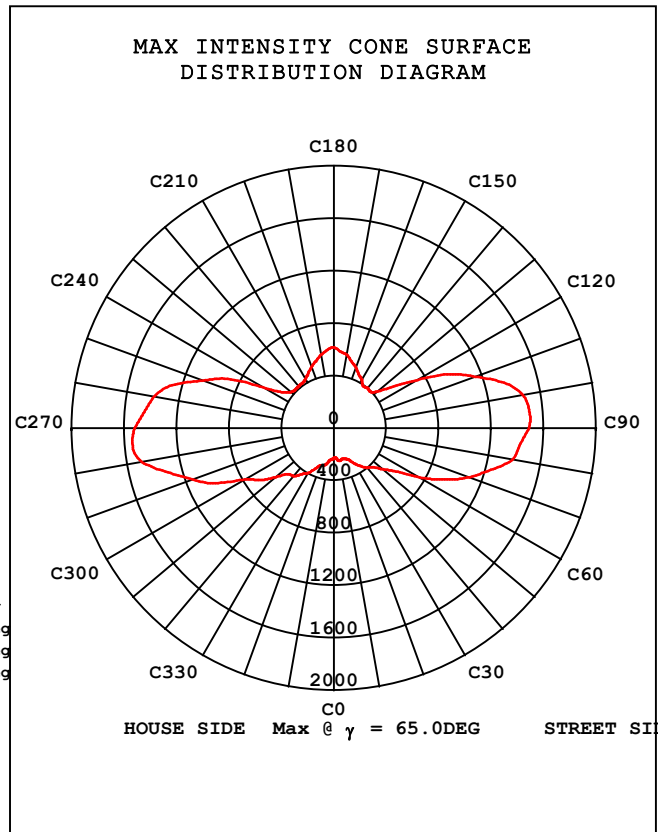
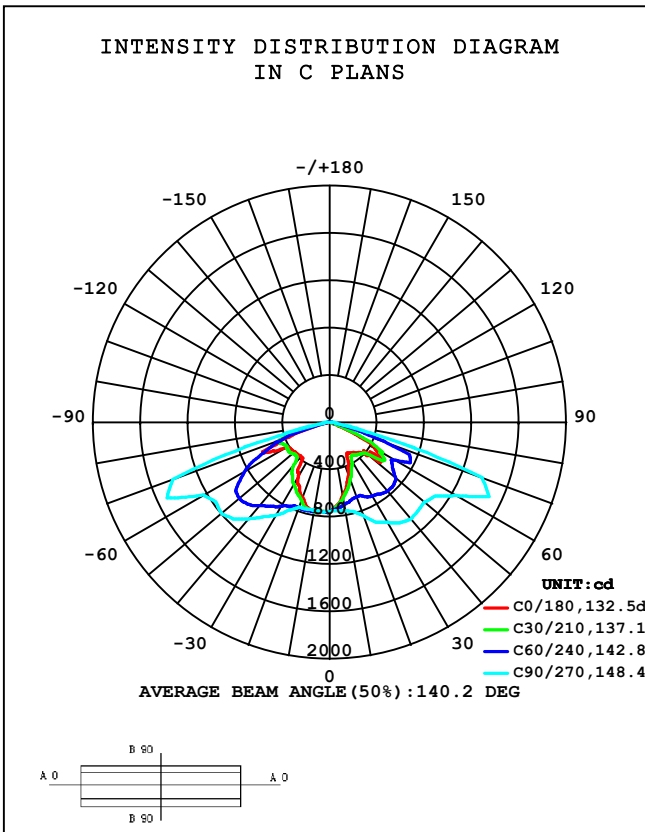


**STREETLIGHT PHOTOMETRIC TEST REPORT**

Test:U:220.0V I:0.1350A P:28.00W PF:0.9526 Lamp Flux:3082.37x1 lm		
NAME: LED DKU EFA M	TYPE:STREET	WEIGHT:
SPEC.:COBRA	DIM.:	SERIAL No.:
MFR.: TD OPTIMA	SUR.:	PROTECTION ANGLE:

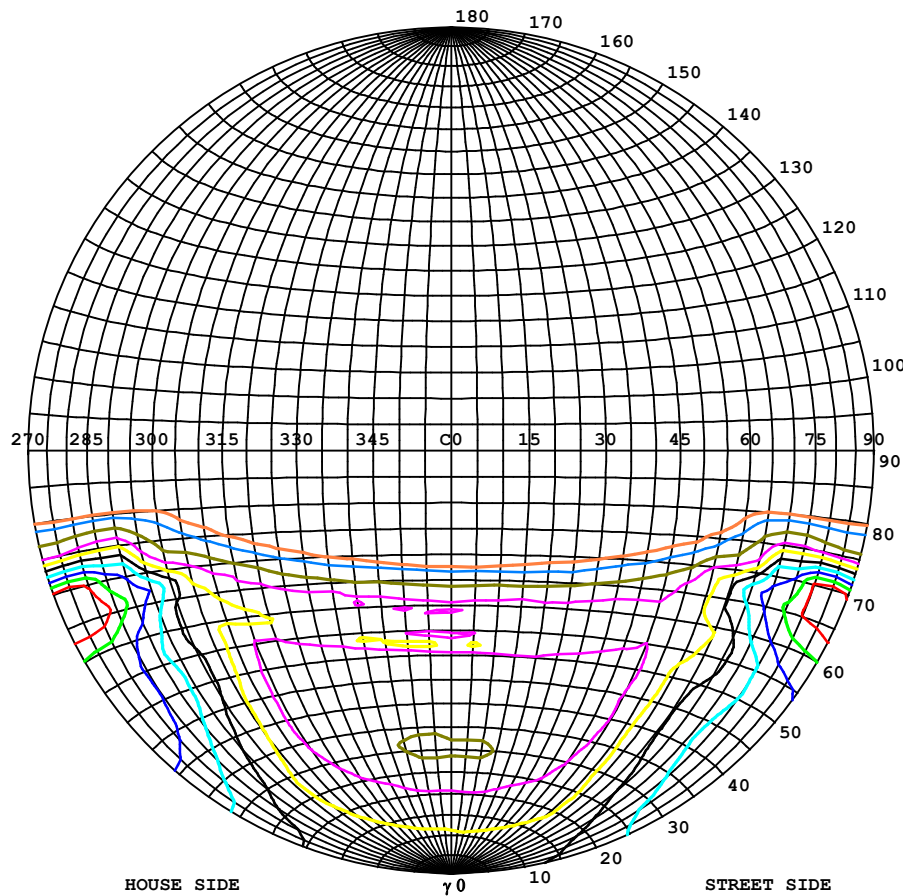
DATA OF LAMP		PHOTOMETRIC DATA Eff: 110.08 lm/W			
MODEL	30-002 U1 5000K	Imax (cd)	1542	$\eta$ street_up (%)	0.0
NOMINAL POWER (W)	30	LOR (%)	100.0	$\eta$ street_down (%)	49.7
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	3082	$\eta$ house_up (%)	0.0
NOMINAL FLUX (lm)	3082.37	MAXIMUM @ (C, $\gamma$ )	275,65.0	$\eta$ house_down (%)	50.3
LAMPS INSIDE	1	$\eta$ up (%)	0.0	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)	220.0	$\eta$ down (%)	100.0	SLI	14.182



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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:

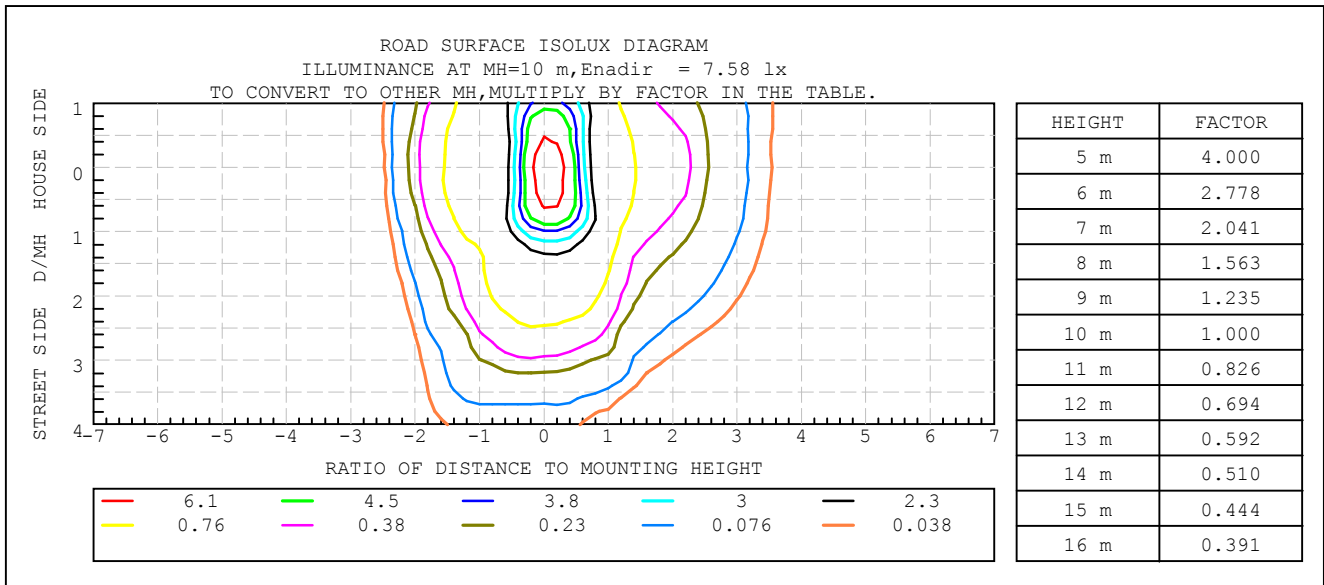
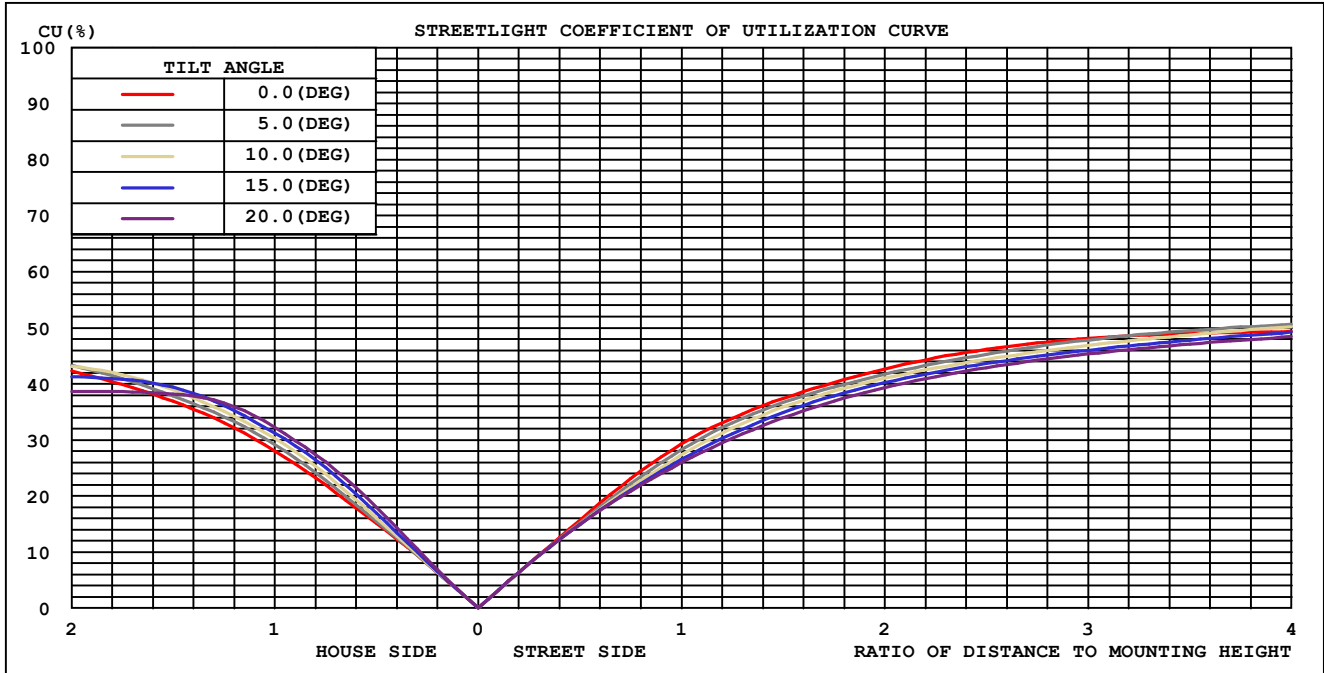
IES:Type IV - Very Short  
 CIE:Broad - Intermediate  
 IES:Cut-off  
 CIE:Semi-cut-off  
 Max.At80:31.43cd/klm  
 Max.At90:8.691cd/klm  
 Max.80-90:31.43cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1542
90%	1388
80%	1234
70%	1080
60%	925
50%	771
40%	617
30%	463
20%	308
10%	154
5%	77

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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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

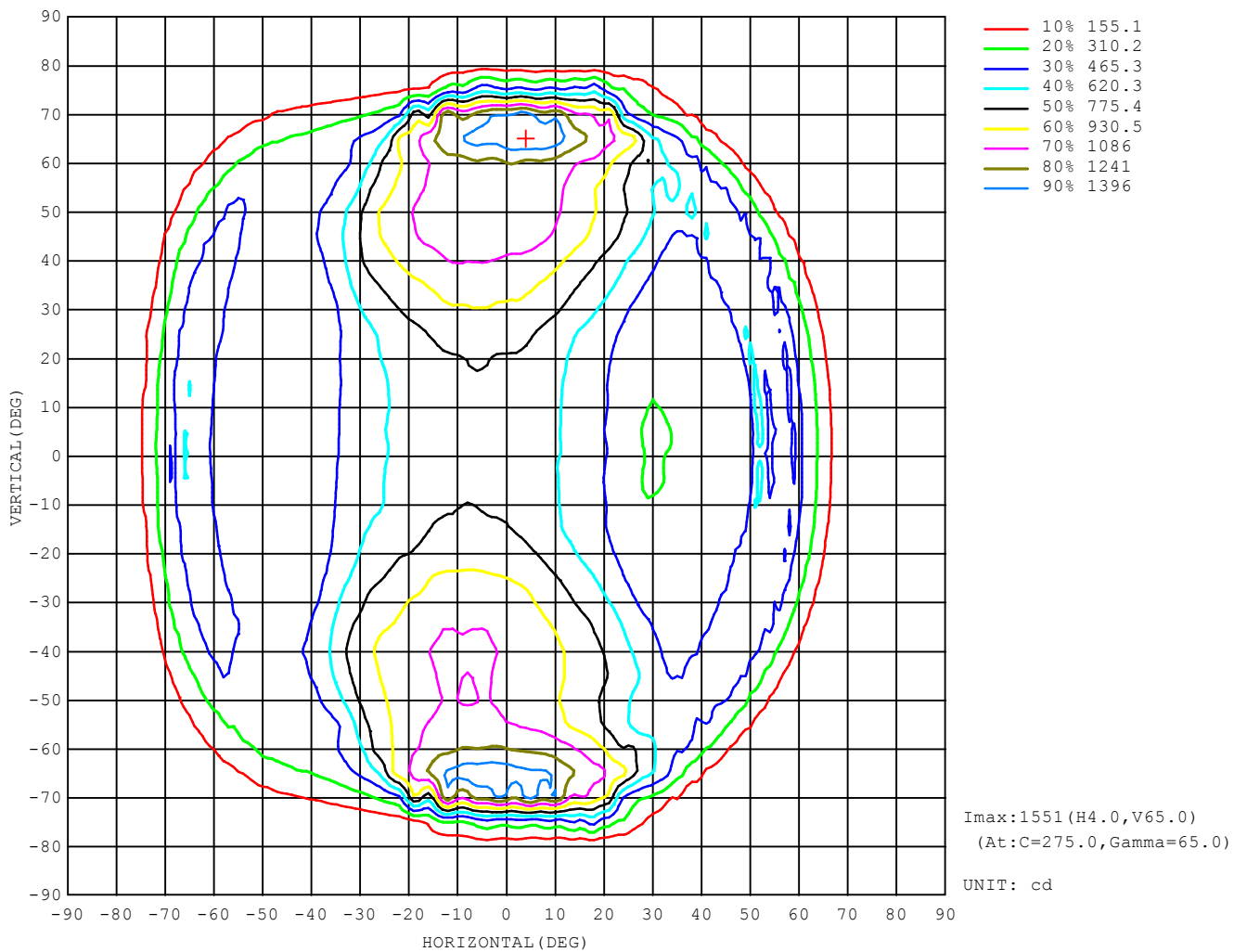
ZONAL FLUX DIAGRAM

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
5	710.5	722.2	752.7	756.3	763.0	761.1	761.4	728.7	0- 5	17.89	17.89	0.58,0.58
10	634.2	682.1	759.0	770.5	765.5	770.7	754.2	689.9	5- 10	52.68	70.58	2.29,2.29
15	561.5	625.8	780.6	770.6	745.1	757.4	760.5	631.4	10- 15	84.88	155.55	5.04,5.04
20	476.3	579.3	840.2	784.1	676.7	747.5	764.9	588.4	15- 20	114.1	269.58	8.74,8.74
25	386.1	546.1	931.3	786.5	607.4	710.6	822.5	534.5	20- 25	141.2	410.71	13.3,13.3
30	301.1	521.1	978.0	811.0	539.8	695.3	908.3	488.7	25- 30	167.6	578.31	18.8,18.8
35	320.2	492.3	1039	815.4	441.4	682.2	974.9	454.9	30- 35	194.2	772.52	25.1,25.1
40	340.3	466.3	1070	835.3	383.2	691.8	1066	433.2	35- 40	221.2	993.73	32.2,32.2
45	362.7	464.1	1058	812.4	389.5	684.4	1155	432.8	40- 45	249.5	1243	40.3,40.3
50	375.2	440.4	1050	780.9	392.2	631.6	1199	431.5	45- 50	276.4	1520	49.3,49.3
55	501.2	462.7	1089	624.4	401.0	543.3	1175	454.3	50- 55	304.0	1824	59.2,59.2
60	510.4	514.8	1238	464.9	434.3	465.3	1230	659.1	55- 60	321.9	2146	69.6,69.6
65	234.3	422.2	1489	395.9	618.6	420.1	1518	498.4	60- 65	343.0	2489	80.7,80.7
70	28.06	196.6	1371	343.2	365.3	373.5	1414	295.4	65- 70	322.6	2811	91.2,91.2
75	14.29	31.34	353.7	168.9	133.0	211.3	451.1	63.23	70- 75	193.9	3005	97.5,97.5
80	11.26	14.34	62.58	20.24	17.28	47.29	70.75	18.86	75- 80	57.25	3062	99.3,99.3
85	9.288	12.94	33.96	14.66	10.61	15.98	39.63	16.78	80- 85	12.42	3075	99.7,99.7
90	5.185	7.577	11.64	8.342	5.516	9.548	18.57	10.63	85- 90	7.761	3082	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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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

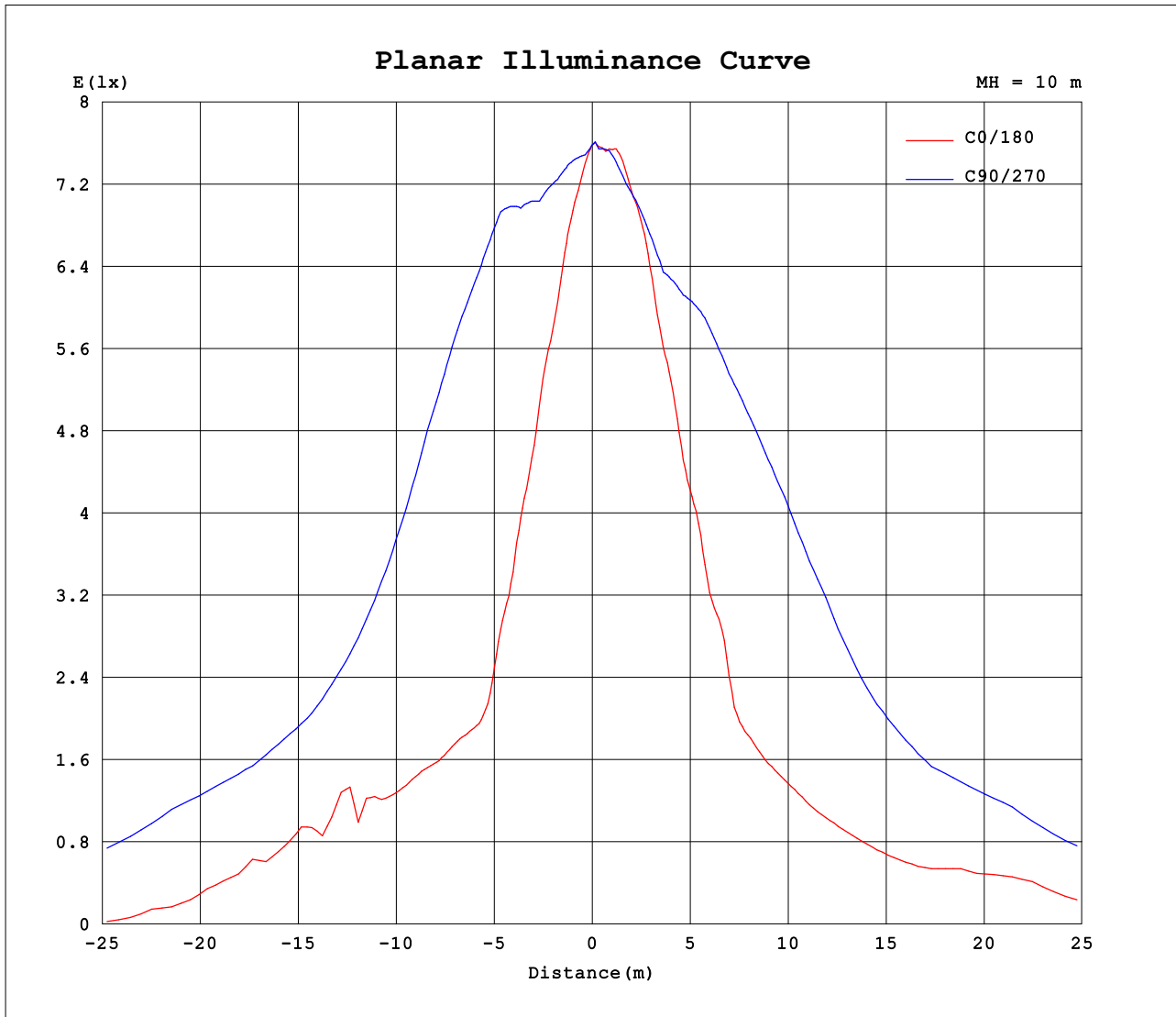
ISOCANDELA DIAGRAM



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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8
2.5	736.7	736.2	736.0	735.9	736.0	736.2	736.5	736.9	737.4	738.0
5.0	710.5	709.6	709.1	708.9	709.1	709.9	712.0	714.5	718.0	722.2
7.5	679.8	677.2	675.4	674.6	677.8	681.7	686.1	691.3	696.7	702.5
10.0	634.2	631.2	629.7	633.6	640.0	646.8	655.1	664.0	672.6	682.1
12.5	600.9	596.9	594.9	597.6	602.3	609.3	618.3	628.8	639.6	651.8
15.0	561.5	556.5	557.2	562.5	568.7	578.0	589.2	601.3	612.8	625.8
17.5	511.8	506.2	507.9	514.8	526.1	539.4	555.2	571.5	588.1	604.3
20.0	476.3	470.4	470.5	476.1	488.9	500.3	515.7	534.4	556.3	579.3
22.5	420.5	415.4	419.4	430.7	449.2	468.9	486.0	503.6	526.2	559.1
25.0	386.1	383.0	381.4	393.9	409.9	425.7	445.2	468.1	508.7	546.1
27.5	322.5	321.2	321.8	341.8	366.0	391.5	412.2	441.5	485.1	537.4
30.0	301.1	300.8	301.9	310.2	319.8	340.2	376.9	420.8	460.1	521.1
32.5	310.2	311.2	310.8	317.9	319.5	322.2	342.8	383.0	442.1	503.0
35.0	320.2	323.1	323.9	326.6	329.6	331.2	340.0	360.9	412.4	492.3
37.5	325.0	328.9	329.9	333.3	336.1	342.9	349.8	361.4	397.7	479.3
40.0	340.3	347.4	344.5	345.2	344.4	350.2	359.9	372.4	393.7	466.3
42.5	352.2	359.0	357.2	357.5	362.1	361.7	370.1	379.9	399.8	466.0
45.0	362.7	370.4	366.5	367.9	370.6	373.7	378.1	391.0	403.4	464.1
47.5	399.7	399.1	392.1	390.2	392.8	390.1	389.4	399.7	408.8	453.6
50.0	375.2	422.9	428.1	455.9	456.7	428.3	415.6	406.3	418.3	440.4
52.5	516.9	624.8	573.5	604.4	549.6	537.5	511.6	468.3	434.7	444.5
55.0	501.2	481.0	498.2	502.8	523.9	574.0	565.3	557.0	515.7	462.7
57.5	492.5	503.3	515.3	522.2	516.5	509.1	533.2	534.7	554.9	526.1
60.0	510.4	488.4	480.1	481.6	476.3	478.7	513.9	485.8	505.6	514.8
62.5	391.2	380.0	376.1	397.0	410.1	432.9	430.1	461.0	468.9	473.7
65.0	234.3	236.4	255.1	245.4	253.5	269.1	313.5	354.0	397.2	422.2
67.5	87.68	74.84	100.8	117.9	130.4	135.5	174.5	204.8	260.0	325.6
70.0	28.06	27.62	28.05	27.96	33.51	43.35	66.54	101.6	131.0	196.6
72.5	19.62	18.82	19.05	19.75	20.18	21.25	23.48	28.58	48.07	86.90
75.0	14.29	14.31	14.45	14.34	14.69	15.76	16.76	17.79	20.57	31.34
77.5	12.44	12.54	12.46	12.39	12.71	13.02	13.48	14.29	15.71	17.72
80.0	11.26	11.40	11.39	11.39	11.58	11.69	11.85	12.39	13.12	14.34
82.5	10.24	10.56	10.67	10.85	10.79	10.89	11.02	11.28	12.00	12.89
85.0	9.288	9.990	10.18	10.30	10.10	10.17	10.28	10.53	11.71	12.94
87.5	5.150	8.833	9.601	9.448	9.336	9.436	9.530	9.783	10.85	11.53
90.0	5.185	7.769	8.754	8.274	7.921	7.221	7.415	7.472	7.491	7.577
G/C	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0
0.0	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8
2.5	738.7	739.7	741.3	742.9	744.4	745.9	747.4	749.0	750.5	751.0
5.0	726.8	731.0	734.6	738.4	741.4	744.0	746.7	749.7	752.7	752.6
7.5	708.9	715.8	723.1	730.7	737.2	743.1	747.0	751.2	755.8	756.1
10.0	691.3	701.1	711.7	721.7	731.4	740.1	747.3	752.7	759.0	759.8
12.5	666.3	683.9	699.0	713.8	727.8	741.2	752.8	762.2	769.8	772.3
15.0	643.5	665.0	687.1	706.9	723.3	740.8	757.3	771.1	780.6	785.2
17.5	621.6	644.1	675.1	706.1	734.7	759.3	783.4	799.2	810.4	816.0
20.0	605.2	636.9	672.4	712.4	749.6	781.1	811.0	828.6	840.2	847.6
22.5	598.7	637.0	672.6	719.6	770.8	816.2	852.6	872.8	885.8	893.5
25.0	585.9	640.2	692.5	742.8	797.8	853.7	896.2	917.5	931.3	939.8
27.5	588.2	649.1	712.8	767.4	817.6	873.9	920.9	944.2	954.7	967.7
30.0	589.9	655.5	720.5	778.9	829.7	885.9	941.4	970.4	978.0	995.1
32.5	581.3	662.2	727.9	791.3	848.5	906.0	970.5	1004	1009	1028
35.0	580.6	664.5	741.8	808.3	872.1	932.7	1002	1038	1039	1063
37.5	584.7	668.0	753.5	828.7	890.4	948.6	1016	1057	1054	1082
40.0	573.6	673.0	760.5	836.7	899.9	960.9	1026	1074	1070	1100
42.5	565.9	665.4	760.3	840.5	906.9	961.7	1020	1065	1064	1096
45.0	557.2	654.7	761.6	830.4	896.7	953.9	1012	1056	1058	1091
47.5	545.1	648.6	749.6	824.8	880.3	940.4	1001	1053	1054	1091
50.0	540.3	644.0	726.9	797.7	854.0	923.6	989.6	1050	1050	1091
52.5	530.9	614.8	682.8	761.6	836.3	921.5	999.8	1056	1070	1105
55.0	513.2	573.3	649.2	747.1	839.2	924.6	1017	1061	1089	1118
57.5	510.7	542.7	624.5	733.5	872.2	984.3	1088	1134	1164	1178
60.0	521.2	550.1	647.3	789.2	960.8	1082	1170	1211	1238	1240
62.5	522.6	597.7	736.4	843.6	1036	1164	1276	1318	1363	1368
65.0	493.2	579.8	756.8	933.2	1101	1238	1385	1426	1489	1498
67.5	422.8	552.0	732.3	983.4	1107	1189	1395	1450	1430	1410
70.0	269.6	453.5	526.9	701.5	1020	1088	1397	1474	1371	1314
72.5	135.7	243.2	308.0	445.8	811.5	832.3	946.4	931.4	862.6	864.3
75.0	53.95	110.4	204.4	341.5	514.5	504.7	433.0	369.6	353.7	403.1
77.5	28.63	28.16	104.4	223.9	275.0	267.3	226.2	205.4	208.2	233.4
80.0	16.34	19.52	47.26	78.57	76.24	61.52	51.81	50.61	62.58	70.96
82.5	13.75	15.56	18.42	23.02	27.12	30.06	37.22	40.88	48.27	51.37
85.0	13.45	13.83	15.26	17.08	23.00	24.99	32.62	33.50	33.96	33.97

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	11.43	11.23	11.89	12.73	16.65	17.69	21.82	22.59	22.80	22.52
90.0	7.817	8.124	8.419	8.763	9.895	10.25	10.89	11.65	11.64	11.13
G/C	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0
0.0	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8
2.5	751.5	752.0	752.6	752.9	752.8	752.7	752.8	753.2	753.5	754.1
5.0	752.6	753.1	753.8	754.4	754.9	755.5	756.0	756.3	756.6	757.0
7.5	756.7	757.8	758.3	758.6	758.7	759.0	759.2	760.2	762.2	764.6
10.0	761.2	762.1	762.7	763.7	765.9	768.3	769.7	770.5	770.2	769.1
12.5	773.6	773.5	774.3	776.2	777.3	776.2	775.1	772.5	768.8	765.1
15.0	786.0	787.1	788.4	790.0	789.8	787.3	781.2	770.6	761.8	759.6
17.5	817.4	818.5	815.8	811.3	804.5	798.8	787.2	778.7	768.1	758.5
20.0	852.9	854.8	849.3	841.6	831.3	815.7	800.3	784.1	769.3	749.5
22.5	898.1	897.9	889.7	872.1	852.1	838.2	818.0	788.3	752.9	727.4
25.0	944.4	945.6	936.2	917.4	895.3	867.7	826.6	786.5	748.6	716.8
27.5	978.0	980.5	970.3	962.1	936.9	895.8	841.4	786.8	751.9	714.4
30.0	1009	1004	992.8	983.5	959.1	915.4	862.6	811.0	754.4	701.0
32.5	1043	1033	1020	1004	968.1	921.7	882.0	824.6	750.8	687.9
35.0	1077	1065	1057	1034	981.8	939.4	884.9	815.4	751.7	695.1
37.5	1096	1086	1087	1058	1006	955.5	877.0	820.9	758.7	673.3
40.0	1110	1104	1103	1065	1027	962.7	890.8	835.3	742.4	640.1
42.5	1101	1108	1106	1078	1037	966.3	910.2	825.5	727.2	618.2
45.0	1088	1102	1094	1071	1028	987.2	911.4	812.4	708.2	576.2
47.5	1082	1100	1082	1058	1004	975.6	902.4	808.3	667.8	525.7
50.0	1077	1095	1071	1035	986.1	933.8	871.3	780.9	623.5	486.8
52.5	1095	1100	1068	1013	965.8	894.7	828.1	707.3	570.1	467.4
55.0	1119	1110	1076	1003	934.9	865.7	745.9	624.4	496.0	462.1
57.5	1173	1138	1087	990.3	894.6	799.9	650.9	526.5	465.7	444.7
60.0	1233	1181	1095	1002	863.9	707.7	527.8	464.9	430.9	429.2
62.5	1345	1259	1114	999.9	847.1	616.8	453.3	417.6	407.9	407.5
65.0	1465	1346	1151	980.7	741.2	557.6	439.1	395.9	401.7	394.1
67.5	1325	1265	1096	916.8	596.1	483.6	403.9	390.3	383.2	404.7
70.0	1155	1074	964.2	589.9	440.3	387.9	354.0	343.2	361.5	371.4
72.5	752.9	699.8	674.6	329.1	284.7	264.4	256.1	271.4	282.9	289.4
75.0	314.4	316.9	234.9	157.5	149.4	149.3	154.3	168.9	186.1	189.5
77.5	176.1	154.6	67.40	55.22	44.57	37.39	57.75	79.69	91.82	96.01
80.0	67.31	44.16	32.39	30.25	27.07	22.51	19.31	20.24	25.25	39.56
82.5	44.49	27.32	23.39	19.79	17.24	15.26	13.93	16.85	16.21	14.43
85.0	27.16	24.89	22.12	17.36	14.88	13.49	13.33	14.66	13.69	12.14
87.5	18.81	17.56	16.03	13.35	11.76	11.01	11.28	11.92	11.49	10.55
90.0	10.79	9.862	9.337	9.028	8.436	8.094	7.921	8.342	7.737	7.317
G/C	150.0	155.0	160.0	165.0	170.0	175.0	180.0	185.0	190.0	195.0
0.0	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8
2.5	754.9	755.7	756.3	757.0	757.5	758.1	758.6	759.1	759.5	760.1
5.0	757.8	758.6	759.6	760.6	761.5	762.3	763.0	763.5	763.7	762.4
7.5	766.3	768.0	769.3	770.4	771.1	771.6	772.0	772.3	770.7	767.1
10.0	766.7	766.3	766.3	766.4	766.5	765.9	765.5	765.6	764.4	765.9
12.5	762.4	760.3	758.6	757.5	757.3	756.3	755.3	754.3	752.8	757.0
15.0	757.0	753.4	748.9	746.5	747.1	746.9	745.1	742.9	742.4	746.6
17.5	751.3	741.2	731.0	722.9	720.5	717.4	711.1	708.7	713.3	720.5
20.0	727.5	709.9	698.5	691.8	686.7	682.0	676.7	673.8	681.6	689.6
22.5	703.4	684.2	677.4	670.9	665.6	662.9	655.9	652.4	659.1	665.0
25.0	693.9	671.4	651.1	637.4	628.2	619.0	607.4	609.8	622.5	626.4
27.5	673.9	641.9	614.8	606.4	599.9	595.0	586.5	586.0	591.2	594.9
30.0	656.2	628.0	606.8	589.1	569.3	554.0	539.8	541.1	547.1	561.2
32.5	650.7	609.4	568.4	536.3	519.8	511.2	504.5	504.5	507.1	510.3
35.0	626.7	568.9	535.3	513.3	486.6	462.0	441.4	445.0	458.9	484.1
37.5	591.6	538.3	487.4	431.5	403.6	390.8	385.6	388.3	388.3	396.7
40.0	560.8	478.0	424.5	404.6	394.7	384.5	383.2	385.7	382.3	381.9
42.5	508.8	437.1	413.4	402.5	392.0	386.6	383.5	382.5	384.5	379.3
45.0	465.6	432.0	412.1	404.9	398.6	390.3	389.5	389.6	389.6	383.0
47.5	452.7	430.8	418.6	409.7	401.3	390.0	390.6	391.7	388.7	385.4
50.0	448.3	431.6	416.3	407.1	399.5	392.9	392.2	391.1	392.1	388.7
52.5	443.1	431.7	420.4	409.6	406.8	397.2	399.5	398.3	394.3	397.3
55.0	438.8	434.4	426.0	411.7	415.3	399.9	401.0	399.2	395.7	400.2
57.5	434.9	434.1	428.7	419.5	418.4	408.4	407.4	409.5	403.3	404.1
60.0	432.0	434.1	447.4	437.9	446.2	437.4	434.3	437.3	426.7	422.1
62.5	434.3	447.7	476.0	495.4	509.6	520.2	531.6	520.2	492.6	484.2
65.0	428.1	453.7	495.7	528.0	571.3	588.5	618.6	601.4	570.1	535.1
67.5	427.3	456.7	495.8	490.5	486.8	484.6	496.7	506.6	517.2	522.0
70.0	370.6	388.1	393.4	410.9	392.8	382.4	365.3	397.0	414.0	449.4
72.5	283.4	289.6	287.5	294.5	270.1	286.0	273.3	286.3	300.9	339.2
75.0	186.7	182.9	171.4	164.1	144.9	123.7	133.0	138.7	170.7	196.9
77.5	89.71	80.45	64.42	38.24	25.53	25.03	25.11	25.96	31.91	58.46

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	21.03	20.35	19.92	19.84	18.88	18.09	17.28	18.59	20.28	21.49
82.5	14.49	14.50	13.71	13.42	13.78	13.27	13.43	13.33	14.07	14.73
85.0	11.50	11.21	10.75	10.58	11.02	11.58	10.61	11.15	11.22	11.23
87.5	10.73	10.31	9.392	9.121	9.166	9.149	5.317	9.007	9.537	9.482
90.0	6.946	6.698	7.424	7.472	7.521	6.835	5.516	6.595	7.203	7.261
G/C	200.0	205.0	210.0	215.0	220.0	225.0	230.0	235.0	240.0	245.0
0.0	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8
2.5	760.6	761.0	761.1	761.3	761.6	761.8	761.9	762.0	762.2	762.4
5.0	760.4	759.0	759.2	759.4	760.2	761.1	761.9	762.7	763.7	764.6
7.5	767.7	768.2	768.5	768.6	768.1	766.7	765.6	765.0	763.8	762.2
10.0	768.3	770.4	771.9	772.2	771.7	770.7	769.7	768.3	766.3	763.2
12.5	761.9	764.7	764.0	763.9	764.6	766.6	770.5	770.3	769.2	767.4
15.0	751.6	752.6	753.7	752.7	752.4	757.4	764.1	769.9	771.2	769.4
17.5	724.8	730.7	738.1	743.0	748.3	751.7	760.3	768.5	773.2	772.7
20.0	690.2	695.1	703.6	721.6	736.6	747.5	752.6	763.1	769.1	774.1
22.5	669.5	671.4	677.7	694.8	714.2	732.0	748.7	759.6	766.9	777.2
25.0	635.3	648.7	659.5	672.1	691.9	710.6	732.3	761.7	782.7	800.6
27.5	598.6	612.5	629.8	654.9	681.2	699.1	727.8	766.1	797.2	822.6
30.0	578.5	588.0	607.2	631.8	665.0	695.3	723.0	771.6	820.7	865.0
32.5	526.9	549.1	589.5	618.3	643.7	682.1	732.4	794.0	846.7	905.9
35.0	503.5	523.9	552.8	594.9	625.1	682.2	751.0	824.9	869.4	924.0
37.5	424.9	485.8	530.3	558.0	615.1	689.9	763.6	838.9	892.9	945.6
40.0	388.4	414.3	472.0	527.8	606.9	691.8	773.4	851.9	922.7	983.4
42.5	386.0	394.2	412.6	488.3	589.4	693.9	783.7	873.0	955.6	1025
45.0	388.2	392.9	404.6	440.5	559.7	684.4	800.2	894.4	979.2	1058
47.5	396.8	400.3	405.1	433.3	519.9	663.6	809.2	906.7	994.4	1084
50.0	395.1	401.3	413.2	441.5	482.0	631.6	786.3	917.7	1000	1083
52.5	400.4	404.3	424.1	443.5	465.3	588.0	748.6	899.2	992.1	1081
55.0	405.9	412.8	427.6	440.0	460.0	543.3	684.5	860.5	960.3	1044
57.5	406.2	413.2	426.7	433.2	455.9	497.4	617.5	763.4	894.4	1000
60.0	417.2	414.3	424.4	426.1	442.0	465.3	533.6	649.1	832.9	953.9
62.5	454.6	440.0	423.4	417.2	427.2	429.3	470.6	549.8	745.0	904.8
65.0	499.9	467.9	436.4	422.8	423.3	420.1	431.4	482.0	625.4	896.8
67.5	539.9	494.1	462.5	432.3	415.8	427.2	415.0	461.1	537.7	805.4
70.0	464.7	451.3	457.1	417.2	380.7	373.5	388.8	415.5	424.9	537.1
72.5	337.5	344.3	349.5	349.6	319.5	304.4	296.3	298.3	308.4	340.1
75.0	216.0	234.6	234.0	244.0	229.9	211.3	197.8	188.1	187.1	198.3
77.5	96.22	106.8	124.8	123.6	126.1	118.0	99.61	83.91	84.91	97.18
80.0	22.44	29.64	36.97	46.97	45.52	47.29	44.38	43.72	41.65	42.41
82.5	15.94	16.03	16.42	16.41	22.55	21.70	16.04	16.92	18.15	22.65
85.0	11.58	12.27	12.36	13.33	14.55	15.98	15.09	14.87	15.88	22.68
87.5	9.998	10.70	11.47	11.47	12.49	13.22	12.87	12.42	13.02	17.37
90.0	7.462	7.016	7.730	8.208	9.136	9.548	9.558	9.691	9.976	10.96
G/C	250.0	255.0	260.0	265.0	270.0	275.0	280.0	285.0	290.0	295.0
0.0	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8
2.5	761.6	760.5	759.3	758.1	756.9	755.8	754.6	753.5	752.3	751.0
5.0	764.9	764.8	764.2	761.4	759.5	757.6	755.1	752.3	748.8	748.8
7.5	761.1	760.2	760.5	759.6	757.8	755.7	753.2	750.2	743.8	737.1
10.0	759.8	756.5	754.8	756.1	754.2	752.1	749.2	741.7	732.8	724.5
12.5	764.2	761.4	760.4	760.8	757.4	753.5	747.8	736.7	725.4	714.4
15.0	767.7	765.6	766.0	766.0	760.5	754.5	745.8	732.2	719.1	704.8
17.5	773.0	772.1	768.3	765.7	762.7	758.5	749.5	732.7	714.5	691.1
20.0	777.6	779.8	774.2	765.2	764.9	764.0	753.8	732.0	706.0	678.5
22.5	791.3	801.3	800.7	795.2	793.7	789.2	773.9	742.0	706.8	672.3
25.0	816.6	827.0	827.4	826.3	822.5	813.9	794.2	757.0	716.5	678.0
27.5	848.3	865.2	873.0	869.8	865.4	859.3	832.5	785.8	737.0	681.6
30.0	890.9	908.2	920.2	914.7	908.3	905.2	875.8	822.4	771.1	708.4
32.5	931.8	942.7	955.3	949.7	941.6	935.2	903.5	854.6	800.2	732.1
35.0	962.0	976.3	988.8	984.1	974.9	965.1	932.0	883.3	822.9	750.1
37.5	996.9	1022	1036	1034	1020	1012	973.6	918.9	847.7	769.8
40.0	1041	1076	1085	1085	1066	1059	1017	958.0	881.5	796.6
42.5	1078	1120	1126	1128	1110	1100	1062	995.9	915.5	822.1
45.0	1109	1155	1164	1170	1155	1142	1107	1033	949.0	853.3
47.5	1133	1175	1187	1184	1177	1156	1131	1054	979.0	886.9
50.0	1142	1184	1208	1196	1199	1168	1153	1070	990.8	894.9
52.5	1145	1175	1202	1189	1187	1161	1146	1073	992.3	901.3
55.0	1116	1160	1187	1181	1175	1155	1131	1070	970.1	881.6
57.5	1081	1156	1185	1190	1203	1177	1158	1081	975.1	854.0
60.0	1059	1157	1182	1201	1230	1200	1194	1106	1026	885.8
62.5	1057	1208	1278	1325	1374	1369	1334	1194	1089	916.0
65.0	1066	1278	1393	1453	1518	1542	1489	1310	1151	1000
67.5	1008	1232	1315	1403	1466	1504	1440	1266	1146	1046
70.0	893.9	1105	1215	1344	1414	1456	1368	1151	1064	810.0

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]

72.5	635.4	727.5	830.0	957.5	932.5	962.4	973.2	887.7	873.7	537.8
75.0	262.1	312.9	406.9	563.7	451.1	457.1	530.1	576.4	595.8	379.2
77.5	101.4	147.8	229.1	319.8	260.9	255.9	288.5	322.2	332.8	238.5
80.0	40.49	44.24	72.01	79.16	70.75	62.97	68.65	81.98	96.86	89.03
82.5	26.20	29.30	47.61	60.49	55.19	53.89	52.30	41.16	37.06	31.69
85.0	26.48	27.61	31.98	45.25	39.63	47.72	48.87	31.09	29.63	23.92
87.5	19.89	20.59	23.19	34.49	29.10	37.30	36.23	24.97	23.11	18.80
90.0	12.35	13.20	14.63	23.76	18.57	26.79	23.27	19.17	16.70	14.47
G/C	300.0	305.0	310.0	315.0	320.0	325.0	330.0	335.0	340.0	345.0
0.0	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8
2.5	749.3	747.6	746.4	745.7	745.0	744.1	743.1	742.2	740.8	739.4
5.0	743.8	738.8	733.7	728.7	724.1	720.4	717.8	715.5	714.5	714.0
7.5	730.2	724.5	720.1	714.9	708.8	702.4	696.9	692.6	689.2	685.8
10.0	716.7	708.4	699.2	689.9	680.9	672.3	663.8	655.7	649.3	644.7
12.5	702.6	688.3	674.8	660.8	647.7	635.6	624.9	616.8	611.2	607.5
15.0	685.8	667.4	648.8	631.4	617.0	605.5	595.5	586.8	579.1	572.3
17.5	668.3	644.7	623.8	608.4	592.7	577.2	561.9	545.0	532.2	521.3
20.0	653.5	628.0	607.0	588.4	563.4	538.9	523.0	506.4	492.0	477.9
22.5	641.8	613.7	586.2	556.4	527.1	506.0	490.4	473.4	453.9	435.4
25.0	638.8	597.5	561.8	534.5	503.7	474.0	448.9	426.7	409.1	394.6
27.5	632.1	588.4	551.9	514.4	474.9	440.4	415.3	393.8	372.9	347.0
30.0	643.0	584.4	535.2	488.7	448.5	415.6	376.7	342.6	323.3	308.0
32.5	663.2	596.9	525.3	468.7	424.4	383.0	342.1	318.5	311.6	309.1
35.0	681.0	605.0	525.8	454.9	392.2	354.7	331.6	321.1	319.1	321.4
37.5	697.0	615.3	523.9	440.4	380.3	345.7	338.4	334.5	330.6	330.1
40.0	713.7	626.1	526.0	433.2	376.8	353.1	348.5	346.6	336.5	338.5
42.5	729.7	632.4	529.1	435.2	381.4	364.4	355.9	357.1	353.3	355.0
45.0	750.6	634.6	531.2	432.8	387.8	373.8	373.3	372.4	368.0	361.7
47.5	779.5	649.8	534.5	434.0	394.2	391.0	387.4	379.7	384.3	382.3
50.0	798.2	672.2	543.1	431.5	409.0	406.2	404.6	417.6	420.6	420.4
52.5	798.9	677.4	550.8	443.8	417.7	430.1	445.7	460.9	522.5	614.5
55.0	788.0	684.8	562.2	454.3	450.0	521.3	555.9	599.4	567.8	475.8
57.5	754.3	656.3	583.5	539.1	596.9	588.6	545.2	516.3	521.0	531.3
60.0	738.0	620.4	638.5	659.1	596.5	550.8	509.6	511.8	478.5	472.5
62.5	737.8	673.7	661.2	567.6	510.3	491.4	483.5	475.3	451.3	430.3
65.0	787.9	696.9	585.4	498.4	481.2	430.5	397.8	343.6	304.7	295.5
67.5	834.4	599.8	506.3	456.2	383.4	290.5	239.0	203.1	170.2	158.6
70.0	595.3	485.2	389.4	295.4	228.7	163.7	117.1	73.18	50.37	33.63
72.5	335.2	309.8	236.5	161.8	104.2	62.80	40.05	27.08	24.66	23.03
75.0	251.4	186.6	126.2	63.23	42.50	23.91	21.41	18.97	16.99	15.57
77.5	164.3	91.17	51.03	26.98	20.72	18.23	16.21	14.92	13.93	13.25
80.0	75.02	46.15	22.00	18.86	16.94	15.75	13.96	12.98	12.18	11.76
82.5	26.41	20.51	17.37	16.52	16.03	15.36	13.14	11.87	11.14	10.76
85.0	19.38	17.21	17.00	16.78	15.82	15.14	13.11	11.02	10.46	10.09
87.5	15.49	14.32	14.73	15.25	14.53	13.16	11.50	10.17	9.701	9.405
90.0	12.79	11.57	10.53	10.63	9.701	9.395	9.098	8.831	8.745	8.505
G/C	350.0	355.0								
0.0	757.8	757.8								
2.5	738.2	737.3								
5.0	713.2	711.7								
7.5	685.1	683.1								
10.0	641.7	638.7								
12.5	605.0	605.4								
15.0	567.2	566.1								
17.5	517.5	516.9								
20.0	475.7	478.3								
22.5	425.7	425.0								
25.0	384.2	384.9								
27.5	322.1	319.9								
30.0	297.4	298.8								
32.5	303.7	303.9								
35.0	317.7	315.5								
37.5	326.0	322.6								
40.0	341.6	335.5								
42.5	359.1	347.7								
45.0	366.4	359.4								
47.5	401.3	394.7								
50.0	388.6	386.9								
52.5	639.7	651.6								
55.0	466.6	471.9								
57.5	518.8	503.2								
60.0	474.4	492.7								
62.5	396.7	393.9								

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]

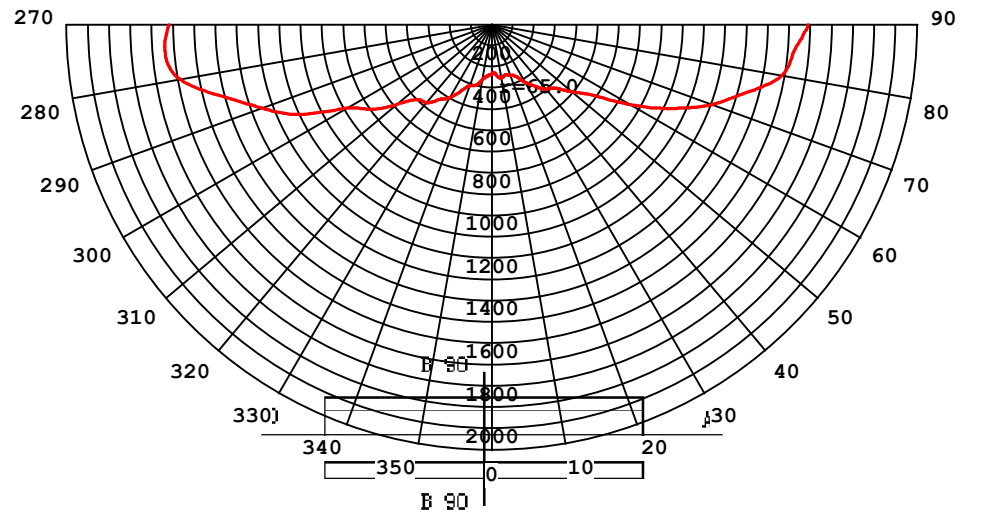
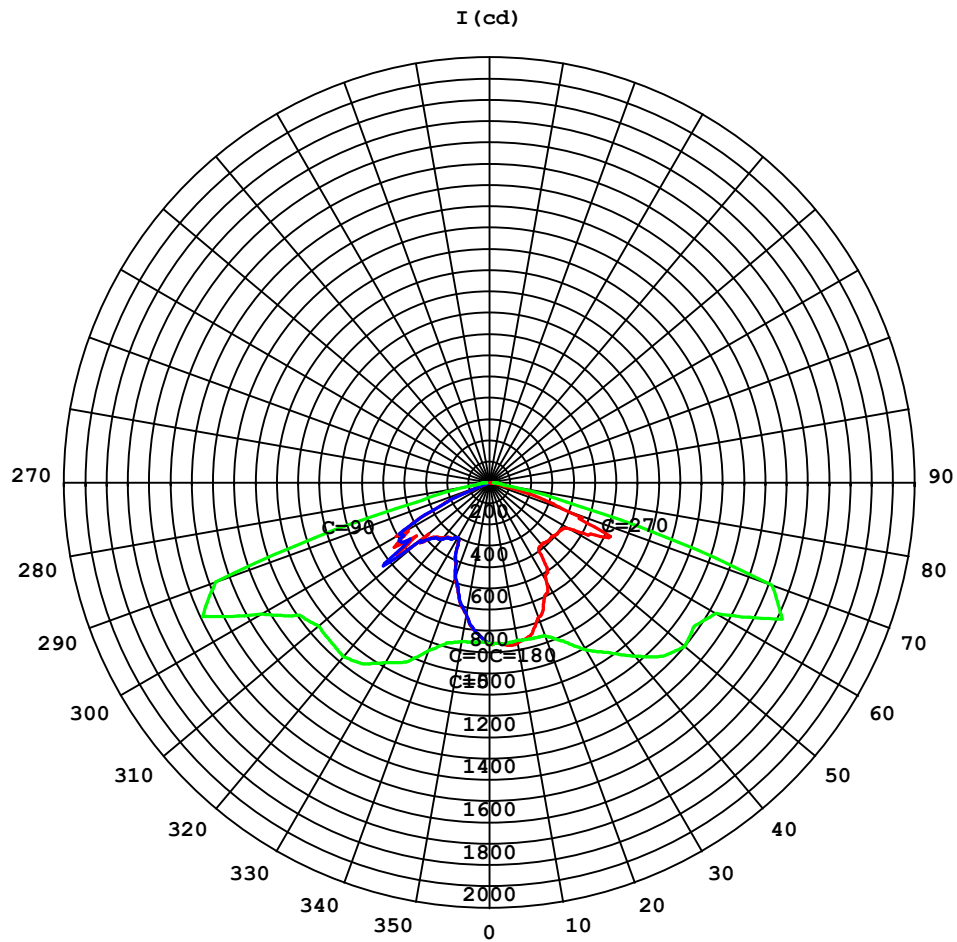
65.0	263.1	241.6
67.5	126.8	83.98
70.0	31.61	29.46
72.5	21.13	19.99
75.0	14.86	14.67
77.5	12.72	12.62
80.0	11.43	11.35
82.5	10.47	10.35
85.0	9.922	9.742
87.5	9.215	8.386
90.0	8.390	7.327

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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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

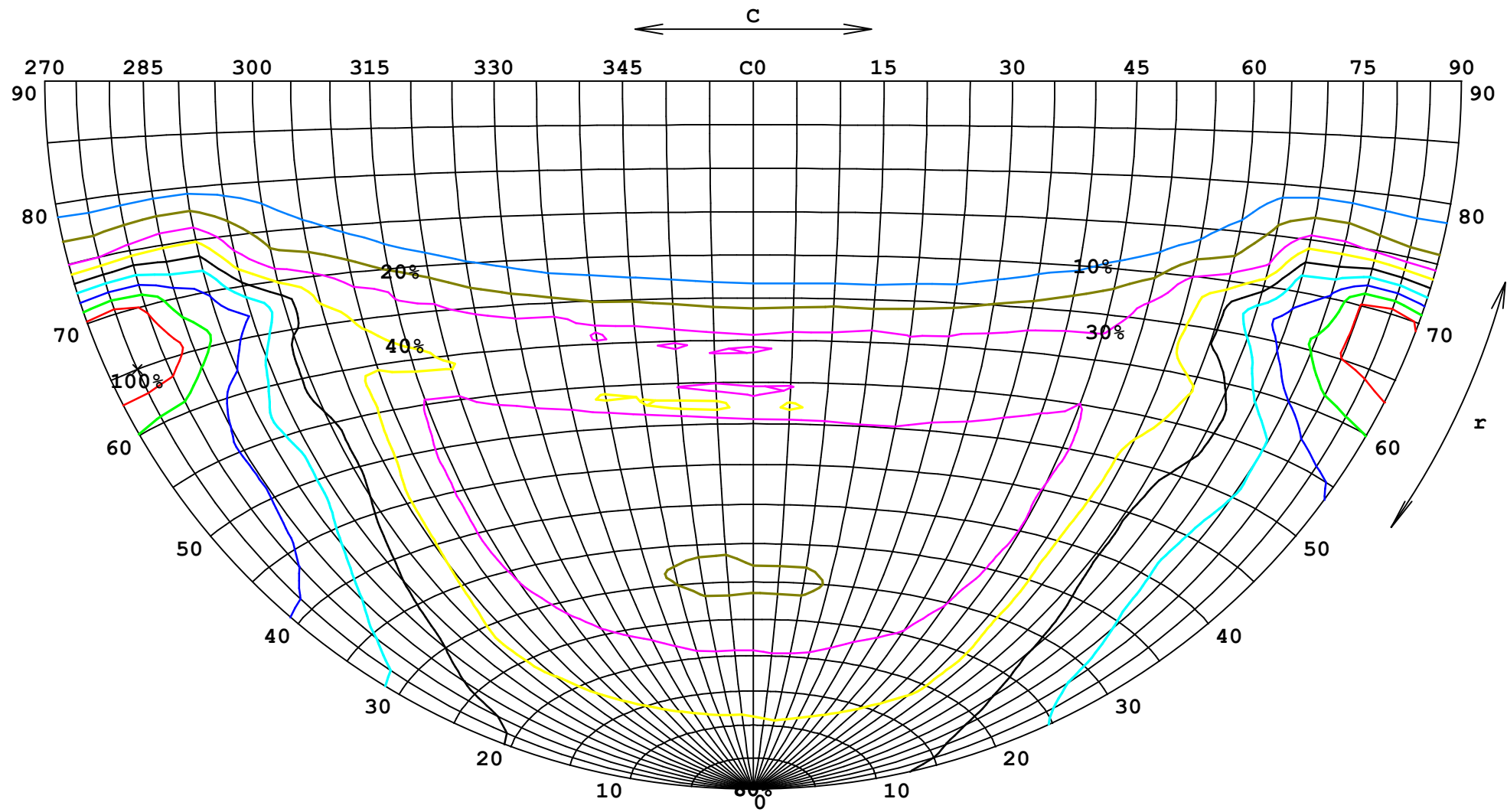
**FLUX DATA:**

LOR:	100.0 %
STREET DOWN:	1533 lm
STREET UP:	0 lm
HOUSE DOWN:	1549 lm
HOUSE UP:	0 lm

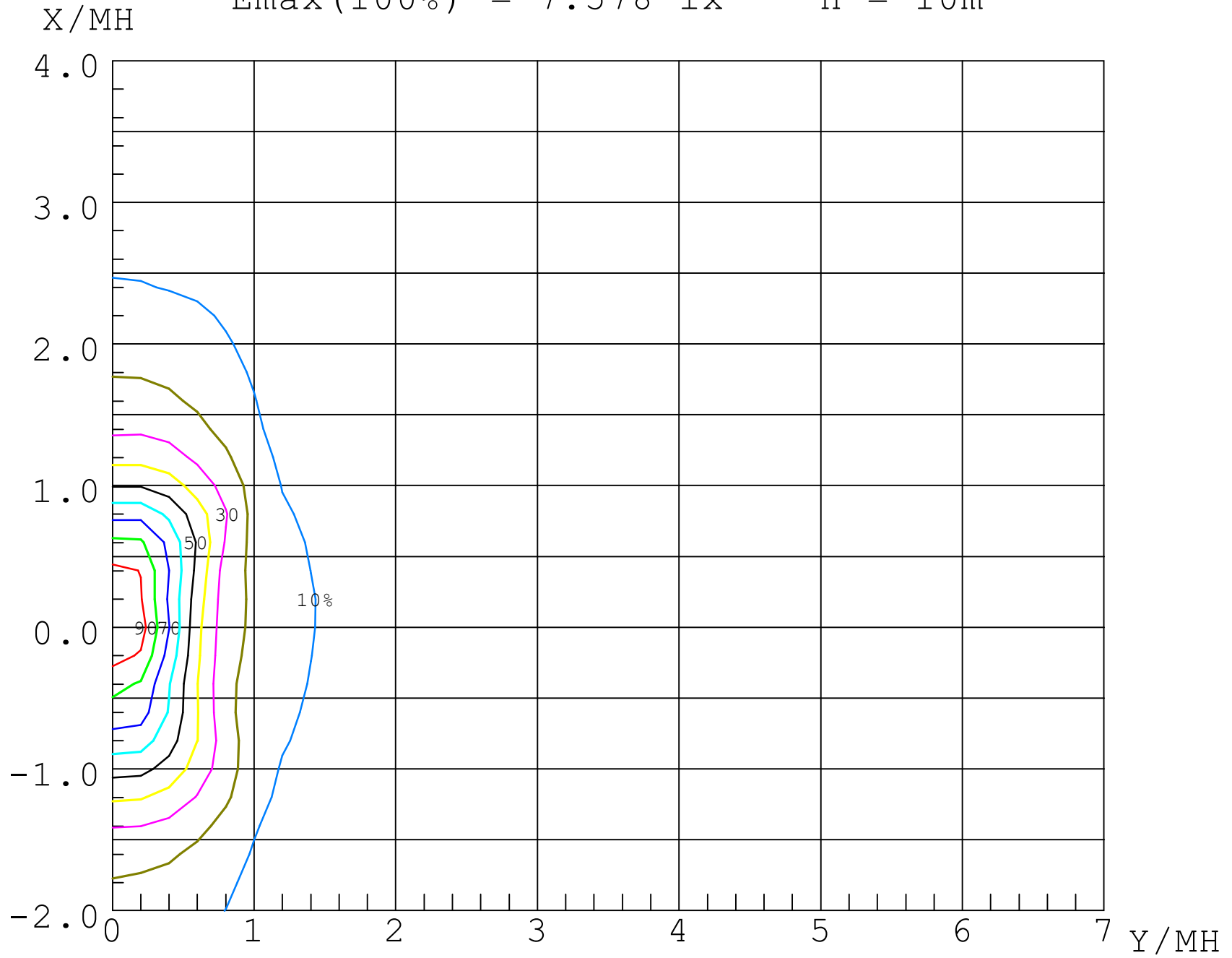




$I_{max}(100\%) = 1542 \text{ cd}$



$E_{max}(100\%) = 7.578 \text{ lx}$        $H = 10\text{m}$



UF (%)

80

70

60

50

40

30

20

10

0

-2

-1

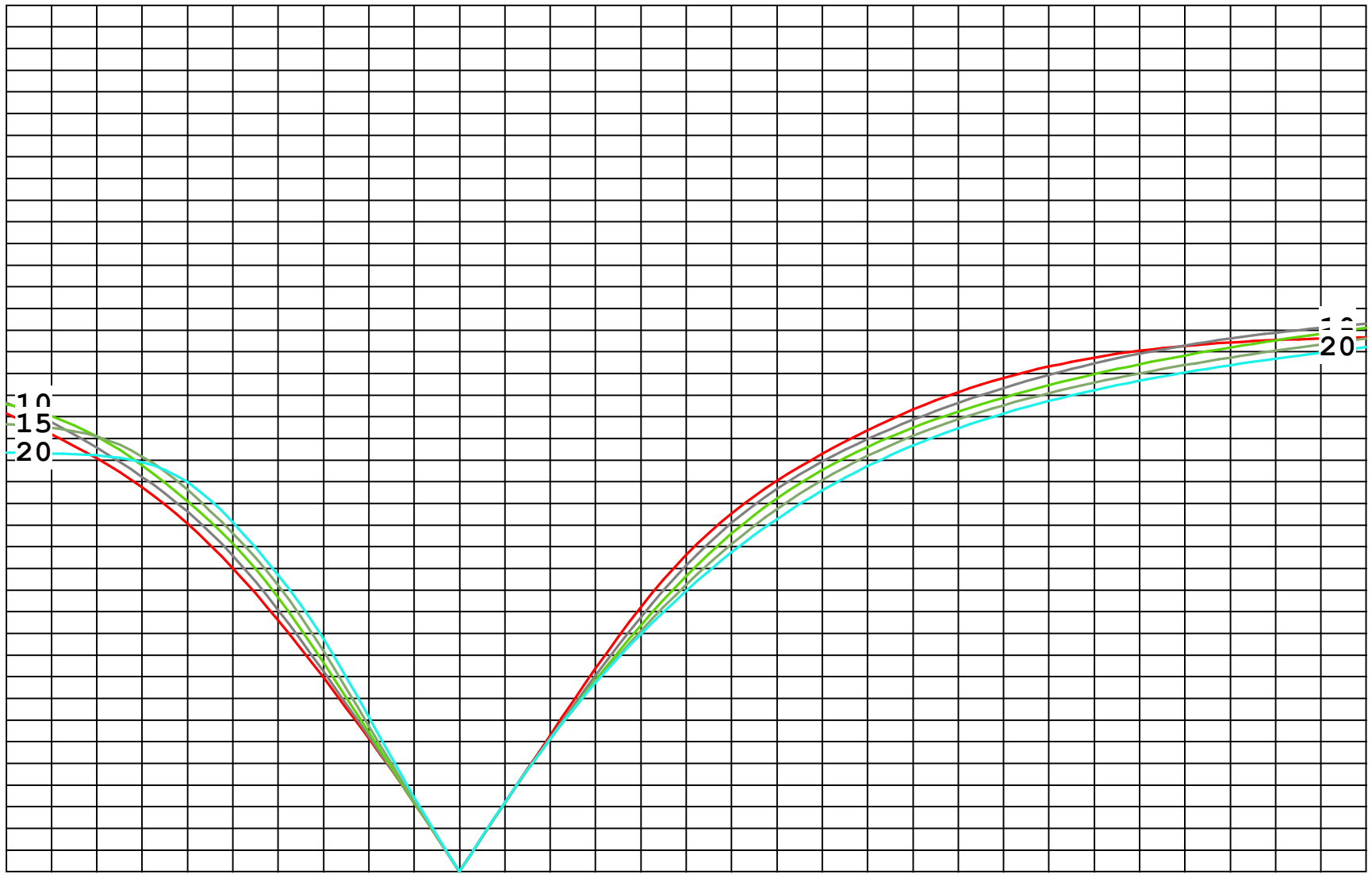
0

1

2

3

4 X/MH



10  
15  
20

10  
15  
20

0