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LumCAT: 3335-1 30W 4000K 620 UGR 160LM

Luminaire:

Report No: F:\Logo.bmp

Voltage(V): 230.0000

Test No:

Current(A): 0.1380

LampCAT:

Power (W): 30.3000

Lamp flux(lm)

PF: 0.9510

Number of Lamps: 1

Ballast type: /

Length(mm): 554

Width(mm): 554

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 4745.03

Lumens(lm)/Power(W): 156.60

Central intensity(cd): 2345.828

Maximum intensity(cd): 2353.971

Angle of maximum intensity: C=45.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=82.0

[C90/270]Total=88.7

Field angle(10%Imax): [C0/180]Total=141.8

[C90/270]Total=138.0

Maximum s/h(1/2): C0\_180=1.21 C90\_270=1.23

Maximum s/h(1/4): C0\_180=1.17 C90\_270=1.23

Up flux rate of LUM(%): 0.01%

Down flux rate of LUM(%): 99.99%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 87.476%

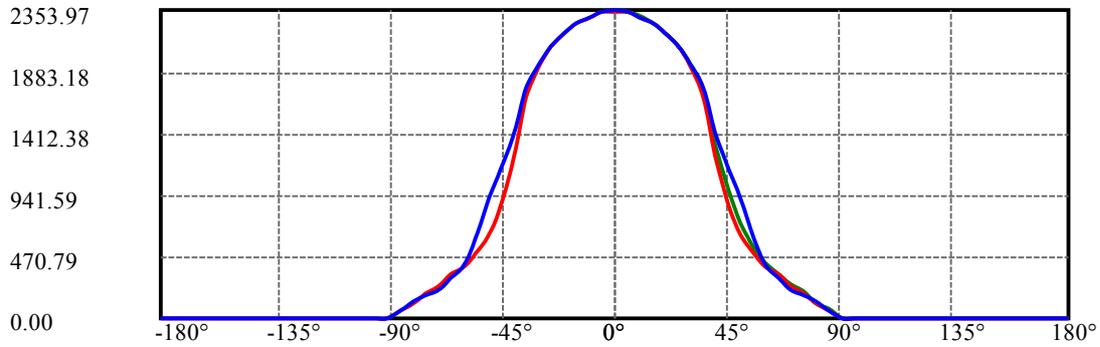
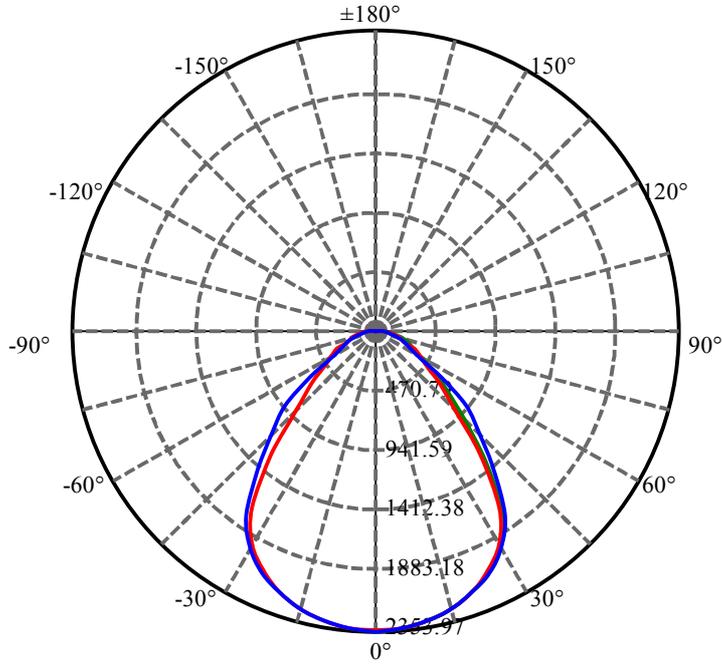
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2349.763	.000	.000	.000%	.000%
5.0	2336.531	56.023	56.023	1.181%	1.181%
10.0	2301.514	165.917	221.941	3.497%	4.677%
15.0	2247.225	269.828	491.769	5.687%	10.364%
20.0	2173.935	364.366	856.135	7.679%	18.043%
25.0	2075.943	445.734	1301.868	9.394%	27.436%
30.0	1940.492	508.283	1810.152	10.712%	38.148%
35.0	1726.865	540.044	2350.196	11.381%	49.530%
40.0	1329.266	509.892	2860.088	10.746%	60.275%
45.0	990.910	429.600	3289.687	9.054%	69.329%
50.0	756.178	353.025	3642.712	7.440%	76.769%
55.0	553.680	284.807	3927.519	6.002%	82.771%
60.0	412.121	223.242	4150.761	4.705%	87.476%
65.0	328.720	180.100	4330.861	3.796%	91.271%
70.0	248.983	146.278	4477.139	3.083%	94.354%
75.0	187.704	114.143	4591.282	2.406%	96.760%
80.0	123.575	83.290	4674.572	1.755%	98.515%
85.0	65.690	51.428	4726.000	1.084%	99.599%
90.0	1.900	18.507	4744.506	.390%	99.989%
95.0	.000	.520	4745.026	.011%	100.000%
100.0	.000	.000	4745.026	.000%	100.000%
105.0	.000	.000	4745.026	.000%	100.000%
110.0	.000	.000	4745.026	.000%	100.000%
115.0	.000	.000	4745.026	.000%	100.000%
120.0	.000	.000	4745.026	.000%	100.000%
125.0	.000	.000	4745.026	.000%	100.000%
130.0	.000	.000	4745.026	.000%	100.000%
135.0	.000	.000	4745.026	.000%	100.000%
140.0	.000	.000	4745.026	.000%	100.000%
145.0	.000	.000	4745.026	.000%	100.000%
150.0	.000	.000	4745.026	.000%	100.000%
155.0	.000	.000	4745.026	.000%	100.000%
160.0	.000	.000	4745.026	.000%	100.000%
165.0	.000	.000	4745.026	.000%	100.000%
170.0	.000	.000	4745.026	.000%	100.000%
175.0	.068	.002	4745.029	.000%	100.000%
180.0	.136	.002	4745.031	.000%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	1810.15	38.15%
0-40	2860.09	60.28%
0-60	4150.76	87.48%
0-90	4744.51	99.99%
0-120	4745.03	100.00%
0-180	4745.03	100.00%
60-90	816.99	17.22%
90-120	19.03	0.40%
90-130	19.03	0.40%
90-150	19.03	0.40%
90-180	19.03	0.40%
0-52.69	3796.03	80.00%

## ZONAL LUMEN SUMMARY

0-10	221.94
10-20	634.19
20-30	954.02
30-40	1049.94
40-50	782.62
50-60	508.05
60-70	326.38
70-80	197.43
80-90	69.93
90-100	0.52
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



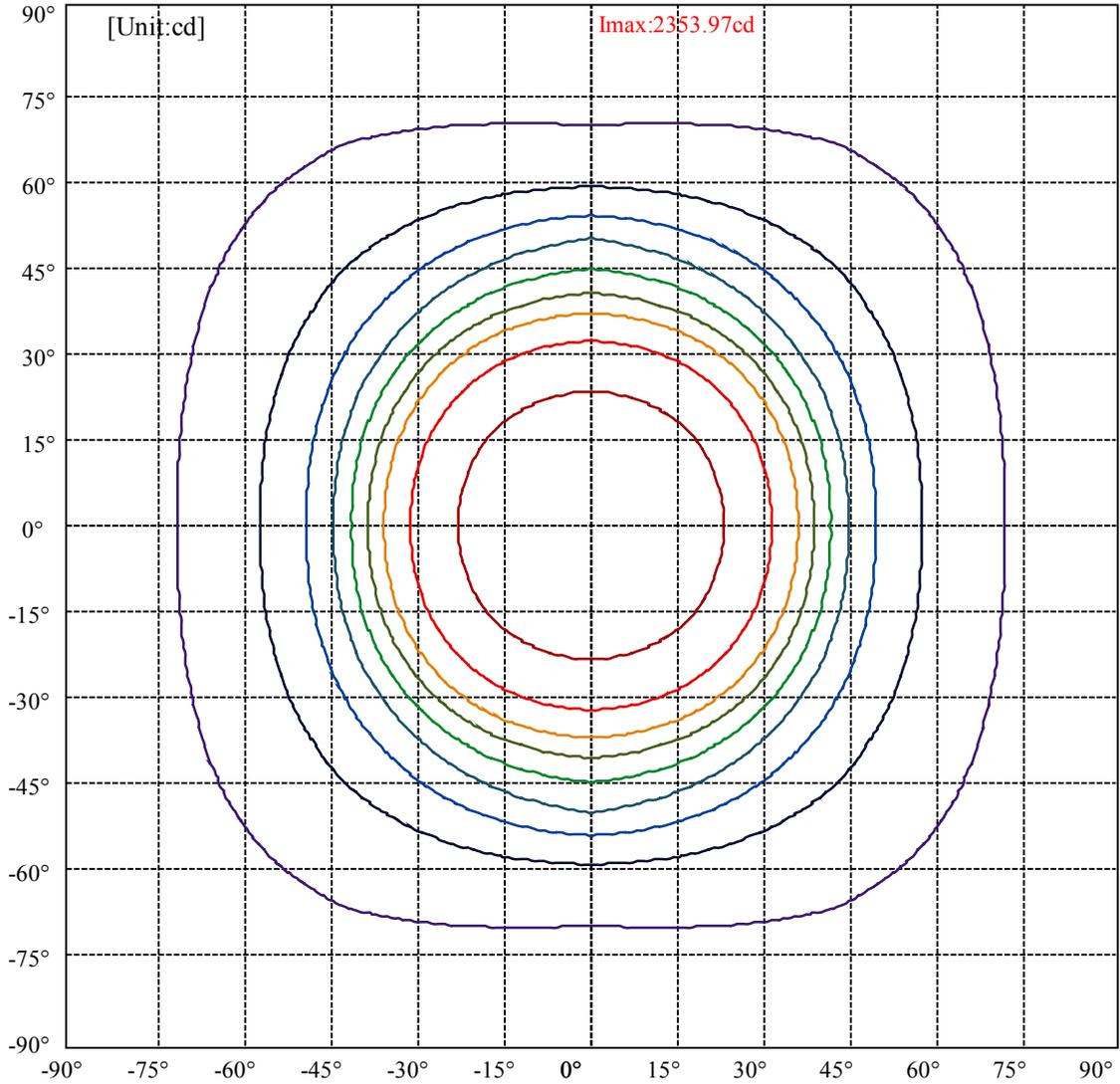
C45(Max): ———  
 C0/C180: ———  
 C90/C270: ———

Field angle(10%Imax):C0/180Left:70.9 Right:70.9  
 :C90/270Left:69.0 Right:69.0

Beam Angle(50%Imax):C0/180Left:41.0 Right:41.0  
 :C90/270Left:44.3 Right:44.3



ISO-Intensity(V-H)

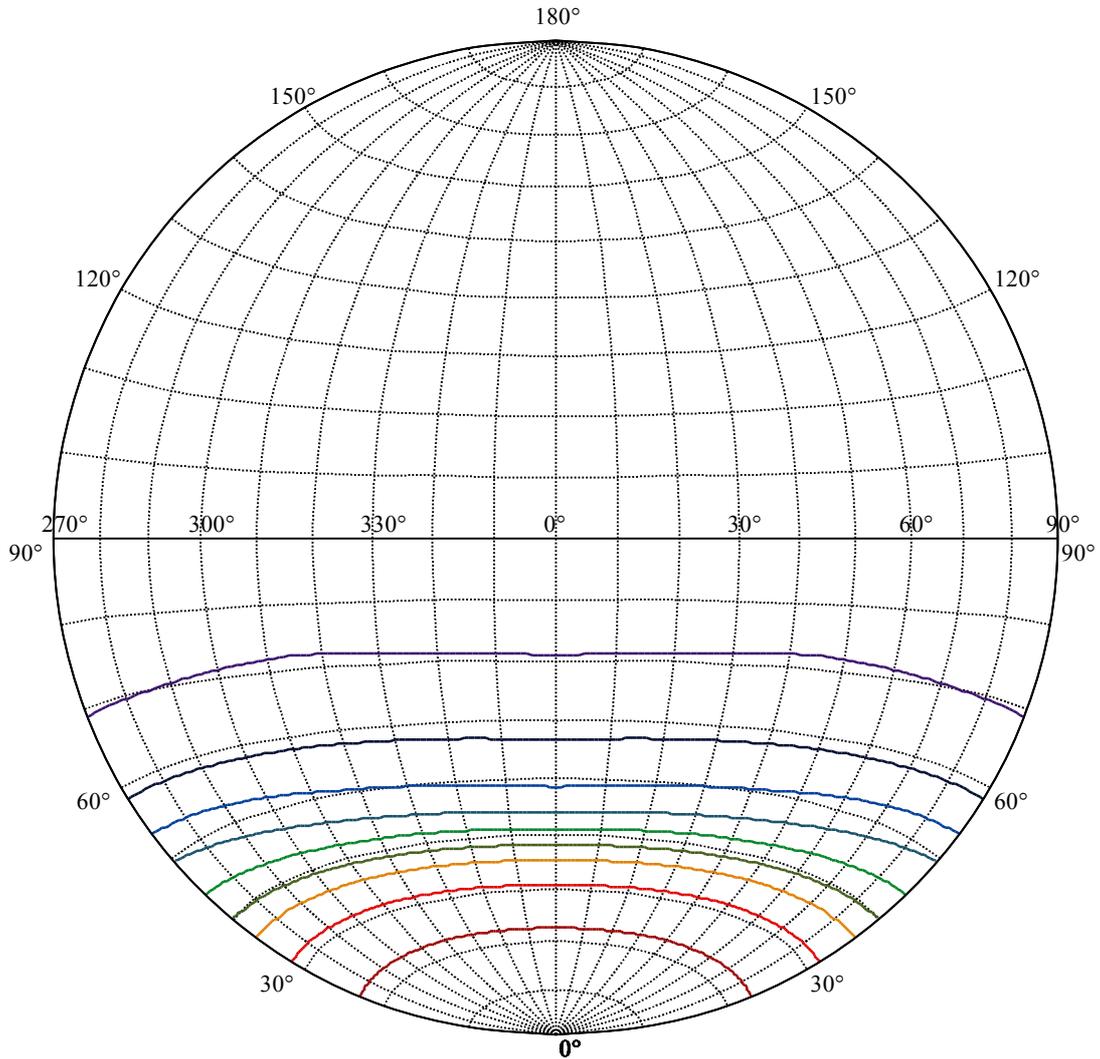


(10%Imax) 235.071	—
(20%Imax) 470.143	—
(30%Imax) 705.214	—
(40%Imax) 940.285	—
(50%Imax) 1175.36	—
(60%Imax) 1410.43	—
(70%Imax) 1645.5	—
(80%Imax) 1880.57	—
(90%Imax) 2115.64	—

Equipment: 1800  
Temperature(°C): 25.0

Date: 2024/1/30  
Humidity(%): 60.0%

Operator:  
Distance(m): 23.30



House

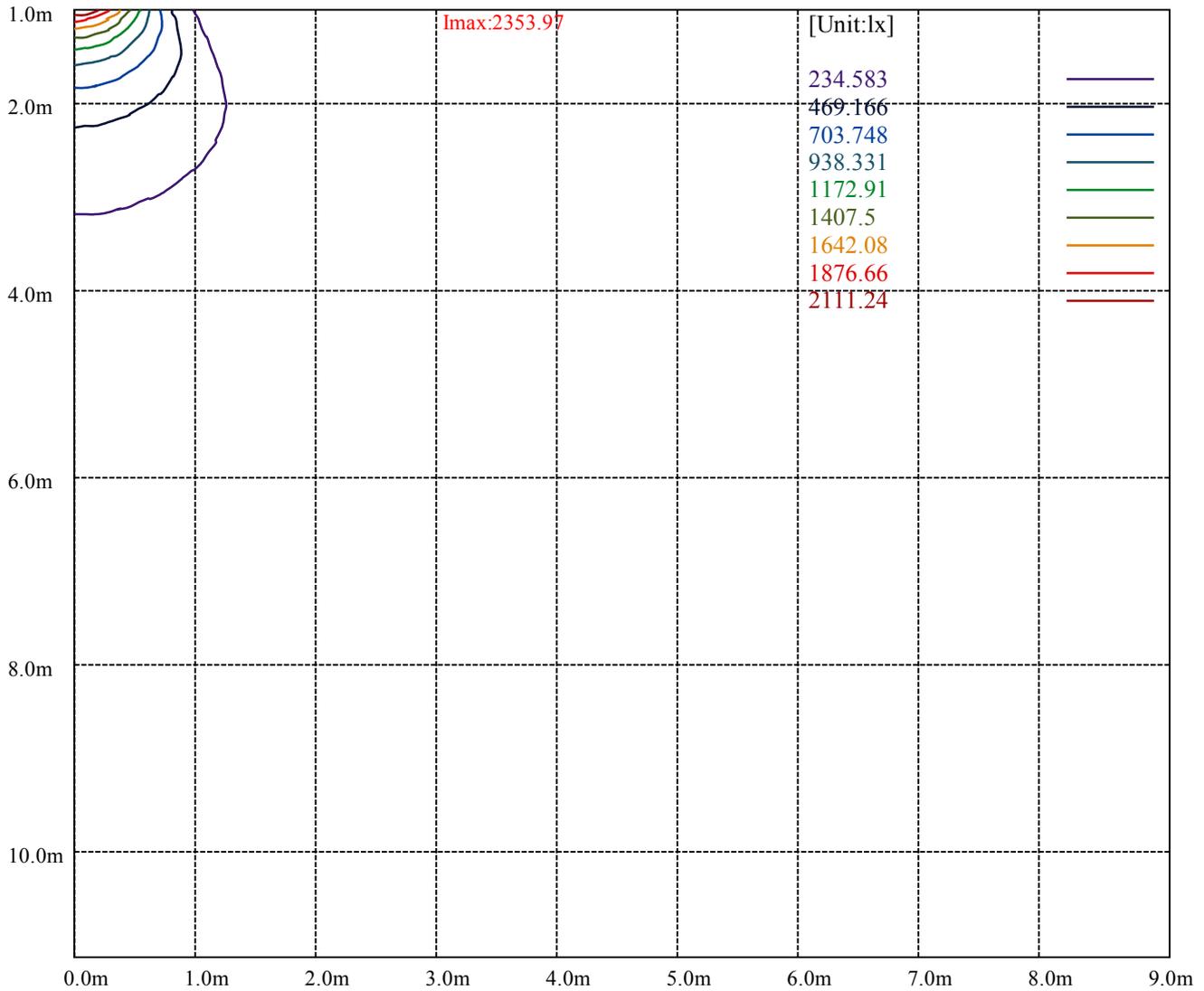
[Unit:cd]

Road

**Imax:2353.97**

(10%Imax) 235.397	—
(20%Imax) 470.794	—
(30%Imax) 706.191	—
(40%Imax) 941.588	—
(50%Imax) 1176.99	—
(60%Imax) 1412.38	—
(70%Imax) 1647.78	—
(80%Imax) 1883.18	—
(90%Imax) 2118.57	—





Luminance Table

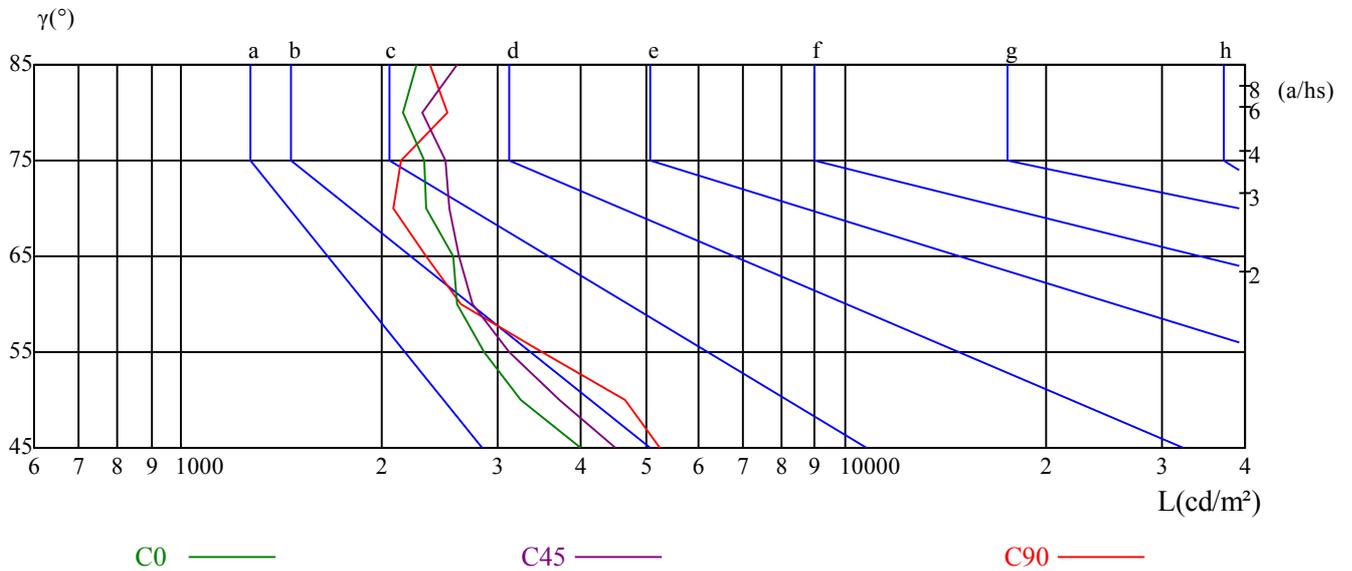
$\gamma$	45	50	55	60	65	70	75	80	85
C0	3987	3249	2857	2602	2572	2338	2324	2154	2253
C45	4516	3711	3113	2749	2611	2535	2496	2302	2603
C90	5244	4662	3497	2643	2344	2079	2136	2516	2364

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
2572	2344	2611	2324	2136	2496	2253	2364	2603

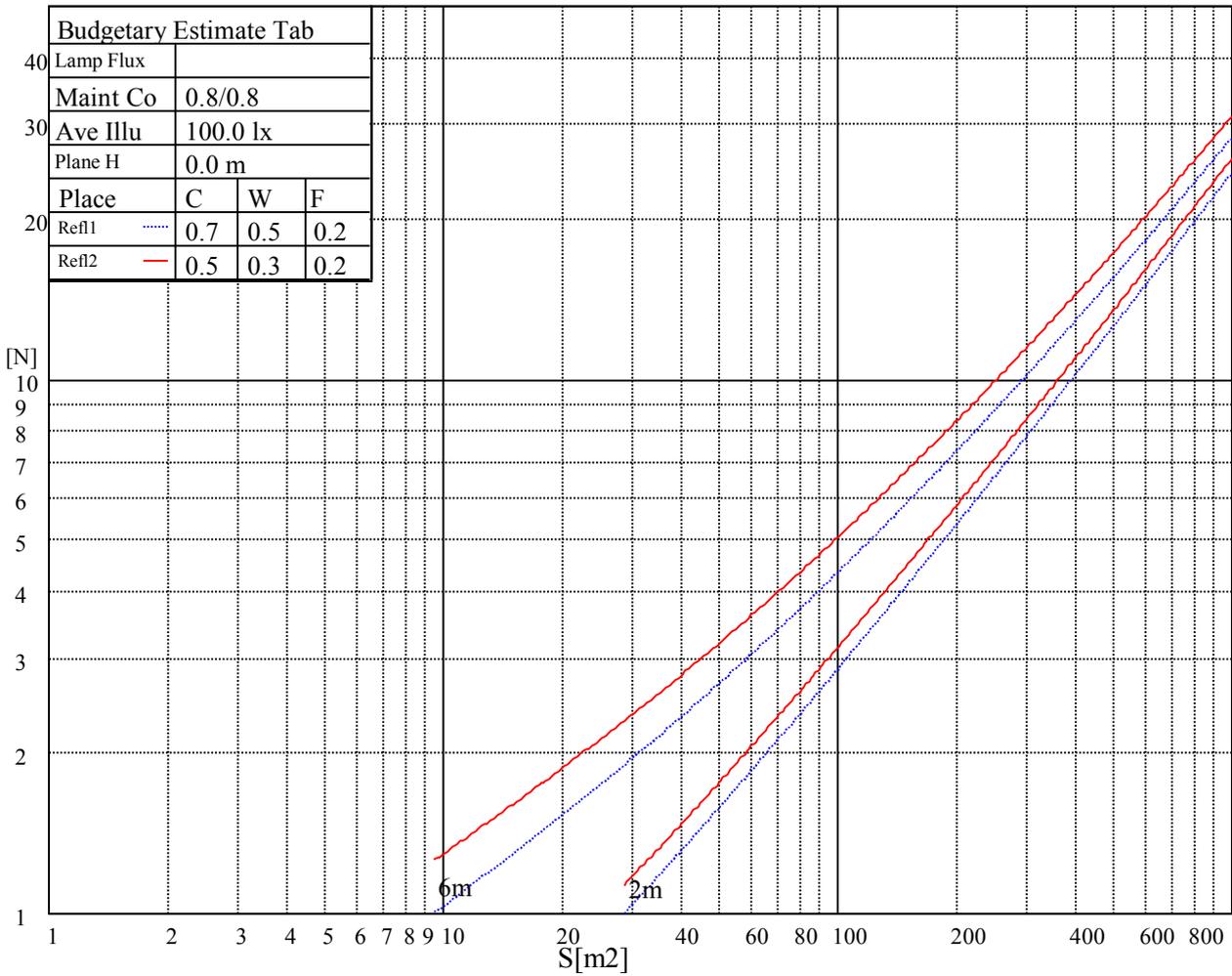
Glare Table

Glare	Quality	Service Values Illuminance(lx)							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

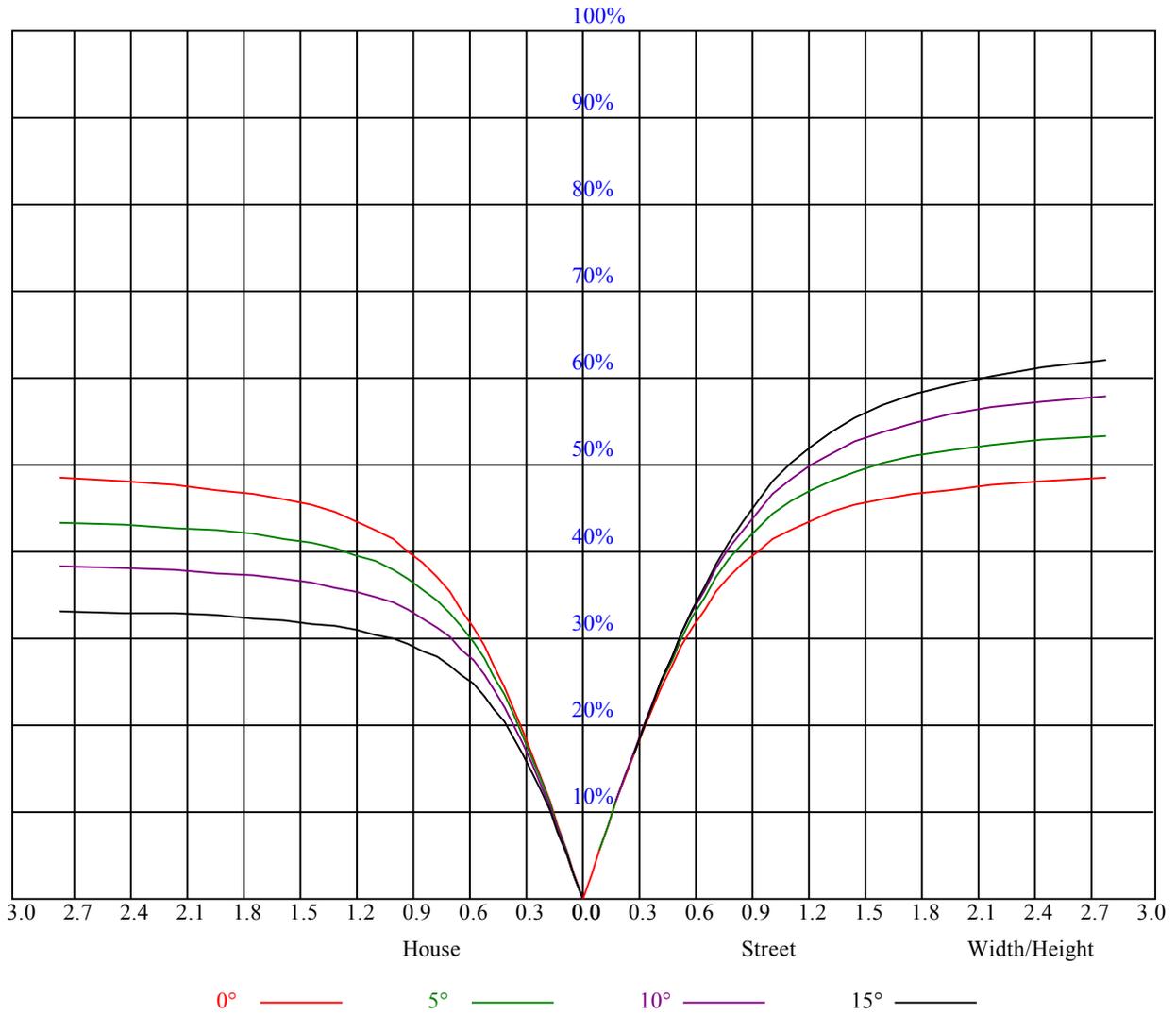
Luminance Limiting Curve



Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	9.27	10.70	9.64	11.01	11.33	8.80	10.23	9.16	10.54	10.85
	3H	10.55	11.83	10.93	12.16	12.53	10.46	11.74	10.84	12.07	12.43
	4H	11.13	12.33	11.53	12.68	13.06	11.14	12.34	11.54	12.69	13.07
	6H	11.73	12.83	12.14	13.20	13.59	11.67	12.78	12.08	13.15	13.54
	8H	11.98	13.03	12.40	13.42	13.82	11.86	12.92	12.29	13.31	13.71
	12H	12.30	13.30	12.73	13.68	14.11	12.14	13.15	12.57	13.53	13.96
4H	2H	9.76	10.96	10.16	11.31	11.69	9.38	10.58	9.78	10.93	11.31
	3H	11.33	12.33	11.74	12.73	13.13	11.29	12.29	11.70	12.69	13.09
	4H	12.07	12.96	12.50	13.38	13.82	12.12	13.02	12.56	13.43	13.88
	6H	12.68	13.46	13.14	13.90	14.37	12.67	13.45	13.13	13.89	14.36
	8H	13.01	13.74	13.47	14.18	14.65	12.93	13.66	13.39	14.10	14.57
	12H	13.36	14.00	13.84	14.48	14.96	13.23	13.88	13.72	14.36	14.83
8H	4H	12.41	13.13	12.87	13.58	14.05	12.45	13.18	12.92	13.62	14.09
	6H	13.20	13.80	13.69	14.29	14.77	13.16	13.76	13.66	14.26	14.73
	8H	13.62	14.16	14.14	14.67	15.16	13.52	14.06	14.03	14.57	15.06
	12H	14.40	14.88	14.91	15.37	15.94	14.30	14.78	14.81	15.27	15.84
12H	4H	12.44	13.09	12.92	13.57	14.04	12.49	13.14	12.97	13.62	14.09
	6H	14.06	13.82	13.80	14.29	14.83	14.03	13.79	13.77	14.26	14.80
	8H	13.77	14.25	14.28	14.74	15.31	13.67	14.15	14.18	14.64	15.21
Variation with the observer position at spacings:											
S = 1.0H		0.3/-0.7					0.5/-0.8				
S = 1.5H		0.8/-1.2					1.1/-1.0				
S = 2.0H		1.8/-1.3					1.5/-1.1				
Standard tables:		BK3					BK3				
Uncorrected UGR		1.1					0.8				



RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.06	1.02	0.99	1.04	1.01	0.98	1.00	0.97	0.94	0.96	0.94	0.92	0.92	0.91	0.89	0.87
2	0.95	0.89	0.84	0.93	0.87	0.83	0.89	0.85	0.81	0.86	0.82	0.79	0.83	0.80	0.77	0.75
3	0.85	0.78	0.72	0.83	0.77	0.71	0.80	0.75	0.70	0.78	0.73	0.69	0.75	0.71	0.68	0.66
4	0.77	0.69	0.63	0.75	0.68	0.62	0.73	0.67	0.62	0.71	0.65	0.61	0.69	0.64	0.60	0.58
5	0.69	0.61	0.55	0.68	0.61	0.55	0.66	0.60	0.55	0.64	0.59	0.54	0.63	0.58	0.54	0.52
6	0.63	0.55	0.49	0.62	0.55	0.49	0.61	0.54	0.49	0.59	0.53	0.48	0.58	0.52	0.48	0.46
7	0.58	0.50	0.44	0.57	0.50	0.44	0.56	0.49	0.44	0.54	0.48	0.44	0.53	0.48	0.43	0.42
8	0.53	0.46	0.40	0.53	0.45	0.40	0.51	0.45	0.40	0.50	0.44	0.40	0.49	0.44	0.39	0.38
9	0.49	0.42	0.37	0.49	0.42	0.37	0.48	0.41	0.36	0.47	0.41	0.36	0.46	0.40	0.36	0.34
10	0.46	0.38	0.34	0.45	0.38	0.34	0.44	0.38	0.33	0.43	0.37	0.33	0.43	0.37	0.33	0.32



Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	2345.83	2334.70	2300.50	2245.94	2172.10	2070.31	1924.82	1680.24	1249.73
45.0	2353.97	2337.68	2302.80	2247.84	2174.14	2077.78	1943.28	1735.08	1326.01
90.0	2350.71	2336.06	2299.95	2247.29	2175.36	2077.91	1950.60	1757.06	1415.31
135.0	2348.54	2337.68	2302.80	2247.84	2174.14	2077.78	1943.28	1735.08	1326.01
180.0	2345.83	2334.70	2300.50	2245.94	2172.10	2070.31	1924.82	1680.24	1249.73
225.0	2353.97	2337.68	2302.80	2247.84	2174.14	2077.78	1943.28	1735.08	1326.01
270.0	2350.71	2336.06	2299.95	2247.29	2175.36	2077.91	1950.60	1757.06	1415.31
315.0	2348.54	2337.68	2302.80	2247.84	2174.14	2077.78	1943.28	1735.08	1326.01
360.0	2345.83	2334.70	2300.50	2245.94	2172.10	2070.31	1924.82	1680.24	1249.73

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	865.37	640.88	502.99	399.30	333.61	245.39	184.58	114.82	60.26
45.0	980.05	732.09	548.05	421.83	338.63	266.15	198.29	122.69	69.63
90.0	1138.17	919.66	615.64	405.54	304.02	218.24	169.65	134.09	63.25
135.0	980.05	732.09	548.05	421.83	338.63	266.15	198.29	122.69	69.63
180.0	865.37	640.88	502.99	399.30	333.61	245.39	184.58	114.82	60.26
225.0	980.05	732.09	548.05	421.83	338.63	266.15	198.29	122.69	69.63
270.0	1138.17	919.66	615.64	405.54	304.02	218.24	169.65	134.09	63.25
315.0	980.05	732.09	548.05	421.83	338.63	266.15	198.29	122.69	69.63
360.0	865.37	640.88	502.99	399.30	333.61	245.39	184.58	114.82	60.26

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	4.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	4.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	4.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C/γ(°)	180.0
0.0	0.00
45.0	0.27
90.0	0.00
135.0	0.27
180.0	0.00
225.0	0.27
270.0	0.00
315.0	0.27
360.0	0.00