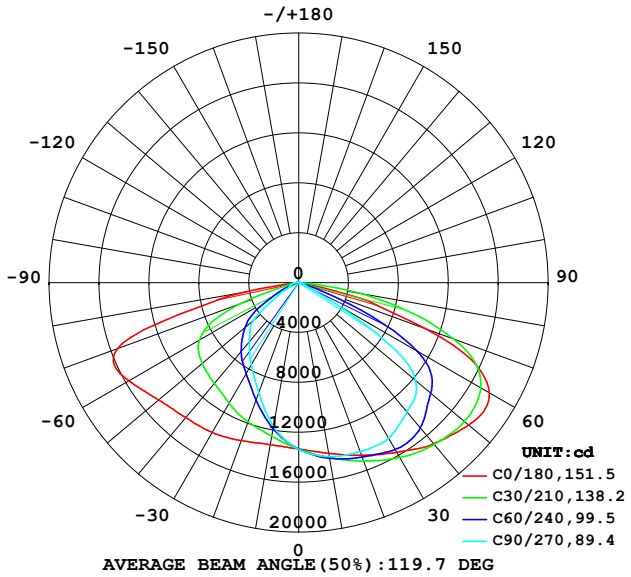
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.43V I:2.4019A P:288.48W PF:0.9973 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:50085.5x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

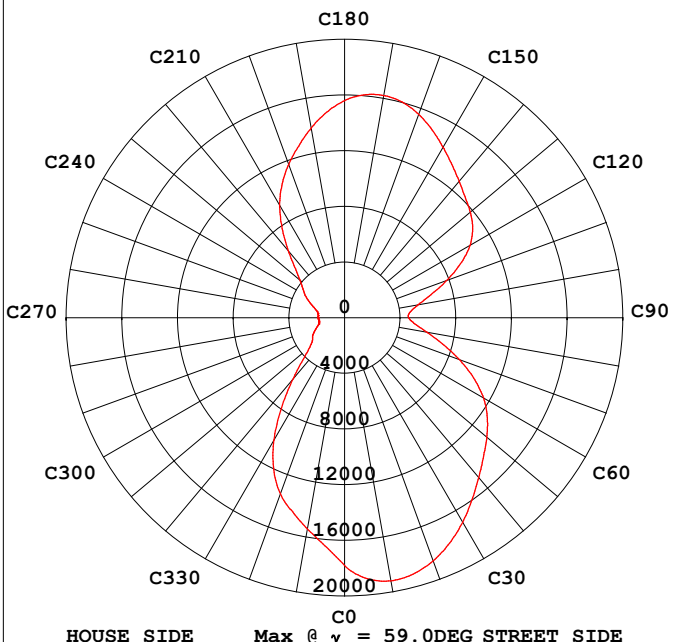
DATA OF LAMP		PHOTOMETRIC DATA Eff: 172.01 lm/W			
MODEL	SB10-500W	Imax(cd)	19064	η street_up(%)	0.0
NOMINAL POWER(W)	300	LOR(%)	99.1	η street_down(%)	61.1
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	49620	η house_up(%)	0.0
NOMINAL FLUX(lm)	50085.5	MAXIMUM @(C,γ)	15,59.0	η house_down(%)	38.0
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	
TEST VOLTAGE(V)	120	η down(%)	99.1	SLI	

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



AVERAGE BEAM ANGLE(50%):119.7 DEG

MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM



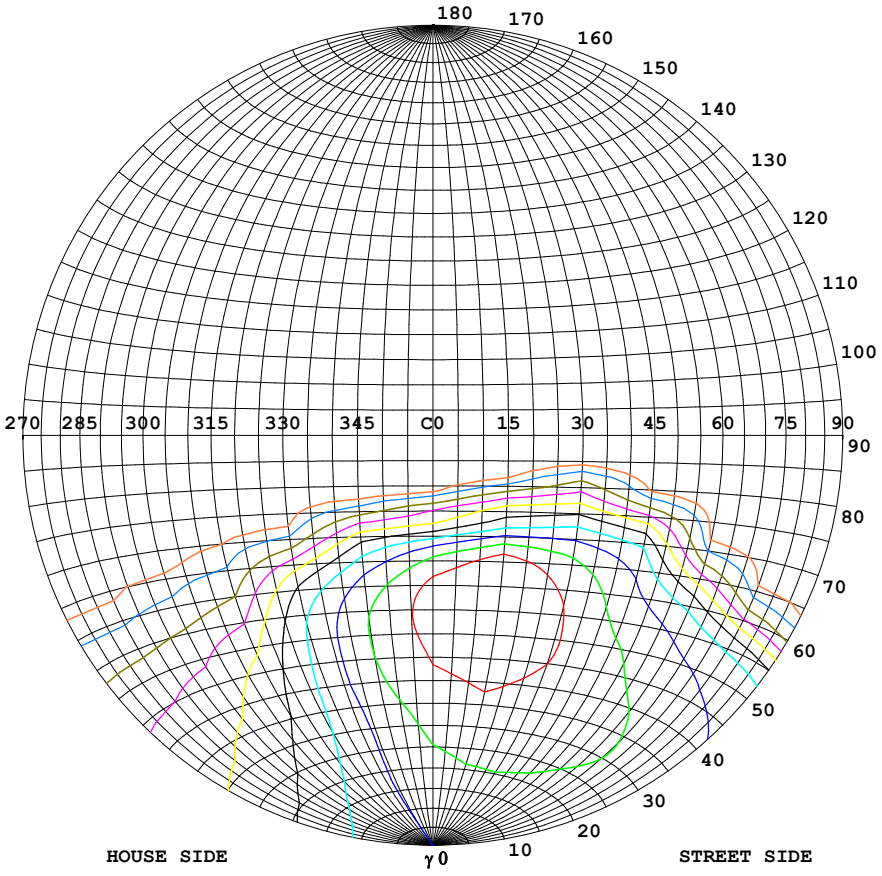
HOUSE SIDE Max @ γ = 59.0DEG STREET SIDE

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:120.43V I:2.4019A P:288.48W PF:0.9973 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:50085.5x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



Classification:

IES:Type III - Short
CIE:Narrow - Short
IES:Semi cut-off
CIE:Non-cut-off
Max.At80:152.6cd/klm
Max.At90:0cd/klm
Max.80-90:152.6cd/klm
NRB 5101:Semi limited[21.8%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	19064
90%	17157
80%	15251
70%	13345
60%	11438
50%	9532
40%	7626
30%	5719
20%	3813
10%	1906
5%	953

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C Interval: 15.0DEG
Test Speed: HIGH
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Operators:DAMIN
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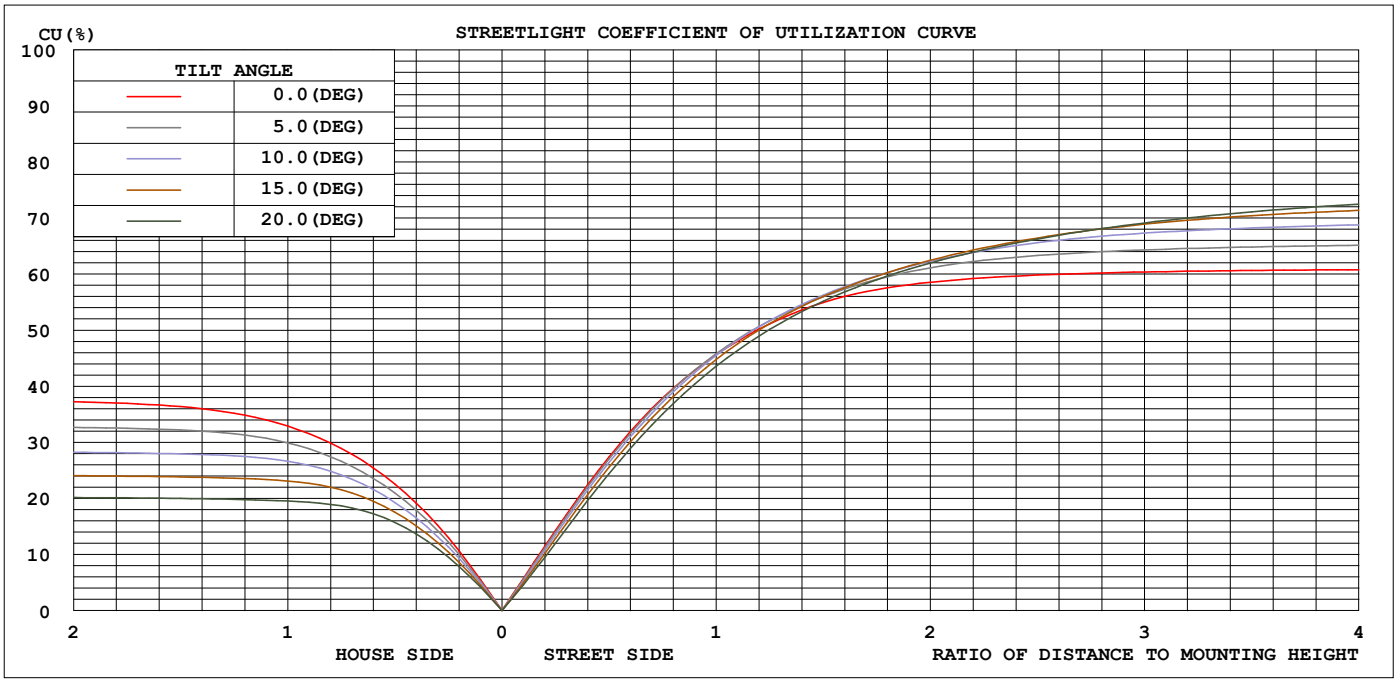
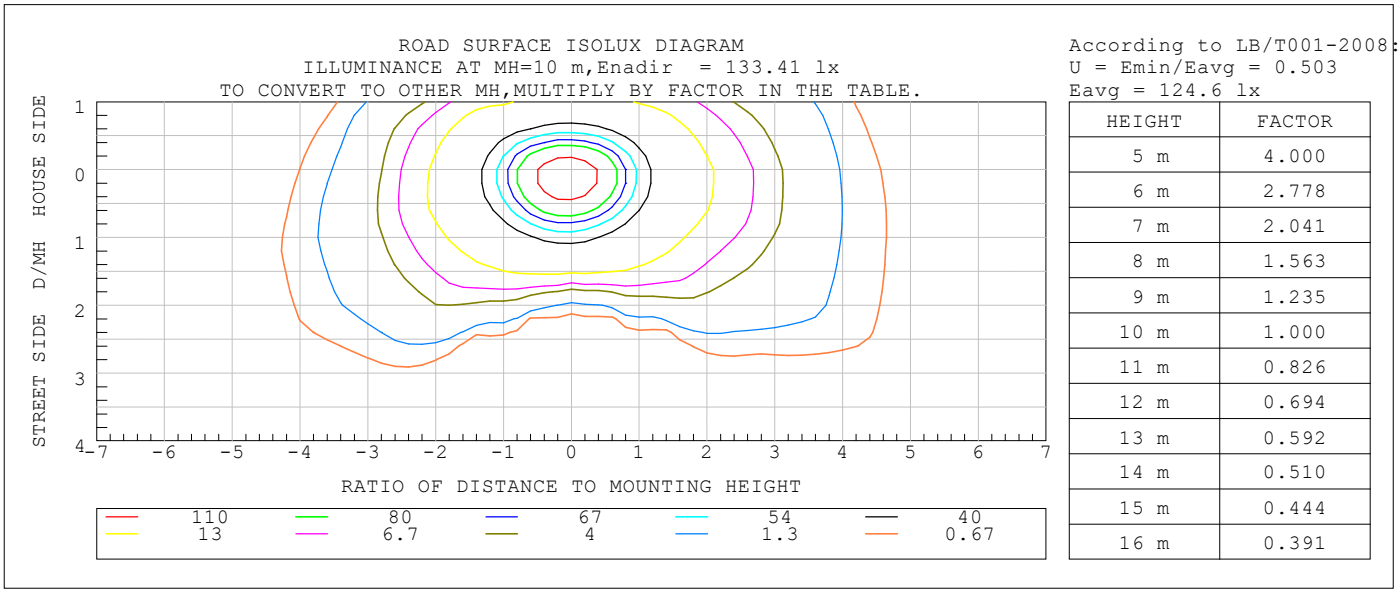
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM





According to LB/T001-2008:
U = Emin/Eavg = 0.503
Eavg = 124.6 lx

HEIGHT	FACTOR
5 m	4.000
6 m	2.778
7 m	2.041
8 m	1.563
9 m	1.235
10 m	1.000
11 m	0.826
12 m	0.694
13 m	0.592
14 m	0.510
15 m	0.444
16 m	0.391

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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:120.43V I:2.4019A P:288.48W PF:0.9973 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:50085.5x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

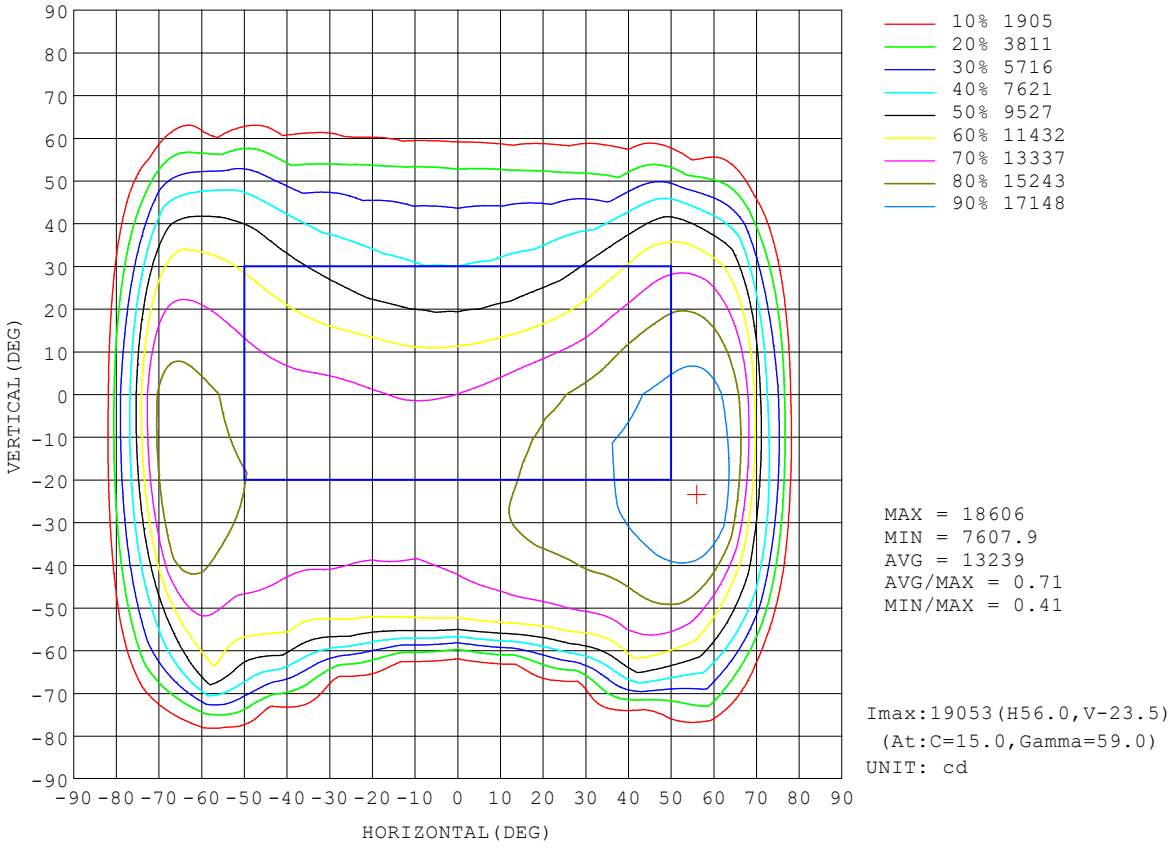
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1389	1429	1416	1381	1319	1214	1171	1259	0- 10	1268	1268	2.56,2.53
20	1472	1510	1441	1412	1348	1086	937.6	1141	10- 20	3705	4973	10,9.93
30	1571	1589	1440	1435	1387	956.3	760.8	1010	20- 30	5926	10899	22,21.8
40	1687	1620	1352	1437	1412	858.2	616.2	904.5	30- 40	7874	18773	37.8,37.5
50	1776	1554	1223	1347	1465	724.3	479.8	721.9	40- 50	9320	28093	56.6,56.1
60	1763	1398	348.5	1214	1573	467.1	174.4	380.6	50- 60	9653	37746	76.1,75.4
70	1079	1102	56.04	866.3	1544	146.1	74.43	94.34	60- 70	7586	45332	91.4,90.5
80	39.90	78.07	26.92	68.17	445.7	41.77	49.01	29.96	70- 80	3778	49109	99,98.1
90	0	0	0	0	0	0	0	0	80- 90	510.9	49620	100,99.1
100	0	0	0	0	0	0	0	0	90-100	0	49620	100,99.1
110	0	0	0	0	0	0	0	0	100-110	0	49620	100,99.1
120	0	0	0	0	0	0	0	0	110-120	0	49620	100,99.1
130	0	0	0	0	0	0	0	0	120-130	0	49620	100,99.1
140	0	0	0	0	0	0	0	0	130-140	0	49620	100,99.1
150	0	0	0	0	0	0	0	0	140-150	0	49620	100,99.1
160	0	0	0	0	0	0	0	0	150-160	0	49620	100,99.1
170	0	0	0	0	0	0	0	0	160-170	0	49620	100,99.1
180	0	0	0	0	0	0	0	0	170-180	0	49620	100,99.1
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.43V I:2.4019A P:288.48W PF:0.9973 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:50085.5x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



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C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

γ Range: 0 - 180DEG
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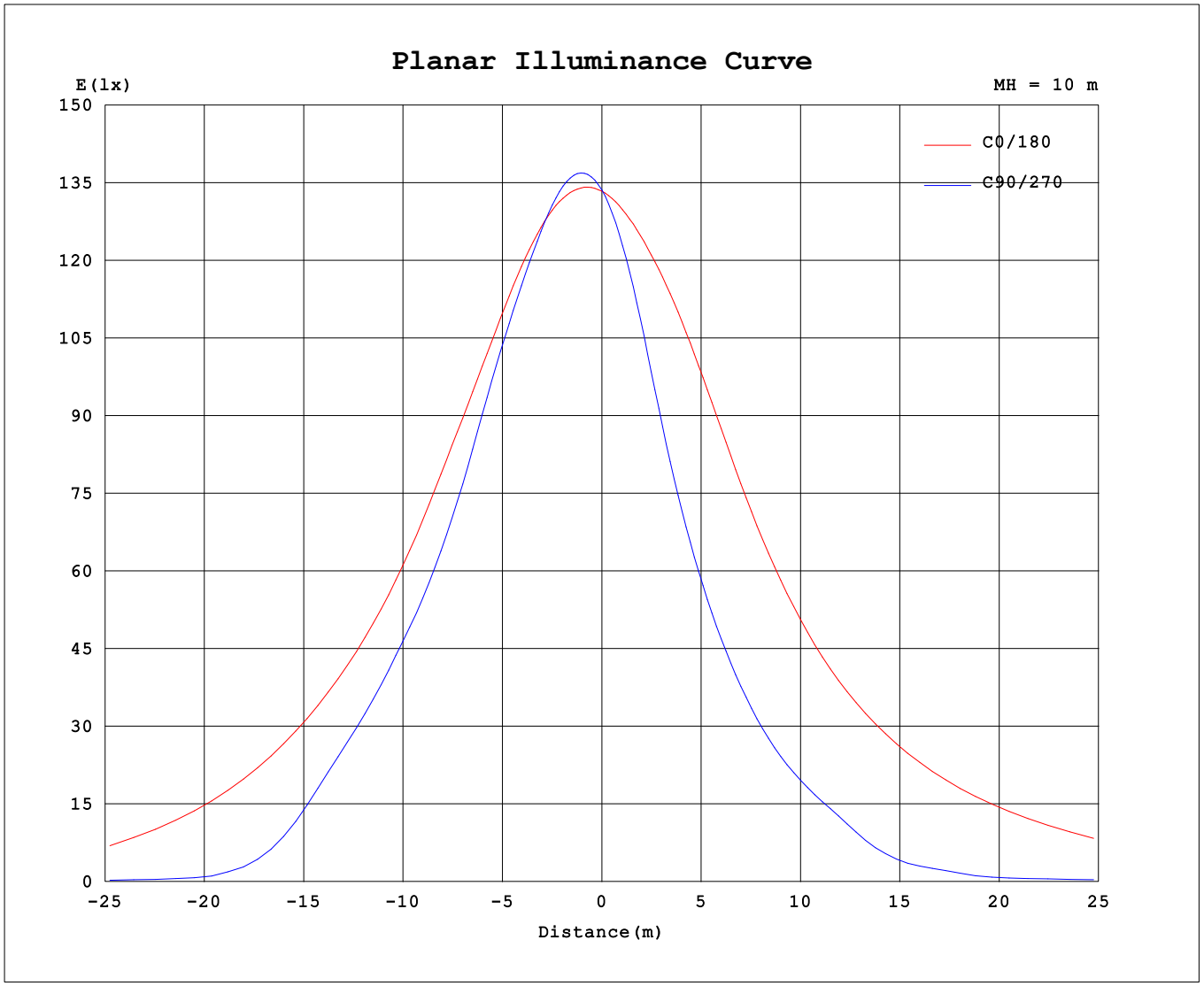
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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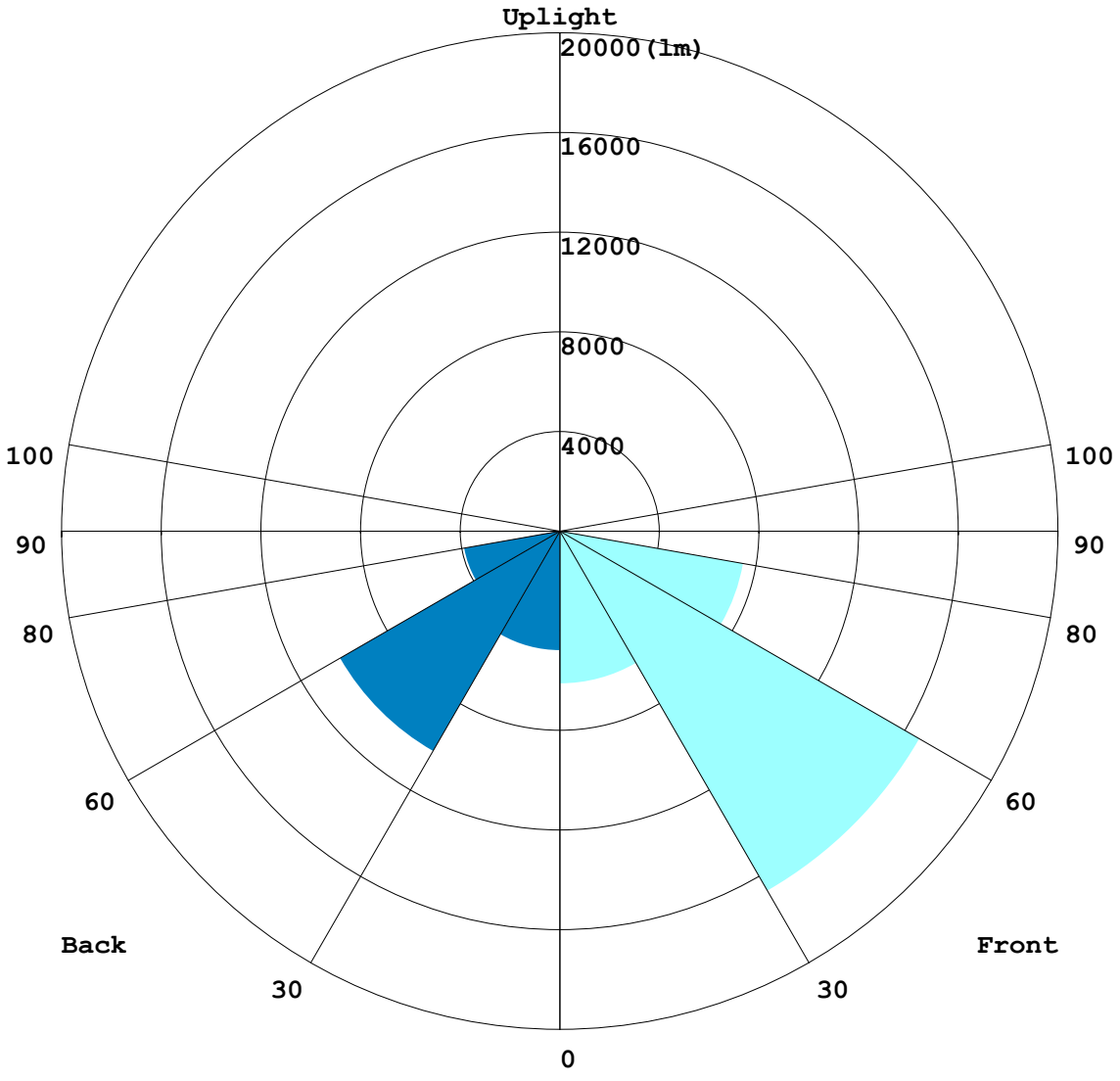
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

LCS REPORT

Test:U:120.43V I:2.4019A P:288.48W PF:0.9973 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:50085.5x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

BUG REPORT

Test:U:120.43V I:2.4019A P:288.48W PF:0.9973 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:50085.5x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	6115.5	12.3
FM - Front-Medium(30-60)	16664	33.6
FH - Front-High(60-80)	7468.8	15.1
FVH - Front-Very High(80-90)	339.28	0.7
Total Forward Light	30587	61.6
BL - Back-Low(0-30)	4783.8	9.6
BM - Back-Medium(30-60)	10183	20.5
BH - Back-High(60-80)	3894.7	7.8
BVH - Back-Very High(80-90)	171.59	0.3
Total Back Light	19033	38.4
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	B5-U0-G4

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	19033	0	19033
Street Side	30587	0	30587

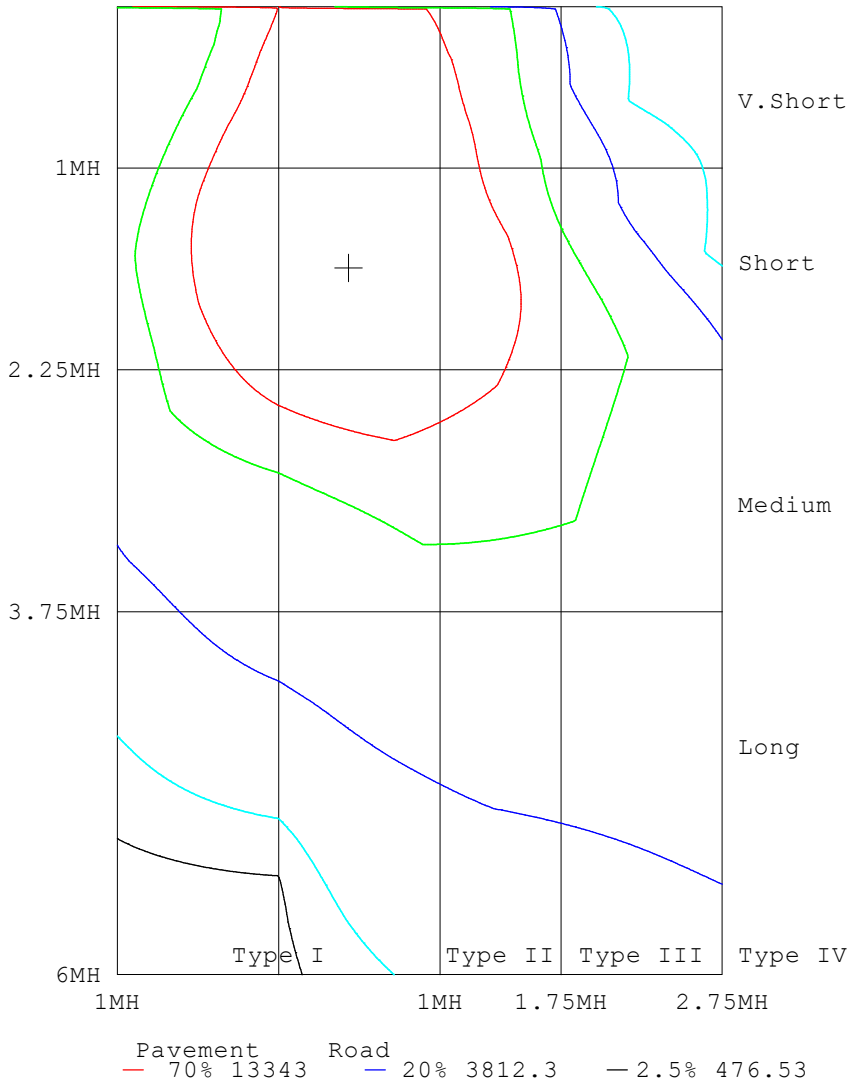
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:120.43V I:2.4019A P:288.48W PF:0.9973 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:50085.5x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

Table--1 UNIT: X10cd

γ (DEG) \ C (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1334	1333	1333	1333	1335	1335	1336	1335	1336	1335	1335	1335	1334	1333	1333	1333	1335	1335	1336
5	1357	1369	1378	1384	1387	1387	1384	1377	1370	1361	1350	1336	1321	1305	1290	1277	1268	1263	1266
10	1389	1412	1425	1429	1429	1424	1416	1405	1394	1381	1366	1345	1319	1287	1250	1214	1188	1171	1171
15	1429	1460	1473	1471	1462	1448	1433	1419	1409	1399	1385	1363	1329	1280	1218	1151	1096	1060	1054
20	1472	1512	1521	1510	1488	1463	1441	1425	1417	1412	1404	1386	1348	1281	1189	1086	1003	948	938
25	1520	1567	1571	1548	1515	1479	1448	1431	1424	1424	1424	1409	1369	1284	1155	1019	915	854	843
30	1571	1623	1618	1589	1545	1487	1440	1427	1433	1435	1437	1432	1387	1279	1117	956	844	776	761
35	1629	1685	1662	1616	1549	1461	1398	1392	1420	1443	1451	1450	1399	1268	1080	907	784	707	688
40	1687	1735	1693	1620	1519	1399	1352	1326	1377	1437	1458	1466	1412	1262	1054	858	719	638	616
45	1730	1781	1717	1602	1447	1351	1315	1285	1299	1409	1462	1482	1432	1268	1033	800	643	572	555
50	1776	1835	1733	1554	1382	1293	1223	1227	1246	1347	1458	1509	1465	1277	1009	724	563	507	480
55	1806	1886	1726	1473	1301	1113	958	1050	1182	1272	1444	1555	1514	1282	979	617	465	347	288
60	1763	1904	1685	1398	1095	604	348	519	981	1214	1405	1618	1573	1273	920	467	294	194	174
65	1575	1812	1574	1300	660	132	80.5	110	519	1121	1335	1682	1619	1227	787	290	171	88.7	86.9
70	1079	1365	1317	1102	189	55.5	56.0	57.0	128	866	1255	1627	1544	1110	494	146	70.3	67.3	74.4
75	584	867	935	611	48.2	43.1	41.5	44.6	46.1	442	1188	1156	998	758	128	69.2	49.2	53.7	66.8
80	39.9	237	501	78.1	28.5	28.2	26.9	29.7	30.1	68.2	764	643	446	185	56.8	41.8	32.6	39.4	49.0
85	11.9	38.2	47.1	15.1	14.8	13.8	13.5	15.2	17.1	19.6	106	115	46.7	79.9	16.0	22.4	18.2	32.7	34.0
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
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Humidity:65.0%
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Remarks:

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NAME: SB10-500W	TYPE: 300W	WEIGHT:
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MFR.:	SUR.: 0.31*0.42	Shielding Angle:

Table--2 UNIT: X10cd

γ (DEG) \ C(DEG)	285	300	315	330	345														
0	1335	1336	1335	1335	1335														
5	1272	1286	1302	1322	1340														
10	1185	1218	1259	1308	1353														
15	1076	1132	1206	1292	1370														
20	965	1037	1141	1269	1388														
25	873	948	1072	1241	1405														
30	795	875	1010	1214	1425														
35	721	806	958	1200	1458														
40	645	725	905	1197	1499														
45	573	637	831	1188	1522														
50	494	544	722	1171	1535														
55	314	413	561	1118	1513														
60	177	235	381	981	1416														
65	82.5	125	207	670	1207														
70	65.9	60.2	94.3	234	859														
75	53.4	44.1	52.6	56.6	301														
80	43.9	30.0	30.0	28.5	43.1														
85	34.7	15.5	14.0	12.0	13.5														
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:25.3℃
Operators:DAMIN
Test Date:2024-12-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks: