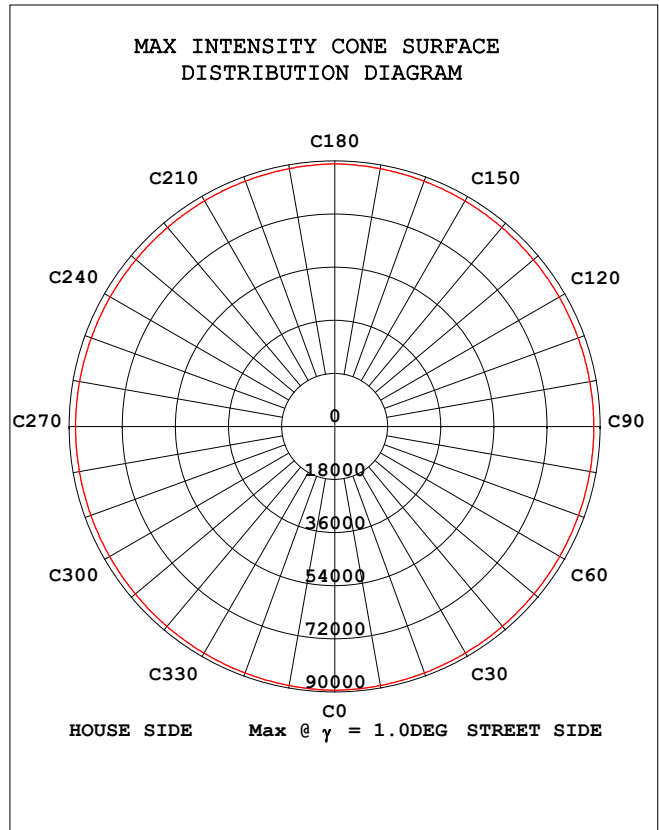
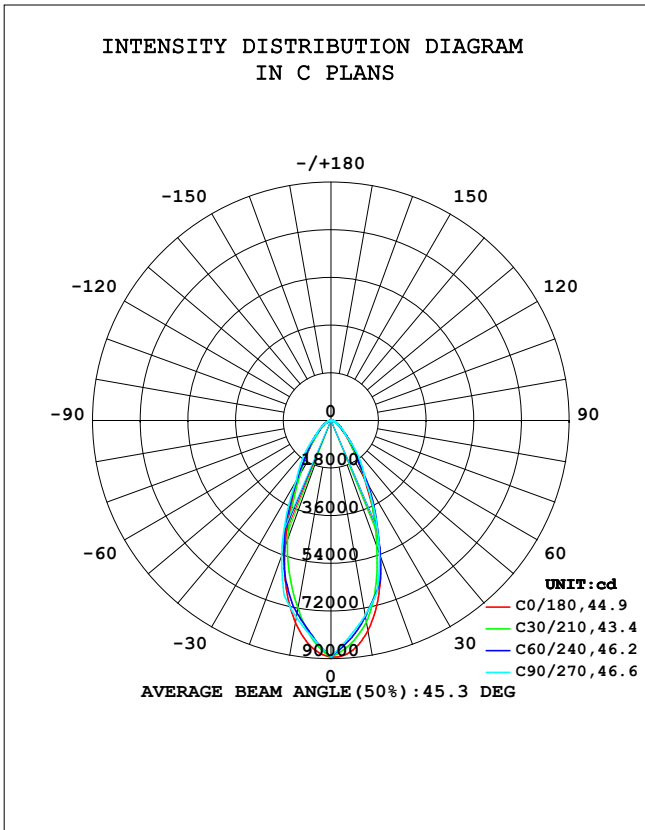


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:481.57V I:1.0479A P:504.65W PF:0.9927 Freq:49.96Hz Lamp Flux:66352 x1 lm		
NAME: ASD-SPFLHV-500D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 134.40 lm/W			
MODEL	ASD-SPFLHV-500D50-PRM	I _{max} (cd)	89388	η street_up (%)	0.0
NOMINAL POWER (W)	500	LOR (%)	100.0	η street_down (%)	49.8
RATED VOLTAGE (V)	480	TOTAL FLUX (lm)	66352	η house_up (%)	0.0
NOMINAL FLUX (lm)	66352	MAXIMUM @ (C, γ)	0,1.0	η house_down (%)	50.2
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)	480	η down (%)	100.0	SLI	20.704

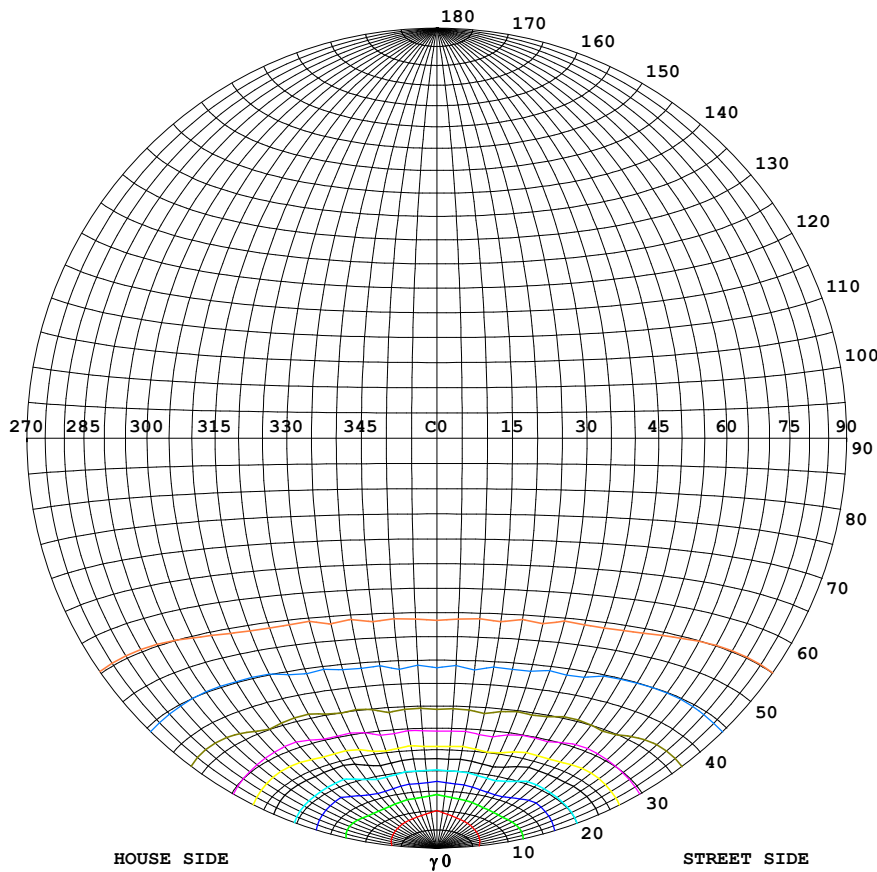


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:07 January 2020

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:481.57V I:1.0479A P:504.65W PF:0.9927 Freq:49.96Hz Lamp Flux:66352x1 lm		
NAME: ASD-SPFLHV-500D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:1	Shielding Angle:



Classification:

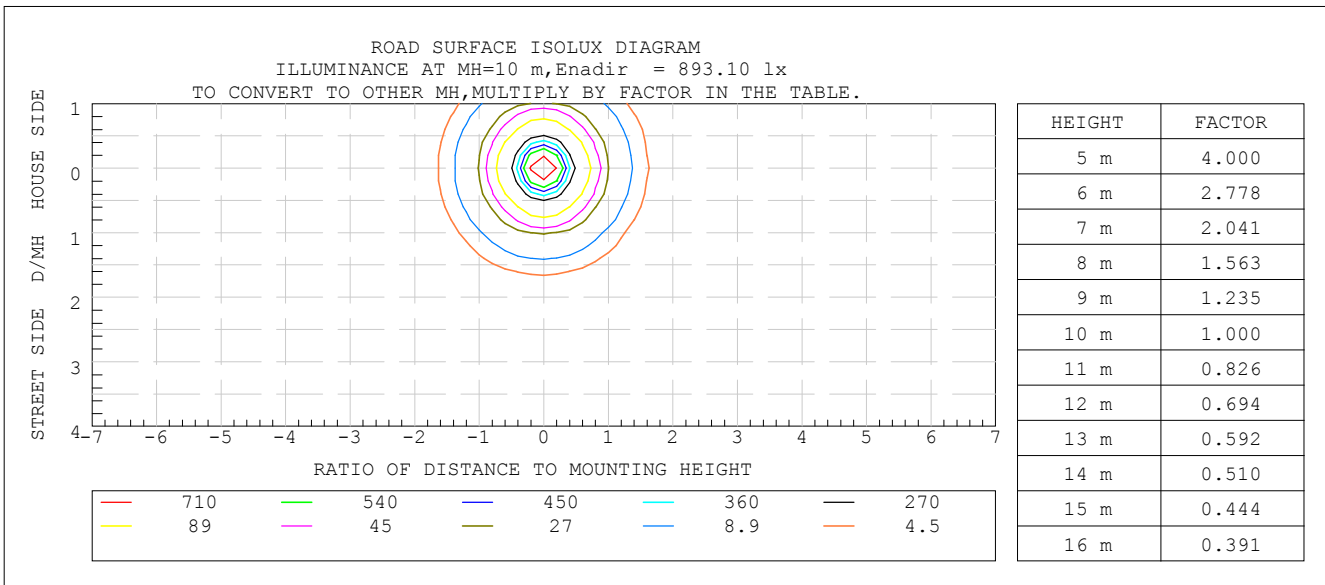
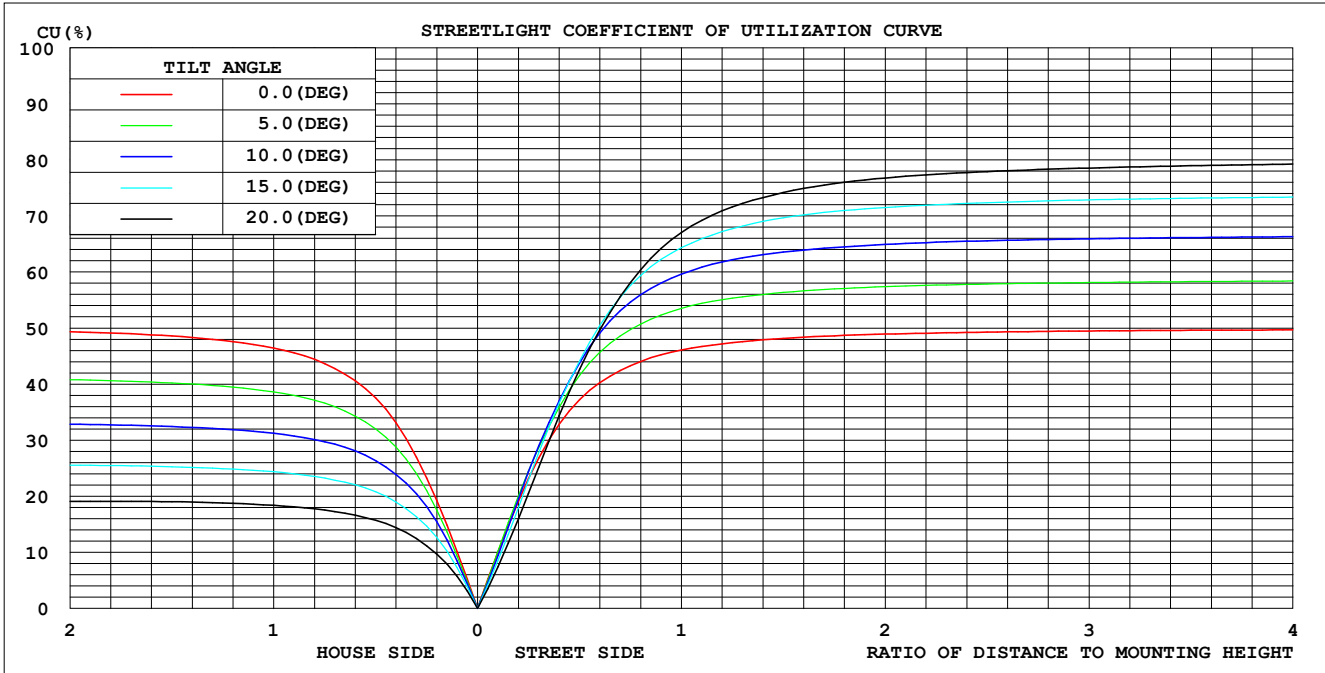
IES:Type V - Very Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:10.18cd/klm
 Max.At90:0.1243cd/klm
 Max.80-90:10.18cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	89388
90%	80450
80%	71511
70%	62572
60%	53633
50%	44694
40%	35755
30%	26817
20%	17878
10%	8939
5%	4469

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:07 January 2020

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.416
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

**COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM**



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:07 January 2020

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:481.57V I:1.0479A P:504.65W PF:0.9927 Freq:49.96Hz Lamp Flux:66352x1 lm		
NAME: ASD-SPFLHV-500D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:1	Shielding Angle:

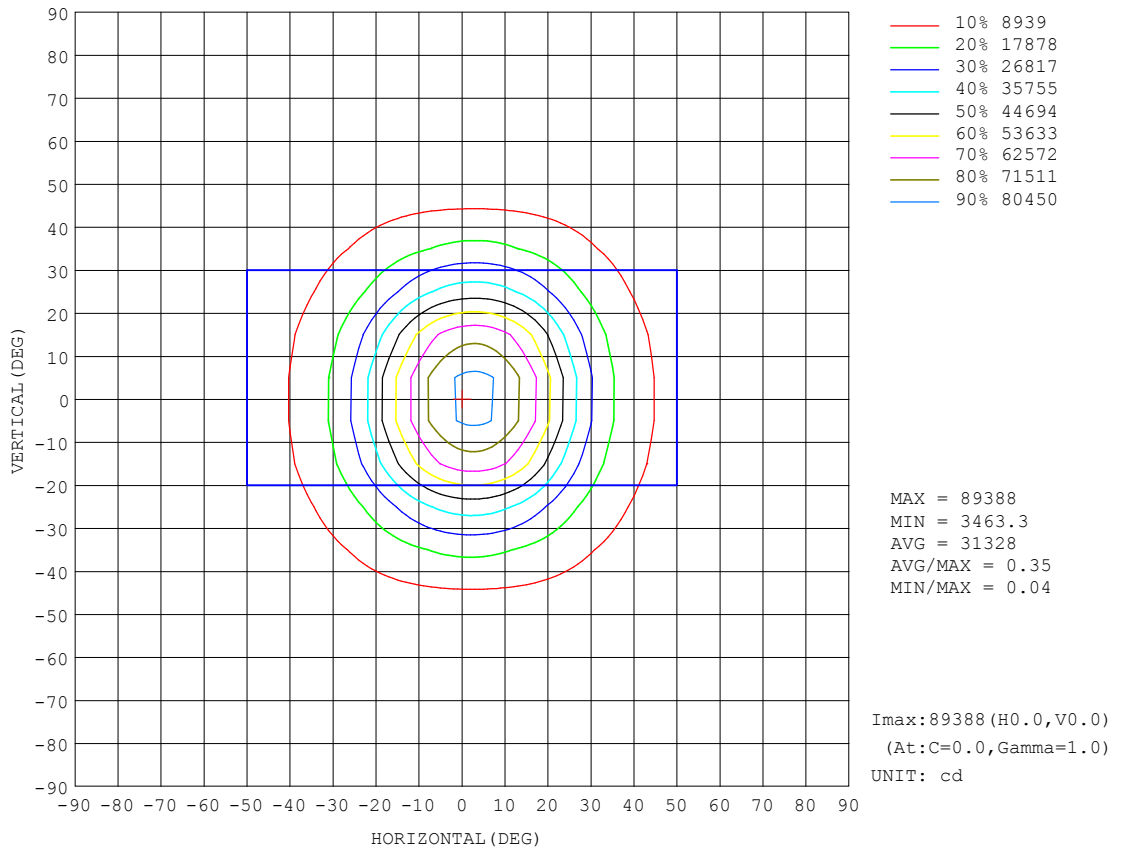
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	8057	7579	7475	7240	7744	7269	7552	7644	0- 10	7698	7698	11.3,11.3
20	5431	5491	5365	4959	5080	4934	5446	5637	10- 20	17961	25659	37.8,37.8
30	2529	2710	2601	2591	2438	2530	2615	2822	20- 30	17361	43019	63.4,63.4
40	1142	1166	1399	1156	1111	1127	1409	1214	30- 40	11215	54235	80,80
50	566.2	591.8	623.7	573.9	547.9	585.5	631.6	598.7	40- 50	6525	60760	89.6,89.6
60	281.2	300.4	274.3	286.3	281.2	303.3	282.9	300.1	50- 60	3764	64524	95.1,95.1
70	146.3	151.4	159.8	145.1	150.1	151.6	164.8	155.7	60- 70	2111	66635	98.2,98.2
80	58.75	55.20	0	53.04	61.48	53.73	0	58.18	70- 80	1068	67703	99.8,99.8
90	0.8434	0	0	0	0.7319	0	0	0	80- 90	124.3	67827	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:×10cd								UNIT:lm			

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:07 January 2020

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

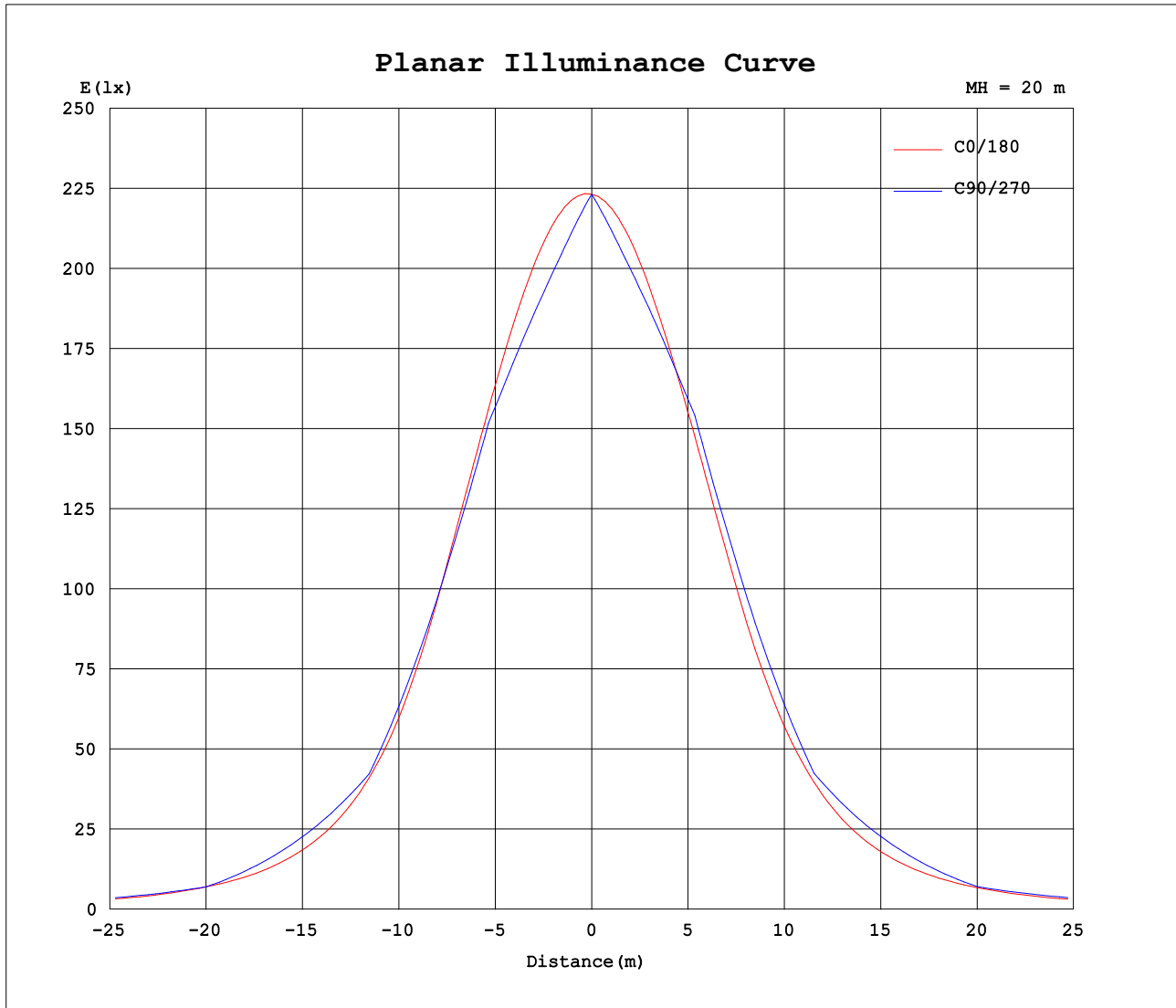
Test:U:481.57V I:1.0479A P:504.65W PF:0.9927 Freq:49.96Hz Lamp Flux:66352x1 lm		
NAME: ASD-SPFLHV-500D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:1	Shielding Angle:



H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:07 January 2020

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.416
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

Planar Illuminance Curve



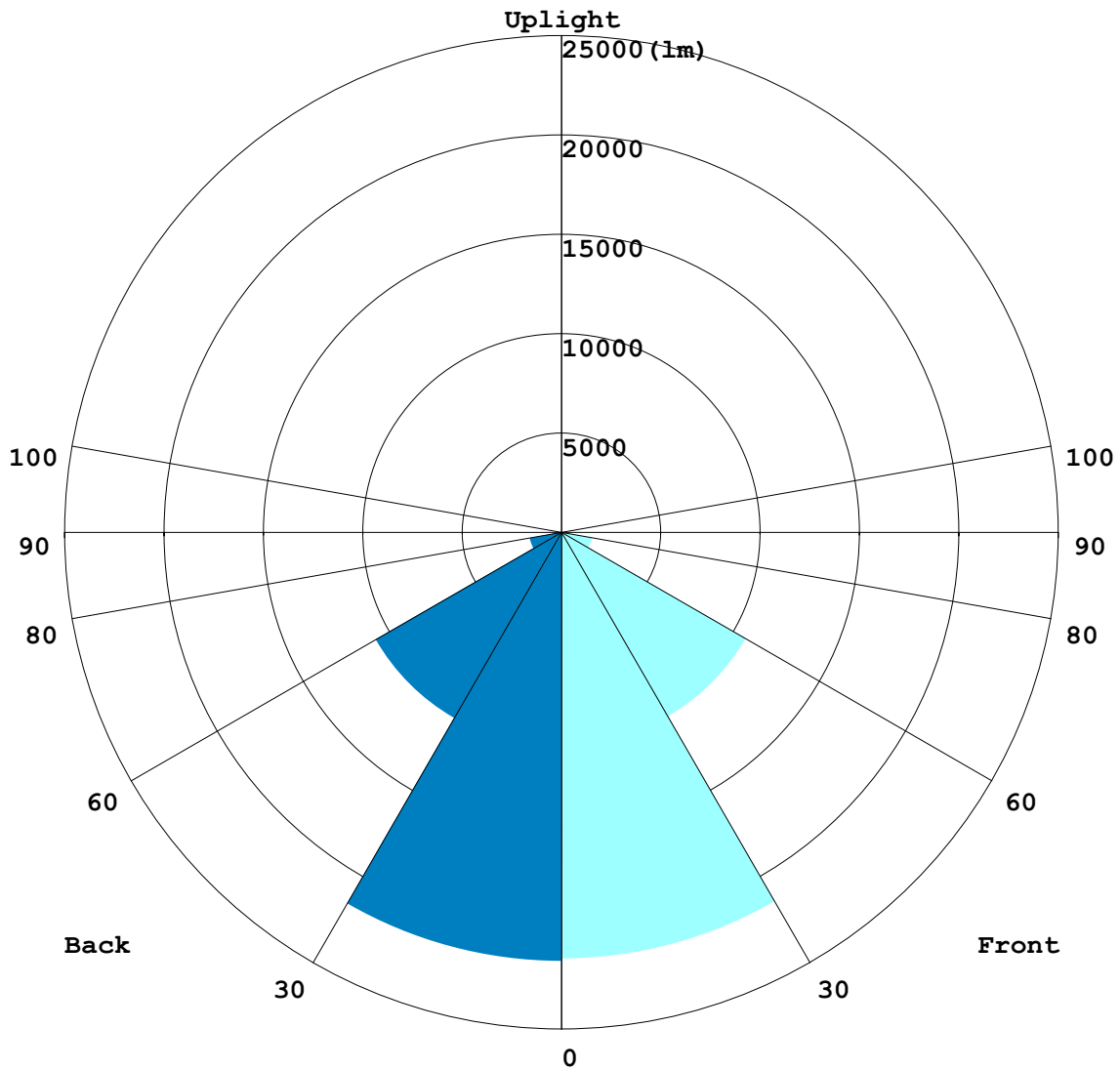
H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:07 January 2020

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.416
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LCS REPORT

Test:U:481.57V I:1.0479A P:504.65W PF:0.9927 Freq:49.96Hz Lamp Flux:66352x1 lm		
NAME: ASD-SPFLHV-500D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:1	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:07 January 2020

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.416
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

BUG REPORT

Test:U:481.57V I:1.0479A P:504.65W PF:0.9927 Freq:49.96Hz Lamp Flux:66352x1 lm		
NAME: ASD-SPFLHV-500D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:1	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	21440	31.6
FM - Front-Medium(30-60)	10706	15.8
FH - Front-High(60-80)	1566	2.3
FVH - Front-Very High(80-90)	60.44	0.1
Total Forward Light	33773	49.8

BL - Back-Low(0-30)	21579	31.8
BM - Back-Medium(30-60)	10798	15.9
BH - Back-High(60-80)	1613.4	2.4
BVH - Back-Very High(80-90)	63.896	0.1
Total Back Light	34054	50.2

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-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	34054	0	34054
Street Side	33773	0	33773

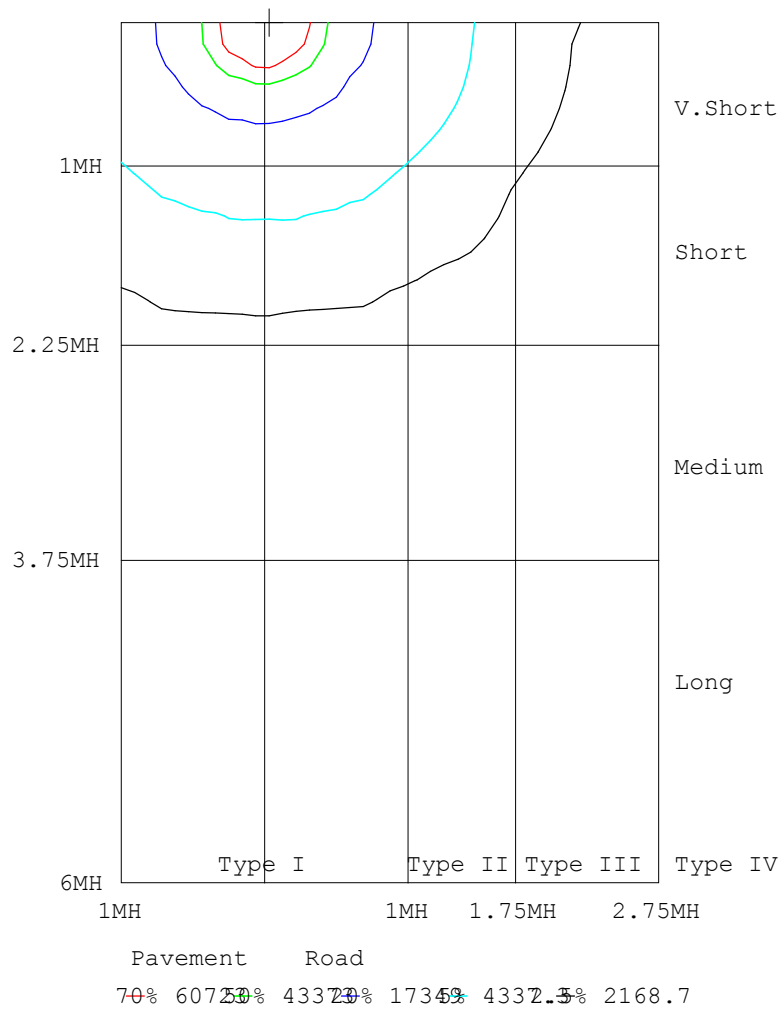
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:07 January 2020

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:481.57V I:1.0479A P:504.65W PF:0.9927 Freq:49.96Hz Lamp Flux:66352x1 lm		
NAME: ASD-SPFLHV-500D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:1	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:07 January 2020

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.416
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:481.57V I:1.0479A P:504.65W PF:0.9927 Freq:49.96Hz Lamp Flux:66352x1 lm		
NAME: ASD-SPFLHV-500D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:1	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) \ γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931
5	8754	8698	8646	8598	8552	8511	8473	8439	8406	8375	8347	8321	8295	8273	8250	8229	8211	8192	8178
10	8057	7972	7901	7842	7795	7760	7728	7666	7616	7579	7549	7529	7517	7506	7498	7493	7489	7483	7475
15	6923	6833	6770	6735	6702	6598	6526	6479	6457	6506	6571	6630	6683	6726	6756	6770	6769	6754	6728
20	5431	5367	5349	5328	5187	5088	5063	5193	5338	5491	5540	5502	5469	5439	5416	5399	5384	5373	5365
25	3799	3790	3838	3721	3603	3638	3800	3991	3972	3956	3943	3991	4037	4059	4061	4049	4028	4002	3975
30	2529	2546	2555	2436	2434	2579	2654	2620	2613	2710	2796	2839	2803	2754	2701	2655	2623	2604	2601
35	1680	1709	1676	1606	1712	1751	1702	1746	1825	1839	1794	1715	1776	1851	1914	1961	1991	2003	1998
40	1142	1175	1124	1141	1193	1141	1180	1220	1187	1166	1229	1292	1330	1353	1371	1384	1392	1397	1399
45	796	827	772	833	800	817	832	800	836	877	884	884	887	887	875	854	830	809	797
50	566	582	566	581	572	587	574	601	601	592	598	589	586	596	605	613	620	623	624
55	397	404	415	394	416	405	427	413	414	414	422	429	437	444	449	452	452	451	448
60	281	280	290	291	283	296	287	292	295	300	311	316	313	307	299	290	282	277	274
65	203	199	198	202	209	205	208	208	217	218	213	207	210	213	216	217	218	218	217
70	146	149	150	150	148	146	151	151	147	151	156	158	159	159	160	160	160	160	160
75	98.2	99.9	101	102	100.0	102	102	106	105	105	105	106	107	106	106	105	104	103	103
80	58.7	62.6	62.9	63.2	62.7	66.6	65.3	64.5	64.3	55.2	44.5	34.9	26.3	18.6	12.1	6.86	3.06	0.77	0.00
85	20.9	22.9	24.4	24.5	28.3	15.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:07 January 2020

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:481.57V I:1.0479A P:504.65W PF:0.9927 Freq:49.96Hz Lamp Flux:66352x1 lm		
NAME: ASD-SPFLHV-500D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:1	Shielding Angle:

Table--2

UNIT: ×10cd

C (DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931
5	8161	8151	8140	8134	8133	8132	8139	8149	8165	8187	8215	8247	8287	8333	8386	8445	8510	8579	8512
10	7461	7444	7422	7397	7369	7339	7305	7271	7240	7209	7187	7171	7222	7290	7377	7482	7605	7744	7606
15	6686	6636	6579	6518	6454	6392	6336	6289	6256	6219	6132	6057	5994	5953	6035	6173	6344	6548	6341
20	5352	5336	5315	5284	5242	5189	5121	5043	4959	4891	4852	4842	4737	4625	4543	4650	4842	5080	4834
25	3949	3927	3910	3898	3889	3879	3868	3831	3717	3599	3488	3457	3452	3393	3265	3214	3382	3597	3372
30	2607	2621	2635	2647	2646	2628	2588	2586	2591	2590	2496	2394	2345	2354	2291	2188	2268	2438	2259
35	1979	1949	1911	1867	1821	1771	1728	1722	1690	1672	1696	1685	1601	1571	1593	1505	1508	1634	1502
40	1396	1387	1369	1341	1302	1254	1209	1183	1156	1133	1096	1112	1127	1069	1069	1052	1018	1111	1016
45	797	809	828	849	864	872	862	830	791	783	776	746	751	761	729	752	702	771	704
50	620	612	599	582	562	540	541	565	574	551	531	540	521	528	524	527	507	548	511
55	445	441	437	432	425	418	408	391	371	384	389	373	382	366	385	371	370	394	374
60	275	279	285	289	293	293	291	290	286	275	262	276	266	272	262	267	271	281	274
65	216	214	212	210	207	204	200	202	202	201	202	195	197	192	197	200	201	205	203
70	159	159	158	157	156	153	149	146	145	145	144	143	145	141	138	139	143	150	144
75	102	103	104	104	105	105	104	104	103	102	100	101	98.4	98.7	96.4	96.7	98.4	103	99.8
80	0.76	3.04	6.78	11.9	18.3	25.7	34.0	43.2	53.0	62.4	64.8	65.6	61.9	59.4	58.1	56.6	56.0	61.5	57.7
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.7	22.7	24.5	23.6	18.8	29.3	21.8
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	0.73	0.00

H(β) Range:-90 - 90DEG	V(B) Range:-75 - 75DEG
H(β) Interval: 1.0DEG	V(B) Interval: 5.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.416
Temperature:25.3DEG	Humidity:65.0%
Operators:S	Test Distance:8.000m [K=1.0000]
Test Date:07 January 2020	Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:481.57V I:1.0479A P:504.65W PF:0.9927 Freq:49.96Hz Lamp Flux:66352x1 lm		
NAME: ASD-SPFLHV-500D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:1	Shielding Angle:

Table--3

UNIT: ×10cd

C (DEG) \ γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931
5	8450	8393	8342	8298	8261	8231	8205	8185	8172	8164	8159	8162	8165	8173	8185	8197	8215	8229	8248
10	7485	7381	7296	7231	7184	7204	7233	7269	7306	7346	7387	7423	7456	7487	7513	7535	7552	7562	7569
15	6167	6026	5943	5987	6053	6135	6230	6274	6316	6372	6439	6513	6589	6661	6728	6788	6838	6871	6890
20	4634	4520	4597	4704	4808	4817	4859	4934	5030	5123	5205	5271	5324	5366	5397	5423	5446	5465	5485
25	3194	3235	3352	3402	3397	3421	3537	3662	3787	3835	3856	3875	3893	3915	3942	3977	4016	4057	4100
30	2169	2261	2313	2292	2334	2434	2528	2530	2527	2531	2575	2599	2608	2606	2603	2603	2615	2639	2676
35	1492	1571	1540	1563	1644	1653	1628	1641	1667	1670	1717	1774	1829	1882	1931	1973	2005	2025	2028
40	1046	1059	1055	1111	1096	1079	1109	1127	1152	1178	1226	1278	1322	1357	1382	1398	1409	1416	1417
45	753	731	762	753	749	776	781	788	824	855	869	865	853	835	818	806	805	816	838
50	534	533	540	534	554	545	563	586	578	558	557	577	595	610	621	628	632	631	626
55	379	396	380	399	390	406	403	392	410	424	433	438	443	447	451	454	457	459	460
60	273	270	284	279	290	278	292	303	306	305	305	303	299	294	289	284	283	285	290
65	204	203	200	206	205	213	211	213	213	210	213	215	217	219	221	223	224	224	224
70	140	141	147	151	149	150	150	152	153	156	159	161	162	163	164	165	165	165	165
75	98.8	98.9	102	102	104	103	104	106	107	107	107	107	107	106	106	106	106	106	107
80	58.4	59.2	61.7	67.1	66.9	64.0	62.2	53.7	43.6	34.3	26.0	18.6	12.2	6.95	3.12	0.79	0.00	0.79	3.16
85	24.0	24.6	25.7	15.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

H(β) Range:-90 - 90DEG	V(B) Range:-75 - 75DEG
H(β) Interval: 1.0DEG	V(B) Interval: 5.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.416
Temperature:25.3DEG	Humidity:65.0%
Operators:S	Test Distance:8.000m [K=1.0000]
Test Date:07 January 2020	Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:481.57V I:1.0479A P:504.65W PF:0.9927 Freq:49.96Hz Lamp Flux:66352x1 lm		
NAME: ASD-SPFLHV-500D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:1	Shielding Angle:

Table--4

UNIT: x10cd

C (DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931	8931				
5	8267	8287	8310	8330	8355	8379	8404	8433	8464	8495	8529	8567	8609	8654	8702				
10	7575	7579	7585	7593	7602	7618	7644	7675	7720	7774	7800	7827	7866	7917	7981				
15	6893	6879	6848	6802	6746	6680	6608	6552	6566	6603	6664	6755	6775	6798	6846				
20	5508	5532	5563	5600	5639	5685	5637	5474	5316	5171	5180	5260	5383	5386	5386				
25	4133	4156	4165	4152	4116	4076	4096	4119	4142	3925	3738	3679	3778	3877	3809				
30	2722	2780	2842	2901	2944	2906	2822	2723	2731	2766	2676	2504	2484	2587	2562				
35	2010	1973	1919	1850	1793	1874	1920	1903	1818	1769	1819	1768	1642	1700	1721				
40	1415	1409	1397	1378	1343	1280	1214	1233	1264	1219	1175	1229	1166	1138	1182				
45	864	888	904	907	907	909	903	858	817	849	831	812	847	778	831				
50	619	609	598	585	589	603	599	608	606	575	589	574	584	567	583				
55	458	455	448	438	429	421	412	413	413	426	404	415	394	415	405				
60	297	305	312	317	319	311	300	295	292	288	297	284	293	292	281				
65	223	222	219	216	211	216	220	219	211	211	209	213	207	203	202				
70	165	165	164	163	161	159	156	153	156	156	151	153	156	155	153				
75	108	109	110	110	110	109	109	110	111	107	107	105	107	105	102				
80	7.08	12.5	19.3	27.4	36.6	46.9	58.2	68.1	69.0	68.1	67.5	65.7	67.2	65.9	64.1				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.1	26.8	25.9	27.7	30.1				
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				

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:07 January 2020

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks: