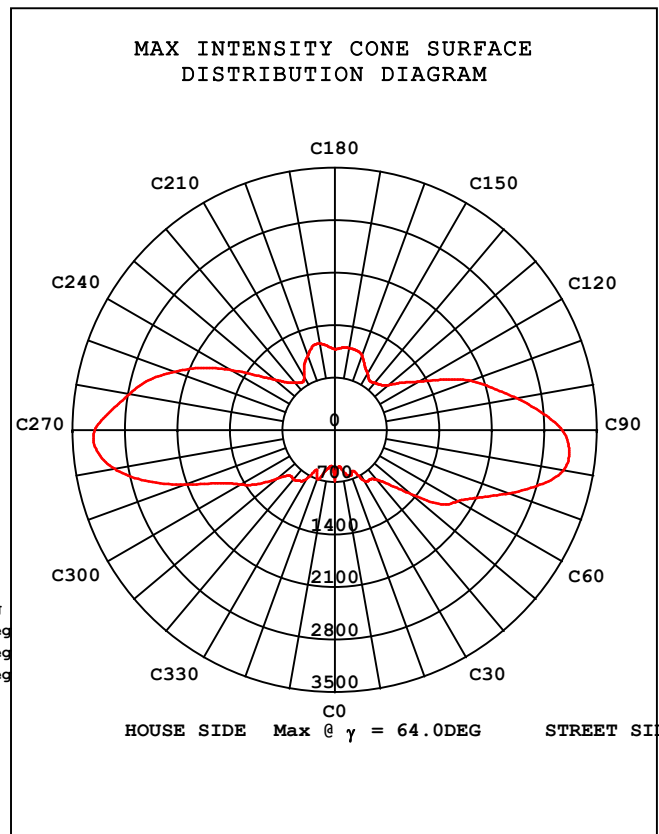
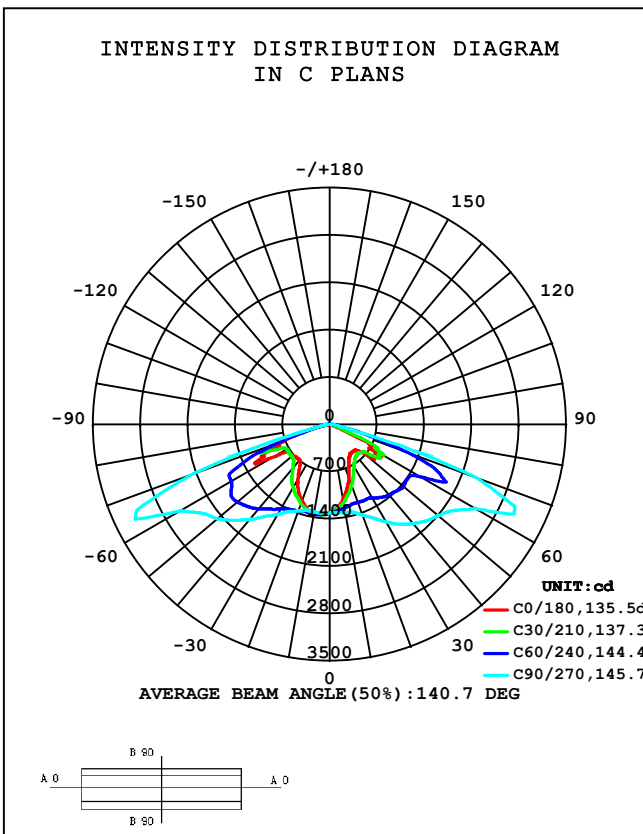


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.0V I:0.2190A P:47.50W PF:0.9823 Lamp Flux:5423.45x1 lm		
NAME: LED DKU EFA M	TYPE:STREET	WEIGHT:
SPEC.:COBRA	DIM.:	SERIAL No.:
MFR.: TD OPTIMA	SUR.:	PROTECTION ANGLE:

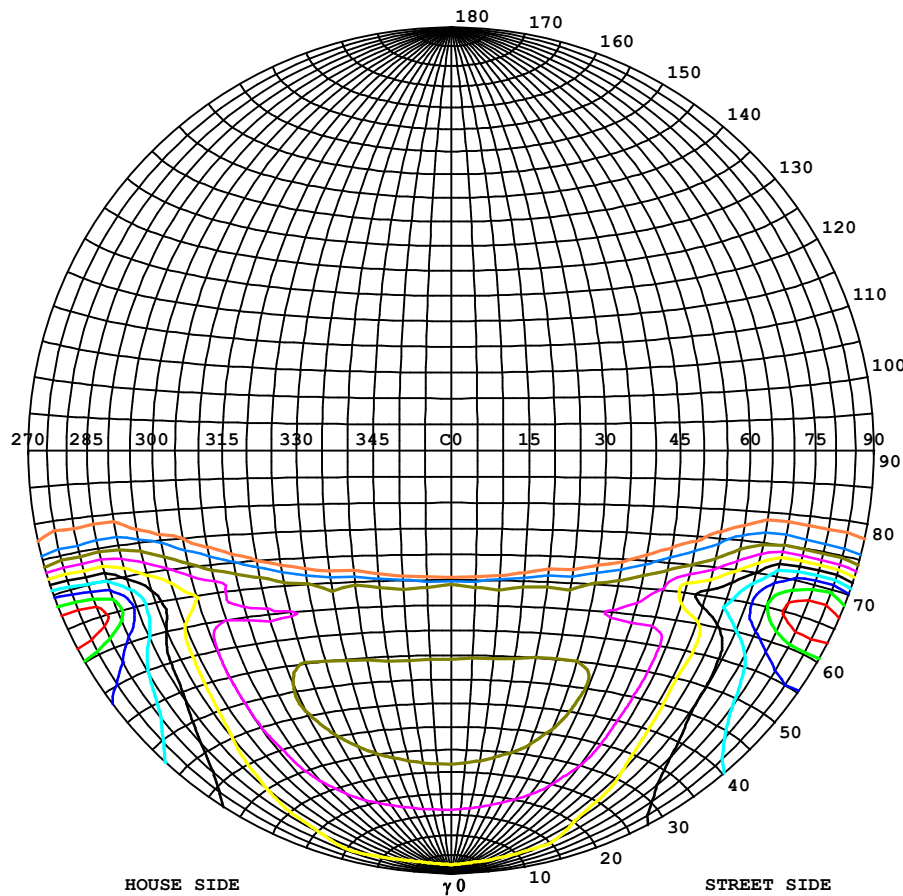
DATA OF LAMP		PHOTOMETRIC DATA Eff: 114.18 lm/W			
MODEL	50-002 U1 5000K	Imax (cd)	3206	η street_up (%)	0.0
NOMINAL POWER (W)	50	LOR (%)	100.0	η street_down (%)	50.4
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	5423	η house_up (%)	0.0
NOMINAL FLUX (lm)	5423.45	MAXIMUM @ (C, γ)	270,64.0	η house_down (%)	49.6
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)	220.4	η down (%)	100.0	SLI	14.391



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 18.6DEG
 Operators: Litvinenko A.S.
 Test Date: 2019-05-11

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.279
 Humidity: 51%
 Test Distance: 13.823m [K=1.0000]
 Remarks: B-beta

STREETLIGHT ISOCANDELA DIAGRAM



Classification:

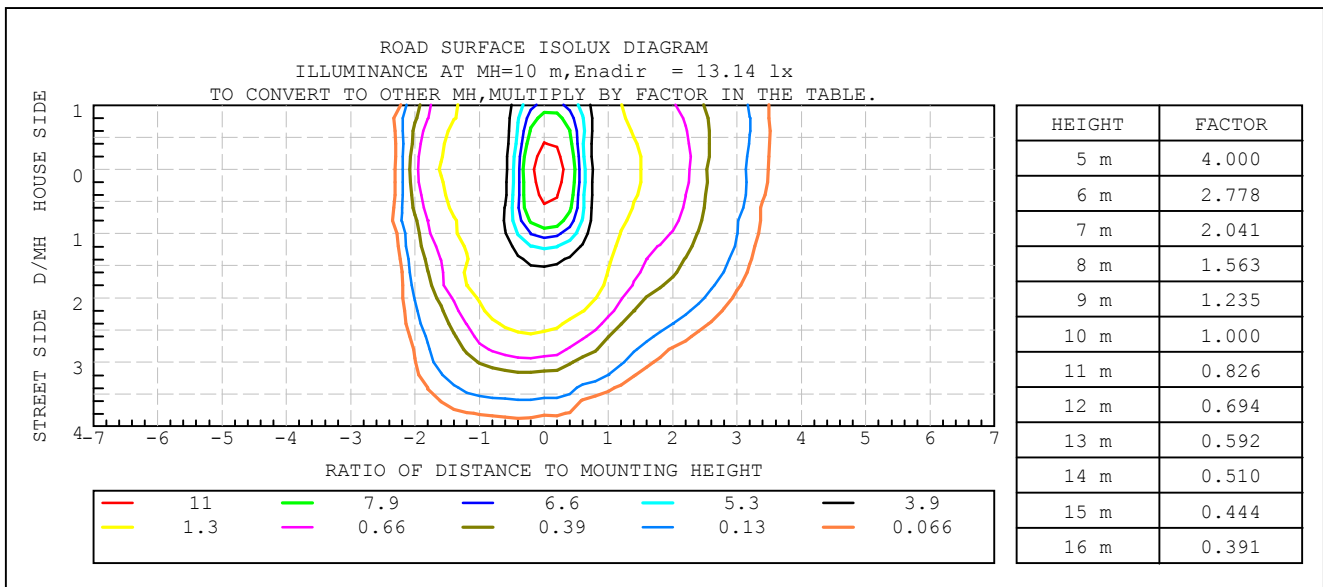
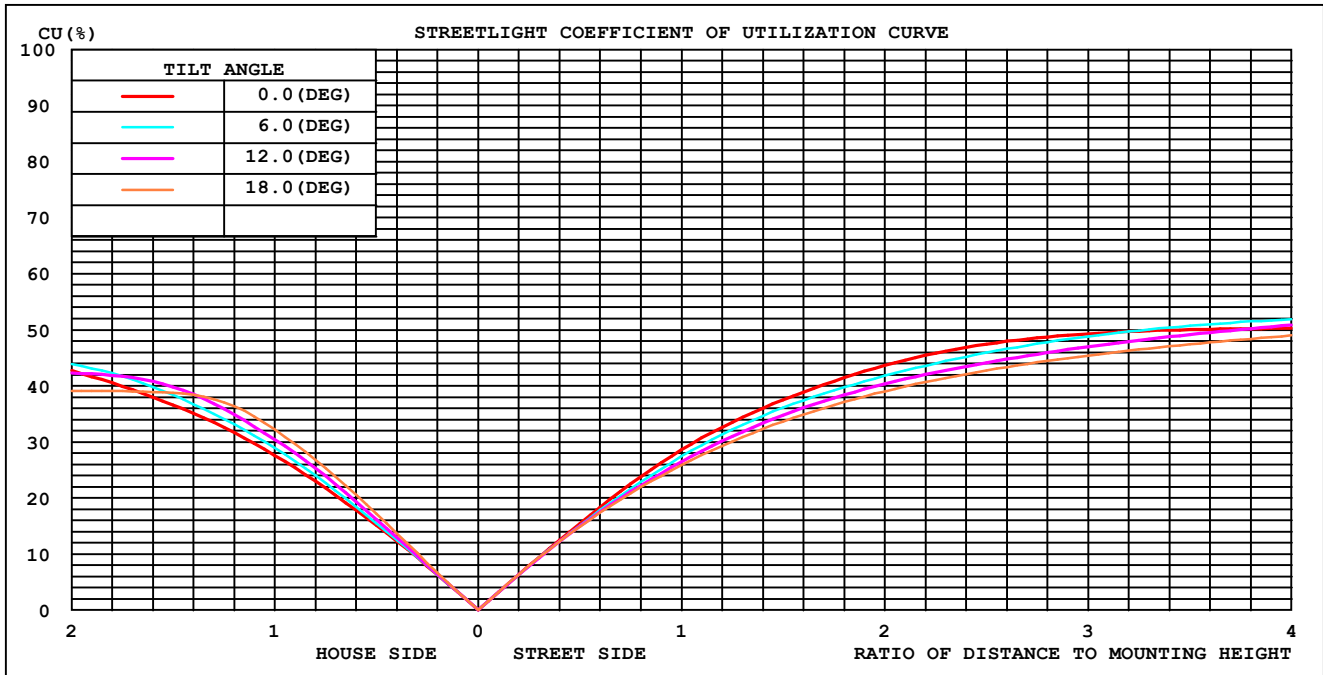
IES:Type IV - Very Short
 CIE:Broad - Intermediate
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:17.35cd/klm
 Max.At90:13.62cd/klm
 Max.80-90:17.35cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	3206
90%	2885
80%	2565
70%	2244
60%	1924
50%	1603
40%	1282
30%	962
20%	641
10%	321
5%	160

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:18.6DEG
 Operators:Litvinenko A.S.
 Test Date:2019-05-11

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.279
 Humidity:51%
 Test Distance:13.823m [K=1.0000]
 Remarks: B-beta

**COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM**



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 18.6DEG
Operators: Litvinenko A.S.
Test Date: 2019-05-11

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.279
Humidity: 51%
Test Distance: 13.823m [K=1.0000]
Remarks: B-beta

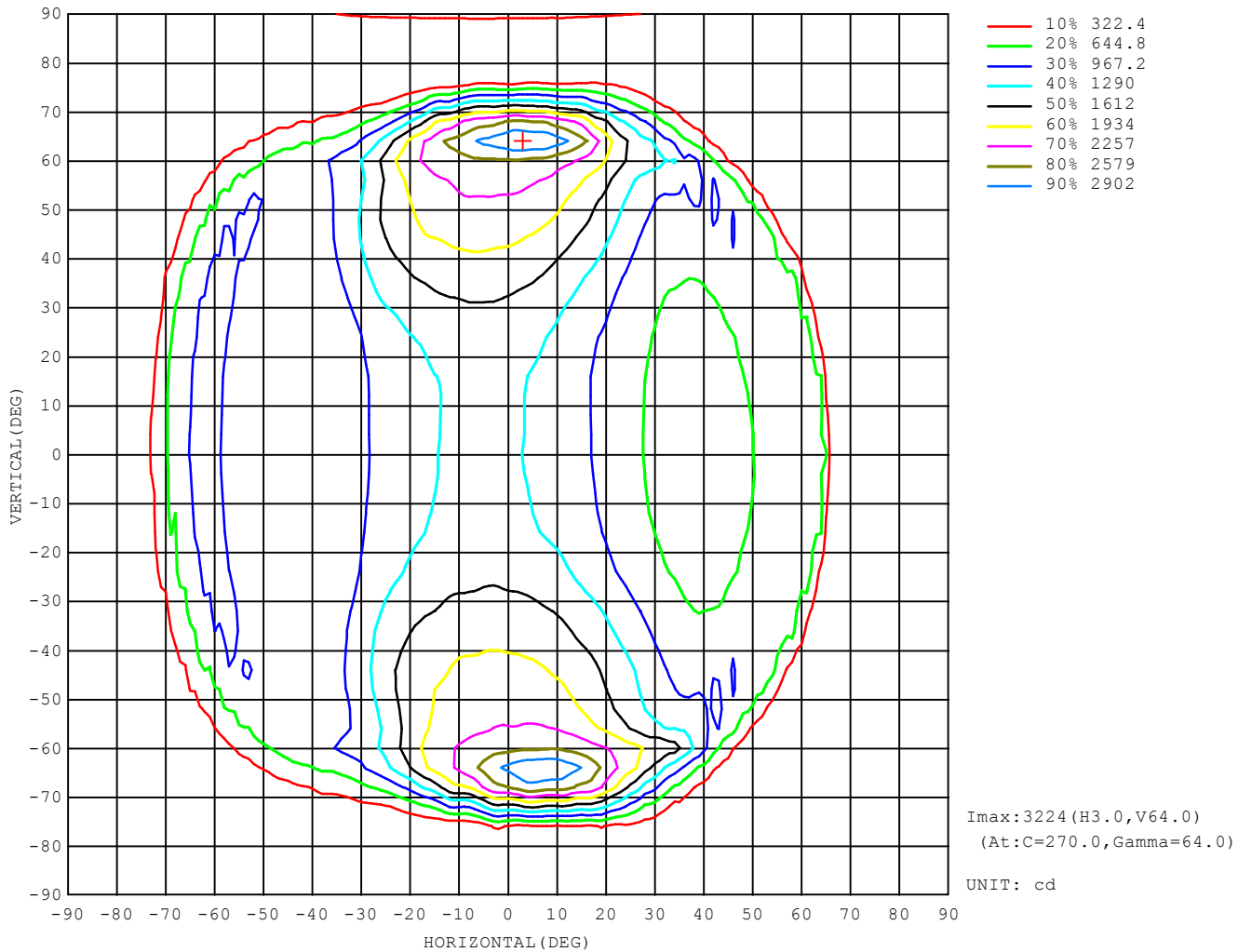
ZONAL FLUX DIAGRAM

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
5	1240	1271	1317	1349	1345	1346	1323	1269	0- 5	31.35	31.350	58,0,58
10	1136	1223	1329	1352	1342	1348	1320	1210	5- 10	92.68	124.02	2.29,2.29
15	996.3	1152	1349	1357	1294	1333	1322	1114	10- 15	149.6	273.75	0.05,5.05
20	845.6	1076	1434	1342	1207	1300	1368	1024	15- 20	201.1	474.78	7.5,8.75
25	682.6	1024	1531	1328	1098	1282	1426	936.7	20- 25	248.3	723.01	13.3,13.3
30	577.3	958.6	1669	1313	947.3	1263	1541	853.5	25- 30	291.2	1014	18.7,18.7
35	529.8	915.7	1807	1290	778.4	1234	1667	768.1	30- 35	334.2	1348	24.9,24.9
40	530.0	895.8	1919	1259	694.6	1268	1837	725.1	35- 40	378.6	1727	31.8,31.8
45	544.1	870.3	2023	1177	701.5	1226	2011	684.8	40- 45	427.6	2155	39.7,39.7
50	697.9	849.1	2100	1035	723.9	1134	2178	698.1	45- 50	480.2	2635	48.6,48.6
55	829.9	862.1	2230	926.1	740.5	1041	2301	741.7	50- 55	539.9	3175	58.5,58.5
60	839.2	1051	2494	845.2	999.9	919.7	2556	979.3	55- 60	599.2	3774	69.6,69.6
65	194.0	969.7	3017	875.6	1127	900.8	3166	806.6	60- 65	688.4	4462	82.3,82.3
70	25.42	433.3	2287	706.9	718.5	694.1	2154	337.4	65- 70	596.2	5059	93.3,93.3
75	15.79	52.38	478.6	218.3	47.18	219.9	422.0	34.17	70- 75	288.9	5347	98.6,98.6
80	13.66	20.89	51.62	24.55	18.27	21.97	73.18	23.80	75- 80	50.93	5398	99.5,99.5
85	12.35	16.99	40.88	16.13	12.44	18.87	61.39	23.90	80- 85	14.31	5413	99.8,99.8
90	7.462	9.070	12.36	8.561	6.506	14.52	55.45	15.93	85- 90	10.71	5423	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:18.6DEG
 Operators:Litvinenko A.S.
 Test Date:2019-05-11

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.279
 Humidity:51%
 Test Distance:13.823m [K=1.0000]
 Remarks: B-beta

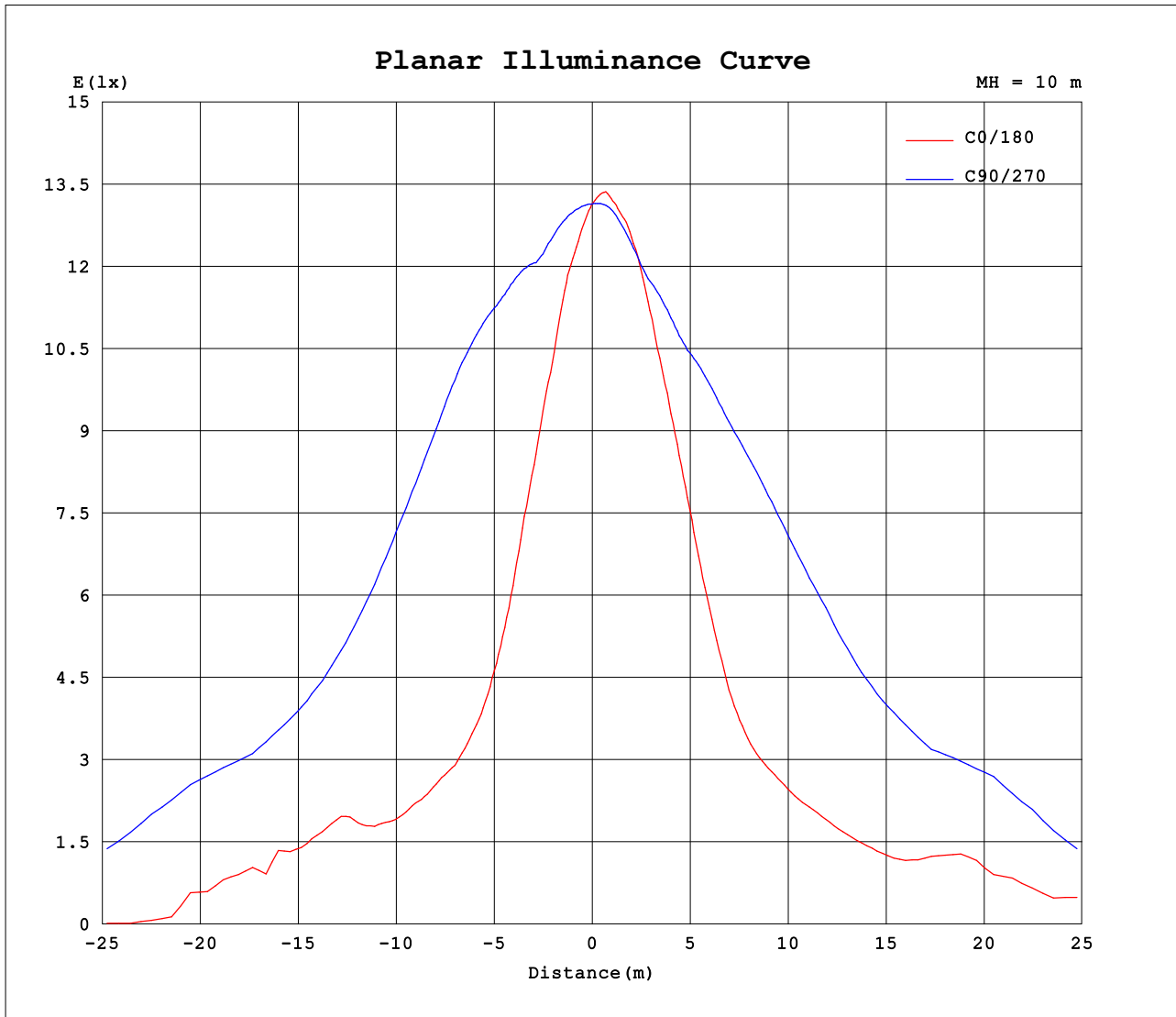
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 18.6DEG
Operators: Litvinenko A.S.
Test Date: 2019-05-11

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.279
Humidity: 51%
Test Distance: 13.823m [K=1.0000]
Remarks: B-beta

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 18.6DEG
Operators: Litvinenko A.S.
Test Date: 2019-05-11

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.279
Humidity: 51%
Test Distance: 13.823m [K=1.0000]
Remarks: B-beta

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314
5	1240	1241	1243	1245	1248	1251	1255	1260	1265	1271	1278	1284	1289	1294	1299	1305	1310	1313	1317
10	1136	1140	1145	1153	1163	1175	1187	1199	1211	1223	1235	1248	1261	1276	1291	1304	1315	1323	1329
15	996	1001	1009	1020	1035	1053	1074	1097	1123	1152	1184	1211	1234	1255	1277	1305	1328	1342	1349
20	846	851	861	879	904	933	963	998	1037	1076	1124	1174	1233	1282	1321	1360	1399	1423	1434
25	683	691	705	727	758	792	834	887	952	1024	1098	1166	1241	1317	1380	1426	1480	1517	1531
30	577	586	599	617	639	672	725	797	876	959	1054	1163	1259	1365	1468	1539	1599	1647	1669
35	530	540	551	563	579	606	652	719	800	916	1044	1184	1324	1436	1558	1659	1725	1778	1807
40	530	536	542	550	562	582	613	663	762	896	1048	1202	1370	1519	1641	1760	1837	1892	1919
45	544	544	549	557	570	587	606	646	730	870	1039	1222	1401	1583	1731	1862	1945	2006	2023
50	698	673	668	659	640	638	641	662	719	849	1021	1234	1430	1605	1798	1937	2041	2100	2100
55	830	810	816	838	865	807	872	789	802	862	1006	1195	1409	1641	1853	2046	2182	2243	2230
60	839	785	770	771	817	845	903	985	1010	1051	1091	1251	1556	1898	2173	2385	2518	2518	2494
65	194	265	375	417	478	488	666	778	818	970	1378	1772	1836	2134	2534	2919	3139	3150	3017
70	25.4	26.6	31.2	39.2	41.0	44.7	68.0	124	237	433	629	873	1229	1593	2069	2293	2429	2484	2287
75	15.8	17.0	18.5	20.7	22.0	22.1	22.9	25.4	29.5	52.4	109	246	432	570	644	616	569	562	479
80	13.7	14.8	16.7	17.3	17.1	16.3	16.7	17.9	20.6	20.9	25.0	30.7	67.2	85.4	77.0	68.8	61.6	54.9	51.6
85	12.4	13.6	14.4	14.0	12.9	13.1	13.7	14.8	15.9	17.0	18.8	20.1	21.7	25.3	28.6	41.2	40.6	43.1	40.9
90	7.46	9.99	10.7	9.71	8.95	8.35	8.49	8.75	9.00	9.07	9.32	9.54	9.79	9.93	10.7	11.5	12.2	12.9	12.4

C Range: 0 - 360DEG γ Range: 0 - 90DEG
 C Interval: 5.0DEG γ Interval: 0.5DEG
 Test Speed: HIGH Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.279
 Temperature:18.6DEG Humidity:51%
 Operators:Litvinenko A.S. Test Distance:13.823m [K=1.0000]
 Test Date:2019-05-11 Remarks: B-beta

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--3

UNIT: cd

C (DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314
5	1346	1346	1347	1347	1348	1348	1347	1346	1344	1342	1339	1337	1334	1331	1328	1325	1323	1318	1313
10	1339	1338	1338	1339	1341	1343	1346	1348	1349	1350	1352	1353	1349	1343	1336	1328	1320	1310	1299
15	1294	1298	1304	1307	1312	1319	1326	1333	1338	1341	1345	1349	1354	1359	1350	1337	1322	1307	1289
20	1208	1212	1221	1235	1252	1270	1283	1300	1321	1344	1365	1379	1390	1399	1403	1389	1368	1347	1321
25	1101	1114	1135	1156	1172	1196	1237	1282	1326	1362	1391	1420	1441	1450	1460	1454	1426	1400	1361
30	964	986	1012	1039	1080	1139	1203	1263	1308	1375	1444	1493	1538	1564	1574	1569	1541	1506	1454
35	788	817	856	906	982	1072	1149	1234	1359	1449	1534	1609	1651	1690	1707	1696	1667	1624	1558
40	690	701	720	776	849	948	1106	1268	1393	1529	1633	1727	1796	1845	1871	1859	1837	1778	1696
45	700	700	704	715	759	877	1032	1226	1422	1586	1722	1859	1933	2007	2043	2025	2011	1937	1842
50	735	728	726	717	743	807	948	1134	1393	1612	1792	1955	2060	2150	2193	2190	2178	2108	2003
55	752	746	744	738	744	769	866	1041	1267	1562	1785	1964	2122	2224	2294	2313	2301	2240	2137
60	912	847	796	767	740	748	799	920	1098	1334	1683	2027	2262	2410	2504	2531	2556	2496	2367
65	1123	1133	1115	1026	901	816	850	901	1053	1245	1505	1900	2262	2590	2773	2964	3166	3161	3012
70	744	842	863	877	839	838	817	694	647	696	834	1032	1338	1726	2008	2030	2154	2033	1938
75	158	274	359	327	342	293	273	220	194	183	202	221	255	308	388	478	422	505	474
80	22.0	21.8	26.0	25.4	25.3	24.0	35.2	22.0	21.9	24.2	27.6	32.4	38.3	42.5	62.2	70.2	73.2	79.3	91.3
85	12.2	12.3	15.0	15.6	15.0	15.3	20.5	18.9	19.9	20.2	22.2	24.9	29.1	33.4	53.9	59.7	61.4	65.9	70.7
90	8.90	8.88	9.53	10.4	11.4	12.6	14.2	14.5	15.8	16.1	18.2	21.1	24.6	30.2	47.9	57.9	55.5	71.6	73.9

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 5.0DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.279
Temperature:18.6DEG	Humidity:51%
Operators:Litvinenko A.S.	Test Distance:13.823m [K=1.0000]
Test Date:2019-05-11	Remarks: B-beta

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--4

UNIT: cd

C (DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314				
5	1306	1300	1293	1287	1281	1275	1269	1263	1258	1253	1249	1246	1243	1241	1240				
10	1286	1273	1258	1243	1232	1221	1210	1198	1186	1176	1167	1157	1148	1142	1138				
15	1267	1245	1222	1198	1170	1142	1114	1091	1072	1056	1040	1025	1013	1004	998				
20	1287	1248	1202	1148	1095	1056	1024	988	953	926	905	888	873	861	851				
25	1308	1249	1173	1106	1053	991	937	892	847	802	766	737	716	699	688				
30	1379	1282	1184	1092	1003	932	853	782	726	680	643	617	600	589	581				
35	1453	1341	1225	1111	998	874	768	694	645	604	573	558	551	545	538				
40	1568	1431	1282	1126	970	830	725	648	596	580	566	549	543	541	538				
45	1696	1531	1356	1158	965	803	685	637	610	584	576	570	559	557	552				
50	1823	1642	1415	1178	958	791	698	659	637	641	651	658	685	699	698				
55	1940	1713	1468	1200	970	803	742	787	783	878	859	863	871	851	834				
60	2199	1948	1591	1268	1037	963	979	971	973	890	882	840	784	806	801				
65	2702	2176	1674	1424	1273	1055	807	873	715	651	464	515	396	351	250				
70	1883	1516	1219	998	733	499	337	160	96.8	54.3	45.0	39.1	33.7	28.3	26.2				
75	531	497	400	267	158	38.4	34.2	29.0	25.2	23.4	22.7	22.2	19.5	16.2	15.8				
80	86.8	94.1	63.6	34.4	28.7	24.7	23.8	22.1	20.7	17.5	15.2	15.9	16.2	14.0	13.9				
85	45.6	39.4	28.4	23.3	22.4	22.4	23.9	19.7	16.5	13.0	12.4	12.3	11.1	13.2	12.5				
90	34.5	26.9	23.9	18.8	17.4	15.6	15.9	15.6	11.8	11.2	10.7	10.7	10.6	10.8	9.51				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:18.6DEG
 Operators:Litvinenko A.S.
 Test Date:2019-05-11
 γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.279
 Humidity:51%
 Test Distance:13.823m [K=1.0000]
 Remarks: B-beta

Photometric Data Table [cd]

G/C	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
0.0	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314
2.5	1281	1281	1282	1283	1284	1286	1287	1289	1291	1293
5.0	1240	1241	1243	1245	1248	1251	1255	1260	1265	1271
7.5	1201	1203	1205	1209	1214	1218	1224	1230	1238	1246
10.0	1136	1140	1145	1153	1163	1175	1187	1199	1211	1223
12.5	1064	1067	1073	1081	1093	1109	1128	1150	1173	1195
15.0	996.3	1001	1009	1020	1035	1053	1074	1097	1123	1152
17.5	923.6	929.3	938.9	952.8	971.4	994.9	1022	1050	1080	1114
20.0	845.6	850.7	861.2	879.0	903.7	933.3	963.2	998.4	1037	1076
22.5	758.3	765.3	777.5	797.8	826.8	861.2	900.8	943.6	990.9	1049
25.0	682.6	690.6	704.9	727.4	757.6	792.3	833.8	886.8	952.5	1024
27.5	622.7	630.7	644.1	665.1	693.8	731.1	777.3	836.9	911.5	993.4
30.0	577.3	586.1	599.1	617.1	638.6	672.0	725.3	796.7	875.7	958.6
32.5	550.6	556.2	566.2	582.8	604.8	635.3	683.5	753.5	838.3	932.5
35.0	529.8	540.4	550.6	562.8	579.1	606.4	652.0	718.9	800.5	915.7
37.5	536.2	537.7	544.7	555.5	570.6	592.4	626.6	680.0	780.9	906.2
40.0	530.0	535.7	542.3	550.3	562.2	581.9	613.3	663.1	761.9	895.8
42.5	540.6	539.3	545.4	550.9	564.6	580.6	599.7	655.5	751.3	878.6
45.0	544.1	544.0	549.5	557.3	569.7	587.2	605.9	645.9	730.0	870.3
47.5	591.0	583.1	589.0	586.4	586.9	592.8	621.9	645.0	715.4	860.6
50.0	697.9	672.7	668.3	658.6	640.1	638.1	641.1	661.6	719.4	849.1
52.5	846.2	834.5	835.7	815.2	784.7	754.1	705.8	717.7	735.4	856.3
55.0	829.9	810.2	816.4	838.4	864.7	806.7	872.4	789.5	801.9	862.1
57.5	868.6	834.2	815.4	837.6	839.3	877.1	860.1	854.7	913.2	922.9
60.0	839.2	784.6	770.0	770.6	817.2	844.7	902.8	985.3	1010	1051
62.5	722.6	723.3	704.4	682.2	781.8	738.7	752.4	841.7	939.4	1099
65.0	194.0	265.0	375.2	417.2	477.9	487.8	666.1	778.5	818.5	969.7
67.5	49.99	50.53	66.12	86.86	159.8	164.3	274.9	387.4	608.8	795.1
70.0	25.42	26.61	31.24	39.20	40.97	44.67	67.96	124.2	237.1	433.3
72.5	17.82	18.27	21.02	24.60	26.98	28.66	31.03	35.51	72.16	166.6
75.0	15.79	16.98	18.51	20.66	22.01	22.12	22.86	25.37	29.46	52.38
77.5	14.99	15.65	17.13	18.45	19.62	19.13	19.72	20.54	22.69	25.96
80.0	13.66	14.83	16.70	17.32	17.11	16.26	16.74	17.90	20.56	20.89
82.5	12.83	13.93	15.50	15.81	14.95	14.51	15.11	16.27	18.17	18.91
85.0	12.35	13.59	14.36	14.05	12.87	13.08	13.73	14.79	15.87	16.99
87.5	7.136	11.71	12.45	11.94	11.66	11.74	11.86	12.45	13.01	13.88
90.0	7.462	9.993	10.66	9.708	8.954	8.352	8.487	8.755	9.003	9.070
G/C	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0
0.0	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314
2.5	1296	1299	1301	1304	1307	1309	1311	1313	1315	1317
5.0	1278	1284	1289	1294	1299	1305	1310	1313	1317	1321
7.5	1255	1265	1275	1287	1296	1304	1311	1317	1322	1328
10.0	1235	1248	1261	1276	1291	1304	1315	1323	1329	1336
12.5	1214	1231	1248	1265	1284	1304	1319	1329	1335	1344
15.0	1184	1211	1234	1255	1277	1305	1328	1342	1349	1360
17.5	1144	1188	1227	1260	1293	1327	1359	1379	1387	1399
20.0	1124	1174	1233	1282	1321	1360	1399	1423	1434	1446
22.5	1110	1173	1236	1302	1350	1393	1438	1468	1480	1493
25.0	1098	1166	1241	1317	1380	1426	1480	1517	1531	1545
27.5	1081	1162	1240	1333	1418	1476	1536	1580	1597	1612
30.0	1054	1163	1259	1365	1468	1539	1599	1647	1669	1682
32.5	1040	1174	1292	1399	1513	1601	1662	1713	1740	1752
35.0	1044	1184	1324	1436	1558	1659	1725	1778	1807	1818
37.5	1048	1193	1351	1477	1602	1711	1782	1836	1865	1877
40.0	1048	1202	1370	1519	1641	1760	1837	1892	1919	1932
42.5	1046	1213	1381	1554	1684	1812	1891	1950	1972	1987
45.0	1039	1222	1401	1583	1731	1862	1945	2006	2023	2038
47.5	1029	1231	1423	1601	1774	1904	1994	2055	2063	2076
50.0	1021	1234	1430	1605	1798	1937	2041	2100	2100	2109
52.5	1012	1217	1416	1615	1819	1985	2103	2164	2157	2158
55.0	1006	1195	1409	1641	1853	2046	2182	2243	2230	2219
57.5	1015	1195	1417	1701	1957	2189	2333	2371	2354	2324
60.0	1091	1251	1556	1898	2173	2385	2518	2518	2494	2444
62.5	1243	1534	1829	2136	2377	2656	2871	2902	2834	2646
65.0	1378	1772	1836	2134	2534	2919	3139	3150	3017	2748
67.5	1116	1316	1629	2003	2439	2724	2892	2909	2730	2522
70.0	629.1	873.3	1229	1593	2069	2293	2429	2484	2287	2177
72.5	309.7	481.4	781.2	1087	1446	1488	1465	1445	1297	1277
75.0	108.8	246.0	431.6	569.6	644.5	616.3	568.8	561.7	478.6	505.0
77.5	42.65	76.93	161.7	232.8	241.2	225.5	208.7	215.4	178.7	194.0
80.0	25.04	30.69	67.24	85.35	76.96	68.79	61.56	54.93	51.62	48.06
82.5	21.15	23.20	26.81	30.25	35.12	46.23	47.75	49.11	47.36	47.17
85.0	18.84	20.15	21.71	25.33	28.61	41.23	40.59	43.11	40.88	44.64

C Range: 0 - 360DEG

C Interval: 5.0DEG

Test Speed: HIGH

Temperature:18.6DEG

Operators:Litvinenko A.S.

Test Date:2019-05-11

γ Range: 0 - 90DEG

γ Interval: 0.5DEG

Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.279

Humidity:51%

Test Distance:13.823m [K=1.0000]

Remarks: B-beta

O.M. Beketov National University of Urban Economy in Kharkiv

Photometric Data Table [cd]

87.5	14.86	15.36	15.90	18.12	20.05	27.67	27.46	29.31	27.73	30.56
90.0	9.319	9.539	9.787	9.933	10.72	11.45	12.24	12.87	12.36	12.61
G/C	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0
0.0	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314
2.5	1319	1320	1322	1324	1326	1328	1329	1331	1332	1333
5.0	1324	1328	1333	1337	1342	1346	1348	1349	1350	1350
7.5	1334	1340	1348	1354	1356	1357	1357	1355	1352	1349
10.0	1345	1355	1362	1365	1366	1361	1356	1352	1348	1345
12.5	1356	1368	1373	1372	1366	1360	1355	1352	1350	1349
15.0	1374	1383	1381	1373	1366	1361	1359	1357	1351	1342
17.5	1415	1417	1405	1388	1377	1370	1363	1353	1338	1321
20.0	1462	1460	1440	1421	1406	1390	1368	1342	1315	1295
22.5	1509	1499	1475	1455	1438	1414	1376	1330	1298	1268
25.0	1558	1537	1509	1487	1468	1430	1376	1328	1283	1240
27.5	1617	1588	1555	1528	1492	1434	1374	1323	1269	1217
30.0	1683	1648	1617	1583	1519	1440	1374	1313	1248	1185
32.5	1746	1710	1683	1631	1547	1471	1384	1296	1222	1145
35.0	1808	1774	1747	1669	1583	1503	1399	1290	1187	1087
37.5	1862	1833	1798	1703	1630	1530	1409	1284	1144	1030
40.0	1912	1886	1831	1742	1666	1548	1416	1259	1106	963.2
42.5	1961	1939	1864	1786	1686	1557	1403	1228	1056	906.1
45.0	2008	1989	1901	1824	1703	1549	1369	1177	994.0	867.3
47.5	2043	2015	1935	1846	1718	1529	1318	1111	941.7	835.1
50.0	2071	2020	1946	1840	1703	1502	1253	1035	895.8	814.0
52.5	2112	2037	1948	1824	1644	1427	1178	980.2	859.4	796.3
55.0	2158	2063	1942	1791	1570	1318	1088	926.1	835.0	781.5
57.5	2235	2116	1951	1752	1467	1201	1010	880.6	807.5	773.1
60.0	2328	2180	1985	1723	1385	1113	935.3	845.2	788.2	772.7
62.5	2417	2190	1976	1695	1343	1102	912.8	842.8	795.6	786.9
65.0	2425	2161	1908	1543	1247	1101	962.3	875.6	854.8	848.3
67.5	2094	1901	1630	1318	1086	913.3	869.4	906.3	878.9	944.4
70.0	1622	1483	1121	890.9	773.3	685.7	662.2	706.9	791.4	761.5
72.5	899.7	857.0	646.3	482.8	418.4	405.9	436.6	461.0	494.3	504.9
75.0	260.4	257.0	218.0	198.0	201.3	196.5	220.1	218.3	253.9	255.8
77.5	61.08	54.84	52.81	44.41	45.60	56.86	76.32	92.12	69.76	73.13
80.0	37.20	33.79	32.12	28.67	23.95	22.02	22.13	24.55	28.84	22.58
82.5	33.51	28.54	25.42	21.44	18.77	17.25	17.47	19.45	16.18	16.24
85.0	29.79	25.05	22.56	18.71	16.98	16.58	18.18	16.13	13.45	13.23
87.5	21.75	18.79	17.18	14.74	13.76	13.62	15.36	12.68	11.56	11.42
90.0	12.21	11.54	10.83	10.26	9.851	9.307	9.280	8.561	8.103	7.931
G/C	150.0	155.0	160.0	165.0	170.0	175.0	180.0	185.0	190.0	195.0
0.0	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314
2.5	1334	1335	1336	1336	1336	1336	1336	1336	1336	1336
5.0	1350	1349	1348	1348	1347	1346	1345	1345	1346	1346
7.5	1347	1346	1344	1343	1343	1342	1341	1342	1343	1344
10.0	1343	1341	1342	1342	1342	1342	1342	1340	1339	1338
12.5	1345	1340	1335	1331	1327	1325	1324	1323	1323	1324
15.0	1331	1319	1308	1301	1297	1295	1294	1293	1294	1298
17.5	1305	1290	1278	1269	1261	1255	1252	1250	1252	1256
20.0	1278	1259	1240	1224	1214	1209	1207	1206	1208	1212
22.5	1243	1219	1201	1183	1170	1162	1159	1161	1167	1175
25.0	1208	1181	1153	1127	1109	1100	1098	1096	1101	1114
27.5	1168	1129	1094	1064	1042	1030	1026	1028	1036	1049
30.0	1122	1064	1024	992.5	967.9	952.6	947.3	951.1	964.4	985.7
32.5	1063	1001	958.7	916.0	880.6	864.5	864.6	860.0	871.6	898.6
35.0	1009	935.2	869.4	826.4	798.2	781.9	778.4	776.2	787.9	816.5
37.5	933.3	852.6	800.5	769.1	743.2	728.2	725.1	724.0	728.2	742.2
40.0	861.1	803.0	760.6	731.4	714.9	702.1	694.6	685.9	689.9	700.6
42.5	819.1	766.4	738.4	724.8	710.7	702.5	697.2	687.9	688.0	690.6
45.0	788.7	749.7	732.4	721.5	711.7	702.6	701.5	700.6	700.2	700.3
47.5	774.0	745.6	735.7	724.4	717.5	712.9	709.9	711.0	708.0	705.2
50.0	769.1	750.5	735.9	732.0	730.9	724.6	723.9	725.7	734.6	727.9
52.5	769.5	750.0	739.0	735.9	733.0	733.6	728.3	733.8	729.0	738.0
55.0	764.8	753.1	745.3	743.6	742.4	741.2	740.5	746.3	752.0	746.2
57.5	766.7	760.8	768.9	778.5	775.0	781.6	769.7	775.3	763.6	764.2
60.0	781.2	797.3	840.2	897.1	939.6	988.6	999.9	974.3	912.2	847.1
62.5	827.8	900.7	976.0	1062	1172	1250	1251	1275	1168	1038
65.0	920.8	957.9	1050	1069	1067	1066	1127	1092	1123	1133
67.5	939.6	898.9	871.0	876.7	868.3	890.6	880.6	881.9	927.1	973.0
70.0	730.1	764.8	652.6	653.7	675.5	654.0	718.5	731.5	743.9	841.7
72.5	521.9	493.7	502.3	420.9	468.1	456.0	430.9	483.3	546.7	624.4
75.0	255.6	236.8	177.1	191.9	113.5	81.16	47.18	176.3	157.9	273.6
77.5	47.65	31.86	32.91	35.29	33.92	38.24	40.46	42.67	40.37	44.42

C Range: 0 - 360DEG

C Interval: 5.0DEG

Test Speed: HIGH

Temperature:18.6DEG

Operators:Litvinenko A.S.

Test Date:2019-05-11

γ Range: 0 - 90DEG

γ Interval: 0.5DEG

Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.279

Humidity:51%

Test Distance:13.823m [K=1.0000]

Remarks: B-beta

Photometric Data Table [cd]

80.0	22.87	22.63	22.84	19.70	18.83	18.56	18.27	19.96	22.04	21.84
82.5	15.32	15.97	14.39	13.69	13.64	14.33	14.05	14.14	14.41	16.16
85.0	13.45	12.84	11.29	11.40	12.08	12.81	12.44	12.15	12.22	12.25
87.5	11.51	12.09	10.35	10.10	10.37	10.11	5.960	10.78	11.39	11.32
90.0	7.816	7.548	8.008	8.257	8.496	7.997	6.506	8.175	8.897	8.878
G/C	200.0	205.0	210.0	215.0	220.0	225.0	230.0	235.0	240.0	245.0
0.0	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314
2.5	1336	1335	1334	1334	1333	1331	1330	1329	1327	1326
5.0	1347	1347	1348	1348	1347	1346	1344	1342	1339	1337
7.5	1345	1346	1347	1348	1348	1350	1351	1351	1349	1346
10.0	1338	1339	1341	1343	1346	1348	1349	1350	1352	1353
12.5	1326	1329	1332	1334	1337	1340	1343	1347	1349	1352
15.0	1304	1307	1312	1319	1326	1333	1338	1341	1345	1349
17.5	1264	1275	1285	1297	1307	1318	1329	1340	1348	1356
20.0	1221	1235	1252	1270	1283	1300	1321	1344	1365	1379
22.5	1183	1194	1210	1233	1263	1292	1323	1353	1380	1402
25.0	1135	1156	1172	1196	1237	1282	1326	1362	1391	1420
27.5	1069	1096	1133	1175	1221	1268	1316	1367	1408	1445
30.0	1012	1039	1080	1139	1203	1263	1308	1375	1444	1493
32.5	933.4	980.1	1043	1106	1166	1246	1331	1403	1492	1551
35.0	856.2	906.4	982.1	1072	1149	1234	1359	1449	1534	1609
37.5	777.7	840.7	910.7	1007	1135	1253	1373	1495	1578	1667
40.0	720.1	776.0	848.6	947.6	1106	1268	1393	1529	1633	1727
42.5	697.5	728.5	799.9	909.9	1071	1254	1416	1554	1685	1790
45.0	703.8	714.8	758.8	876.5	1032	1226	1422	1586	1722	1859
47.5	706.8	716.8	748.2	842.7	988.1	1187	1414	1606	1756	1924
50.0	726.4	717.0	742.6	806.8	948.0	1134	1393	1612	1792	1955
52.5	732.5	738.0	741.5	788.3	902.0	1090	1342	1603	1810	1974
55.0	744.0	738.1	744.5	769.3	866.0	1041	1267	1562	1785	1964
57.5	758.3	743.5	739.4	758.7	841.3	974.8	1195	1443	1723	1969
60.0	796.3	767.1	739.5	747.9	799.2	919.7	1098	1334	1683	2027
62.5	925.8	864.2	762.5	758.6	792.9	904.7	1053	1292	1677	2085
65.0	1115	1026	901.1	816.4	850.3	900.8	1053	1245	1505	1900
67.5	990.7	958.1	1096	955.0	853.6	883.6	902.4	978.9	1230	1590
70.0	863.4	877.2	838.8	838.1	816.6	694.1	647.4	695.6	834.5	1032
72.5	620.9	659.7	601.7	541.8	525.6	485.4	416.1	393.3	416.3	531.7
75.0	359.0	326.8	341.6	292.7	273.2	219.9	193.5	183.1	201.7	221.0
77.5	58.72	107.1	113.4	87.79	66.84	88.55	67.17	55.54	49.16	50.92
80.0	25.98	25.39	25.27	23.99	35.23	21.97	21.89	24.20	27.59	32.45
82.5	17.05	16.67	17.16	17.86	24.71	18.86	18.54	19.98	22.88	25.56
85.0	14.99	15.55	15.04	15.31	20.50	18.87	19.87	20.19	22.25	24.94
87.5	12.82	13.28	14.33	14.21	16.28	17.82	19.02	18.71	20.52	23.24
90.0	9.528	10.36	11.38	12.57	14.22	14.52	15.80	16.09	18.21	21.10
G/C	250.0	255.0	260.0	265.0	270.0	275.0	280.0	285.0	290.0	295.0
0.0	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314
2.5	1324	1323	1322	1320	1319	1317	1314	1311	1309	1306
5.0	1334	1331	1328	1325	1323	1318	1313	1306	1300	1293
7.5	1341	1337	1331	1327	1322	1315	1306	1297	1287	1277
10.0	1349	1343	1336	1328	1320	1310	1299	1286	1273	1258
12.5	1355	1350	1340	1329	1318	1306	1292	1276	1258	1240
15.0	1354	1359	1350	1337	1322	1307	1289	1267	1245	1222
17.5	1367	1376	1375	1360	1342	1324	1303	1274	1242	1209
20.0	1390	1399	1403	1389	1368	1347	1321	1287	1248	1202
22.5	1414	1423	1430	1419	1394	1371	1339	1297	1250	1190
25.0	1441	1450	1460	1454	1426	1400	1361	1308	1249	1173
27.5	1482	1500	1511	1507	1480	1449	1403	1338	1258	1165
30.0	1538	1564	1574	1569	1541	1506	1454	1379	1282	1184
32.5	1593	1628	1639	1630	1601	1563	1505	1417	1310	1207
35.0	1651	1690	1707	1696	1667	1624	1558	1453	1341	1225
37.5	1720	1765	1786	1776	1749	1699	1624	1505	1381	1243
40.0	1796	1845	1871	1859	1837	1778	1696	1568	1431	1282
42.5	1867	1926	1957	1942	1924	1857	1769	1632	1481	1322
45.0	1933	2007	2043	2025	2011	1937	1842	1696	1531	1356
47.5	1997	2082	2120	2108	2095	2022	1921	1761	1585	1384
50.0	2060	2150	2193	2190	2178	2108	2003	1823	1642	1415
52.5	2109	2194	2241	2246	2231	2168	2068	1880	1683	1450
55.0	2122	2224	2294	2313	2301	2240	2137	1940	1713	1468
57.5	2165	2300	2391	2416	2420	2358	2244	2054	1796	1497
60.0	2262	2410	2504	2531	2556	2496	2367	2199	1948	1591
62.5	2304	2520	2680	2825	2962	2925	2740	2446	2080	1691
65.0	2262	2590	2773	2964	3166	3161	3012	2702	2176	1674
67.5	1960	2263	2474	2588	2761	2719	2618	2437	1986	1558
70.0	1338	1726	2008	2030	2154	2033	1938	1883	1516	1219

C Range: 0 - 360DEG

C Interval: 5.0DEG

Test Speed: HIGH

Temperature:18.6DEG

Operators:Litvinenko A.S.

Test Date:2019-05-11

γ Range: 0 - 90DEG

γ Interval: 0.5DEG

Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.279

Humidity:51%

Test Distance:13.823m [K=1.0000]

Remarks: B-beta

Photometric Data Table [cd]

72.5	753.5	1015	1159	1190	1202	1206	1159	1190	1022	822.8
75.0	255.2	307.8	387.6	477.8	422.0	504.7	474.1	530.9	496.7	400.5
77.5	62.27	63.93	122.2	198.7	161.2	219.1	201.5	228.4	226.3	138.4
80.0	38.26	42.51	62.21	70.18	73.18	79.27	91.34	86.85	94.11	63.61
82.5	31.06	36.58	56.58	63.60	66.92	70.52	76.83	56.90	52.14	34.47
85.0	29.12	33.44	53.87	59.72	61.39	65.91	70.71	45.56	39.38	28.37
87.5	26.93	31.59	50.84	58.37	58.05	67.67	71.13	39.10	32.03	25.42
90.0	24.64	30.24	47.92	57.86	55.45	71.56	73.85	34.49	26.88	23.86
G/C	300.0	305.0	310.0	315.0	320.0	325.0	330.0	335.0	340.0	345.0
0.0	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314
2.5	1303	1300	1297	1294	1292	1289	1287	1286	1284	1283
5.0	1287	1281	1275	1269	1263	1258	1253	1249	1246	1243
7.5	1267	1257	1245	1237	1231	1225	1220	1215	1211	1207
10.0	1243	1232	1221	1210	1198	1186	1176	1167	1157	1148
12.5	1223	1207	1187	1168	1149	1131	1115	1101	1090	1079
15.0	1198	1170	1142	1114	1091	1072	1056	1040	1025	1013
17.5	1170	1129	1091	1064	1041	1017	992.6	969.6	952.0	938.7
20.0	1148	1095	1056	1024	987.8	952.7	925.5	905.2	887.9	873.0
22.5	1124	1074	1029	976.3	929.5	899.1	871.8	844.0	817.6	795.3
25.0	1106	1053	991.2	936.7	892.3	847.4	801.7	765.7	737.2	715.7
27.5	1092	1022	958.6	905.1	840.5	780.1	735.1	700.3	672.0	649.9
30.0	1092	1003	932.0	853.5	781.8	726.1	680.3	643.2	617.2	599.9
32.5	1100	1005	898.2	801.1	732.9	680.3	636.4	603.4	581.8	569.7
35.0	1111	997.6	874.5	768.1	694.5	644.9	604.3	573.3	558.2	551.1
37.5	1120	980.2	854.1	745.8	669.8	615.3	580.0	565.2	555.1	548.6
40.0	1126	969.9	829.9	725.1	648.5	596.4	580.0	566.1	549.3	542.5
42.5	1142	968.2	811.8	702.3	632.4	603.7	579.9	563.0	554.8	552.7
45.0	1158	965.0	802.7	684.8	637.1	610.0	583.7	575.8	569.9	559.3
47.5	1172	963.5	795.0	688.7	645.4	617.1	605.9	591.1	593.1	593.2
50.0	1178	958.4	791.1	698.1	659.0	636.5	641.3	651.3	658.0	684.7
52.5	1186	961.0	792.7	708.0	699.1	708.8	734.5	758.2	824.8	834.8
55.0	1200	970.0	803.1	741.7	787.3	783.3	878.4	858.7	863.3	870.6
57.5	1210	982.7	835.6	861.8	911.8	856.3	848.4	899.0	894.5	856.1
60.0	1268	1037	963.4	979.3	971.5	973.1	890.2	882.3	839.8	784.3
62.5	1413	1181	1001	934.6	871.1	840.1	873.9	742.0	798.0	692.3
65.0	1424	1273	1055	806.6	872.9	715.1	650.7	464.3	515.3	396.4
67.5	1300	1056	890.1	702.3	532.5	321.8	193.9	126.4	137.5	72.59
70.0	997.5	732.6	498.6	337.4	160.1	96.84	54.31	45.03	39.08	33.70
72.5	580.1	369.6	220.0	81.47	52.73	34.18	30.64	28.49	27.15	21.96
75.0	266.7	157.6	38.44	34.17	28.97	25.18	23.36	22.66	22.15	19.49
77.5	63.56	54.07	29.46	26.24	24.27	22.53	20.61	18.10	19.17	18.24
80.0	34.45	28.71	24.70	23.80	22.09	20.73	17.52	15.16	15.88	16.24
82.5	26.30	23.75	22.55	23.00	20.59	19.18	14.42	13.30	15.16	14.34
85.0	23.30	22.39	22.44	23.90	19.72	16.48	12.99	12.44	12.31	11.10
87.5	20.94	20.16	20.04	21.81	18.50	13.64	12.04	11.56	11.34	11.10
90.0	18.81	17.44	15.57	15.93	15.65	11.78	11.17	10.72	10.66	10.55
G/C	350.0	355.0								
0.0	1314	1314								
2.5	1282	1281								
5.0	1241	1240								
7.5	1204	1202								
10.0	1142	1138								
12.5	1072	1067								
15.0	1004	998.3								
17.5	929.8	924.8								
20.0	860.5	850.9								
22.5	777.5	764.6								
25.0	699.2	687.9								
27.5	633.9	625.4								
30.0	588.6	581.4								
32.5	561.2	555.1								
35.0	545.2	538.5								
37.5	542.5	538.8								
40.0	540.5	537.5								
42.5	551.1	545.3								
45.0	556.9	552.4								
47.5	598.0	590.8								
50.0	699.0	697.7								
52.5	851.3	840.3								
55.0	851.5	834.2								
57.5	841.3	844.9								
60.0	806.1	801.3								
62.5	741.9	745.0								

C Range: 0 - 360DEG

C Interval: 5.0DEG

Test Speed: HIGH

Temperature:18.6DEG

Operators:Litvinenko A.S.

Test Date:2019-05-11

γ Range: 0 - 90DEG

γ Interval: 0.5DEG

Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.279

Humidity:51%

Test Distance:13.823m [K=1.0000]

Remarks: B-beta

Photometric Data Table [cd]

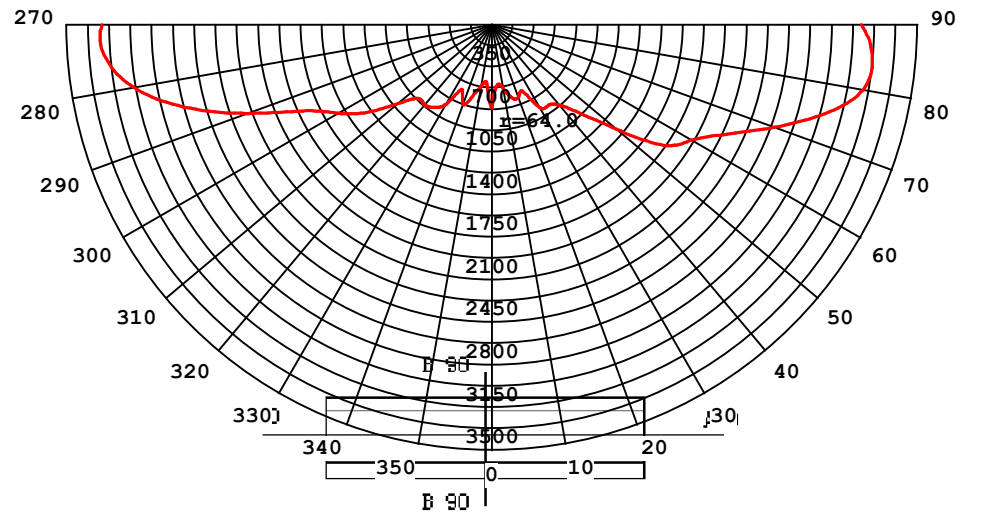
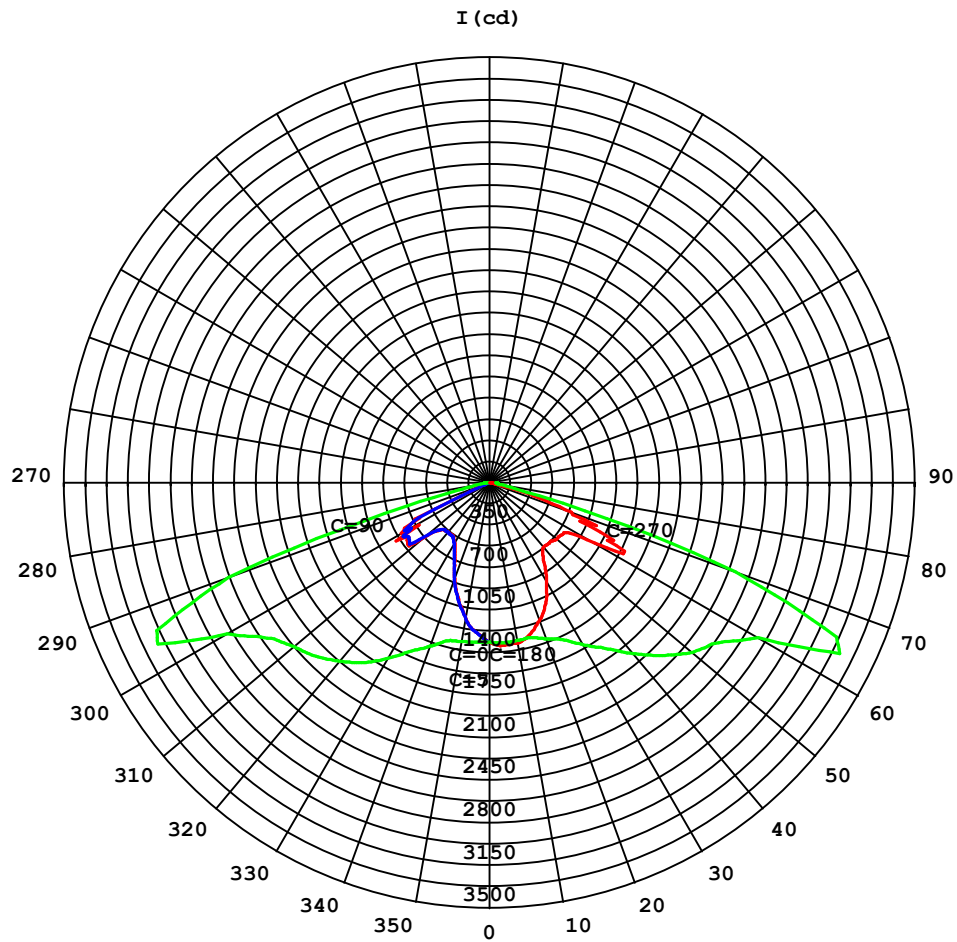
65.0	351.1	249.9
67.5	61.08	49.17
70.0	28.30	26.16
72.5	18.55	17.67
75.0	16.16	15.83
77.5	15.27	15.07
80.0	14.03	13.89
82.5	13.37	12.94
85.0	13.20	12.51
87.5	11.85	10.57
90.0	10.76	9.506

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:18.6DEG
Operators:Litvinenko A.S.
Test Date:2019-05-11

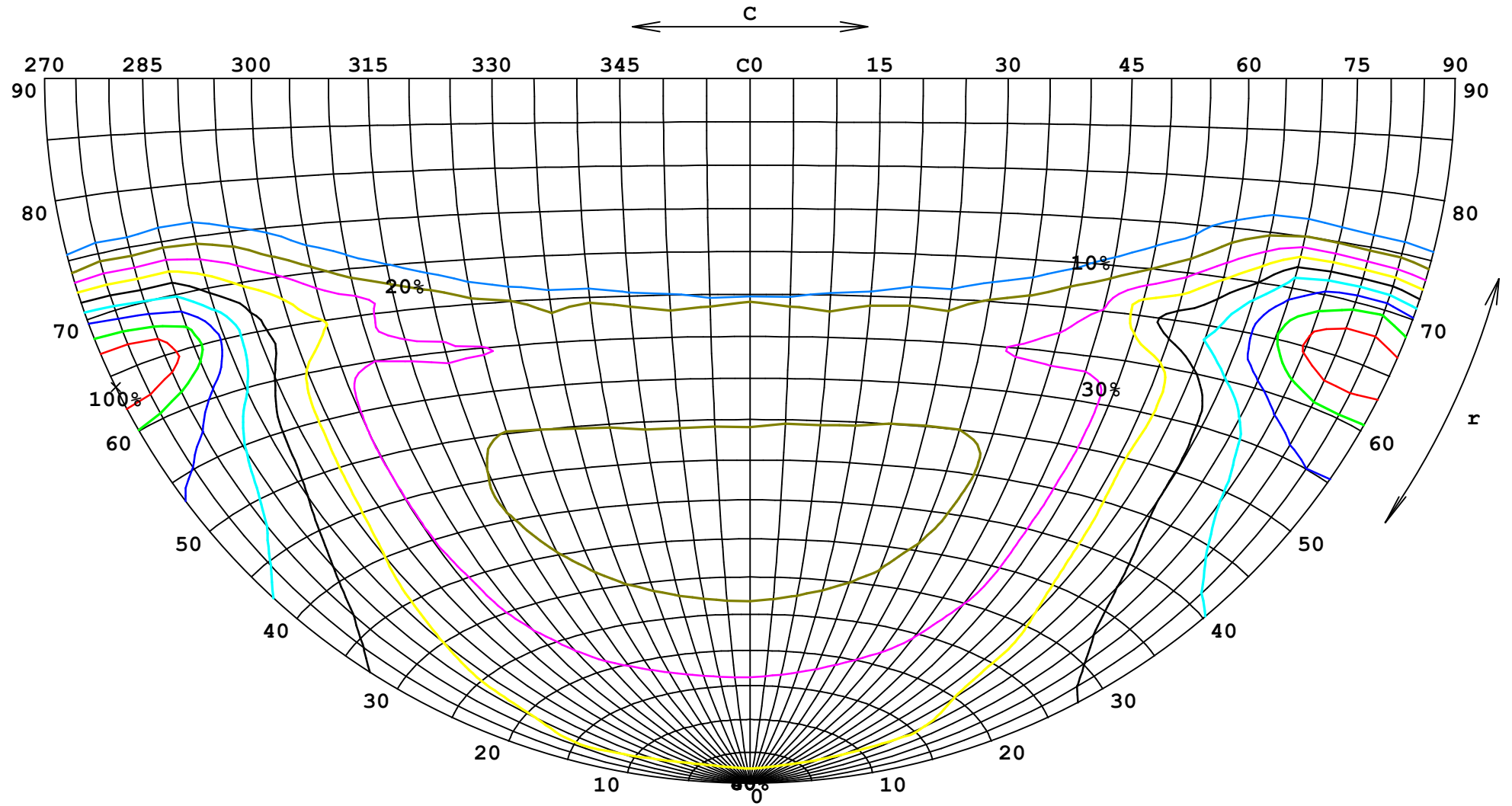
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.279
Humidity:51%
Test Distance:13.823m [K=1.0000]
Remarks: B-beta

FLUX DATA:

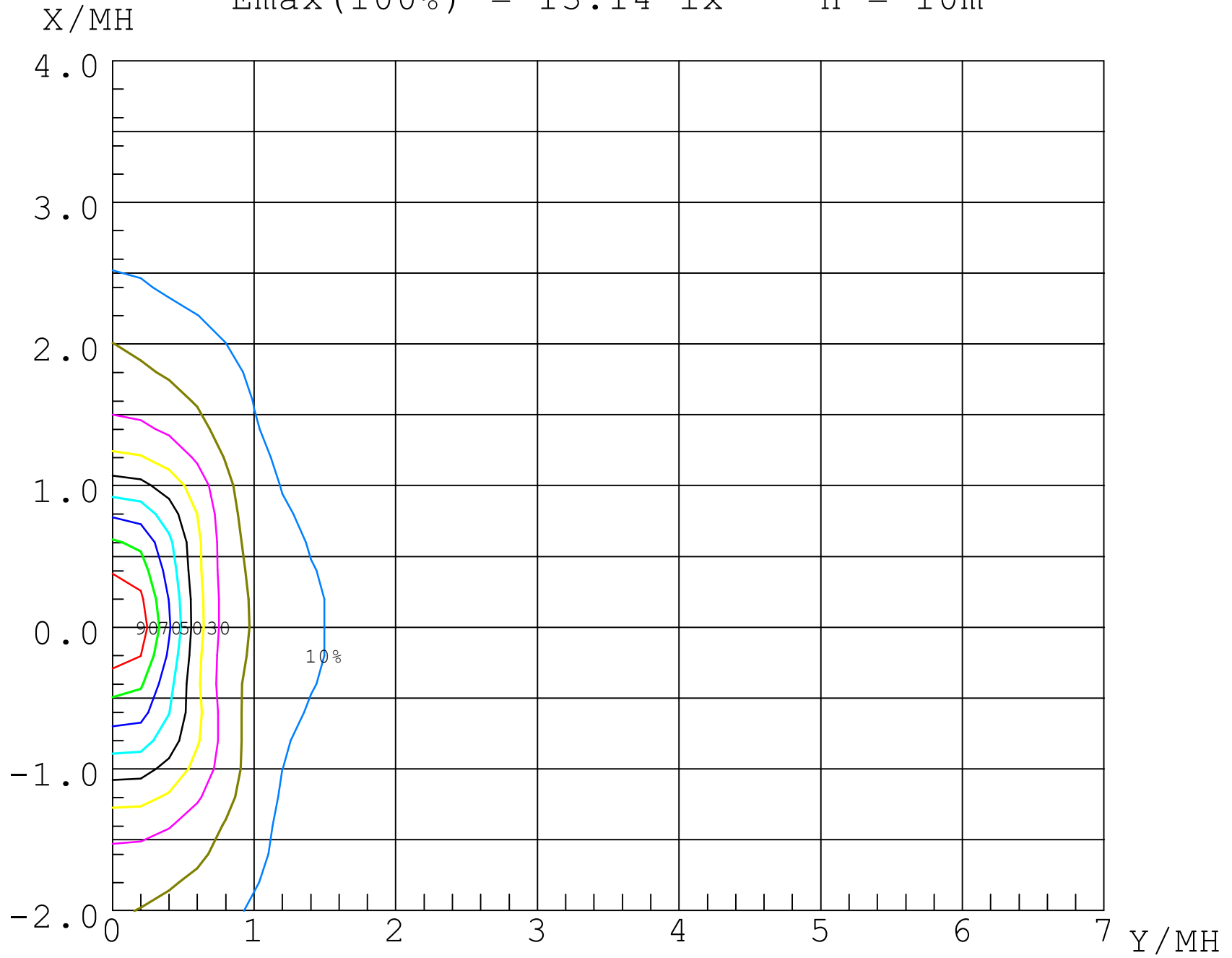
LOR:	100.0 %
STREET DOWN:	2733 lm
STREET UP:	0 lm
HOUSE DOWN:	2690 lm
HOUSE UP:	0 lm



$I_{\max}(100\%) = 3206 \text{ cd}$



$E_{max}(100\%) = 13.14 \text{ lx}$ $H = 10\text{m}$



UF (%)

80

70

60

50

40

30

20

10

0

-2

-1

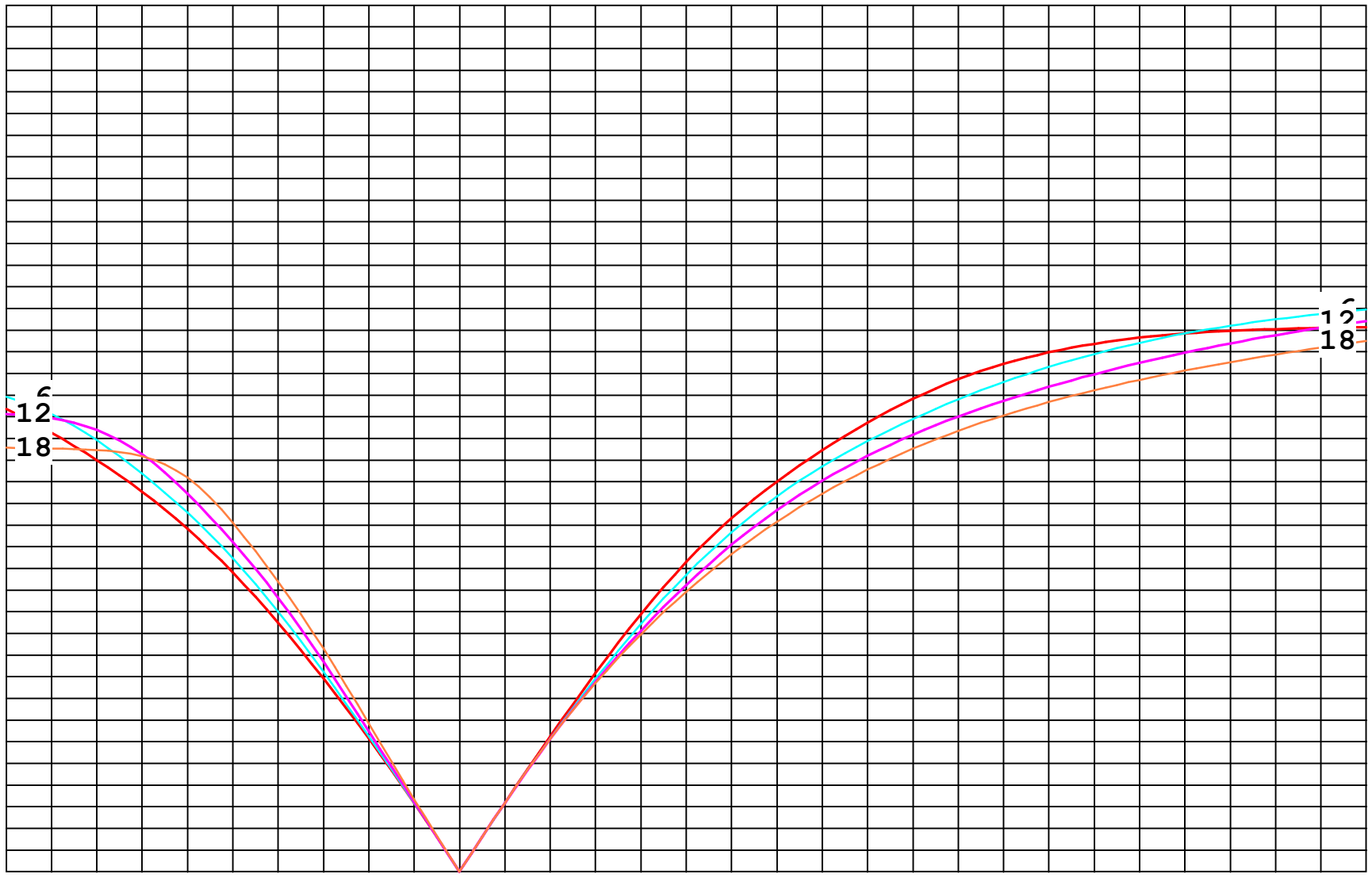
0

1

2

3

4 X/MH



6

12

18

6

12

18