
Nata

LumCAT: 3-1944-M
Luminaire: BJB 47.319.2344
Report No: GC2017070305
Test No: NT-0010
LampCAT: Certaflux SLM 1208 L14 G1
Lamp flux(lm): 2321.0
Number of Lamps: 1
Length(mm): 86
Phm Type: C

Voltage(V): 34.3300
Current(A): 0.5000
Power (W): 17.1650
PF: 0.0000
Ballast type: DC
Width(mm): 86
Height(mm): 0

Photometric Results

Lumens(lm): 2127.63
Efficiency(%): 91.67%
Lumens(lm)/Power(W): 123.95
Central intensity(cd): 4535.466
Maximum intensity(cd): 4535.466
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=38.2
 [C90/270]Total=38.2
Field angle(10%Imax): [C0/180]Total=68.1
 [C90/270]Total=68.1
Maximum s/h(1/2): C0_180=0.65 C90_270=0.65
Maximum s/h(1/4): C0_180=0.60 C90_270=0.60
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.67%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.703%

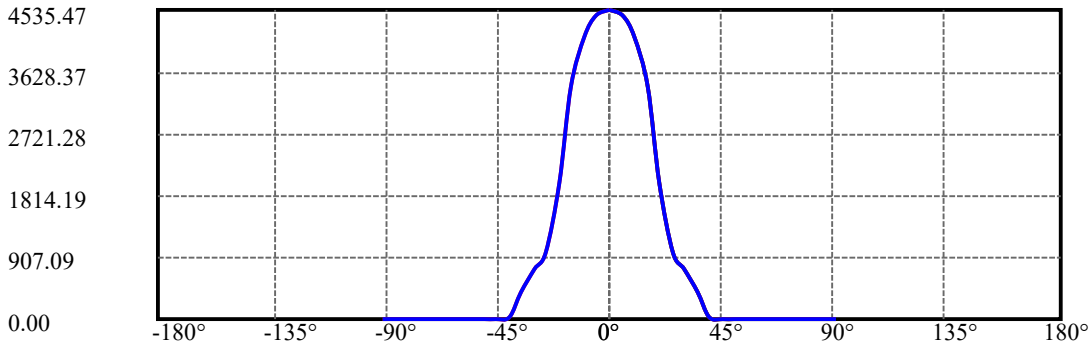
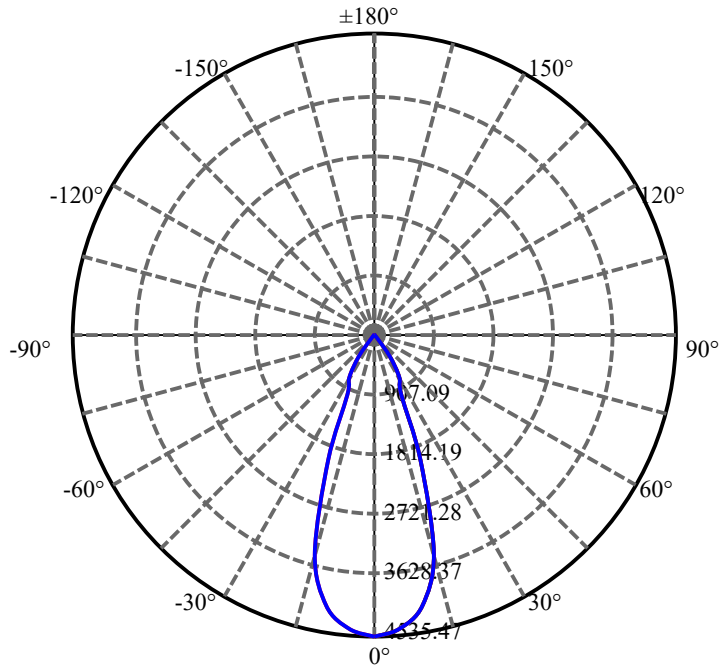
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4535.466	0.000	0	.000%	.000%
5.0	4450.273	107.422	107.422	4.628%	5.049%
10.0	4148.920	307.620	415.042	13.254%	19.507%
15.0	3419.049	448.927	863.969	19.342%	40.607%
20.0	2010.275	447.453	1311.421	19.278%	61.638%
25.0	983.076	313.947	1625.369	13.526%	76.393%
30.0	736.772	217.648	1843.017	9.377%	86.623%
35.0	388.991	165.776	2008.793	7.142%	94.414%
40.0	31.341	70.129	2078.923	3.022%	97.711%
45.0	12.067	8.037	2086.96	.346%	98.088%
50.0	10.101	4.479	2091.439	.193%	98.299%
55.0	9.516	4.265	2095.705	.184%	98.499%
60.0	9.187	4.323	2100.028	.186%	98.703%
65.0	8.978	4.416	2104.444	.190%	98.910%
70.0	8.863	4.517	2108.962	.195%	99.122%
75.0	8.737	4.600	2113.562	.198%	99.339%
80.0	8.658	4.655	2118.216	.201%	99.557%
85.0	8.649	4.703	2122.919	.203%	99.778%
90.0	8.566	4.714	2127.633	.203%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1843.02	79.41%	86.62%
0-40	2078.92	89.57%	97.71%
0-60	2100.03	90.48%	98.70%
0-90	2122.92	91.47%	99.78%
0-120	2122.92	91.47%	99.78%
0-180	2127.63	91.67%	100.00%
60-90	27.21	1.17%	1.28%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.76	1702.11	73.34%	80.00%

ZONAL LUMEN SUMMARY

0-10	415.04
10-20	896.38
20-30	531.60
30-40	235.91
40-50	12.52
50-60	8.59
60-70	8.93
70-80	9.25
80-90	4.70
90-100	0.00
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



C0(Max): —————

C0/C180: —————

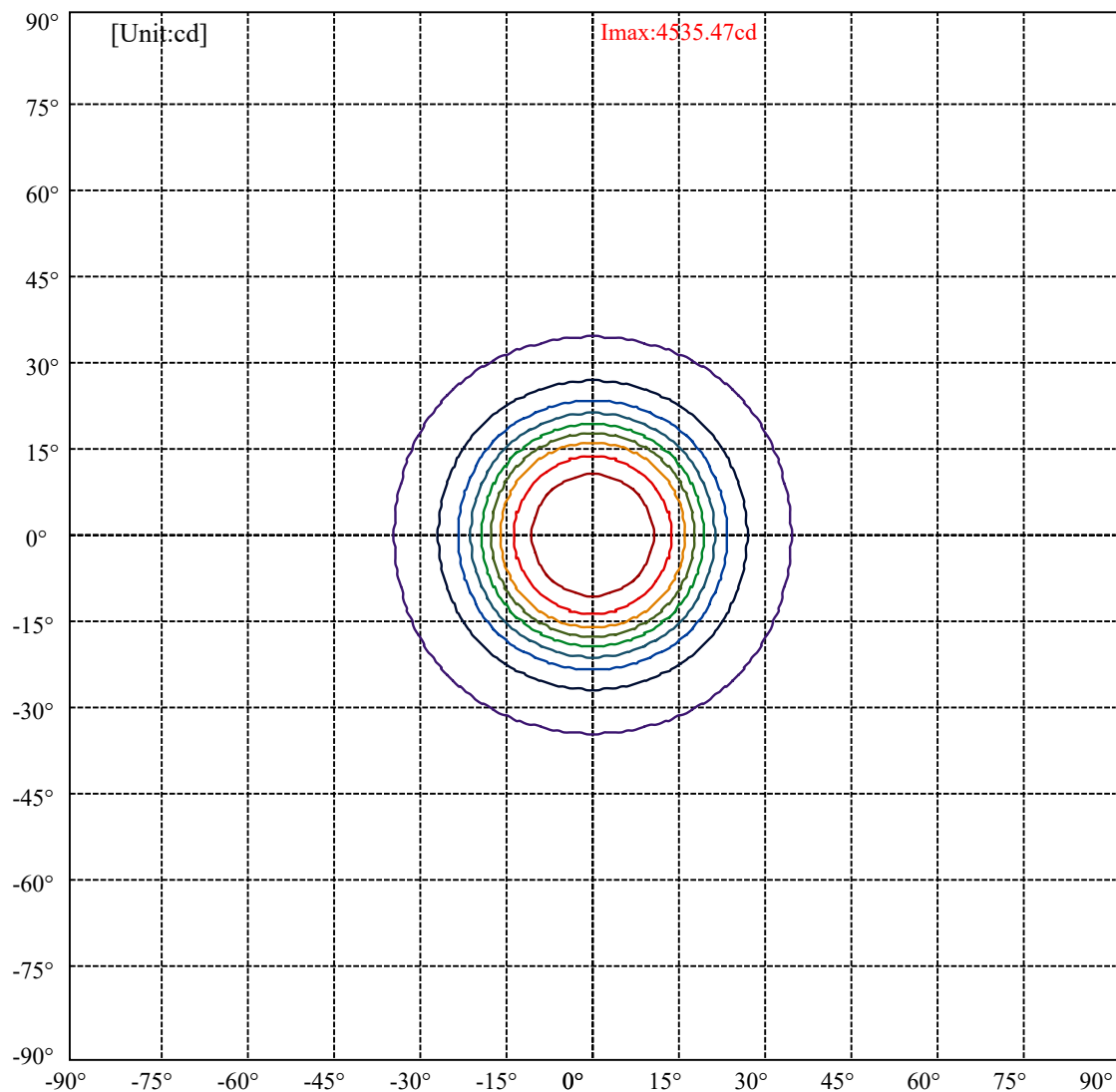
C90/C270: —————

Field angle(10%Imax):C0/180Left:34.1 Right:34.1

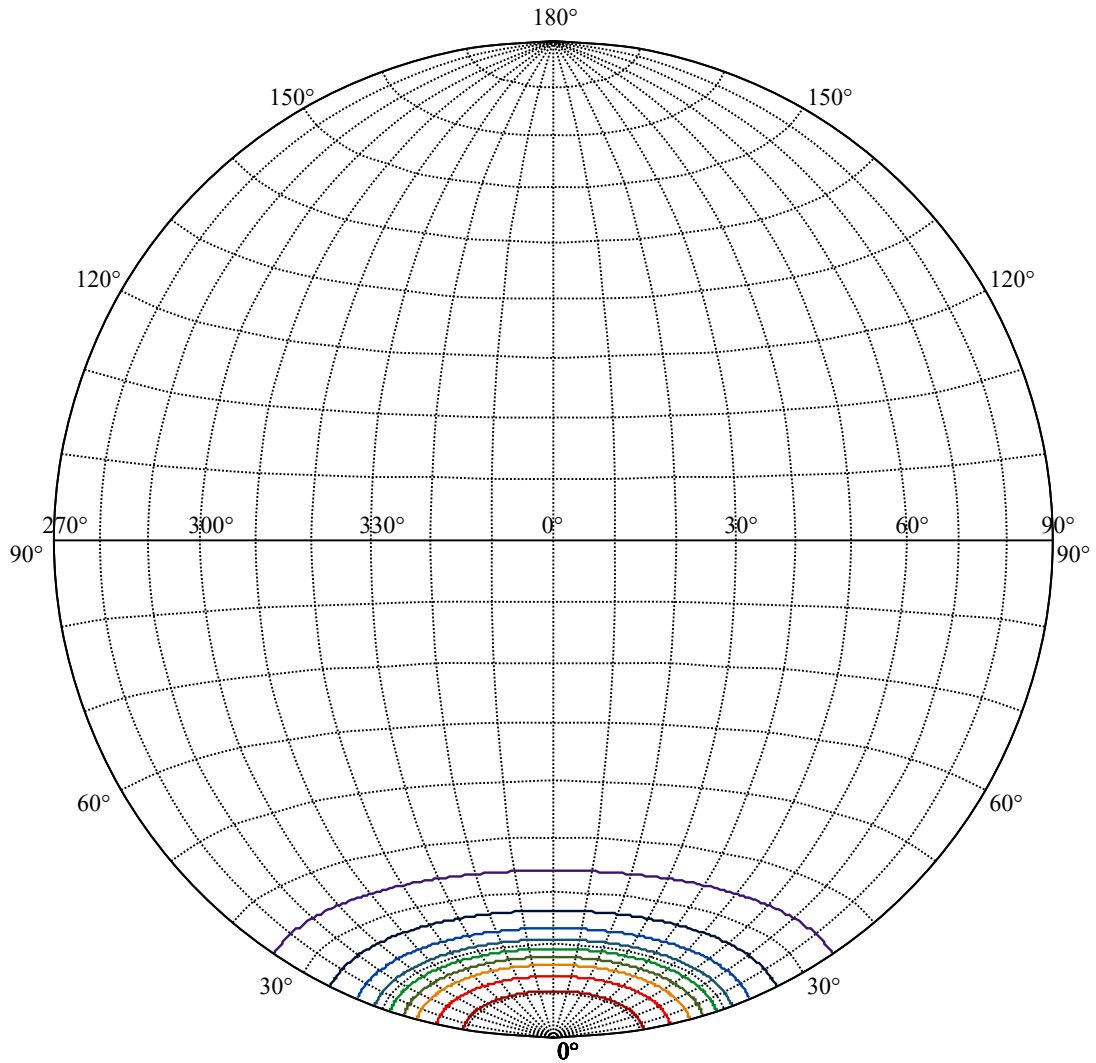
:C90/270Left:34.1 Right:34.1

Beam Angle(50%Imax):C0/180Left:19.1 Right:19.1

:C90/270Left:19.1 Right:19.1



(10%Imax) 453.547	—
(20%Imax) 907.093	—
(30%Imax) 1360.64	—
(40%Imax) 1814.19	—
(50%Imax) 2267.73	—
(60%Imax) 2721.28	—
(70%Imax) 3174.83	—
(80%Imax) 3628.37	—
(90%Imax) 4081.92	—



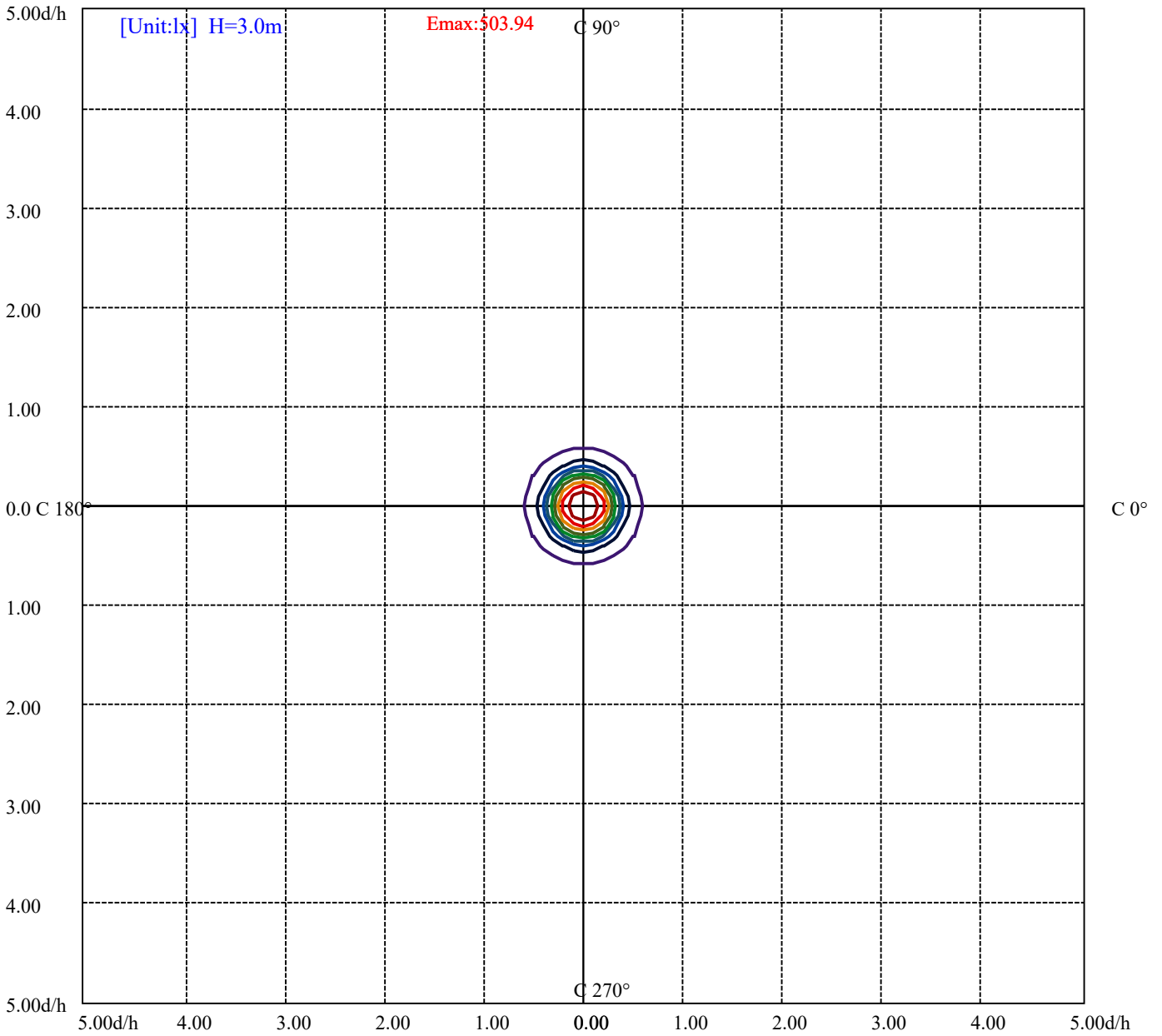
House

[Unit:cd]

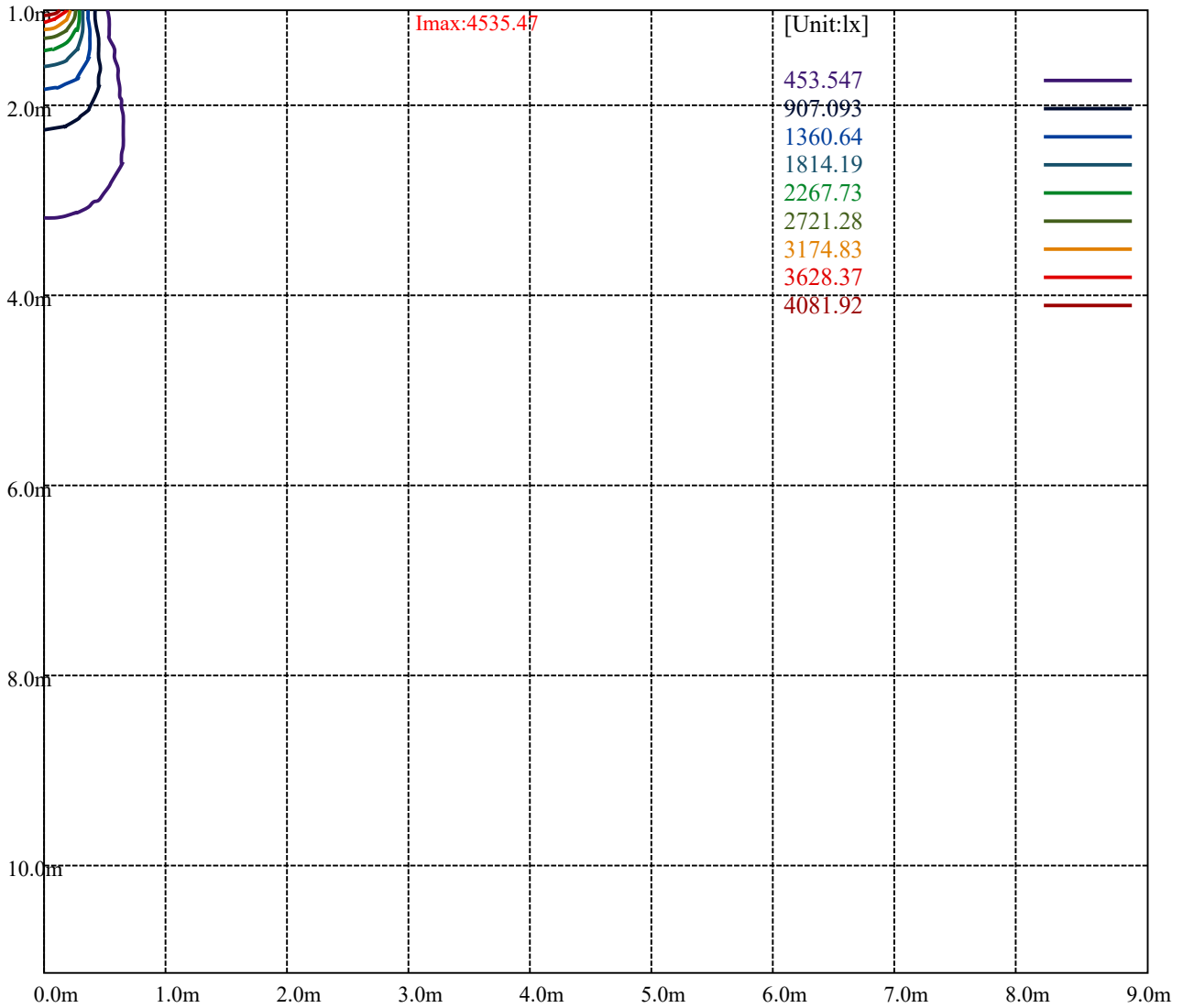
Road

Imax:4535.47

(10%Imax)	453.547	—
(20%Imax)	907.093	—
(30%Imax)	1360.64	—
(40%Imax)	1814.19	—
(50%Imax)	2267.73	—
(60%Imax)	2721.28	—
(70%Imax)	3174.83	—
(80%Imax)	3628.37	—
(90%Imax)	4081.92	—



(10%Emax) 50.394	—
(20%Emax) 100.7881	—
(30%Emax) 151.1822	—
(40%Emax) 201.5767	—
(50%Emax) 251.97	—
(60%Emax) 302.3644	—
(70%Emax) 352.7578	—
(80%Emax) 403.1522	—
(90%Emax) 453.5467	—



Luminance Table

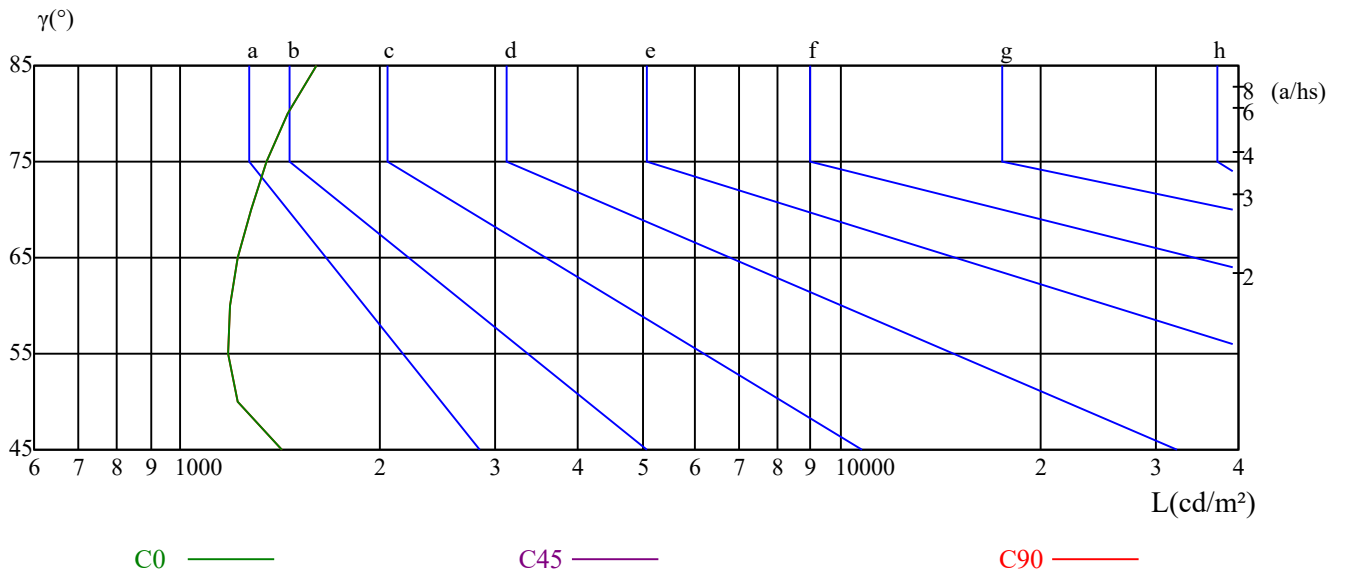
γ	45	50	55	60	65	70	75	80	85
C0	1424	1218	1183	1188	1219	1276	1351	1457	1610
C45	0	0	0	0	0	0	0	0	0
C90	1424	1218	1183	1188	1219	1276	1351	1457	1610

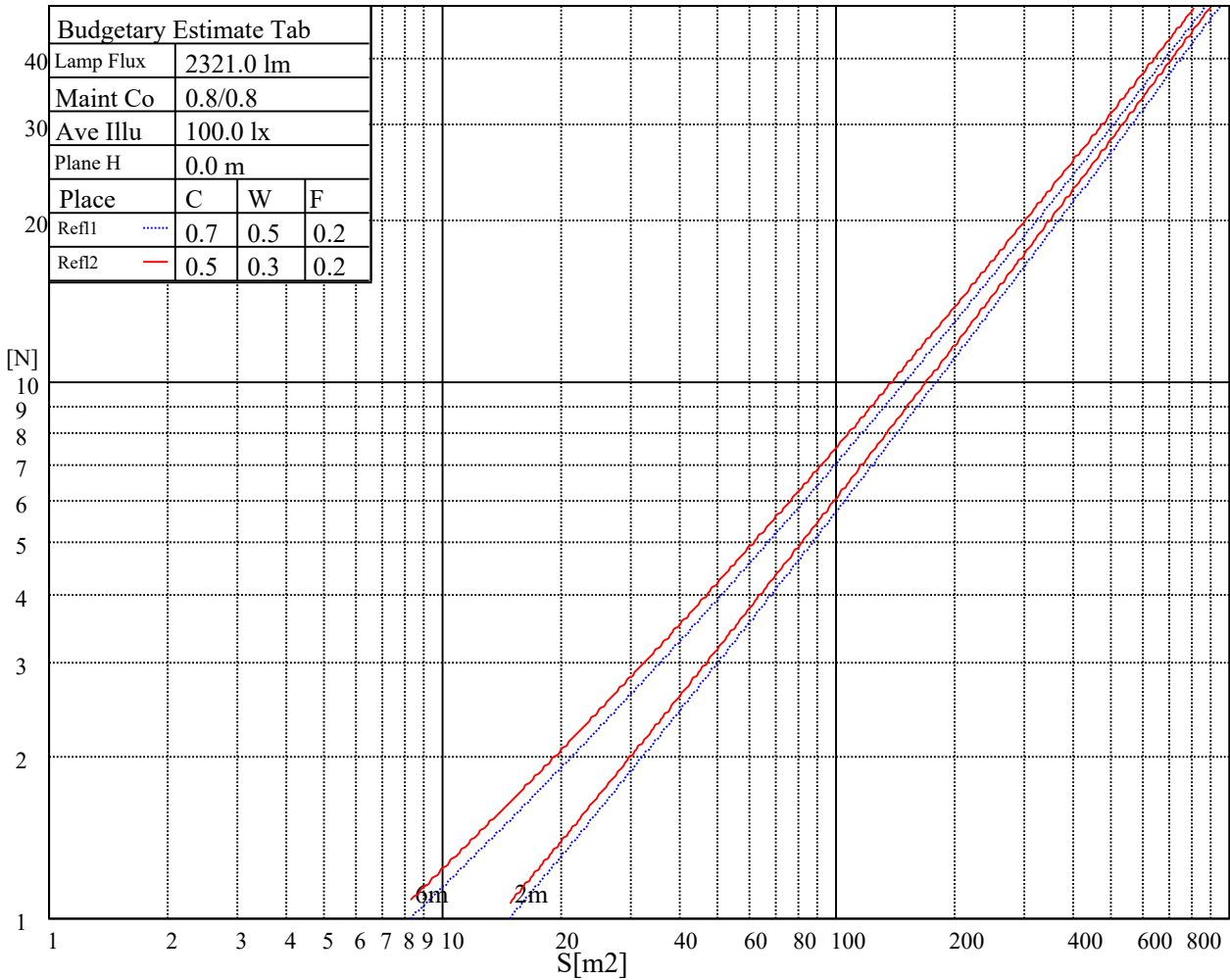
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2940	2940	0	4672	4672	0	13735	13735	0

Glare Table

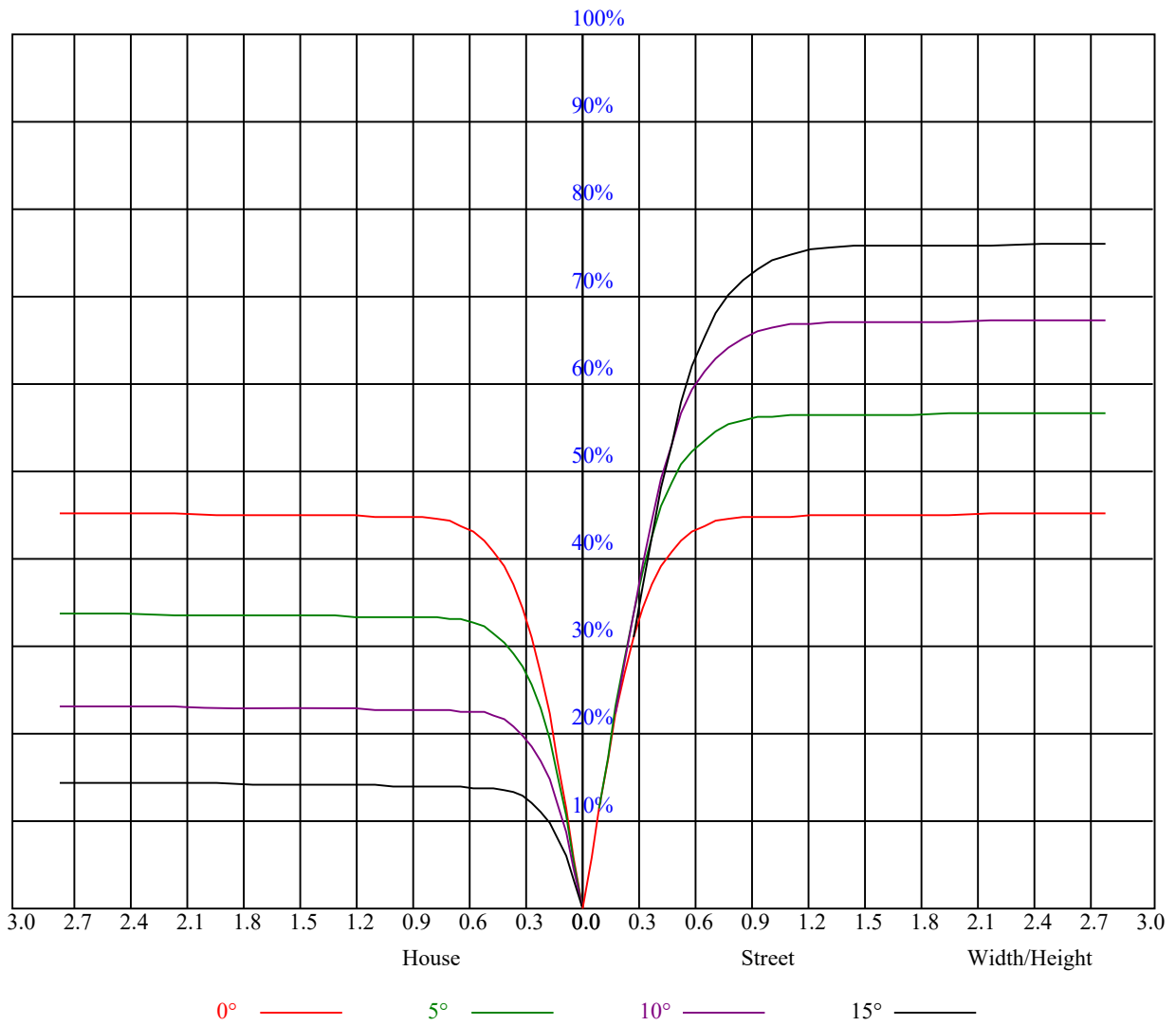
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





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	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	1.00	0.98	1.00	0.98	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.93	0.90	0.95	0.92	0.89	0.92	0.90	0.87	0.89	0.87	0.86	0.87	0.85	0.84	0.82
3	0.91	0.87	0.84	0.90	0.86	0.83	0.88	0.85	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.78
4	0.87	0.82	0.79	0.86	0.82	0.78	0.84	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.82	0.78	0.75	0.82	0.77	0.74	0.80	0.76	0.74	0.79	0.75	0.73	0.77	0.74	0.72	0.71
6	0.79	0.74	0.71	0.78	0.74	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
7	0.75	0.70	0.67	0.75	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
8	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.62
9	0.69	0.64	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.60
10	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.64	0.61	0.58	0.57



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	4543.40	4448.23	4151.05	3489.36	2180.43	1048.48	760.76	439.09	33.11
30.0	4532.82	4456.58	4221.17	3628.48	2395.24	1113.03	768.55	516.45	61.55
60.0	4535.05	4447.68	4188.34	3545.56	2137.02	1037.74	745.84	421.23	27.83
90.0	4532.27	4514.46	4276.83	3726.43	2458.13	1135.29	761.31	519.23	67.12
120.0	4553.97	4488.30	4175.54	3482.68	2039.63	932.28	727.14	403.97	25.43
150.0	4521.14	4512.23	4240.65	3622.36	2245.54	1040.13	758.53	473.04	39.29
180.0	4543.40	4451.01	4130.46	3363.58	1836.50	908.79	715.96	334.24	19.53
210.0	4521.14	4422.08	4068.69	3156.00	1708.50	876.23	714.18	288.11	19.14
240.0	4535.05	4443.78	4151.61	3382.50	1869.34	976.69	731.82	349.49	22.65
270.0	4532.27	4395.92	4027.51	3086.44	1647.29	863.55	698.98	261.90	18.81
300.0	4553.97	4421.52	4122.67	3362.47	1895.49	959.43	735.71	367.30	21.76
330.0	4521.14	4401.49	4032.51	3182.72	1710.17	905.28	722.47	293.84	19.87
360.0	4543.40	4448.23	4151.05	3489.36	2180.43	1048.48	760.76	439.09	33.11
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	12.35	10.13	9.57	9.13	8.96	8.79	8.74	8.63	8.63
30.0	13.19	10.30	9.74	9.35	9.07	8.96	8.85	8.68	8.63
60.0	12.58	10.07	9.52	9.18	8.96	8.85	8.74	8.68	8.68
90.0	13.30	10.18	9.52	9.24	8.96	8.90	8.74	8.63	8.63
120.0	11.69	10.02	9.46	9.18	8.90	8.79	8.68	8.63	8.57
150.0	12.74	10.18	9.57	9.24	8.96	8.85	8.68	8.63	8.63
180.0	11.80	10.07	9.46	9.07	8.96	8.85	8.68	8.68	8.57
210.0	11.46	10.07	9.46	9.24	9.07	8.96	8.79	8.68	8.68
240.0	11.30	10.18	9.52	9.24	9.02	8.96	8.79	8.74	8.63
270.0	10.85	9.91	9.46	9.07	8.96	8.79	8.74	8.63	8.68
300.0	12.02	10.07	9.52	9.18	9.02	8.85	8.79	8.68	8.74
330.0	11.52	10.02	9.41	9.13	8.90	8.79	8.63	8.63	8.74
360.0	12.35	10.13	9.57	9.13	8.96	8.79	8.74	8.63	8.63
C/γ(°)	90.0								
0.0	8.51								
30.0	8.63								
60.0	8.57								
90.0	8.63								
120.0	8.57								
150.0	8.51								
180.0	8.51								
210.0	8.68								
240.0	8.57								
270.0	8.57								
300.0	8.51								
330.0	8.51								
360.0	8.51								