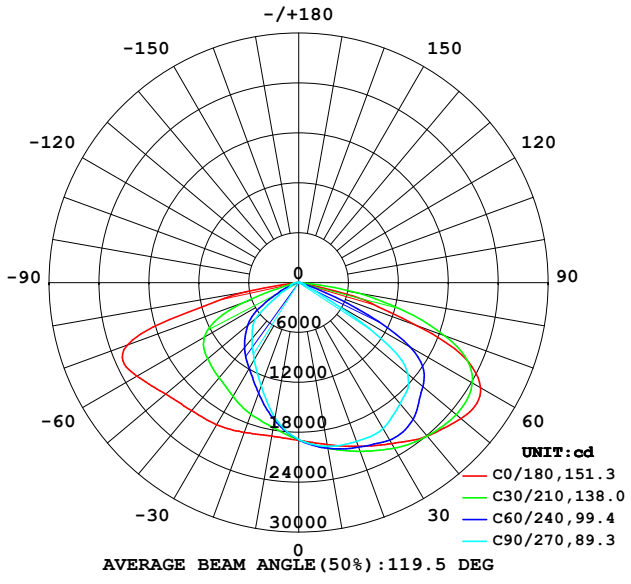
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.35V I:4.0326A P:484.96W PF:0.9993 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:70784.6x1 lm		
NAME: SB10-500W	TYPE: 500W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

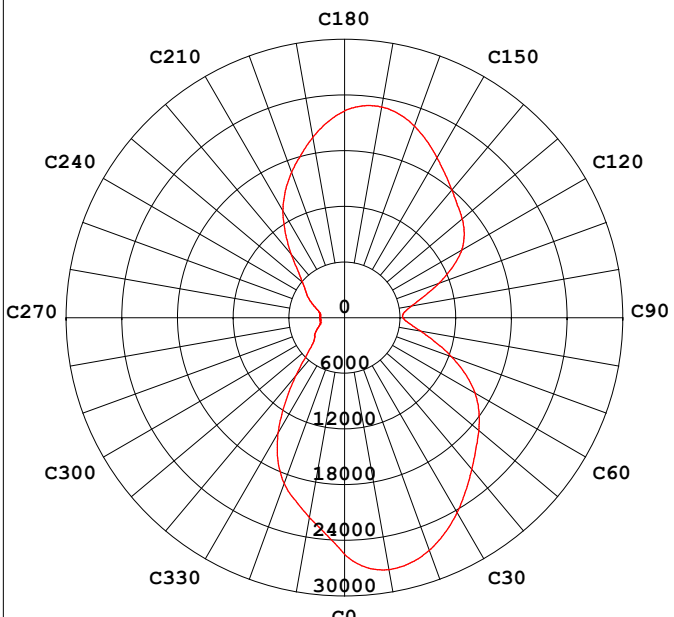
DATA OF LAMP		PHOTOMETRIC DATA Eff: 144.59 lm/W			
MODEL	SB10-500W	Imax(cd)	27376	η street_up(%)	0.0
NOMINAL POWER(W)	500	LOR(%)	99.1	η street_down(%)	61.0
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	70120	η house_up(%)	0.0
NOMINAL FLUX(lm)	70784.6	MAXIMUM @(C,γ)	15,59.0	η house_down(%)	38.0
LAMPS INSIDE	1	η 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%):119.5 DEG

MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM



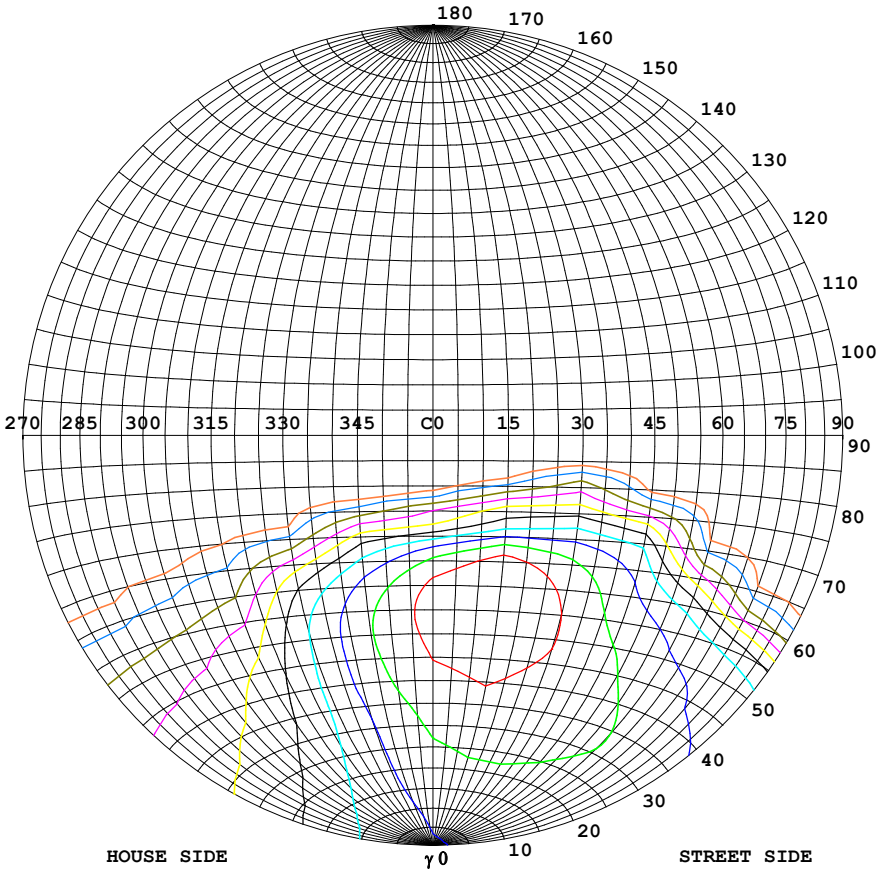
HOUSE SIDE Max @ γ = 59.0DEG STREET SIDE

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:120.35V I:4.0326A P:484.96W PF:0.9993 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:70784.6x1 lm		
NAME: SB10-500W	TYPE: 500W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



Classification:

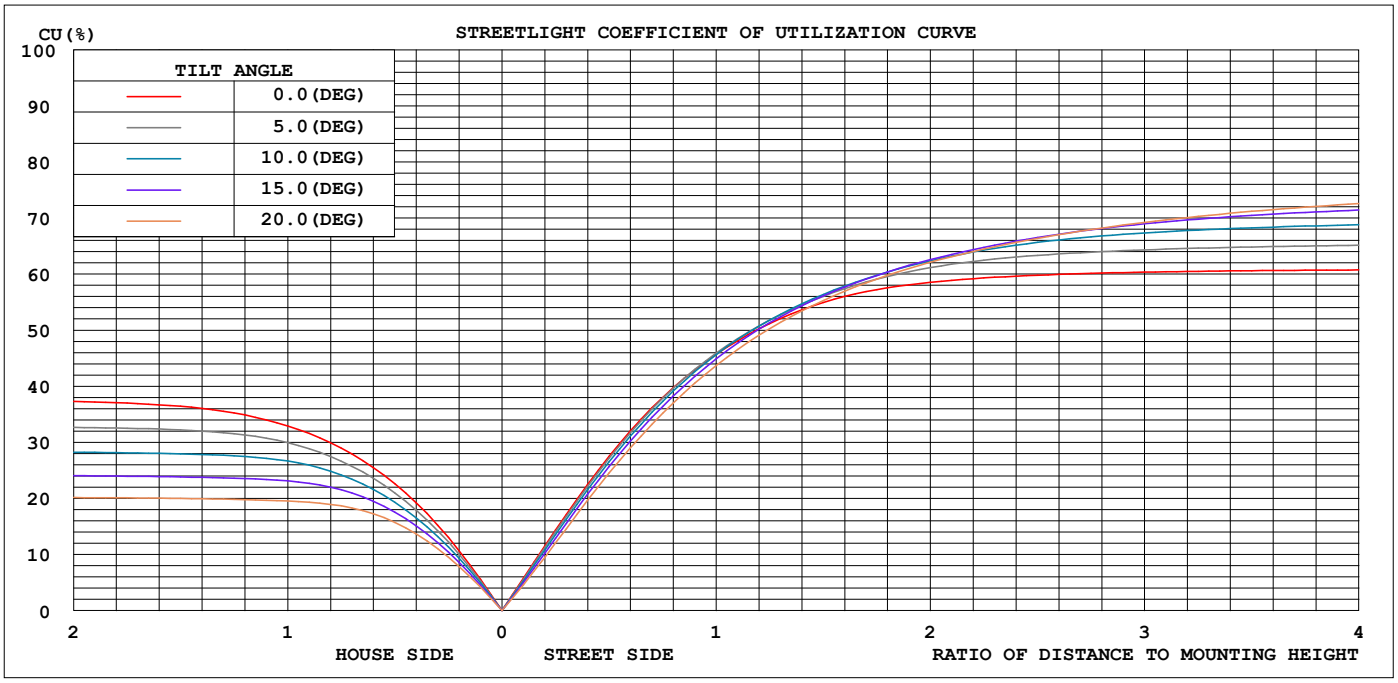
IES:Type III - Short
CIE:Narrow - Short
IES:Semi cut-off
CIE:Non-cut-off
Max.At80:150.1cd/klm
Max.At90:0cd/klm
Max.80-90:150.1cd/klm
NRB 5101:Semi limited[21.9%]

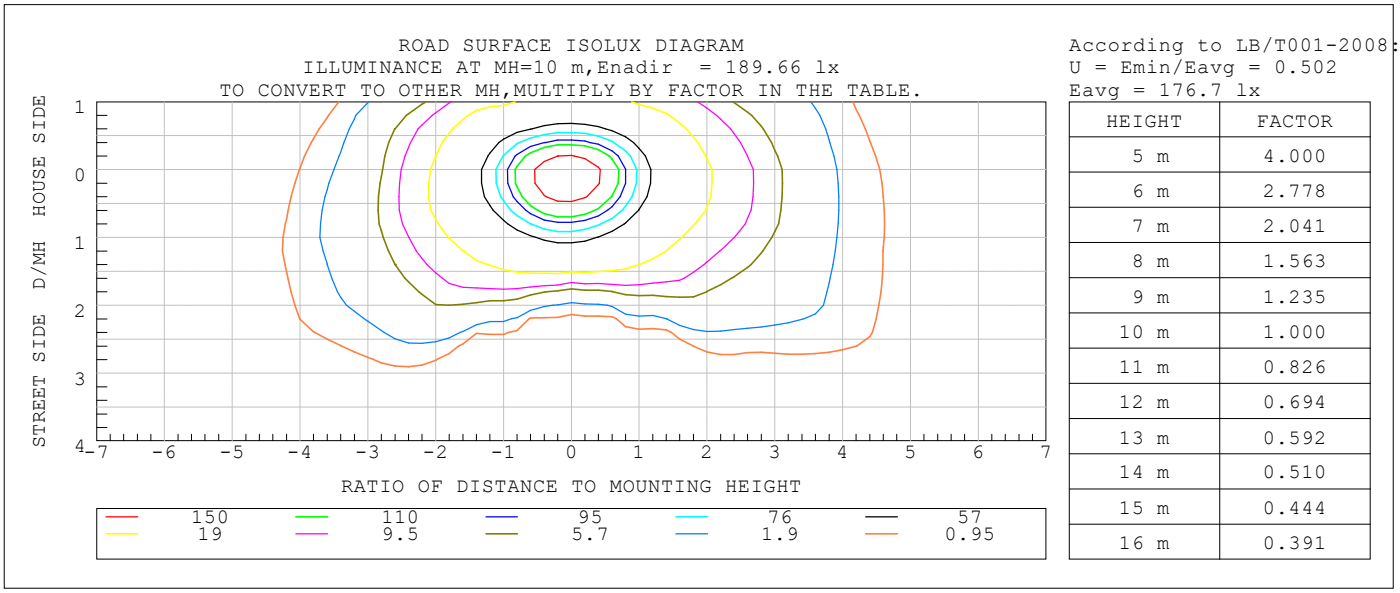
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	27376
90%	24638
80%	21901
70%	19163
60%	16425
50%	13688
40%	10950
30%	8213
20%	5475
10%	2738
5%	1369

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 = 176.7 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:120.35V I:4.0326A P:484.96W PF:0.9993 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:70784.6x1 lm		
NAME: SB10-500W	TYPE: 500W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

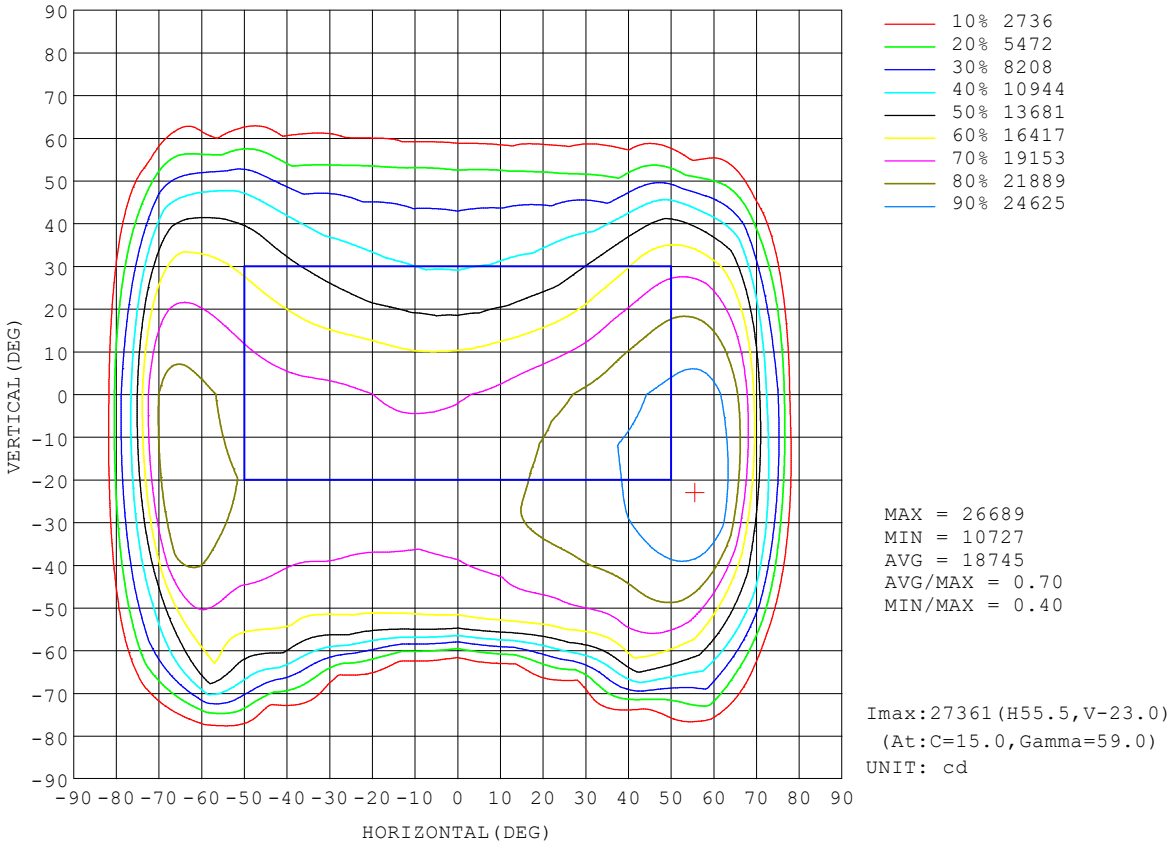
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1977	2025	1997	1944	1874	1718	1651	1773	0- 10	1791	1791	2.55,2.53
20	2094	2139	2033	1989	1916	1535	1321	1607	10- 20	5234	7025	10,9.92
30	2235	2251	2028	2021	1973	1351	1073	1423	20- 30	8374	15399	22,21.8
40	2408	2294	1898	2023	2008	1213	871.7	1277	30- 40	11127	26526	37.8,37.5
50	2543	2203	1712	1894	2087	1027	679.8	1022	40- 50	13190	39717	56.6,56.1
60	2524	1983	477.0	1704	2247	661.8	243.3	538.6	50- 60	13667	53384	76.1,75.4
70	1518	1577	78.64	1201	2194	205.1	105.8	133.6	60- 70	10740	64124	91.4,90.6
80	58.58	102.4	38.29	87.59	637.9	59.40	69.93	42.37	70- 80	5294	69417	99,98.1
90	0	0	0	0	0	0	0	0	80- 90	702.7	70120	100,99.1
100	0	0	0	0	0	0	0	0	90-100	0	70120	100,99.1
110	0	0	0	0	0	0	0	0	100-110	0	70120	100,99.1
120	0	0	0	0	0	0	0	0	110-120	0	70120	100,99.1
130	0	0	0	0	0	0	0	0	120-130	0	70120	100,99.1
140	0	0	0	0	0	0	0	0	130-140	0	70120	100,99.1
150	0	0	0	0	0	0	0	0	140-150	0	70120	100,99.1
160	0	0	0	0	0	0	0	0	150-160	0	70120	100,99.1
170	0	0	0	0	0	0	0	0	160-170	0	70120	100,99.1
180	0	0	0	0	0	0	0	0	170-180	0	70120	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

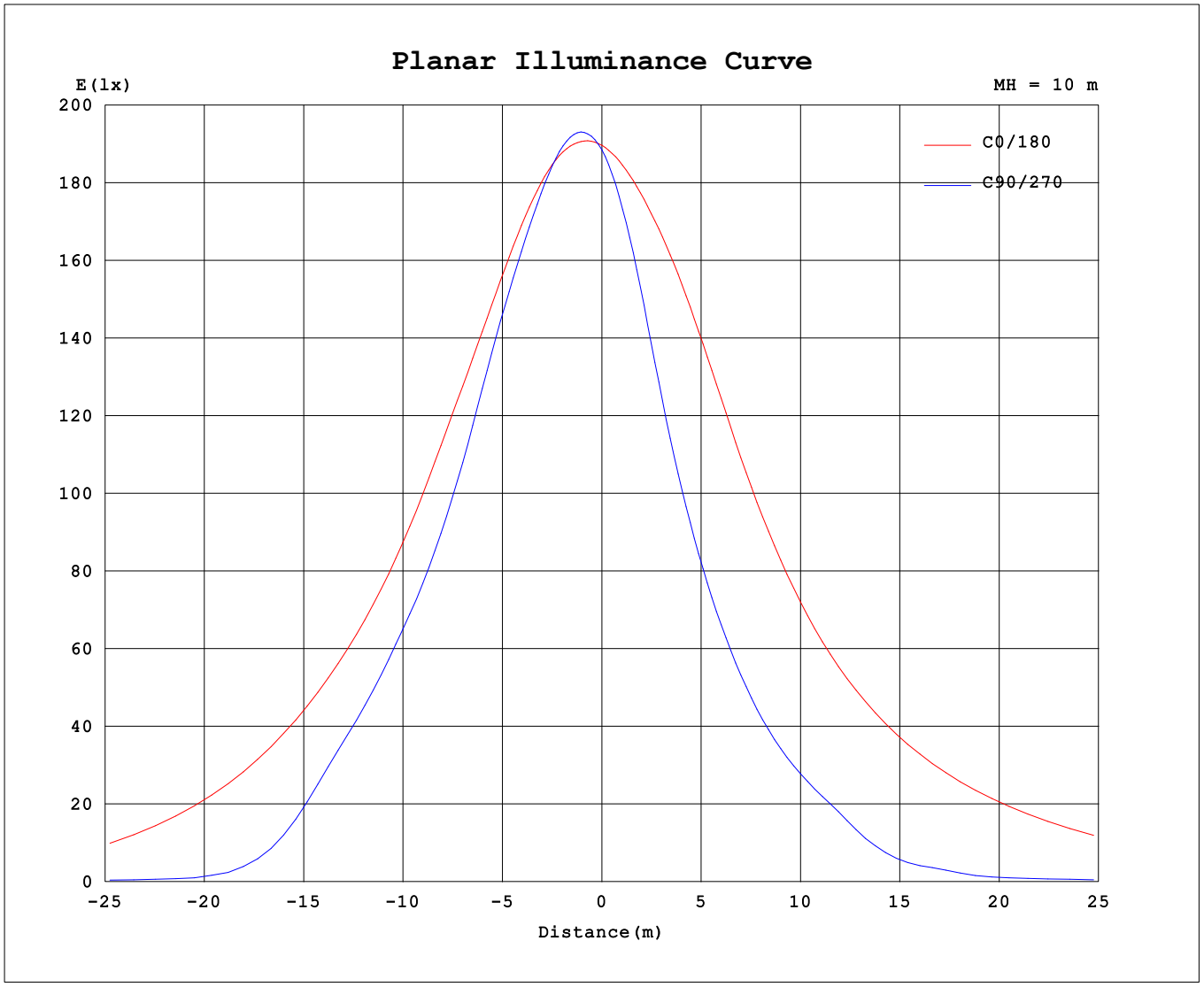
Test:U:120.35V I:4.0326A P:484.96W PF:0.9993 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:70784.6x1 lm		
NAME: SB10-500W	TYPE: 500W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



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



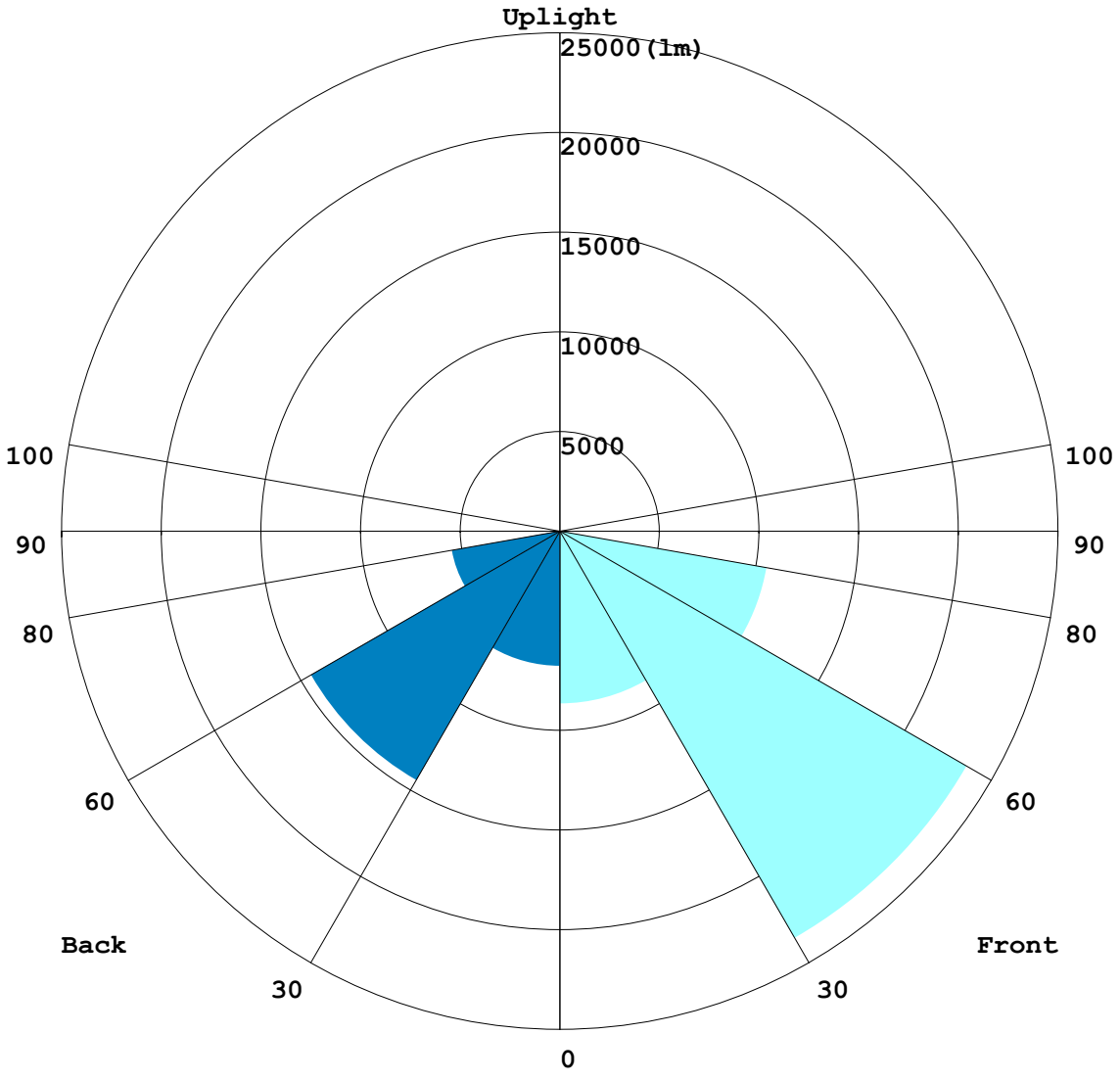
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.35V I:4.0326A P:484.96W PF:0.9993 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:70784.6x1 lm		
NAME: SB10-500W	TYPE: 500W	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:120.35V I:4.0326A P:484.96W PF:0.9993 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:70784.6x1 lm		
NAME: SB10-500W	TYPE: 500W	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)	8642.3	12.3
FM - Front-Medium(30-60)	23567	33.6
FH - Front-High(60-80)	10527	15.0
FVH - Front-Very High(80-90)	463.04	0.7
Total Forward Light	43199	61.6
BL - Back-Low(0-30)	6756.7	9.6
BM - Back-Medium(30-60)	14418	20.6
BH - Back-High(60-80)	5506.7	7.9
BVH - Back-Very High(80-90)	239.65	0.3
Total Back Light	26921	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	26921	0	26921
Street Side	43199	0	43199

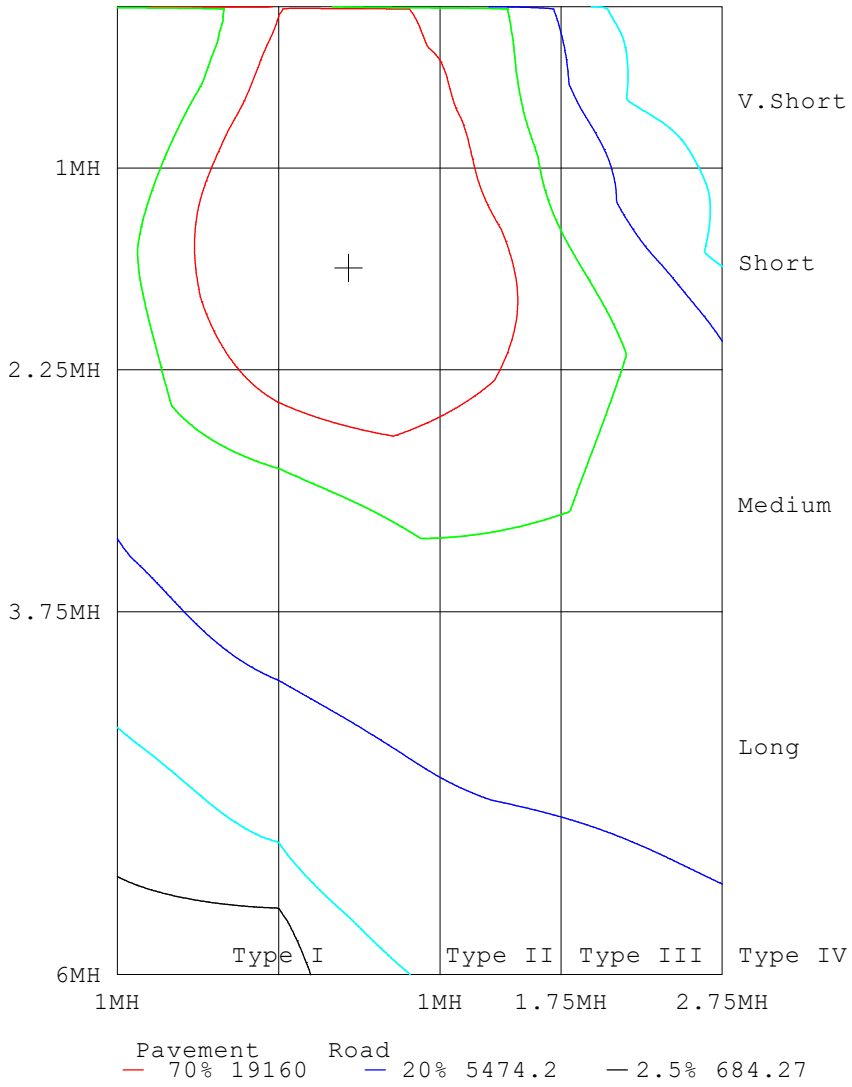
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.35V I:4.0326A P:484.96W PF:0.9993 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:70784.6x1 lm		
NAME: SB10-500W	TYPE: 500W	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:120.35V I:4.0326A P:484.96W PF:0.9993 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:70784.6x1 lm		
NAME: SB10-500W	TYPE: 500W	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	1897	1892	1891	1889	1889	1886	1885	1881	1881	1880	1880	1879	1897	1892	1891	1889	1889	1886	1885
5	1930	1944	1954	1960	1963	1959	1952	1940	1929	1915	1899	1881	1878	1853	1829	1807	1794	1784	1785
10	1977	2005	2021	2025	2023	2012	1997	1979	1963	1944	1922	1894	1874	1826	1771	1718	1679	1652	1651
15	2034	2074	2090	2084	2069	2046	2022	1999	1984	1970	1950	1918	1888	1816	1724	1629	1548	1494	1484
20	2094	2146	2158	2139	2106	2067	2033	2008	1995	1989	1978	1951	1916	1818	1684	1535	1415	1337	1321
25	2161	2224	2227	2193	2143	2089	2042	2015	2006	2006	2006	1985	1947	1823	1637	1440	1293	1206	1189
30	2235	2306	2297	2251	2185	2098	2028	2007	2018	2021	2025	2018	1973	1814	1581	1351	1192	1095	1073
35	2323	2400	2362	2289	2189	2058	1964	1954	1996	2033	2045	2044	1988	1797	1528	1282	1108	996	970
40	2408	2475	2408	2294	2142	1972	1898	1861	1934	2023	2055	2068	2008	1788	1492	1213	1015	902	872
45	2473	2544	2445	2268	2042	1903	1843	1804	1827	1983	2061	2091	2038	1799	1462	1132	912	812	787
50	2543	2628	2471	2203	1948	1816	1712	1717	1754	1894	2057	2134	2087	1813	1429	1027	801	720	680
55	2588	2708	2465	2090	1834	1562	1335	1466	1661	1789	2036	2202	2161	1823	1391	877	660	484	400
60	2524	2734	2411	1983	1543	837	477	707	1369	1704	1978	2294	2247	1813	1311	662	414	274	243
65	2247	2589	2244	1851	925	182	112	150	712	1569	1875	2386	2314	1747	1122	412	242	123	121
70	1518	1927	1867	1577	247	78.1	78.6	79.9	184	1201	1761	2294	2194	1573	705	205	99.5	95.5	106
75	830	1231	1310	863	67.4	60.8	58.9	62.6	63.6	594	1678	1585	1383	1055	176	98.0	69.6	76.3	95.0
80	58.6	318	726	102	39.7	40.0	38.3	41.8	41.9	87.6	1063	898	638	241	80.9	59.4	46.1	55.6	69.9
85	17.1	54.5	57.8	20.8	20.5	19.5	19.0	21.4	23.7	26.7	146	147	63.8	117	22.3	31.7	25.9	46.4	52.1
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
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NAME: SB10-500W	TYPE: 500W	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	1881	1881	1880	1880	1879														
5	1791	1810	1833	1861	1888														
10	1668	1714	1773	1841	1906														
15	1514	1593	1699	1821	1931														
20	1358	1459	1607	1788	1954														
25	1230	1335	1509	1747	1978														
30	1120	1234	1423	1710	2009														
35	1016	1136	1350	1691	2057														
40	912	1024	1277	1690	2120														
45	813	904	1176	1677	2155														
50	701	772	1022	1653	2174														
55	439	581	795	1579	2140														
60	258	330	539	1383	2003														
65	115	176	295	944	1705														
70	93.5	85.3	134	330	1203														
75	75.7	62.5	74.2	80.2	414														
80	61.9	42.7	42.4	40.9	62.0														
85	49.0	22.0	19.7	17.0	21.5														
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: