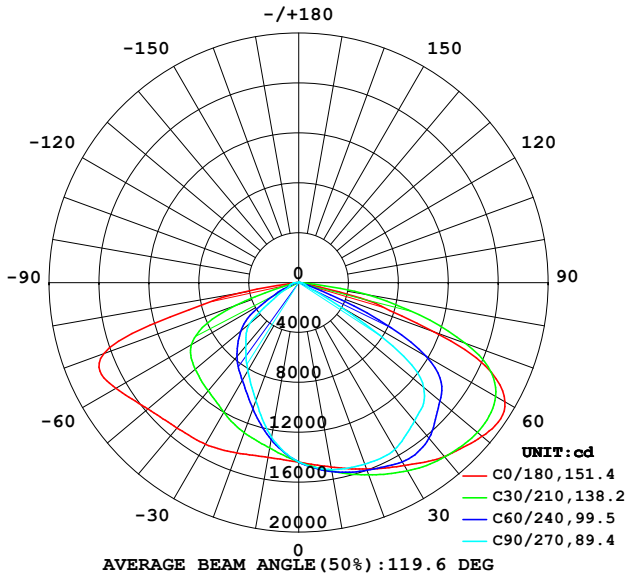
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.24V I:2.8598A P:343.20W PF:0.9981 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:53799.6x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

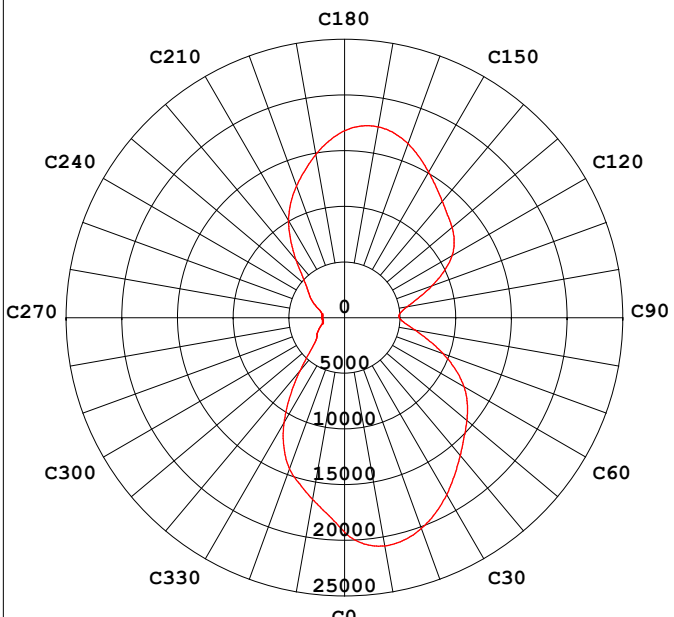
DATA OF LAMP		PHOTOMETRIC DATA Eff: 155.29 lm/W			
MODEL	SB10-500W	Imax(cd)	20672	η street_up(%)	0.0
NOMINAL POWER(W)	350	LOR(%)	99.1	η street_down(%)	61.0
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	53297	η house_up(%)	0.0
NOMINAL FLUX(lm)	53799.6	MAXIMUM @(C,γ)	15,59.0	η house_down(%)	38.0
LAMPS INSIDE	1	η 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%):119.6 DEG

MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM



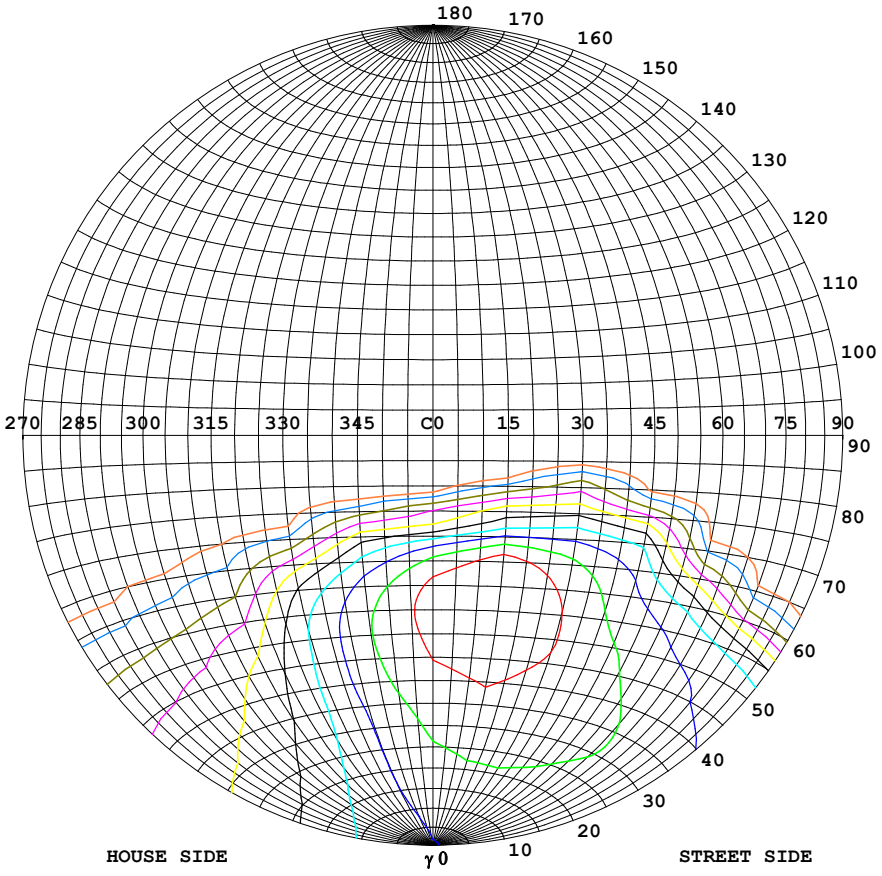
HOUSE SIDE Max @ γ = 59.0DEG STREET SIDE

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:120.24V I:2.8598A P:343.20W PF:0.9981 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:53799.6x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



Classification:

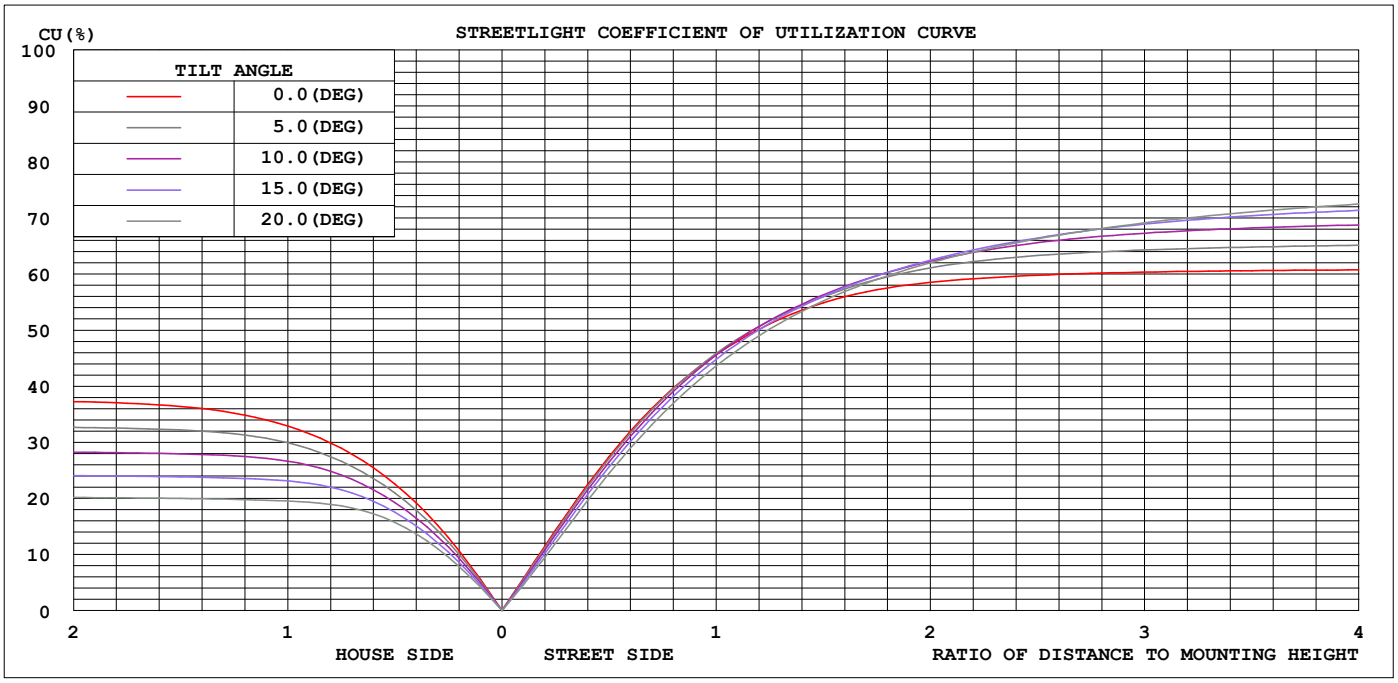
IES:Type III - Short
CIE:Narrow - Short
IES:Semi cut-off
CIE:Non-cut-off
Max.At80:154.8cd/klm
Max.At90:0cd/klm
Max.80-90:154.8cd/klm
NRB 5101:Semi limited[22.0%]

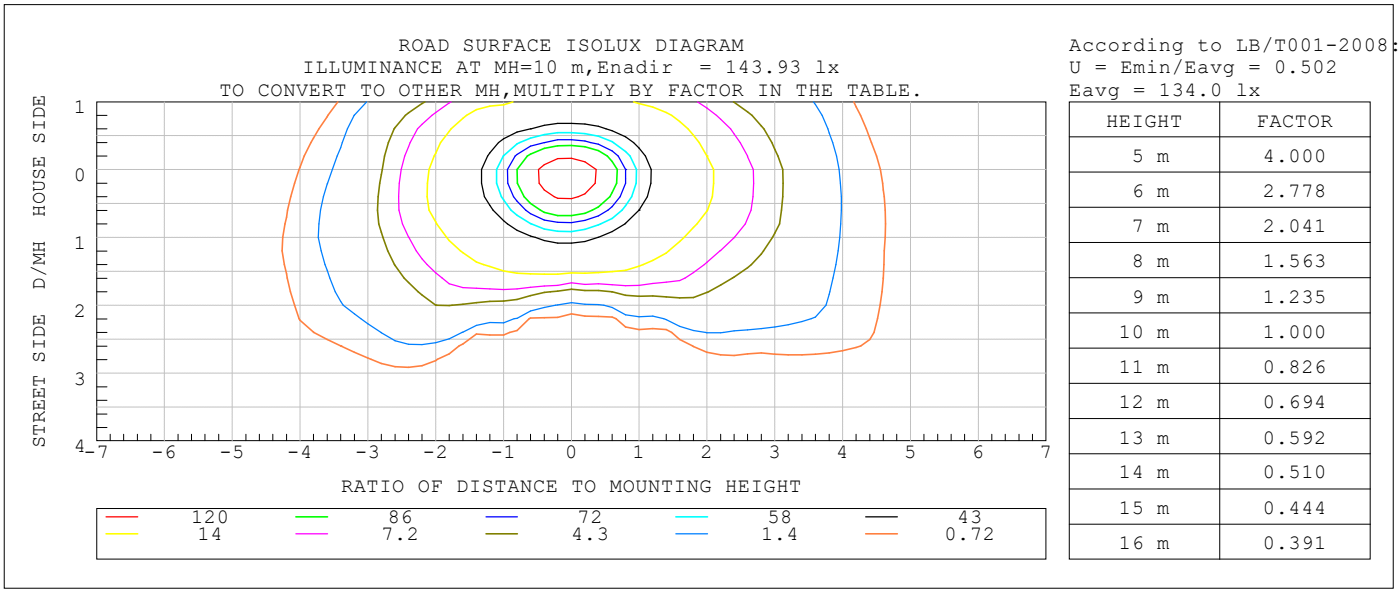
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	20672
90%	18605
80%	16538
70%	14471
60%	12403
50%	10336
40%	8269
30%	6202
20%	4134
10%	2067
5%	1034

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:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM





According to LB/T001-2008:
U = Emin/Eavg = 0.502
Eavg = 134.0 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:120.24V I:2.8598A P:343.20W PF:0.9981 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:53799.6x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

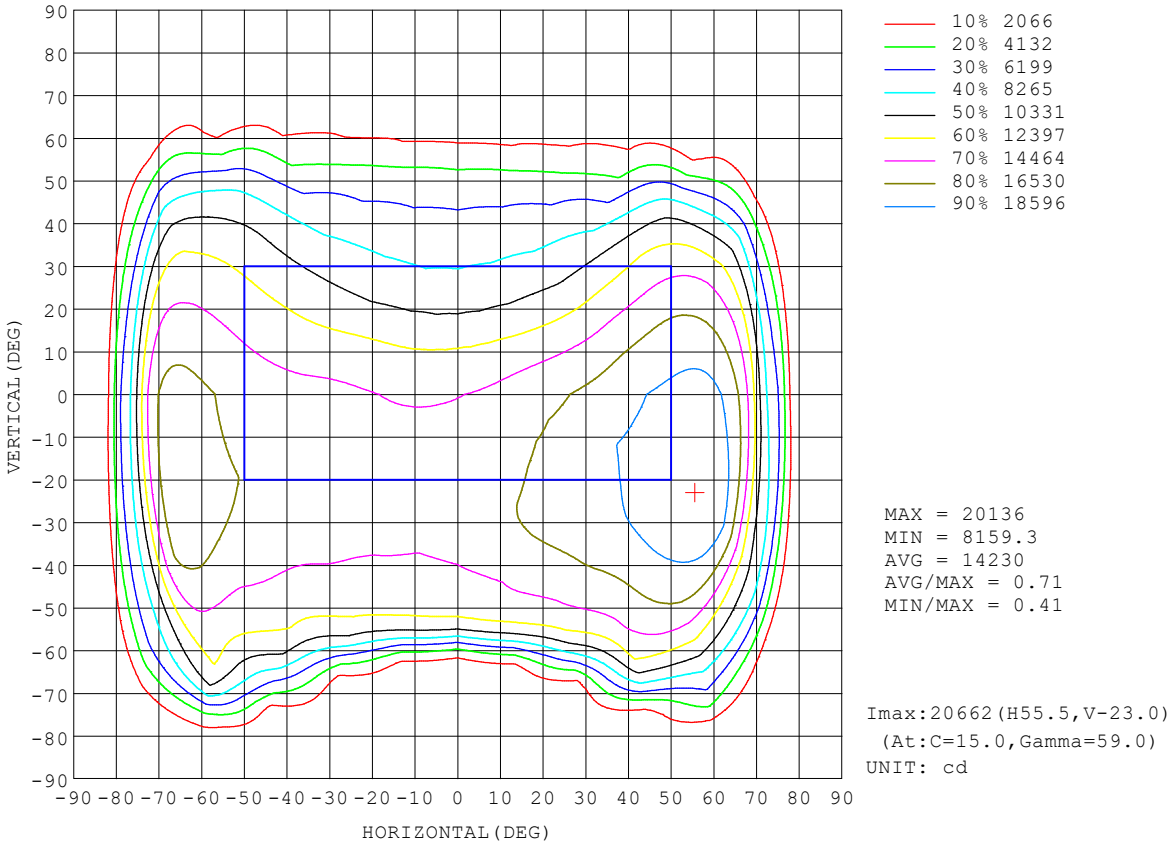
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1500	1540	1521	1482	1422	1307	1258	1352	0- 10	1364	1364	2.56,2.53
20	1589	1625	1547	1515	1453	1167	1005	1226	10- 20	3983	5347	10,9.94
30	1693	1708	1543	1538	1496	1026	815.9	1083	20- 30	6367	11714	22,21.8
40	1820	1740	1445	1539	1520	920.3	662.1	970.9	30- 40	8450	20164	37.8,37.5
50	1918	1669	1308	1440	1576	778.9	517.0	777.2	40- 50	10006	30170	56.6,56.1
60	1908	1505	371.2	1296	1693	504.3	185.6	411.3	50- 60	10372	40542	76.1,75.4
70	1157	1201	60.00	922.5	1661	157.7	80.34	102.1	60- 70	8160	48702	91.4,90.5
80	43.95	80.85	29.13	68.70	477.3	45.28	52.94	32.12	70- 80	4048	52750	99,98
90	0	0	0	0	0	0	0	0	80- 90	546.9	53297	100,99.1
100	0	0	0	0	0	0	0	0	90-100	0	53297	100,99.1
110	0	0	0	0	0	0	0	0	100-110	0	53297	100,99.1
120	0	0	0	0	0	0	0	0	110-120	0	53297	100,99.1
130	0	0	0	0	0	0	0	0	120-130	0	53297	100,99.1
140	0	0	0	0	0	0	0	0	130-140	0	53297	100,99.1
150	0	0	0	0	0	0	0	0	140-150	0	53297	100,99.1
160	0	0	0	0	0	0	0	0	150-160	0	53297	100,99.1
170	0	0	0	0	0	0	0	0	160-170	0	53297	100,99.1
180	0	0	0	0	0	0	0	0	170-180	0	53297	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

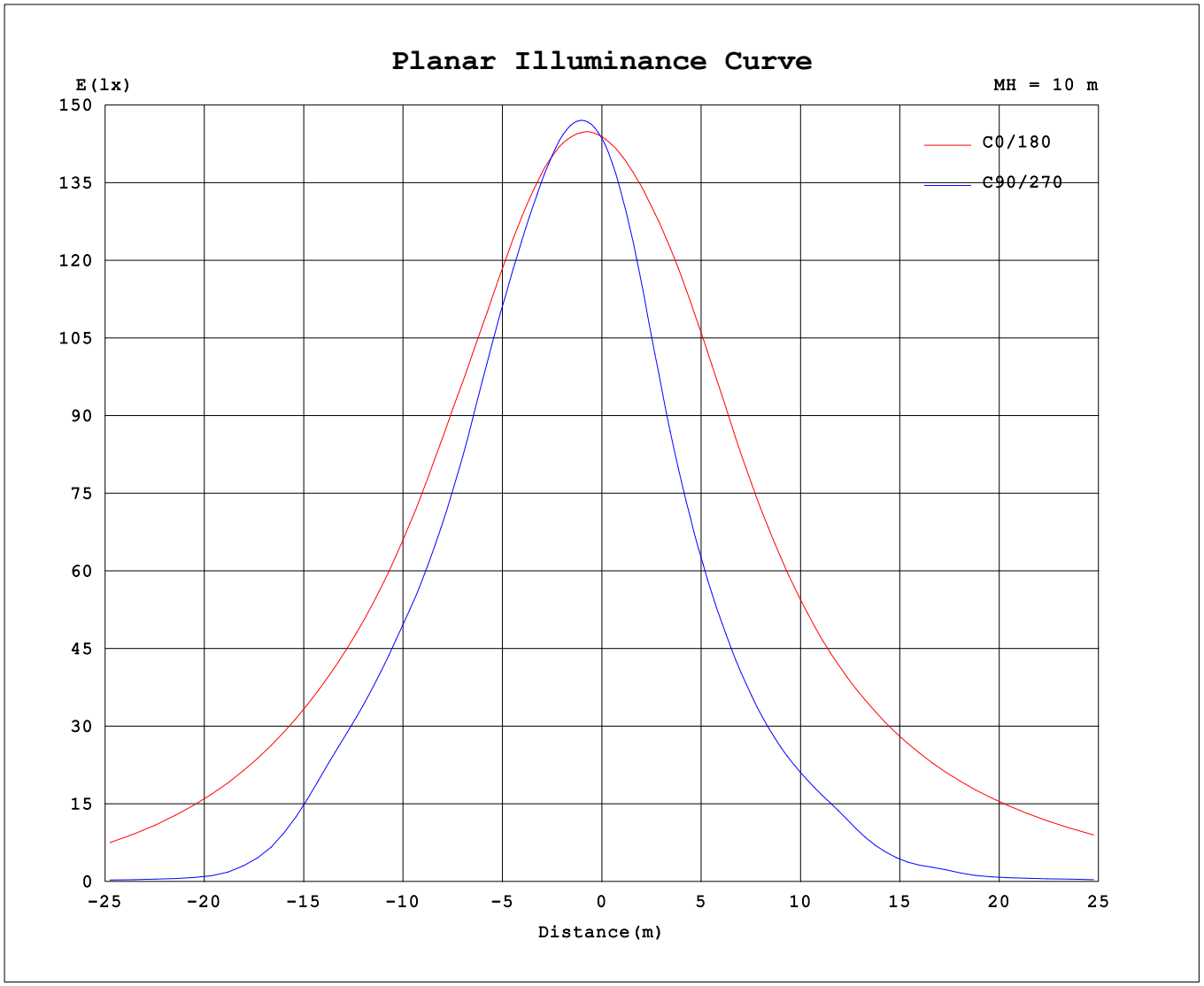
Test:U:120.24V I:2.8598A P:343.20W PF:0.9981 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:53799.6x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



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



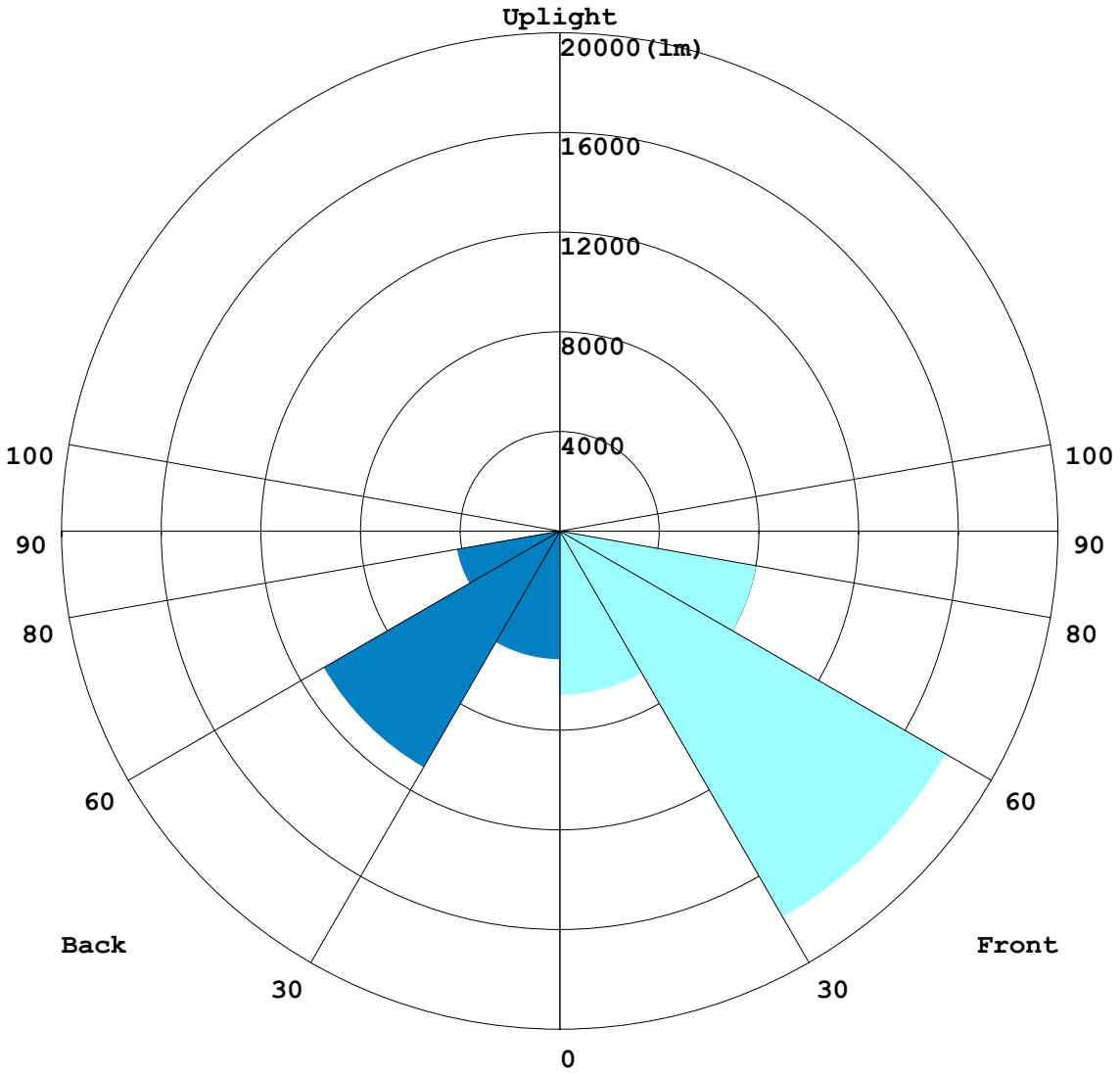
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:

LCS REPORT

Test:U:120.24V I:2.8598A P:343.20W PF:0.9981 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:53799.6x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 3000K	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

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:

BUG REPORT

Test:U:120.24V I:2.8598A P:343.20W PF:0.9981 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:53799.6x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 3000K	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)	6572.6	12.3
FM - Front-Medium(30-60)	17890	33.6
FH - Front-High(60-80)	8016.6	15.0
FVH - Front-Very High(80-90)	362.77	0.7
Total Forward Light	32842	61.6
BL - Back-Low(0-30)	5141.3	9.6
BM - Back-Medium(30-60)	10938	20.5
BH - Back-High(60-80)	4191.3	7.9
BVH - Back-Very High(80-90)	184.09	0.3
Total Back Light	20455	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	20455	0	20455
Street Side	32842	0	32842

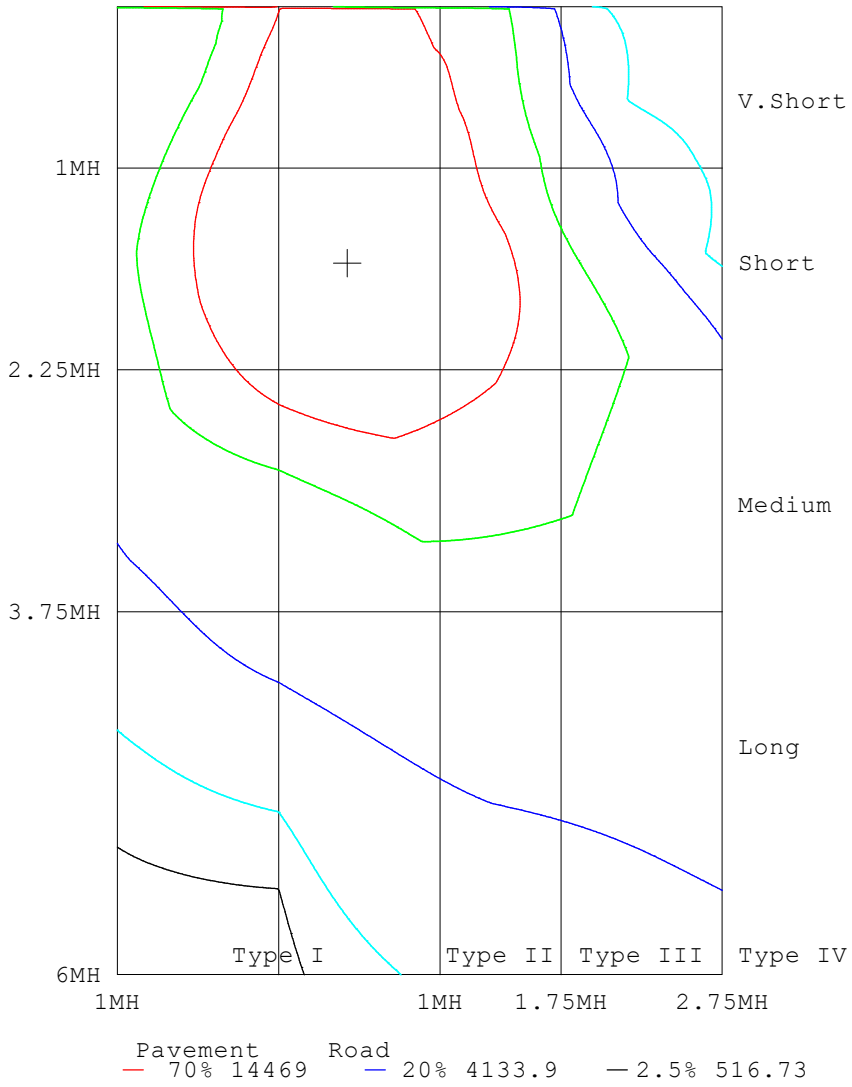
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.24V I:2.8598A P:343.20W PF:0.9981 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:53799.6x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 3000K	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:120.24V I:2.8598A P:343.20W PF:0.9981 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:53799.6x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 3000K	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	1439	1438	1438	1436	1437	1436	1436	1434	1435	1434	1433	1433	1439	1438	1438	1436	1437	1436	1436
5	1465	1476	1485	1491	1493	1491	1487	1479	1471	1460	1448	1434	1425	1407	1390	1374	1365	1359	1360
10	1500	1523	1536	1540	1538	1531	1521	1509	1496	1482	1465	1443	1422	1387	1346	1307	1277	1258	1258
15	1544	1576	1588	1584	1573	1556	1539	1523	1512	1500	1485	1461	1432	1379	1310	1238	1178	1138	1131
20	1589	1630	1639	1625	1601	1572	1547	1529	1520	1515	1506	1486	1453	1380	1280	1167	1077	1018	1005
25	1640	1688	1692	1665	1628	1588	1554	1534	1527	1527	1527	1511	1476	1383	1244	1094	983	917	904
30	1693	1748	1741	1708	1659	1595	1543	1528	1537	1538	1540	1535	1496	1377	1200	1026	906	832	816
35	1757	1817	1789	1735	1662	1565	1495	1489	1519	1547	1555	1554	1506	1363	1159	974	841	757	737
40	1820	1871	1823	1740	1626	1499	1445	1418	1472	1539	1562	1571	1520	1356	1131	920	770	685	662
45	1867	1922	1850	1720	1550	1447	1405	1374	1390	1508	1565	1587	1541	1362	1108	858	692	616	597
50	1918	1983	1869	1669	1479	1383	1308	1310	1334	1440	1561	1616	1576	1371	1083	779	608	547	517
55	1953	2043	1864	1584	1394	1194	1028	1126	1265	1359	1543	1666	1629	1378	1053	666	502	370	306
60	1908	2065	1823	1505	1178	646	371	550	1051	1296	1500	1732	1693	1369	993	504	316	208	186
65	1704	1963	1702	1405	712	140	85.6	116	552	1197	1422	1801	1743	1320	852	315	184	93.5	91.6
70	1157	1469	1419	1201	191	59.4	60.0	61.0	134	922	1335	1742	1661	1192	538	158	75.6	72.4	80.3
75	630	935	999	665	51.2	46.2	44.9	47.8	48.6	462	1272	1227	1066	811	137	74.5	52.8	58.0	72.3
80	44.0	247	556	80.8	30.2	30.5	29.1	31.9	32.0	68.7	833	688	477	193	61.4	45.3	35.0	42.4	52.9
85	12.5	41.0	47.7	15.8	15.7	14.8	14.6	16.4	18.2	20.4	108	121	49.2	88.7	17.0	24.1	19.7	35.4	36.1
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:25.3℃
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:120.24V I:2.8598A P:343.20W PF:0.9981 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:53799.6x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 3000K	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	1434	1435	1434	1433	1433														
5	1365	1381	1398	1419	1440														
10	1273	1307	1352	1404	1453														
15	1155	1215	1296	1388	1472														
20	1035	1113	1226	1363	1490														
25	937	1017	1150	1332	1508														
30	853	939	1083	1303	1530														
35	773	864	1027	1286	1564														
40	693	779	971	1284	1607														
45	618	687	893	1273	1633														
50	534	587	777	1254	1646														
55	336	442	605	1198	1622														
60	196	252	411	1051	1522														
65	87.3	135	226	721	1303														
70	71.0	64.6	102	253	925														
75	57.6	47.3	56.3	60.6	321														
80	47.3	32.3	32.1	30.2	47.2														
85	37.3	16.6	15.0	12.8	16.3														
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:25.3℃
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: