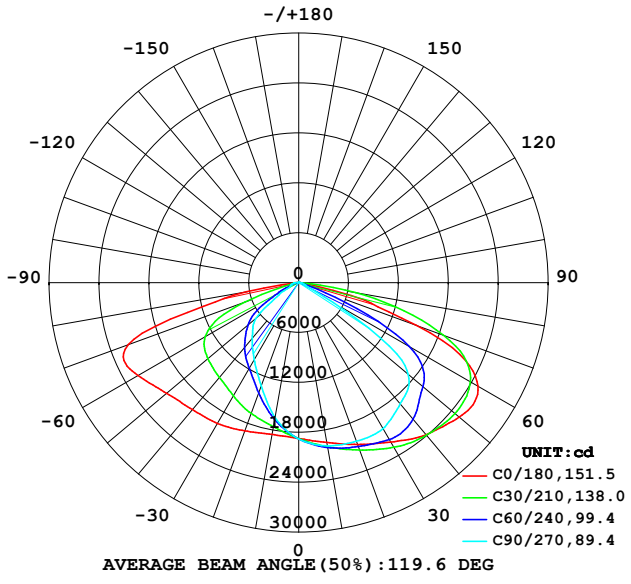
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.20V I:3.5312A P:424.01W PF:0.9989 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:70564.6x1 lm		
NAME: SB10-500W	TYPE: 450W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

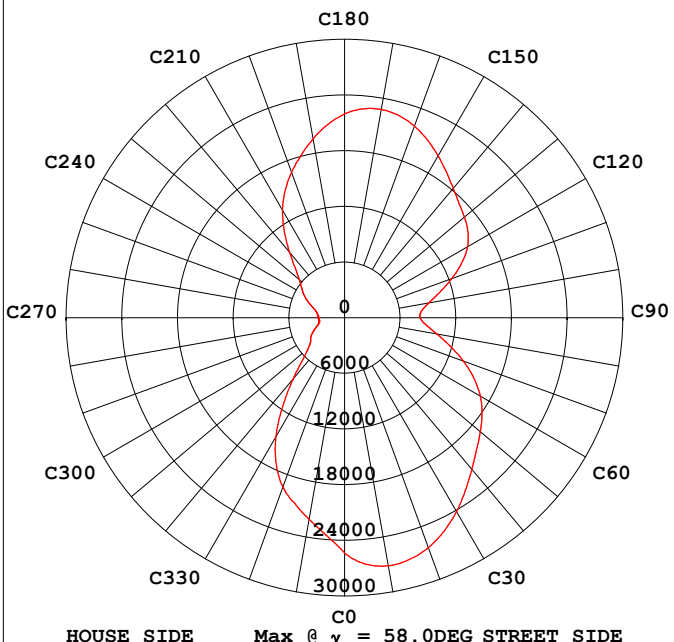
DATA OF LAMP		PHOTOMETRIC DATA Eff: 164.86 lm/W			
MODEL	SB10-500W	Imax(cd)	26985	η street_up(%)	0.0
NOMINAL POWER(W)	450	LOR(%)	99.1	η street_down(%)	61.0
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	69903	η house_up(%)	0.0
NOMINAL FLUX(lm)	70564.6	MAXIMUM @(C,γ)	15,58.0	η house_down(%)	38.0
LAMPS INSIDE	1	η 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



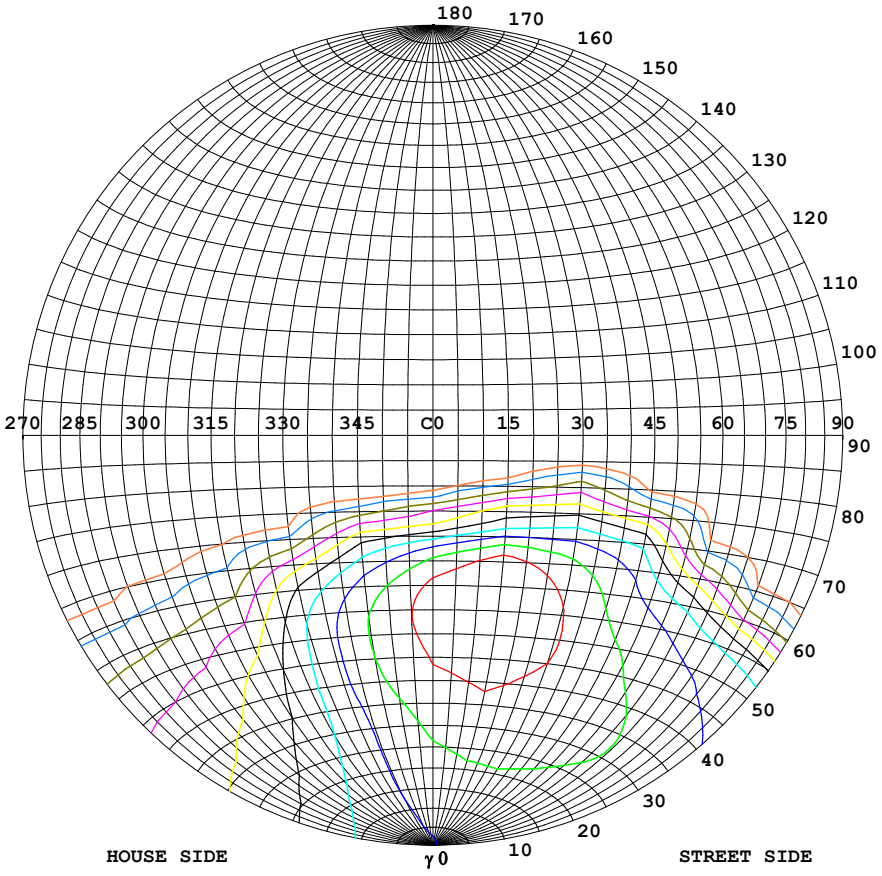
HOUSE SIDE Max @ γ = 58.0DEG STREET SIDE

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:120.20V I:3.5312A P:424.01W PF:0.9989 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:70564.6x1 lm		
NAME: SB10-500W	TYPE: 450W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



Classification:

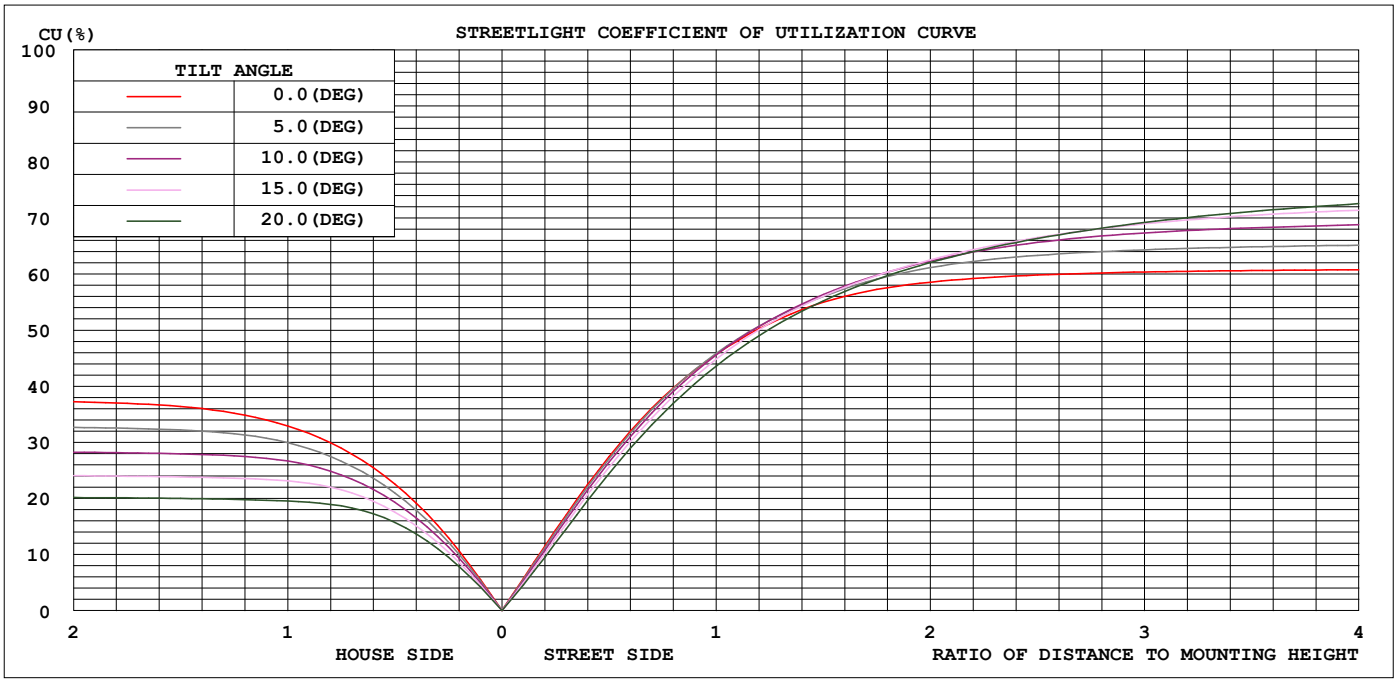
IES:Type III - Short
CIE:Narrow - Short
IES:Semi cut-off
CIE:Non-cut-off
Max.At80:148.8cd/klm
Max.At90:0cd/klm
Max.80-90:148.8cd/klm
NRB 5101:Semi limited[21.9%]

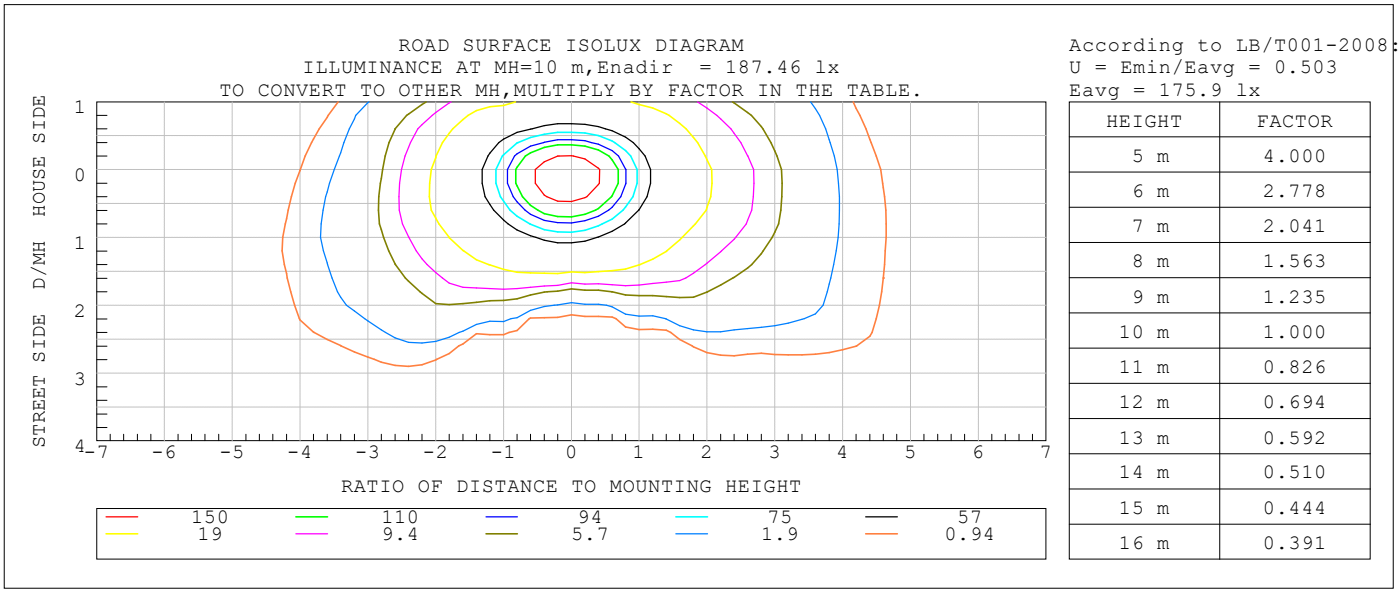
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	26985
90%	24286
80%	21588
70%	18889
60%	16191
50%	13492
40%	10794
30%	8095
20%	5397
10%	2698
5%	1349

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 = 0.503
Eavg = 175.9 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:120.20V I:3.5312A P:424.01W PF:0.9989 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:70564.6x1 lm		
NAME: SB10-500W	TYPE: 450W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

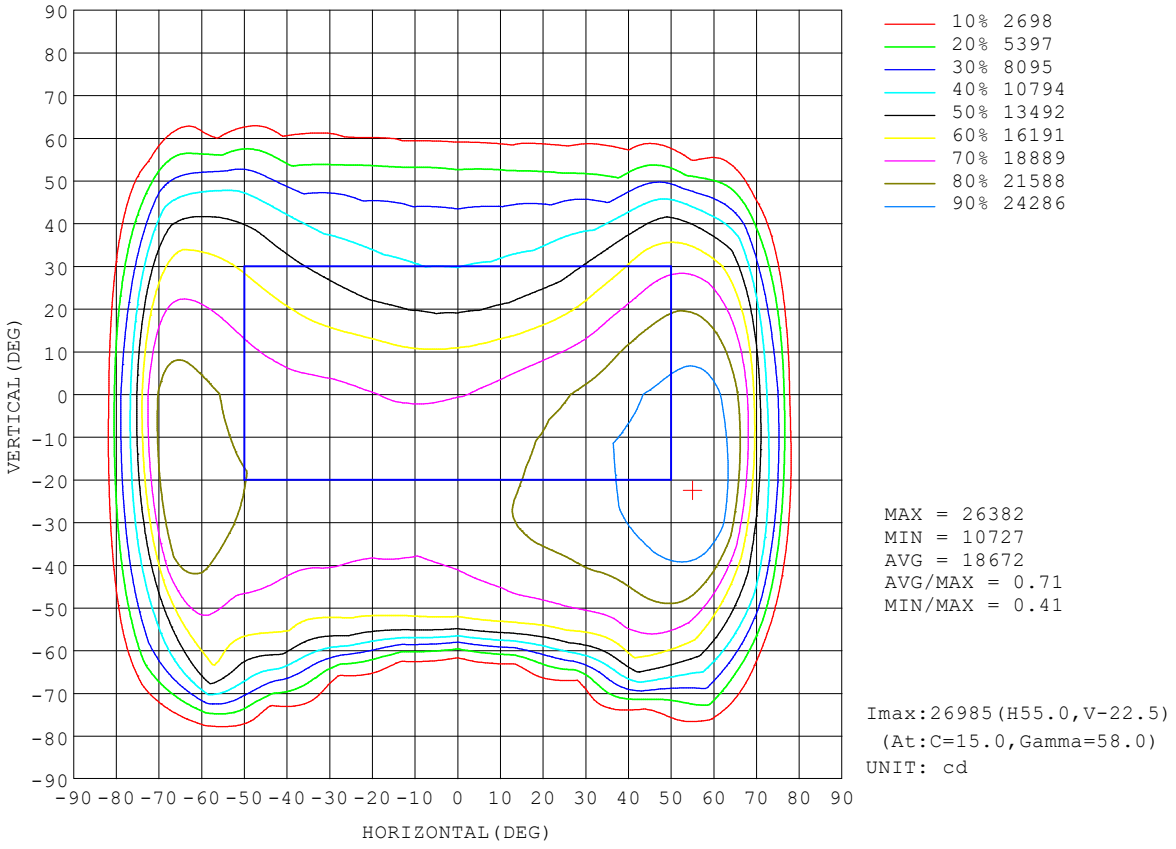
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1952	2012	1993	1943	1855	1709	1646	1771	0- 10	1784	1784	2.55,2.53
20	2072	2126	2029	1989	1897	1528	1319	1604	10- 20	5214	6997	10,9.92
30	2214	2242	2028	2022	1955	1348	1073	1423	20- 30	8348	15345	22,21.7
40	2386	2287	1902	2026	1991	1212	869.7	1277	30- 40	11105	26450	37.8,37.5
50	2519	2193	1718	1900	2072	1022	675.2	1018	40- 50	13160	39611	56.7,56.1
60	2488	1970	481.3	1713	2231	655.5	244.5	534.8	50- 60	13621	53232	76.2,75.4
70	1503	1548	78.79	1209	2179	203.2	105.1	132.3	60- 70	10686	63918	91.4,90.6
80	56.16	105.2	37.97	93.18	632.7	58.73	69.38	42.38	70- 80	5282	69200	99,98.1
90	0	0	0	0	0	0	0	0	80- 90	703.0	69903	100,99.1
100	0	0	0	0	0	0	0	0	90-100	0	69903	100,99.1
110	0	0	0	0	0	0	0	0	100-110	0	69903	100,99.1
120	0	0	0	0	0	0	0	0	110-120	0	69903	100,99.1
130	0	0	0	0	0	0	0	0	120-130	0	69903	100,99.1
140	0	0	0	0	0	0	0	0	130-140	0	69903	100,99.1
150	0	0	0	0	0	0	0	0	140-150	0	69903	100,99.1
160	0	0	0	0	0	0	0	0	150-160	0	69903	100,99.1
170	0	0	0	0	0	0	0	0	160-170	0	69903	100,99.1
180	0	0	0	0	0	0	0	0	170-180	0	69903	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

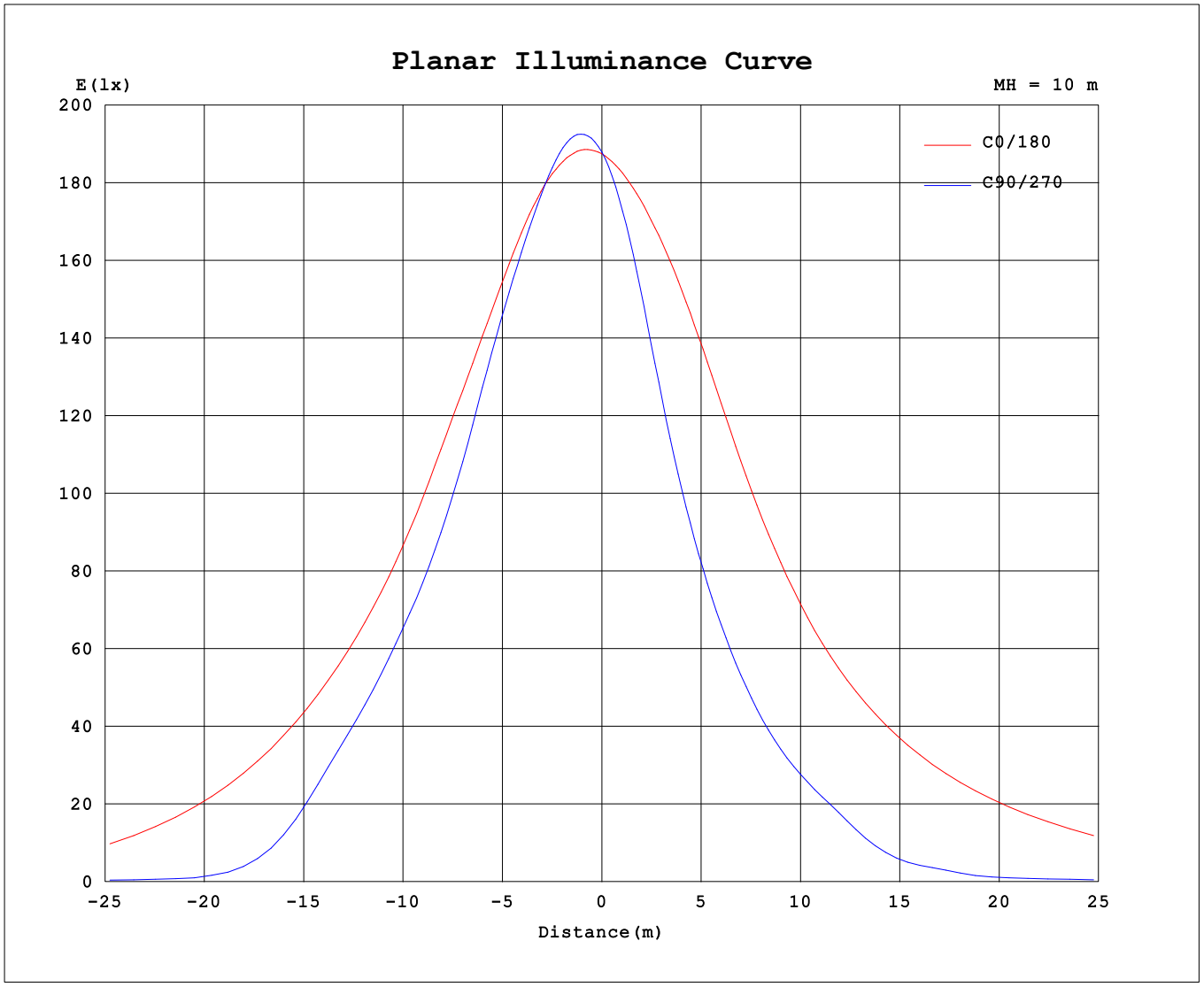
Test:U:120.20V I:3.5312A P:424.01W PF:0.9989 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:70564.6x1 lm		
NAME: SB10-500W	TYPE: 450W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



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



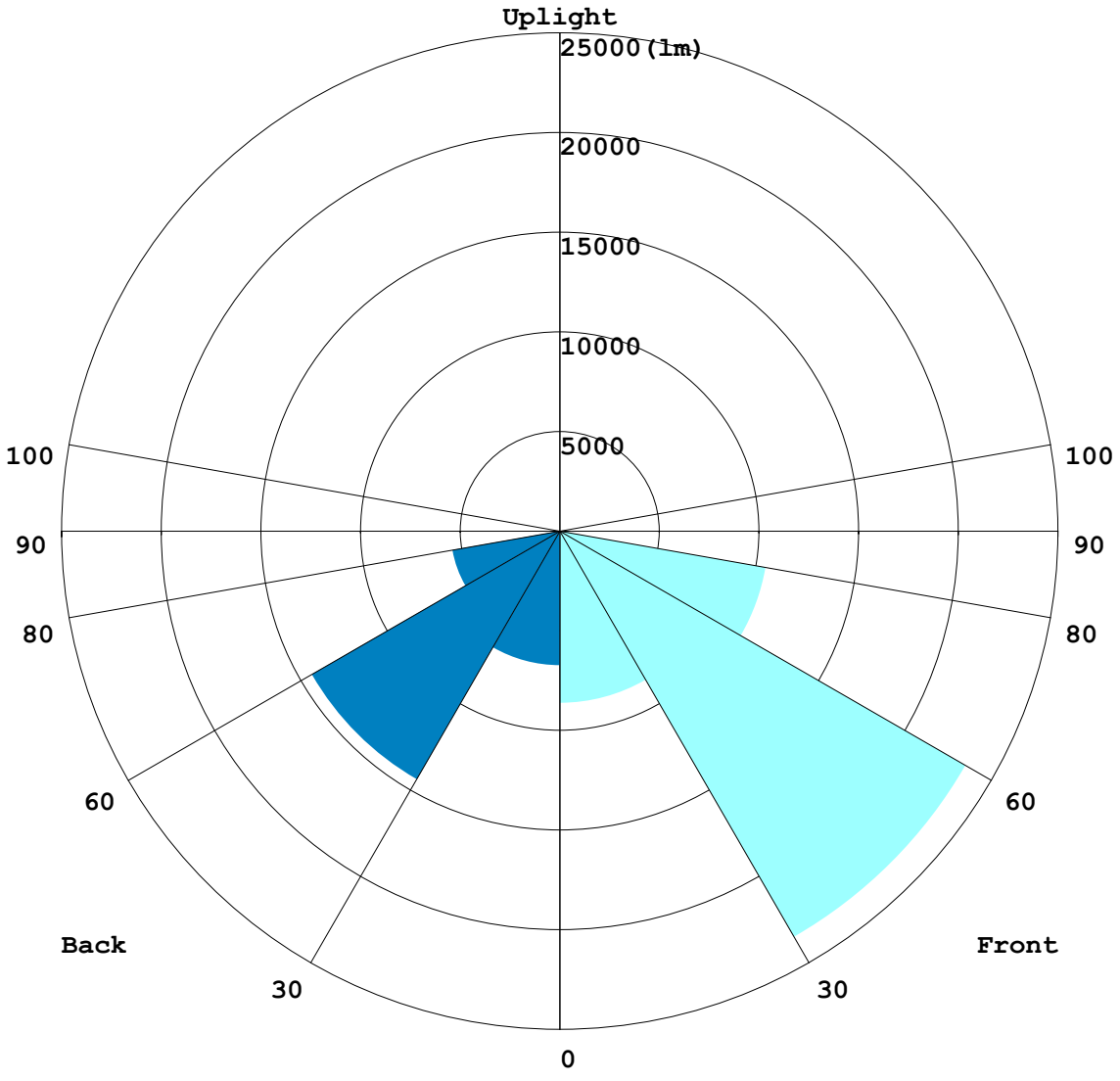
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.20V I:3.5312A P:424.01W PF:0.9989 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:70564.6x1 lm		
NAME: SB10-500W	TYPE: 450W	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

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:120.20V I:3.5312A P:424.01W PF:0.9989 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:70564.6x1 lm		
NAME: SB10-500W	TYPE: 450W	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)	8612.1	12.3
FM - Front-Medium(30-60)	23511	33.6
FH - Front-High(60-80)	10490	15.0
FVH - Front-Very High(80-90)	464.12	0.7
Total Forward Light	43078	61.6
BL - Back-Low(0-30)	6733.2	9.6
BM - Back-Medium(30-60)	14375	20.6
BH - Back-High(60-80)	5477.6	7.8
BVH - Back-Very High(80-90)	238.91	0.3
Total Back Light	26825	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-G5

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	26825	0	26825
Street Side	43078	0	43078

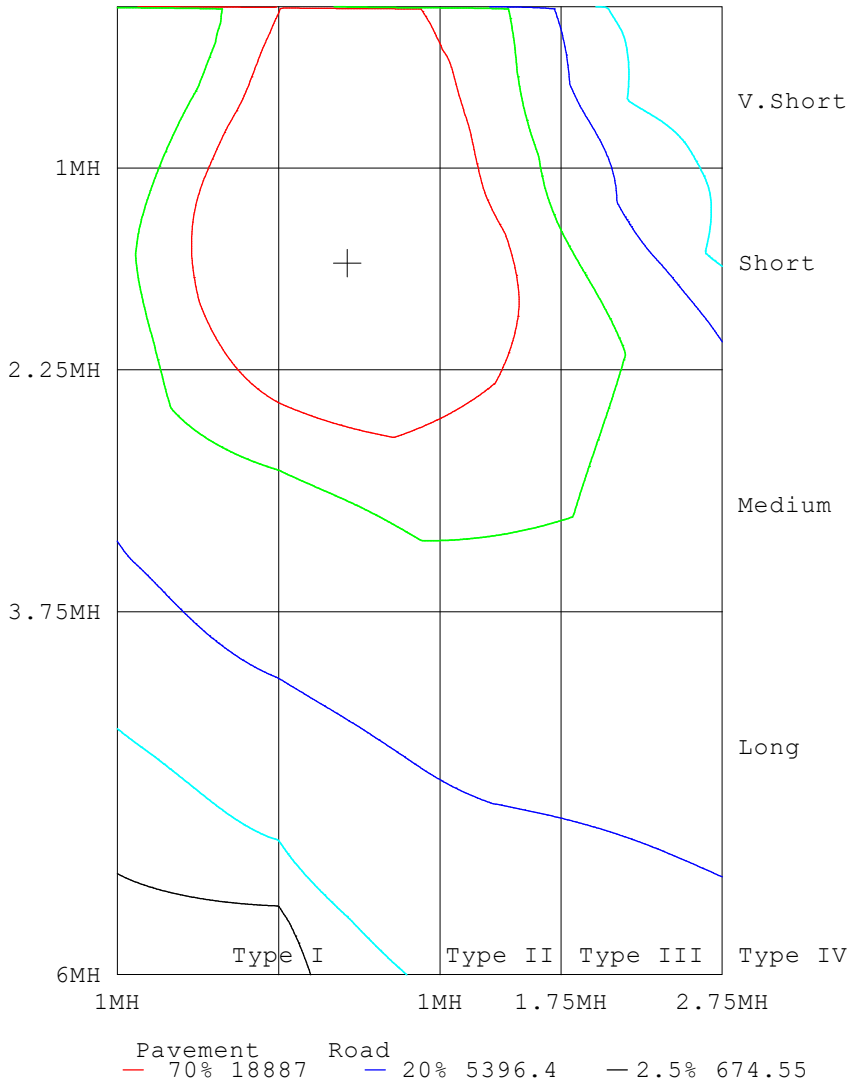
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.20V I:3.5312A P:424.01W PF:0.9989 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:70564.6x1 lm		
NAME: SB10-500W	TYPE: 450W	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%
Test Distance:9.630m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.20V I:3.5312A P:424.01W PF:0.9989 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:70564.6x1 lm		
NAME: SB10-500W	TYPE: 450W	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	1875	1875	1876	1875	1879	1879	1879	1878	1878	1879	1880	1879	1875	1875	1876	1875	1879	1879	1879
5	1907	1924	1940	1947	1952	1952	1946	1937	1928	1913	1900	1882	1856	1835	1815	1796	1785	1778	1779
10	1952	1985	2005	2012	2013	2005	1993	1978	1961	1943	1924	1895	1855	1810	1759	1709	1672	1647	1646
15	2009	2053	2073	2071	2060	2038	2017	1998	1983	1970	1952	1919	1869	1801	1715	1621	1543	1490	1482
20	2072	2127	2142	2126	2097	2061	2029	2006	1994	1989	1979	1953	1897	1804	1674	1528	1411	1335	1319
25	2138	2206	2214	2181	2136	2085	2040	2014	2006	2007	2007	1987	1927	1808	1626	1435	1289	1205	1188
30	2214	2288	2284	2242	2180	2095	2028	2010	2019	2022	2027	2019	1955	1802	1572	1348	1191	1094	1073
35	2301	2382	2349	2280	2186	2058	1968	1958	2001	2034	2047	2046	1972	1787	1522	1279	1107	997	970
40	2386	2455	2393	2287	2141	1972	1902	1867	1939	2026	2060	2072	1991	1779	1487	1212	1014	901	870
45	2448	2521	2428	2262	2041	1904	1848	1810	1830	1987	2066	2095	2023	1791	1457	1129	908	809	783
50	2519	2599	2451	2193	1948	1819	1718	1725	1757	1900	2064	2138	2072	1806	1426	1022	796	715	675
55	2559	2674	2441	2079	1831	1558	1333	1466	1663	1796	2044	2205	2145	1816	1384	869	654	485	403
60	2488	2694	2383	1970	1534	836	481	714	1371	1713	1988	2297	2231	1804	1299	655	413	274	244
65	2213	2555	2222	1830	916	183	113	152	717	1577	1891	2389	2299	1737	1110	407	241	125	123
70	1503	1909	1851	1548	246	78.2	78.8	80.1	188	1209	1776	2300	2179	1567	692	203	99.2	95.1	105
75	816	1219	1310	843	68.0	60.8	58.6	62.8	64.6	610	1683	1608	1385	1054	175	97.4	69.6	75.8	94.1
80	56.2	322	698	105	40.1	39.7	38.0	41.7	42.3	93.2	1050	902	633	246	80.0	58.7	46.1	55.5	69.4
85	17.2	53.9	60.8	21.2	20.8	19.4	18.9	21.3	24.0	27.4	154	151	64.7	112	22.5	31.6	25.8	45.9	52.5
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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Humidity:65.0%
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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.20V I:3.5312A P:424.01W PF:0.9989 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:70564.6x1 lm		
NAME: SB10-500W	TYPE: 450W	WEIGHT:
SPEC.: 4000K	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	1878	1878	1879	1880	1879														
5	1786	1808	1831	1860	1887														
10	1666	1711	1771	1841	1903														
15	1513	1591	1696	1819	1929														
20	1358	1458	1604	1786	1952														
25	1230	1335	1508	1748	1978														
30	1121	1232	1423	1710	2008														
35	1015	1135	1350	1691	2058														
40	909	1023	1277	1692	2121														
45	808	899	1174	1679	2156														
50	697	766	1018	1658	2176														
55	440	578	790	1581	2143														
60	258	330	535	1383	2000														
65	117	175	291	939	1697														
70	93.2	85.2	132	323	1200														
75	75.3	62.5	74.4	80.3	415														
80	61.9	42.6	42.4	41.3	60.9														
85	49.0	21.9	19.7	17.1	21.4														
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:25.3℃
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: