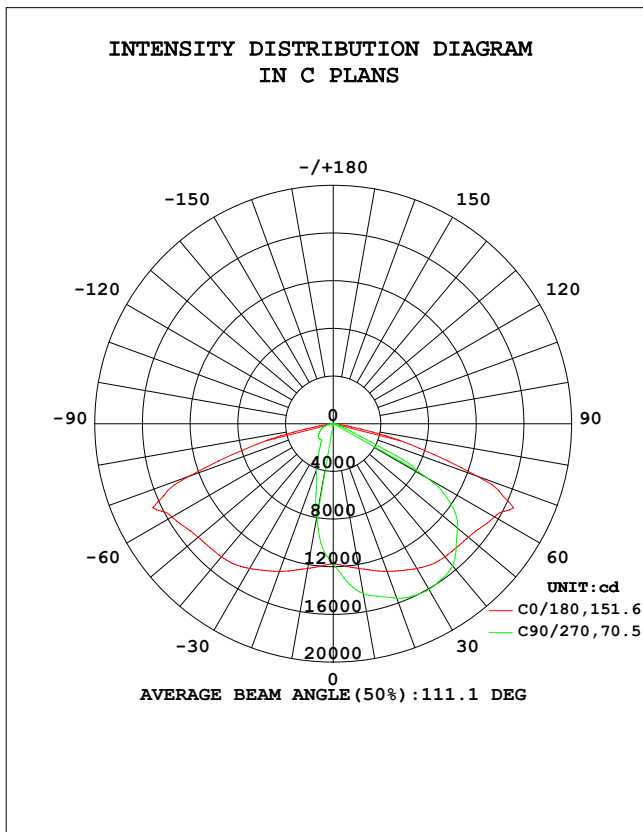


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:219.2V I:1.761A P:379.0W PF:0.9819 Freq:49.99Hz Lamp Flux:45786.5x1 lm		
NAME: AOK UNM	TYPE:LED Stadium Light	WEIGHT:8.5KG
SPEC.:AOK-380WInM-NV-Y2-00-5070-T3M-P	DIM.: $\Phi 440 \times 200$ mm	SERIAL No.:
MFR.: AOK	SUR.: $\Phi 410$ mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.80 lm/W			
MODEL	Y2	I _{max} (cd)	20379	η street_up (%)	0.0
NOMINAL POWER (W)	380	LOR (%)	100.0	η street_down (%)	74.2
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	45787	η house_up (%)	0.0
NOMINAL FLUX (lm)	45786.5	MAXIMUM @ (C, γ)	15,68.0	η house_down (%)	25.8
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)	220	η down (%)	100.0	SLI	22.074

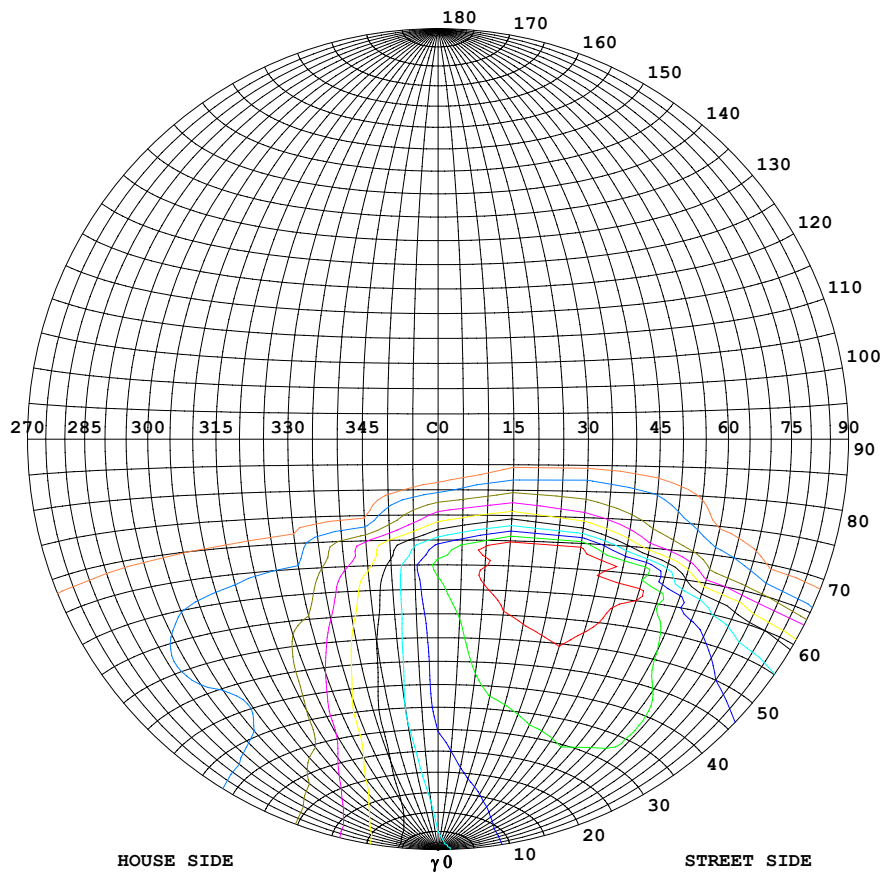


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-09-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.801m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:219.2V I:1.761A P:379.0W PF:0.9819 Freq:49.99Hz Lamp Flux:45786.5x1 lm		
NAME: AOK UNM	TYPE:LED Stadium Light	WEIGHT:8.5KG
SPEC.:AOK-380WiNM-NV-Y2-00-5070-T3M-P	DIM.: Φ 440*200mm	SERIAL No.:
MFR.: AOK	SUR.: Φ 410mm	Shielding Angle:



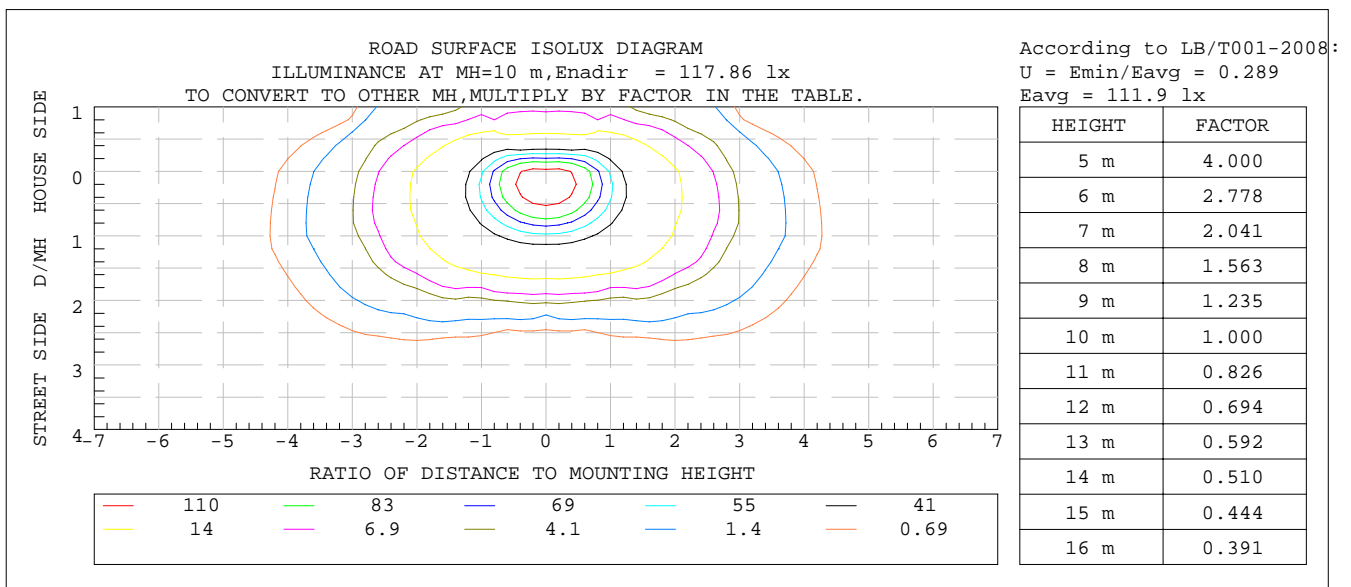
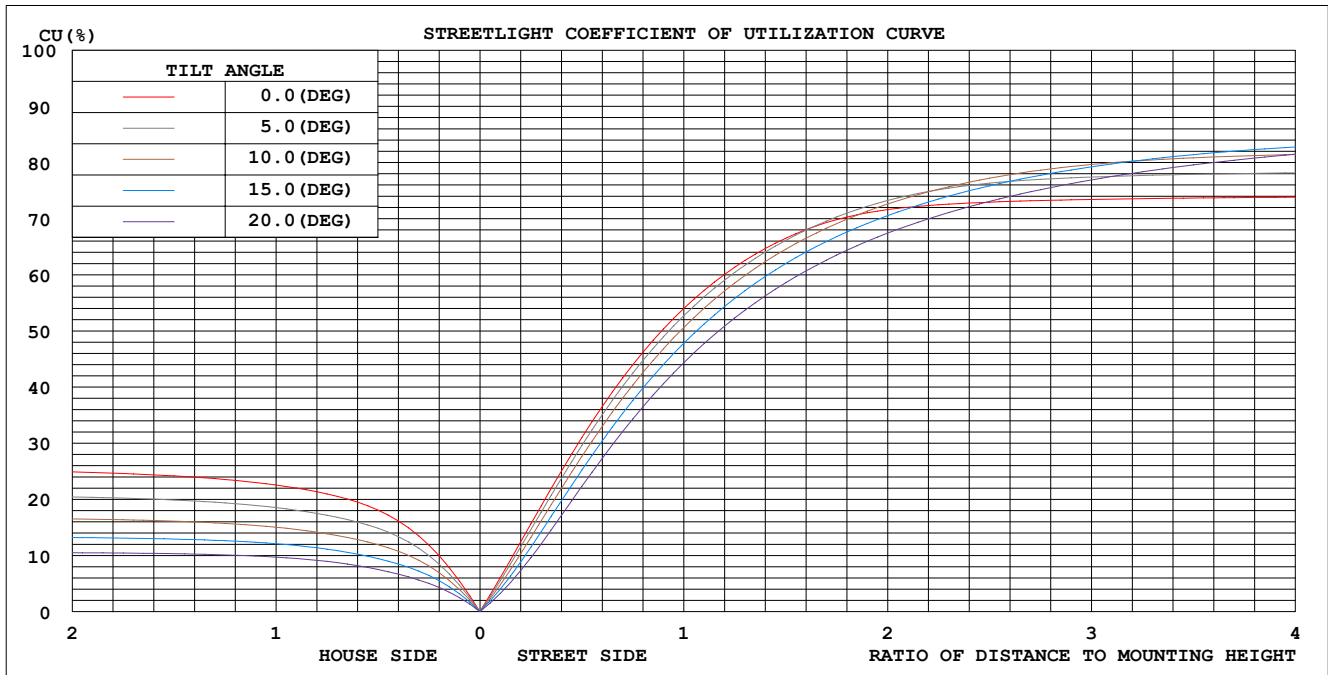
Classification:

IES:Type III - Medium
CIE:Average - Intermediate
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:78.36cd/klm
Max.At90:0cd/klm
Max.80-90:78.36cd/klm
NRB 5101:Limited[6.1%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	20379
90%	18342
80%	16304
70%	14266
60%	12228
50%	10190
40%	8152
30%	6114
20%	4076
10%	2038
5%	1019

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-09-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.801m [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: 2019-09-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.801m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:219.2V I:1.761A P:379.0W PF:0.9819 Freq:49.99Hz Lamp Flux:45786.5x1 lm		
NAME: AOK UNM	TYPE:LED Stadium Light	WEIGHT:8.5KG
SPEC.:AOK-380WinM-NV-Y2-00-5070-T3M-P	DIM.: Φ 440*200mm	SERIAL No.:
MFR.: AOK	SUR.: Φ 410mm	Shielding Angle:

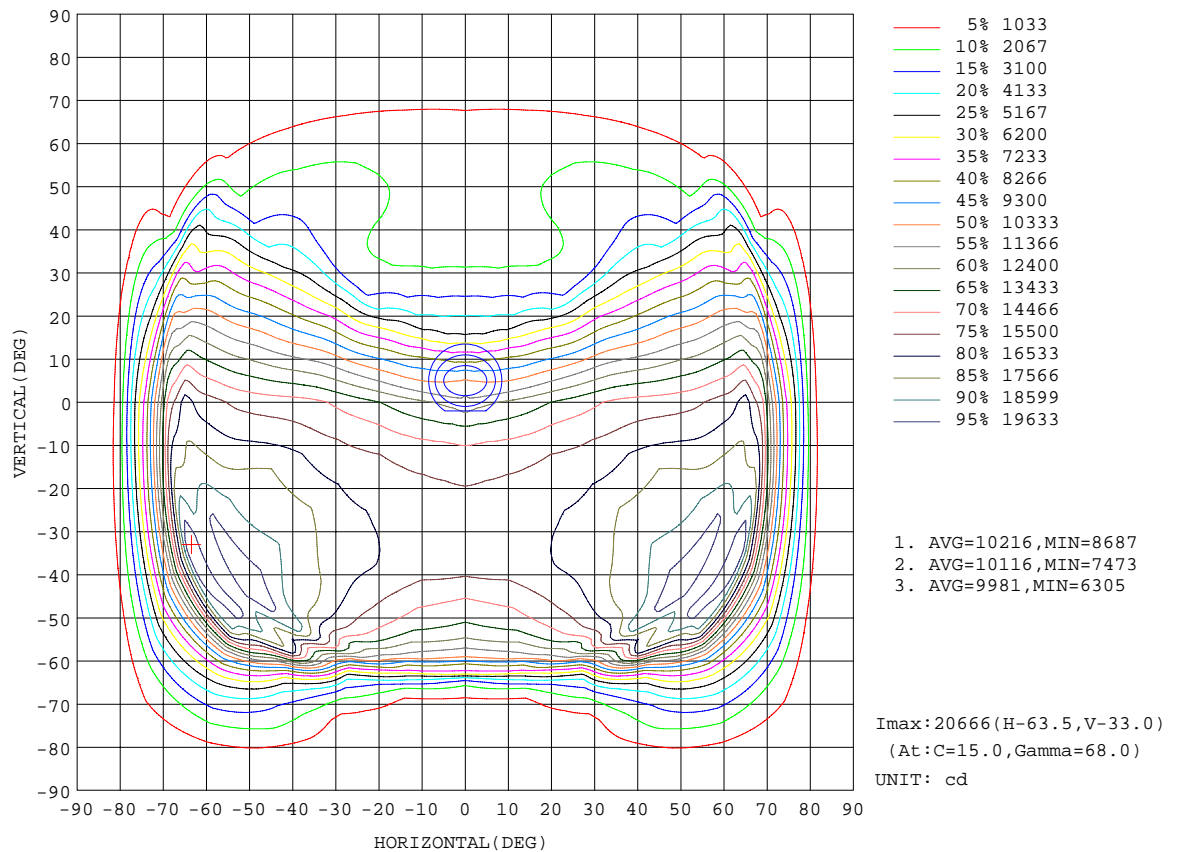
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	1233	1395	1447	1395	1233	952.1	790.9	952.1	0- 10	1131	1131	2.47,2.47
20	1318	1529	1557	1529	1318	677.0	414.3	677.0	10- 20	3249	4381	9.57,9.57
30	1402	1621	1605	1621	1402	390.6	219.6	390.6	20- 30	5137	9518	20.8,20.8
40	1458	1689	1557	1689	1458	238.9	170.4	238.9	30- 40	6812	16330	35.7,35.7
50	1482	1734	1363	1734	1482	245.7	165.2	245.7	40- 50	8344	24674	53.9,53.9
60	1563	1820	918.5	1820	1563	238.1	129.4	238.1	50- 60	9378	34051	74.4,74.4
70	1282	733.5	68.69	733.5	1282	109.3	91.28	109.3	60- 70	8229	42280	92.3,92.3
80	155.6	195.1	29.13	195.1	155.6	46.66	36.82	46.66	70- 80	3097	45377	99.1,99.1
90	0	0	0	0	0	0	0	0	80- 90	409.1	45787	100,100
100	0	0	0	0	0	0	0	0	90-100	0	45787	100,100
110	0	0	0	0	0	0	0	0	100-110	0	45787	100,100
120	0	0	0	0	0	0	0	0	110-120	0	45787	100,100
130	0	0	0	0	0	0	0	0	120-130	0	45787	100,100
140	0	0	0	0	0	0	0	0	130-140	0	45787	100,100
150	0	0	0	0	0	0	0	0	140-150	0	45787	100,100
160	0	0	0	0	0	0	0	0	150-160	0	45787	100,100
170	0	0	0	0	0	0	0	0	160-170	0	45787	100,100
180	0	0	0	0	0	0	0	0	170-180	0	45787	100,100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-09-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.801m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

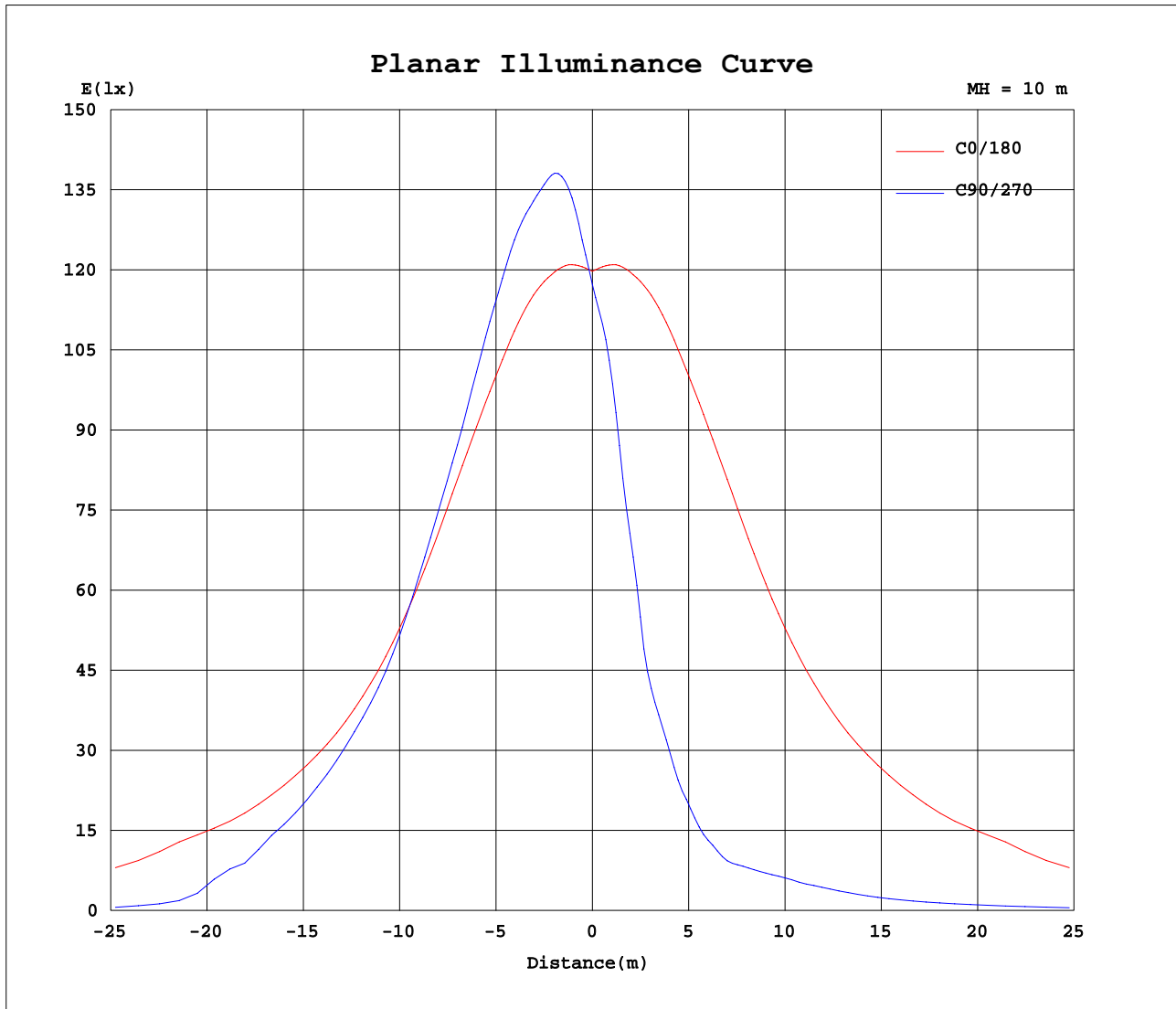
Test:U:219.2V I:1.761A P:379.0W PF:0.9819 Freq:49.99Hz Lamp Flux:45786.5x1 lm		
NAME: AOK UNM	TYPE:LED Stadium Light	WEIGHT:8.5KG
SPEC.:AOK-380WiNM-NV-Y2-00-5070-T3M-P	DIM.: Φ 440*200mm	SERIAL No.:
MFR.: AOK	SUR.: Φ 410mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-09-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.801m [K=1.0000]
Remarks:

Planar Illuminance Curve



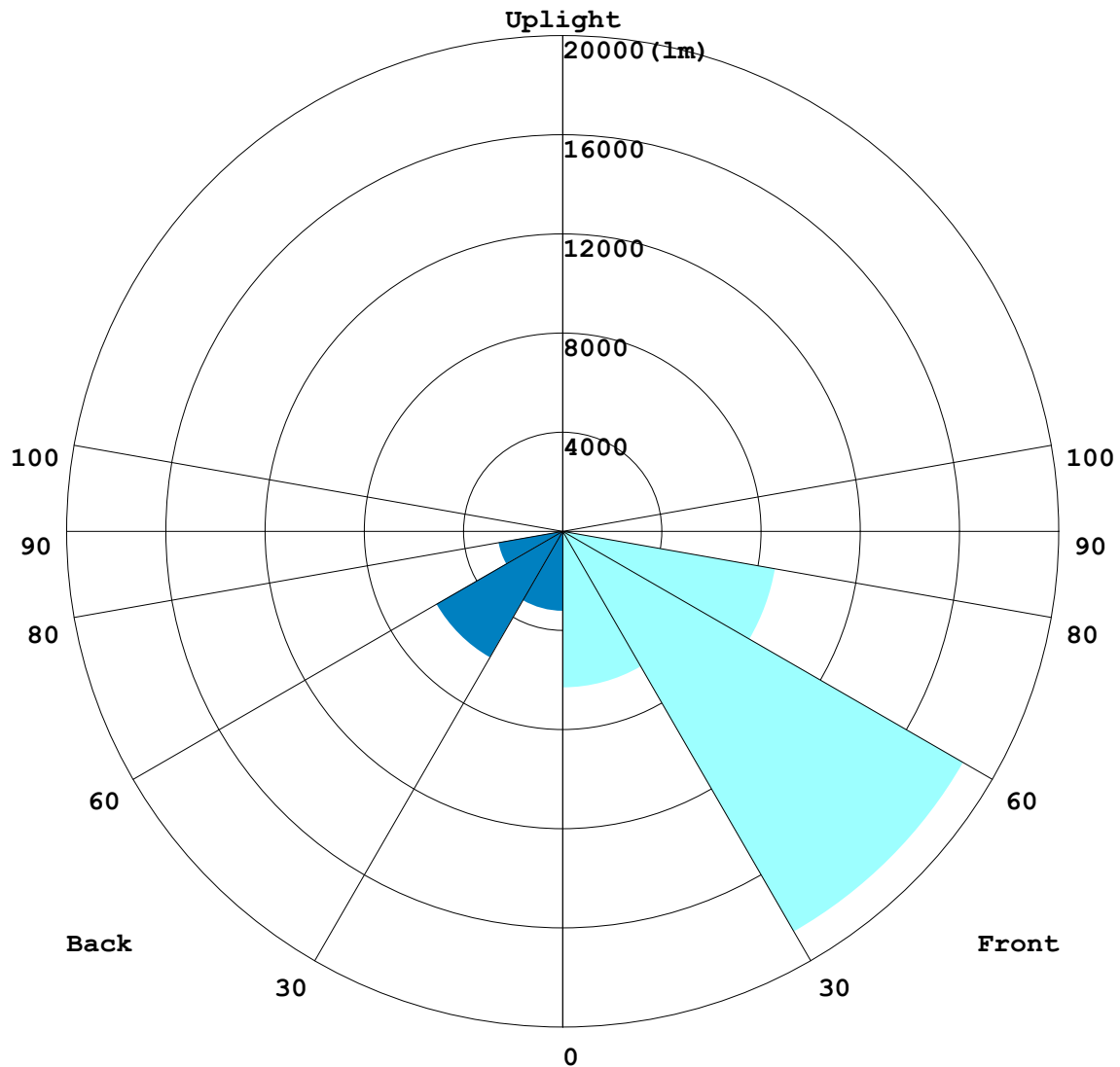
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2019-09-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.801m [K=1.0000]
Remarks:

LCS REPORT

Test:U:219.2V I:1.761A P:379.0W PF:0.9819 Freq:49.99Hz Lamp Flux:45786.5x1 lm		
NAME: AOK UNM	TYPE:LED Stadium Light	WEIGHT:8.5KG
SPEC.:AOK-380WiNM-NV-Y2-00-5070-T3M-P	DIM.: ϕ 440*200mm	SERIAL No.:
MFR.: AOK	SUR.: ϕ 410mm	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-09-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.801m [K=1.0000]
Remarks:

BUG REPORT

Test:U:219.2V I:1.761A P:379.0W PF:0.9819 Freq:49.99Hz Lamp Flux:45786.5x1 lm		
NAME: AOK UNM	TYPE:LED Stadium Light	WEIGHT:8.5KG
SPEC.:AOK-380WInM-NV-Y2-00-5070-T3M-P	DIM.: Φ 440*200mm	SERIAL No.:
MFR.: AOK	SUR.: Φ 410mm	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	6305.1	13.8
FM - Front-Medium(30-60)	18653	40.7
FH - Front-High(60-80)	8702.7	19.0
FVH - Front-Very High(80-90)	303.23	0.7
Total Forward Light	33964	74.2

BL - Back-Low(0-30)	3212.9	7.0
BM - Back-Medium(30-60)	5880	12.8
BH - Back-High(60-80)	2623.4	5.7
BVH - Back-Very High(80-90)	105.85	0.2
Total Back Light	11822	25.8

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	B4-U0-G4
---------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	11822	0	11822
Street Side	33964	0	33964

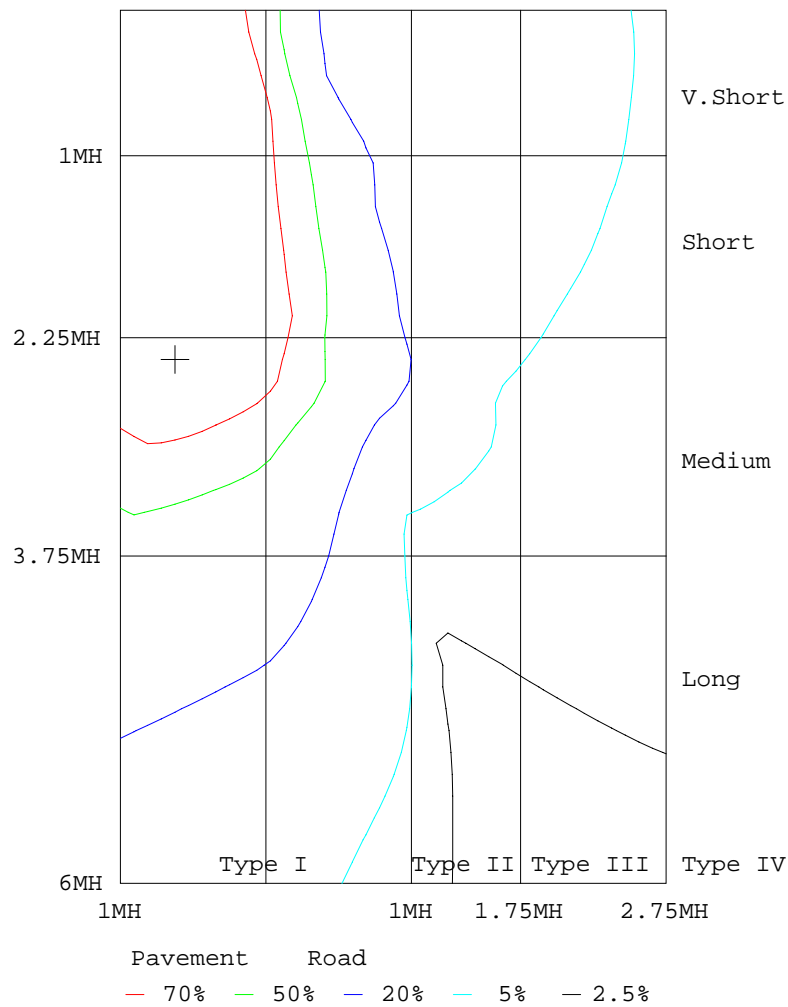
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-09-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.801m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:219.2V I:1.761A P:379.0W PF:0.9819 Freq:49.99Hz Lamp Flux:45786.5x1 lm		
NAME: AOK UNM	TYPE:LED Stadium Light	WEIGHT:8.5KG
SPEC.:AOK-380WInM-NV-Y2-00-5070-T3M-P	DIM.: $\Phi 440 \times 200$ mm	SERIAL No.:
MFR.: AOK	SUR.: $\Phi 410$ mm	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-09-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.801m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.2V I:1.761A P:379.0W PF:0.9819 Freq:49.99Hz Lamp Flux:45786.5x1 lm		
NAME: AOK UNM	TYPE:LED Stadium Light	WEIGHT:8.5KG
SPEC.:AOK-380WiNM-NV-Y2-00-5070-T3M-P	DIM.: Φ 440*200mm	SERIAL No.:
MFR.: AOK	SUR.: Φ 410mm	Shielding Angle:

Table--1

UNIT: $\times 10\text{cd}$

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1174	1174	1174	1174	1174	1174	1174	1174	1174	1174	1174	1174	1174	1174	1174	1174	1174	1174	1174
5	1199	1231	1262	1290	1312	1325	1329	1325	1312	1290	1262	1231	1199	1160	1123	1088	1063	1045	1044
10	1233	1294	1347	1395	1428	1447	1447	1447	1428	1395	1347	1294	1233	1142	1040	952	880	815	791
15	1273	1354	1422	1478	1496	1507	1500	1507	1496	1478	1422	1354	1273	1129	966	828	671	578	544
20	1318	1421	1495	1529	1546	1564	1557	1564	1546	1529	1495	1421	1318	1128	910	677	491	427	414
25	1358	1480	1546	1578	1589	1596	1592	1596	1589	1578	1546	1480	1358	1124	829	555	372	313	301
30	1402	1521	1586	1621	1606	1614	1605	1614	1606	1621	1586	1521	1402	1127	758	391	275	230	220
35	1440	1569	1635	1648	1626	1601	1588	1601	1626	1648	1635	1569	1440	1120	727	292	212	180	170
40	1458	1637	1703	1689	1633	1576	1557	1576	1633	1689	1703	1637	1458	1087	666	239	193	178	170
45	1466	1705	1763	1706	1615	1505	1459	1505	1615	1706	1763	1705	1466	1057	607	232	207	189	173
50	1482	1760	1814	1734	1568	1427	1363	1427	1568	1734	1814	1760	1482	1033	532	246	228	185	165
55	1515	1798	1865	1769	1510	1307	1228	1307	1510	1769	1865	1798	1515	980	429	260	227	178	146
60	1563	1885	1996	1820	1278	1076	918	1076	1278	1820	1996	1885	1563	935	322	238	204	155	129
65	1670	1859	1903	1685	702	431	250	431	702	1685	1903	1859	1670	781	222	181	157	131	115
70	1282	1757	1690	733	264	82.5	68.7	82.5	264	733	1690	1757	1282	601	127	109	98.3	93.9	91.3
75	665	909	711	337	92.3	45.6	47.0	45.6	92.3	337	711	909	665	89.7	84.1	73.3	65.6	63.7	60.8
80	156	359	315	195	38.7	29.5	29.1	29.5	38.7	195	315	359	156	35.7	55.4	46.7	41.3	38.4	36.8
85	13.4	86.4	75.2	50.9	14.0	12.2	11.3	12.2	14.0	50.9	75.2	86.4	13.4	16.0	19.6	16.5	16.5	16.6	16.9
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: 2019-09-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.801m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.2V I:1.761A P:379.0W PF:0.9819 Freq:49.99Hz Lamp Flux:45786.5x1 lm		
NAME: AOK UNM	TYPE:LED Stadium Light	WEIGHT:8.5KG
SPEC.:AOK-380WiNM-NV-Y2-00-5070-T3M-P	DIM.: ϕ 440*200mm	SERIAL No.:
MFR.: AOK	SUR.: ϕ 410mm	Shielding Angle:

Table--2

UNIT: x10cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	1174	1174	1174	1174	1174														
5	1045	1063	1088	1123	1160														
10	815	880	952	1040	1142														
15	578	671	828	966	1129														
20	427	491	677	910	1128														
25	313	372	555	829	1124														
30	230	275	391	758	1127														
35	180	212	292	727	1120														
40	178	193	239	666	1087														
45	189	207	232	607	1057														
50	185	228	246	532	1033														
55	178	227	260	429	980														
60	155	204	238	322	935														
65	131	157	181	222	781														
70	93.9	98.3	109	127	601														
75	63.7	65.6	73.3	84.1	89.7														
80	38.4	41.3	46.7	55.4	35.7														
85	16.6	16.5	16.5	19.6	16.0														
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:2019-09-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.801m [K=1.0000]
Remarks: