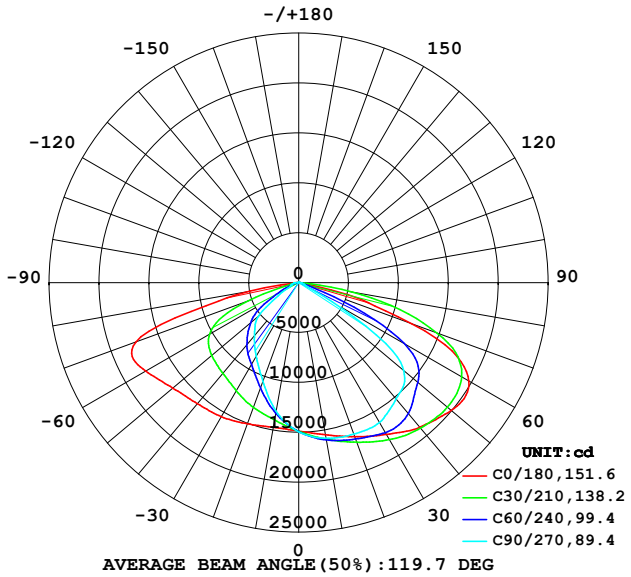
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.23V I:2.8657A P:343.91W PF:0.9981 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:56164x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

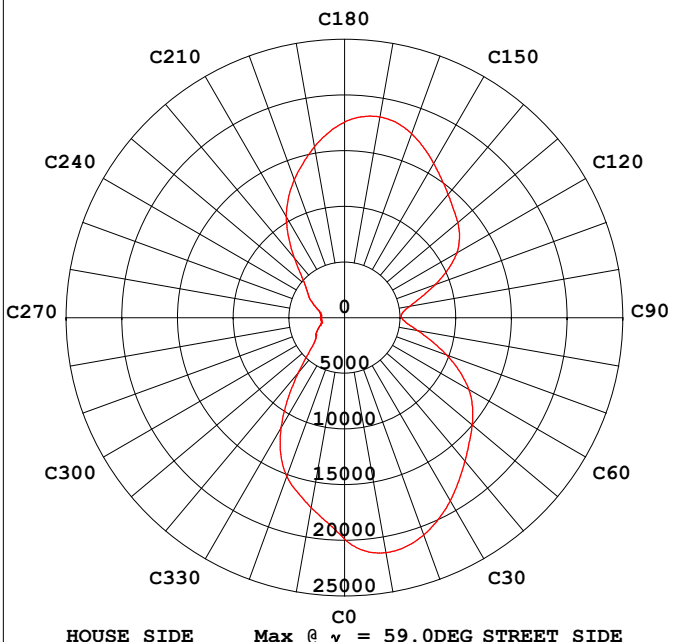
DATA OF LAMP		PHOTOMETRIC DATA Eff: 161.79 lm/W			
MODEL	SB10-500W	Imax(cd)	21290	η street_up(%)	0.0
NOMINAL POWER(W)	350	LOR(%)	99.1	η street_down(%)	61.1
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	55640	η house_up(%)	0.0
NOMINAL FLUX(lm)	56164	MAXIMUM @(C,γ)	15,59.0	η house_down(%)	38.0
LAMPS INSIDE	1	η up(%)	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



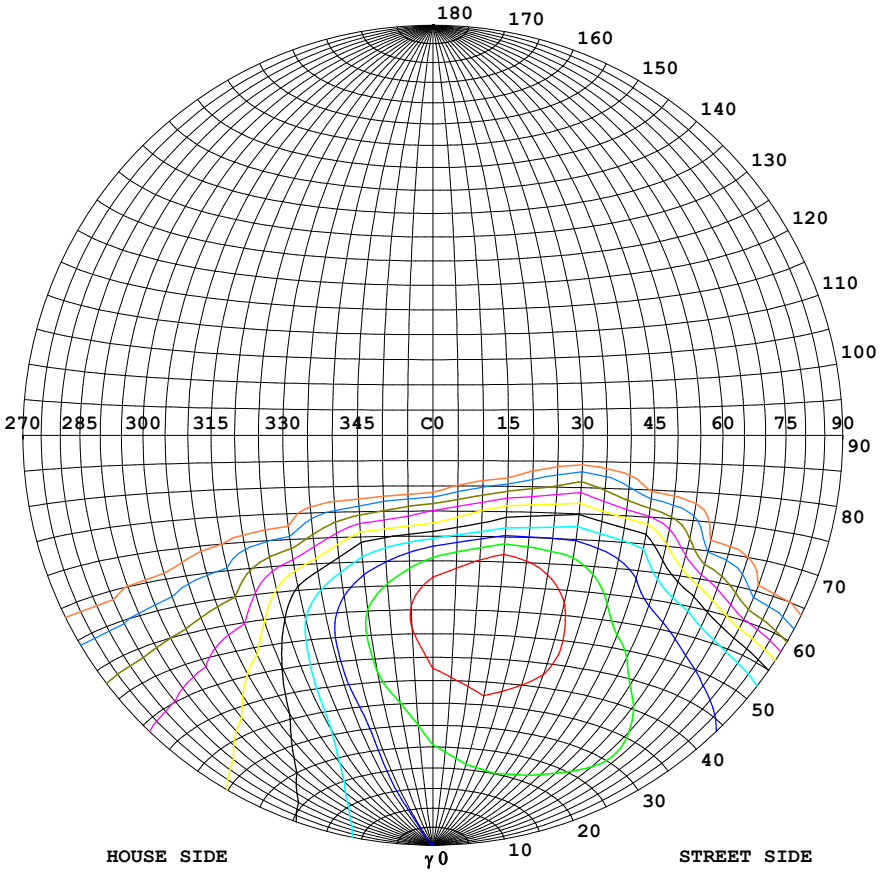
HOUSE SIDE Max @ γ = 59.0DEG STREET SIDE

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:120.23V I:2.8657A P:343.91W PF:0.9981 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:56164x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 5000K	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.At80:146.9cd/klm
Max.At90:0cd/klm
Max.80-90:146.9cd/klm
NRB 5101:Semi limited[21.7%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	21290
90%	19161
80%	17032
70%	14903
60%	12774
50%	10645
40%	8516
30%	6387
20%	4258
10%	2129
5%	1064

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
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Operators:DAMIN
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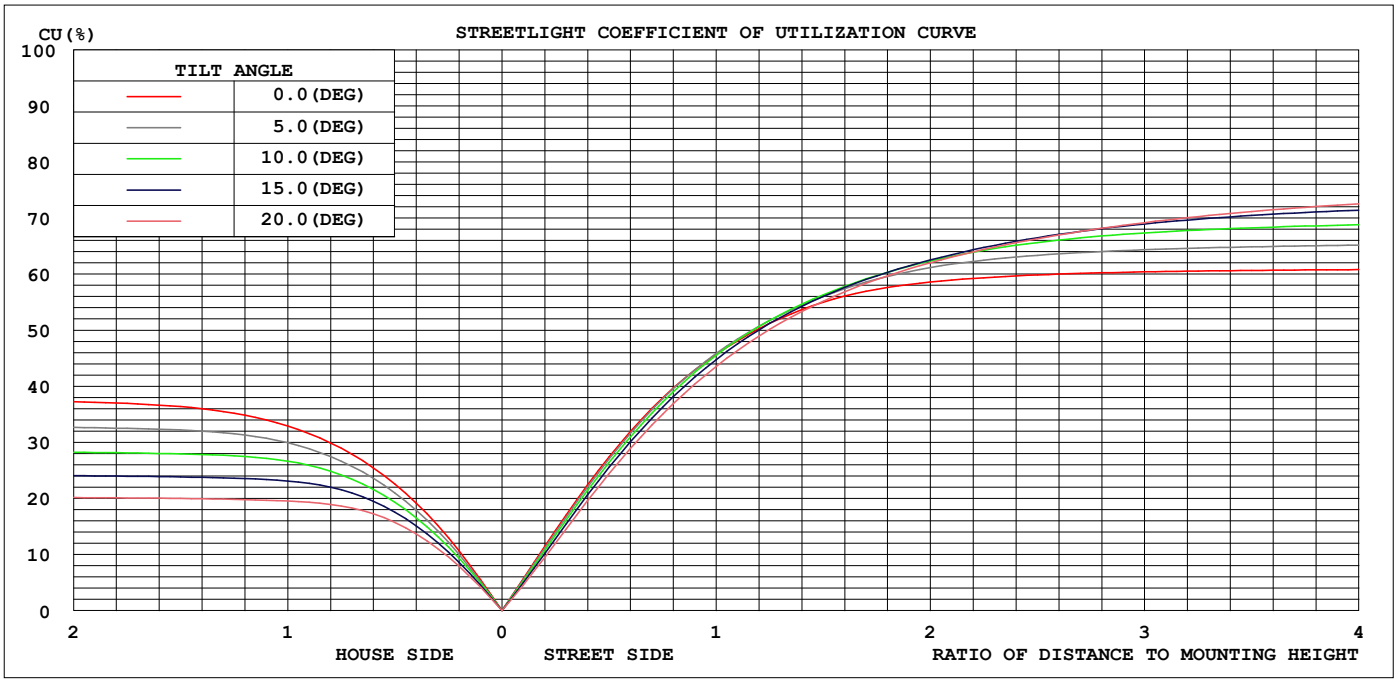
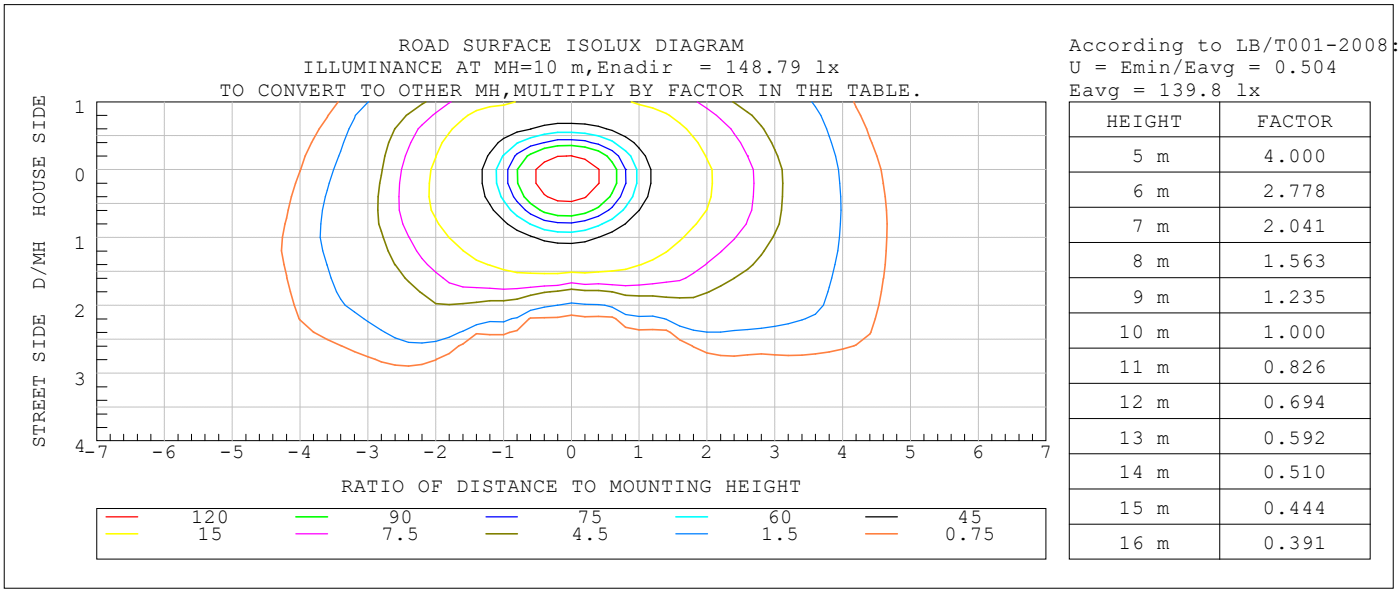
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM





According to LB/T001-2008:
U = Emin/Eavg = 0.504
Eavg = 139.8 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

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:

ZONAL FLUX DIAGRAM

Test:U:120.23V I:2.8657A P:343.91W PF:0.9981 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:56164x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

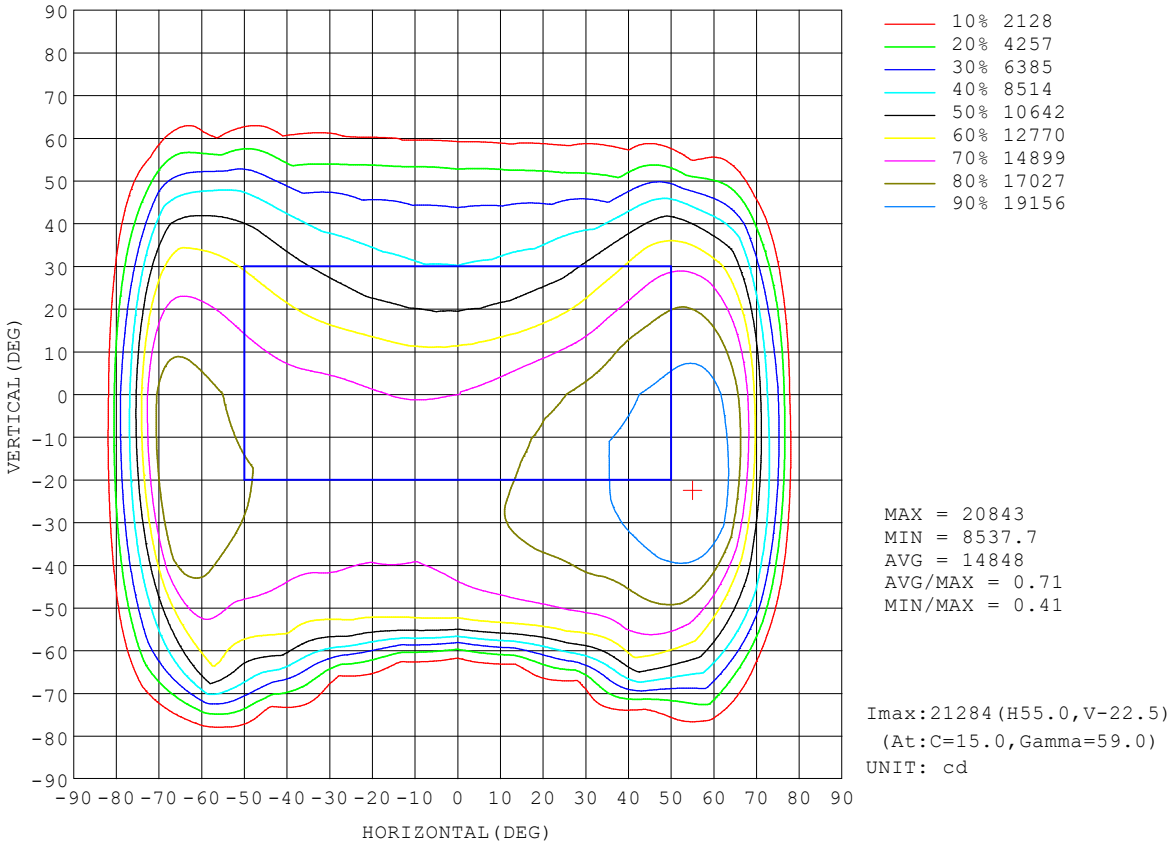
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1548	1598	1585	1547	1472	1359	1310	1408	0- 10	1418	1418	2.55,2.52
20	1642	1690	1616	1584	1506	1217	1051	1276	10- 20	4146	5564	10,9.91
30	1756	1786	1619	1611	1551	1073	853.8	1132	20- 30	6642	12206	21.9,21.7
40	1891	1823	1521	1616	1583	966.3	691.6	1015	30- 40	8844	21050	37.8,37.5
50	1994	1749	1375	1518	1646	813.2	535.2	807.4	40- 50	10478	31528	56.7,56.1
60	1968	1568	389.5	1369	1771	520.9	196.0	423.8	50- 60	10838	42365	76.1,75.4
70	1203	1218	62.92	968.9	1734	162.6	83.14	104.8	60- 70	8495	50860	91.4,90.6
80	42.91	86.47	30.05	77.93	493.7	46.49	54.81	33.74	70- 80	4218	55078	99,98.1
90	0	0	0	0	0	0	0	0	80- 90	562.3	55640	100,99.1
100	0	0	0	0	0	0	0	0	90-100	0	55640	100,99.1
110	0	0	0	0	0	0	0	0	100-110	0	55640	100,99.1
120	0	0	0	0	0	0	0	0	110-120	0	55640	100,99.1
130	0	0	0	0	0	0	0	0	120-130	0	55640	100,99.1
140	0	0	0	0	0	0	0	0	130-140	0	55640	100,99.1
150	0	0	0	0	0	0	0	0	140-150	0	55640	100,99.1
160	0	0	0	0	0	0	0	0	150-160	0	55640	100,99.1
170	0	0	0	0	0	0	0	0	160-170	0	55640	100,99.1
180	0	0	0	0	0	0	0	0	170-180	0	55640	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

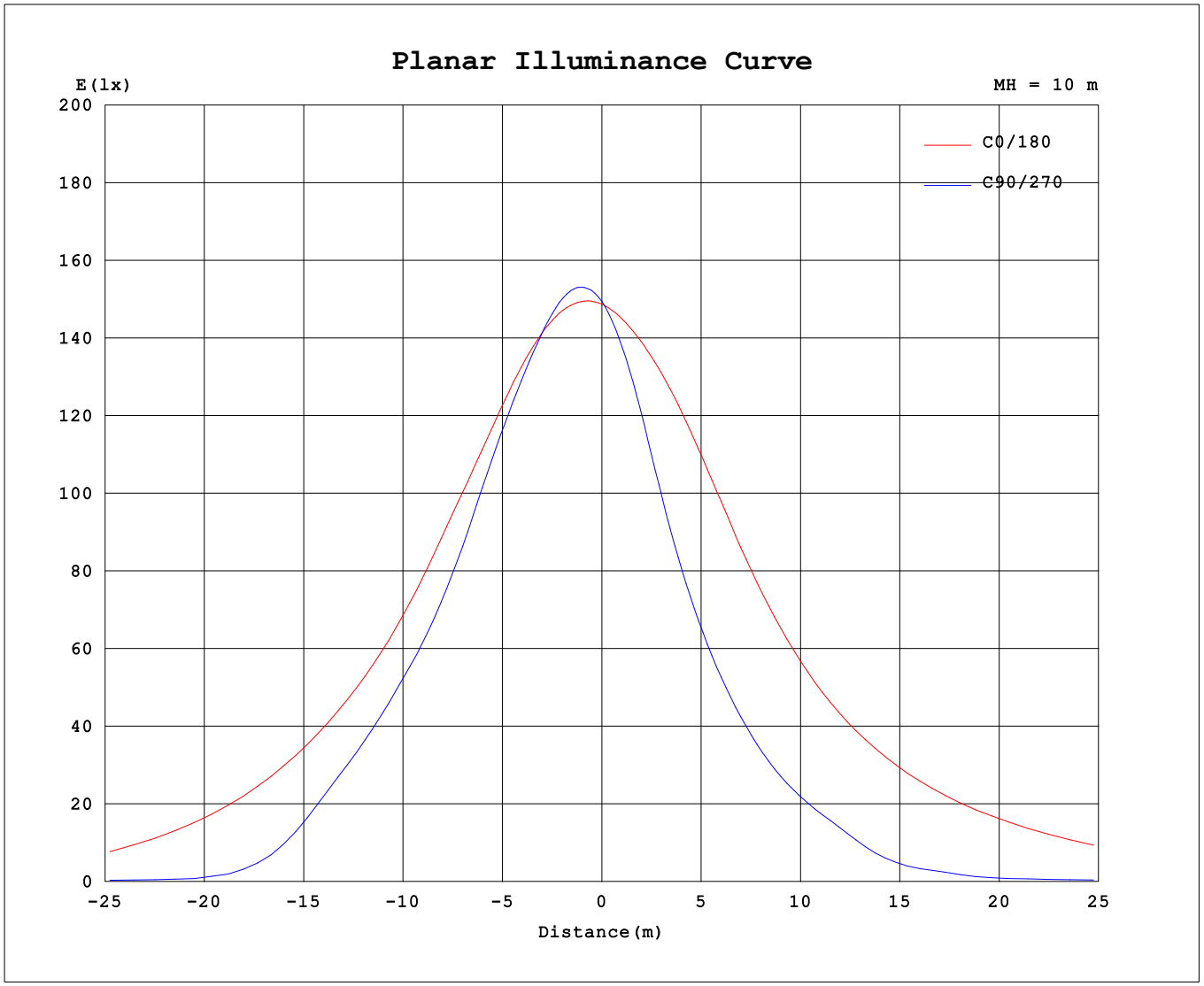
Test:U:120.23V I:2.8657A P:343.91W PF:0.9981 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:56164x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



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:

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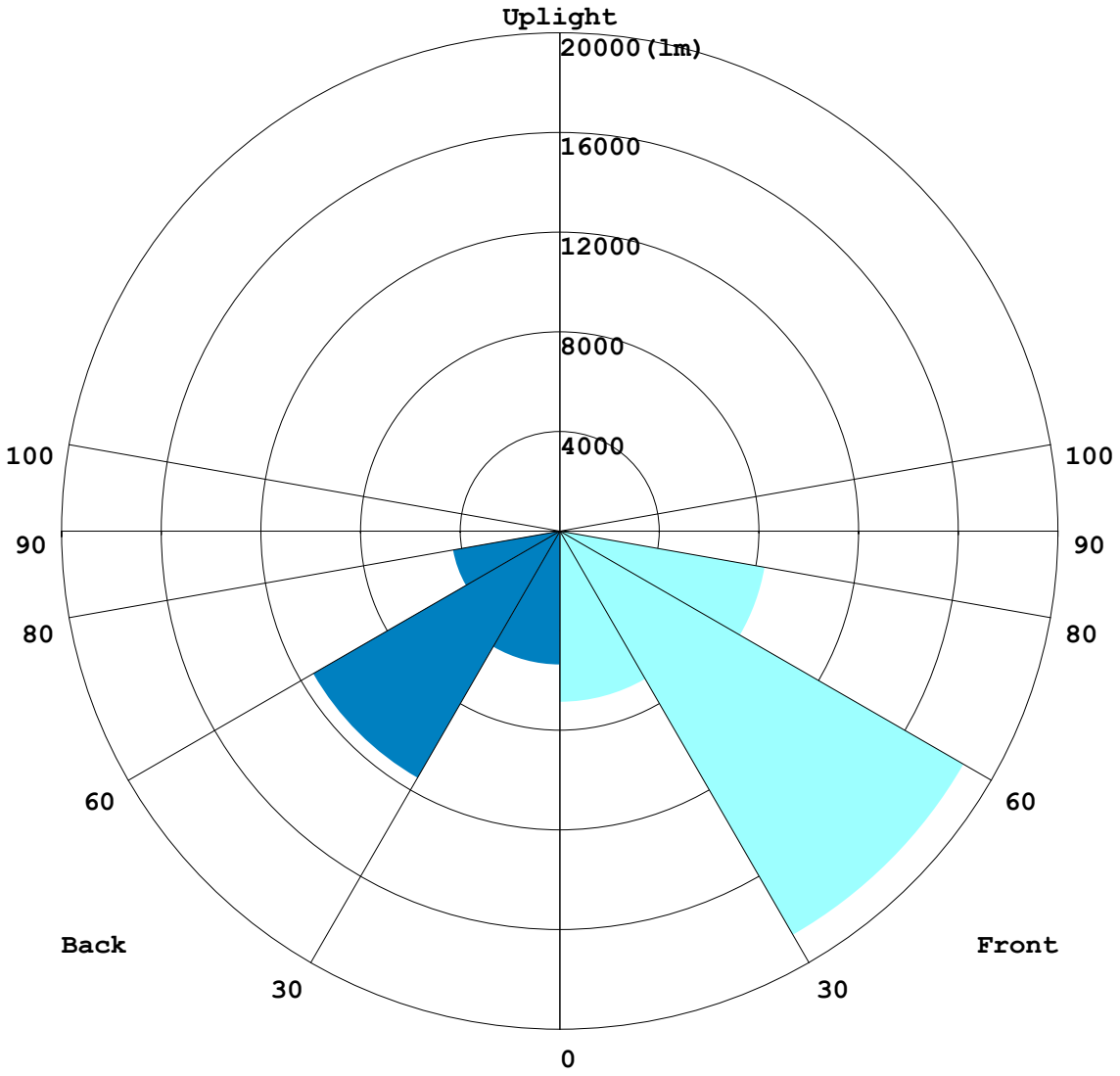
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

LCS REPORT

Test:U:120.23V I:2.8657A P:343.91W PF:0.9981 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:56164x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 5000K	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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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:

BUG REPORT

Test:U:120.23V I:2.8657A P:343.91W PF:0.9981 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:56164x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 5000K	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)	6851.2	12.3
FM - Front-Medium(30-60)	18720	33.6
FH - Front-High(60-80)	8354.4	15.0
FVH - Front-Very High(80-90)	371.28	0.7
Total Forward Light	34297	61.6
BL - Back-Low(0-30)	5354.9	9.6
BM - Back-Medium(30-60)	11439	20.6
BH - Back-High(60-80)	4358.1	7.8
BVH - Back-Very High(80-90)	191	0.3
Total Back Light	21343	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	21343	0	21343
Street Side	34297	0	34297

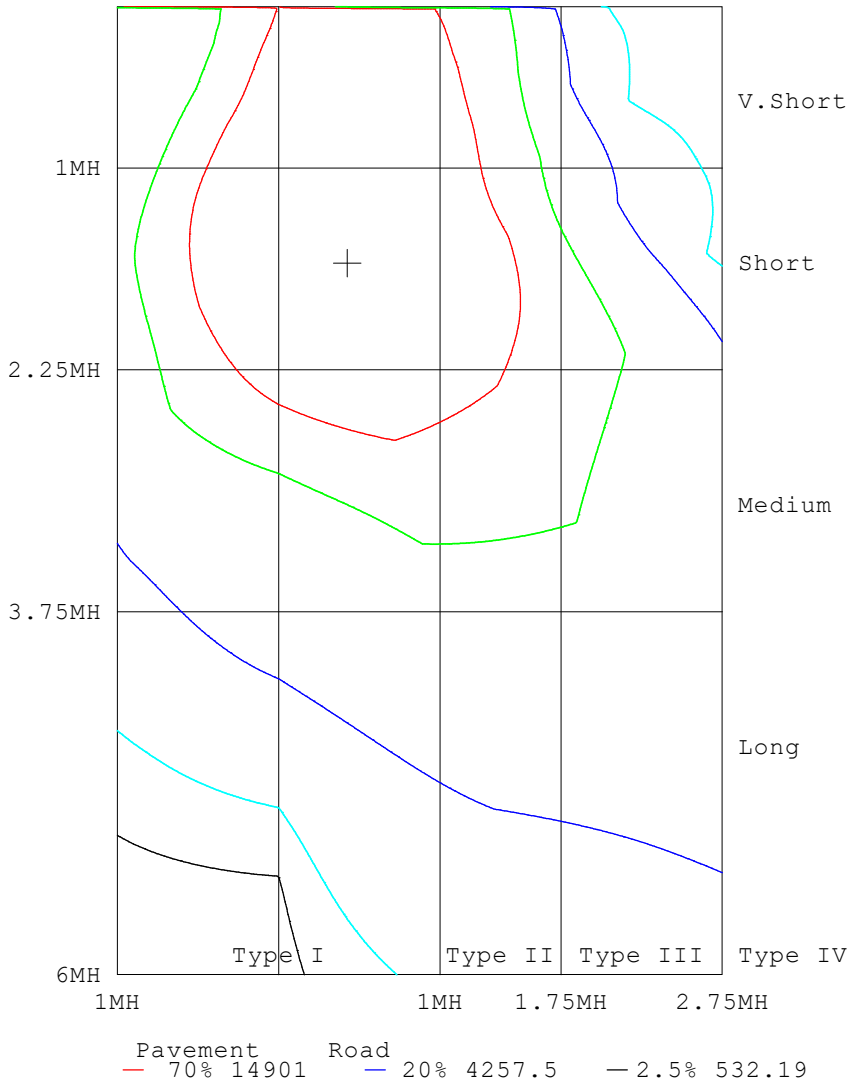
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.23V I:2.8657A P:343.91W PF:0.9981 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:56164x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 5000K	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%
Test Distance:9.630m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.23V I:2.8657A P:343.91W PF:0.9981 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:56164x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 5000K	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	1488	1488	1490	1491	1493	1494	1495	1493	1494	1494	1495	1494	1488	1488	1490	1491	1493	1494	1495
5	1513	1528	1540	1546	1552	1552	1548	1541	1533	1523	1511	1496	1474	1458	1442	1427	1419	1413	1415
10	1548	1575	1592	1598	1600	1594	1585	1573	1561	1547	1531	1508	1472	1438	1398	1359	1329	1310	1310
15	1592	1629	1646	1645	1637	1622	1605	1590	1578	1567	1553	1528	1484	1431	1363	1289	1228	1187	1179
20	1642	1689	1702	1690	1668	1640	1616	1598	1589	1584	1576	1555	1506	1432	1331	1217	1124	1063	1051
25	1698	1753	1760	1737	1701	1659	1626	1605	1598	1597	1597	1582	1529	1436	1294	1143	1028	959	945
30	1756	1818	1817	1786	1736	1671	1619	1603	1608	1611	1613	1607	1551	1432	1252	1073	949	872	854
35	1826	1890	1867	1817	1744	1645	1573	1565	1596	1620	1629	1628	1566	1422	1213	1020	883	796	773
40	1891	1947	1901	1823	1711	1575	1521	1492	1548	1616	1640	1648	1583	1416	1185	966	809	718	692
45	1940	1998	1929	1803	1631	1521	1480	1447	1460	1586	1645	1668	1607	1426	1162	900	722	642	621
50	1994	2056	1944	1749	1557	1455	1375	1380	1402	1518	1644	1701	1646	1437	1137	813	630	567	535
55	2024	2110	1934	1655	1463	1243	1065	1168	1327	1434	1631	1756	1702	1445	1102	690	519	390	324
60	1968	2127	1886	1568	1222	669	389	573	1094	1369	1590	1829	1771	1435	1030	521	329	219	196
65	1753	2020	1761	1450	730	146	90.9	123	574	1259	1513	1903	1825	1381	879	322	191	102	99.3
70	1203	1524	1472	1218	198	62.4	62.9	63.9	152	969	1425	1834	1734	1249	547	163	78.9	75.6	83.1
75	649	968	1050	665	54.6	48.4	46.5	50.2	52.2	496	1341	1295	1118	848	141	77.3	55.4	60.0	74.4
80	42.9	264	540	86.5	32.3	31.6	30.1	33.1	33.9	77.9	825	722	494	205	63.3	46.5	36.6	44.0	54.8
85	13.7	43.0	51.8	17.3	16.8	15.5	15.0	16.9	19.3	22.3	129	124	52.9	86.6	18.2	25.2	20.5	36.2	37.9
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
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NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

Table--2 UNIT: X10cd

γ (DEG) \ C(DEG)	285	300	315	330	345														
0	1493	1494	1494	1495	1494														
5	1422	1437	1456	1479	1500														
10	1326	1362	1408	1461	1513														
15	1205	1266	1348	1445	1532														
20	1081	1160	1276	1420	1553														
25	979	1062	1200	1389	1573														
30	892	981	1132	1361	1598														
35	809	904	1075	1346	1638														
40	723	813	1015	1346	1688														
45	640	713	933	1339	1717														
50	552	607	807	1321	1733														
55	353	460	627	1260	1707														
60	205	264	424	1101	1591														
65	94.1	139	229	744	1345														
70	73.9	67.7	105	254	953														
75	59.7	49.8	59.2	63.9	332														
80	49.2	33.8	33.7	32.5	47.6														
85	38.9	17.5	15.8	13.7	16.9														
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: