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Nata

LumCAT: 2-1122-A4
Luminaire: 99.02.73.172+92.76.365.00
Report No: NATA0100
Test No: GC2018072504
LampCAT: BRIDGELUX V9 HD
Lamp flux(lm): 1153.0
Number of Lamps: 1
Length(mm): 70
Phm Type: C

Voltage(V): 34.0000
Current(A): 0.2900
Power (W): 9.8600
PF: 0.0000
Ballast type: DC
Width(mm): 70
Height(mm): 0

Photometric Results

Lumens(lm): 1037.02
Efficiency(%): 89.94%
Lumens(lm)/Power(W): 106.58
Central intensity(cd): 2477.538
Maximum intensity(cd): 2477.538
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=33.2
 [C90/270]Total=33.2
Field angle(10%Imax): [C0/180]Total=71.8
 [C90/270]Total=71.8
Maximum s/h(1/2): C0_180=0.55 C90_270=0.55
Maximum s/h(1/4): C0_180=0.53 C90_270=0.53
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.14%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.399%

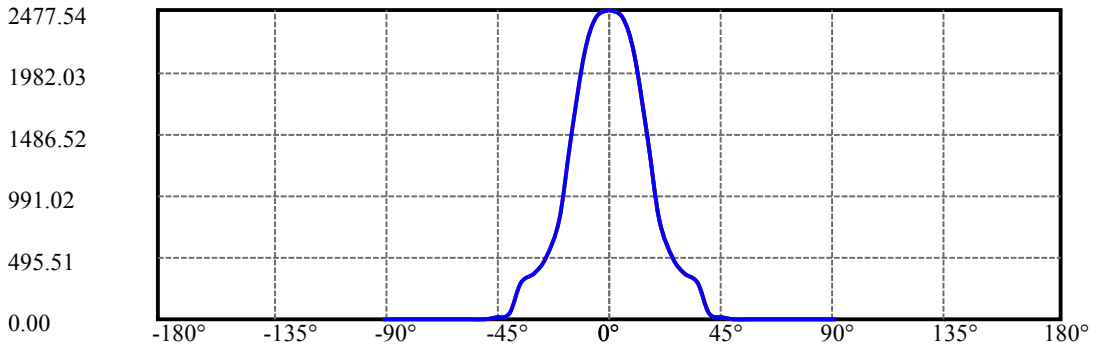
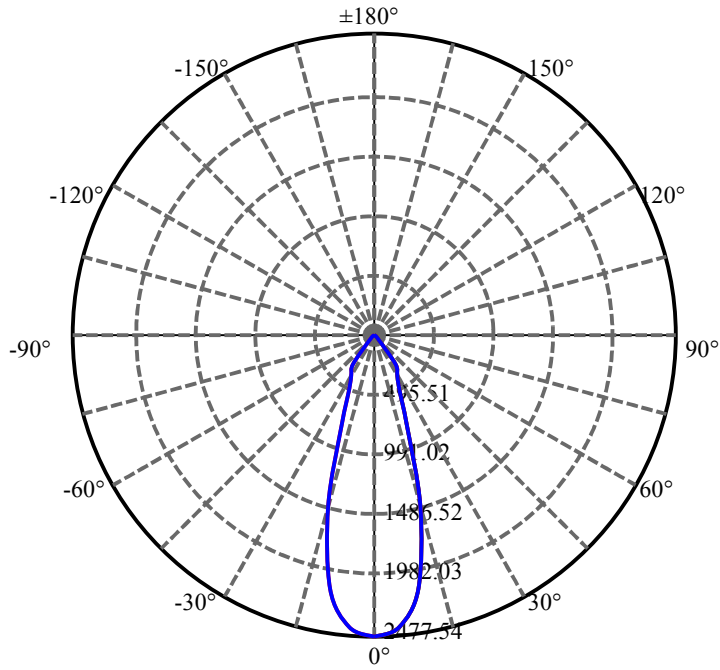
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2477.538	14.816	14.816	1.285%	1.429%
5.0	2414.567	115.352	130.168	10.005%	12.552%
10.0	2120.360	201.822	331.99	17.504%	32.014%
15.0	1446.049	205.149	537.139	17.793%	51.797%
20.0	793.101	148.686	685.825	12.896%	66.134%
25.0	496.134	114.931	800.756	9.968%	77.217%
30.0	375.774	102.988	903.744	8.932%	87.148%
35.0	289.996	91.174	994.918	7.908%	95.940%
40.0	51.264	18.062	1012.98	1.567%	97.682%
45.0	9.428	3.654	1016.635	.317%	98.035%
50.0	5.430	2.280	1018.915	.198%	98.254%
55.0	5.079	2.280	1021.195	.198%	98.474%
60.0	4.879	2.316	1023.511	.201%	98.698%
65.0	4.783	2.376	1025.887	.206%	98.927%
70.0	4.694	2.418	1028.305	.210%	99.160%
75.0	4.645	2.460	1030.765	.213%	99.397%
80.0	4.604	2.485	1033.25	.216%	99.637%
85.0	4.590	2.507	1035.756	.217%	99.879%
90.0	4.597	1.260	1037.016	.109%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	903.74	78.38%	87.15%
0-40	1012.98	87.86%	97.68%
0-60	1023.51	88.77%	98.70%
0-90	1035.76	89.83%	99.88%
0-120	1035.76	89.83%	99.88%
0-180	1037.02	89.94%	100.00%
60-90	14.56	1.26%	1.40%
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%
0-26.40	829.61	71.95%	80.00%

ZONAL LUMEN SUMMARY

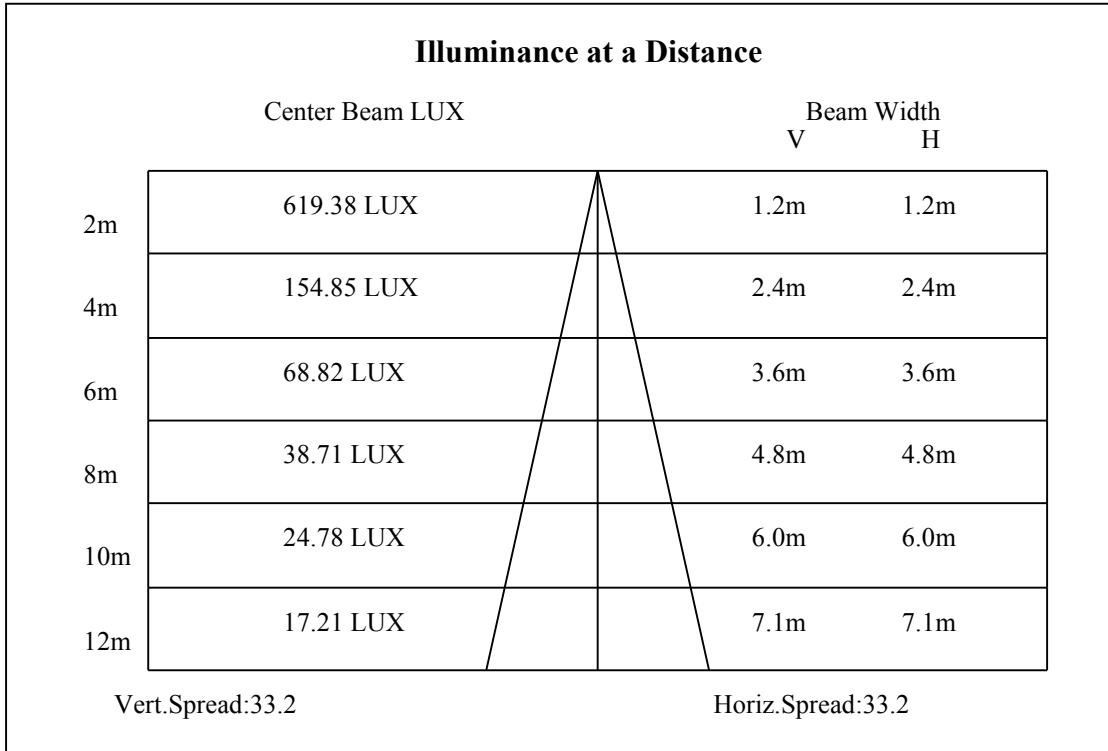
0-10	331.99
10-20	353.83
20-30	217.92
30-40	109.24
40-50	5.93
50-60	4.60
60-70	4.79
70-80	4.94
80-90	2.51
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

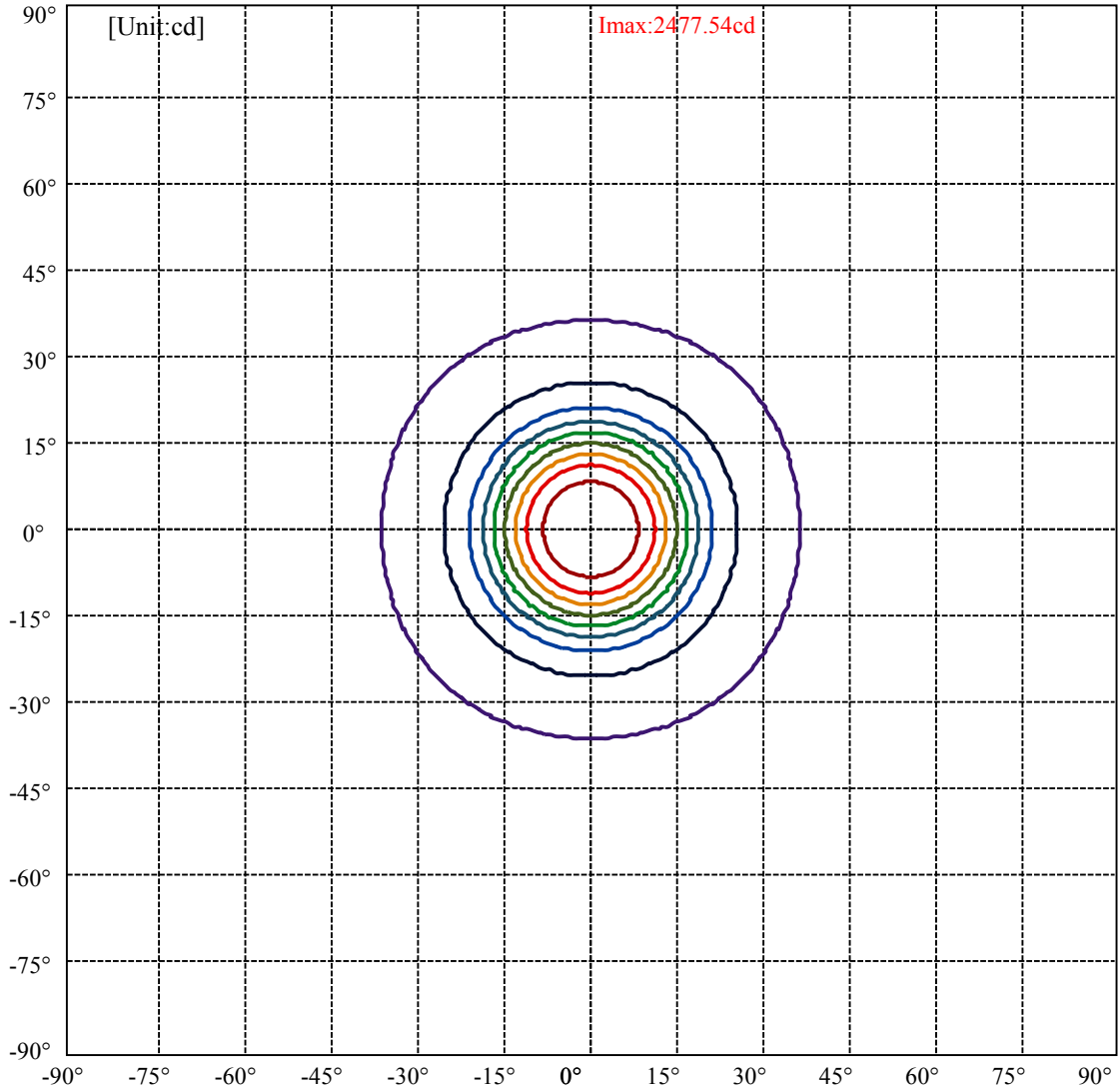


C0(Max): ———
C0/C180: ———
C90/C270: ———

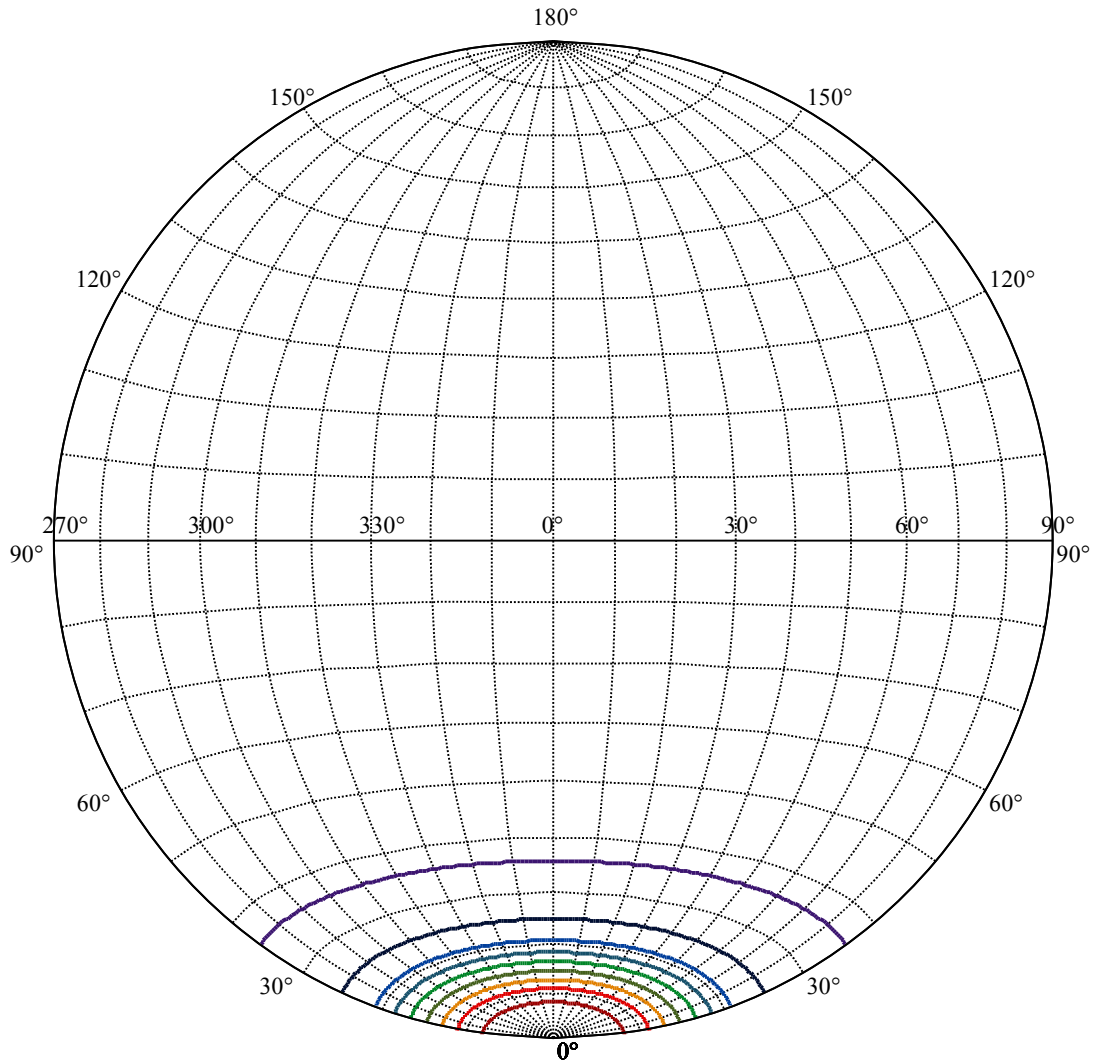
Field angle(10%Imax):C0/180Left:35.9 Right:35.9
:C90/270Left:35.9 Right:35.9

Beam Angle(50%Imax):C0/180Left:16.6 Right:16.6
:C90/270Left:16.6 Right:16.6





(10%Imax) 247.754	—
(20%Imax) 495.508	—
(30%Imax) 743.261	—
(40%Imax) 991.015	—
(50%Imax) 1238.77	—
(60%Imax) 1486.52	—
(70%Imax) 1734.28	—
(80%Imax) 1982.03	—
(90%Imax) 2229.78	—



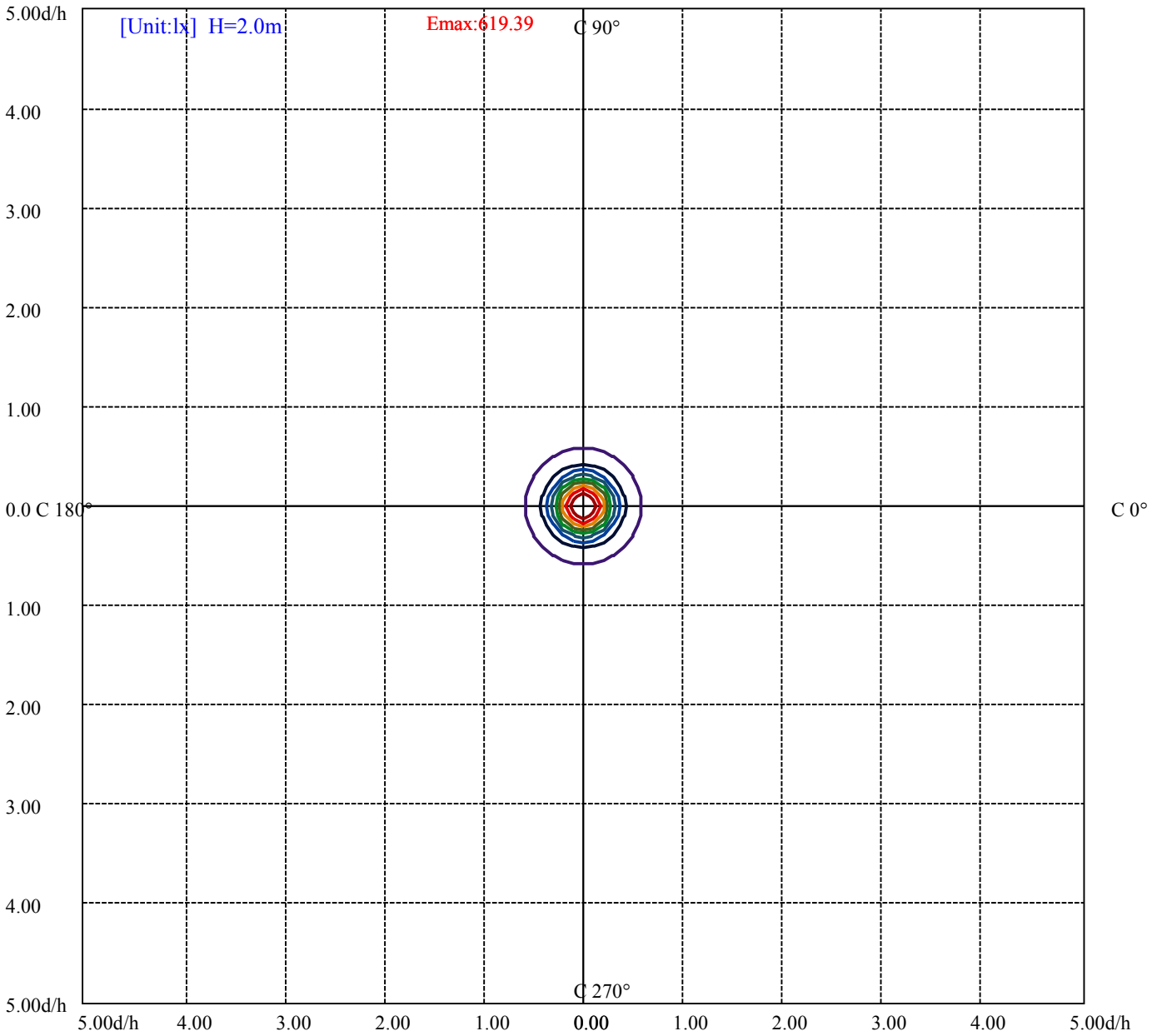
House

[Unit:cd]

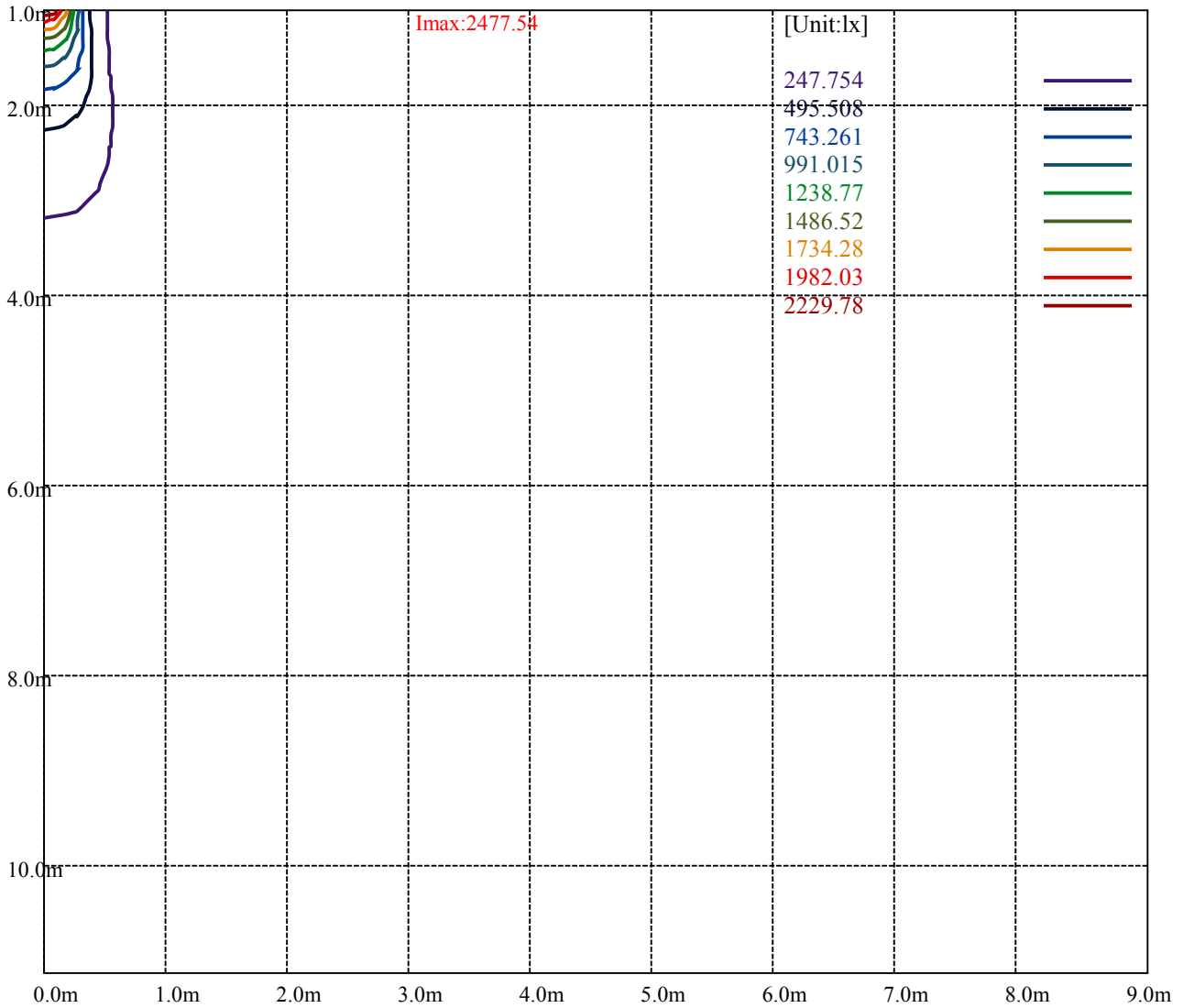
Road

Imax:2477.54

(10%Imax) 247.754	—
(20%Imax) 495.508	—
(30%Imax) 743.261	—
(40%Imax) 991.015	—
(50%Imax) 1238.77	—
(60%Imax) 1486.52	—
(70%Imax) 1734.28	—
(80%Imax) 1982.03	—
(90%Imax) 2229.78	—



(10%Emax) 61.9385	—
(20%Emax) 123.8767	—
(30%Emax) 185.8152	—
(40%Emax) 247.7535	—
(50%Emax) 309.6925	—
(60%Emax) 371.63	—
(70%Emax) 433.57	—
(80%Emax) 495.5075	—
(90%Emax) 557.445	—



Luminance Table

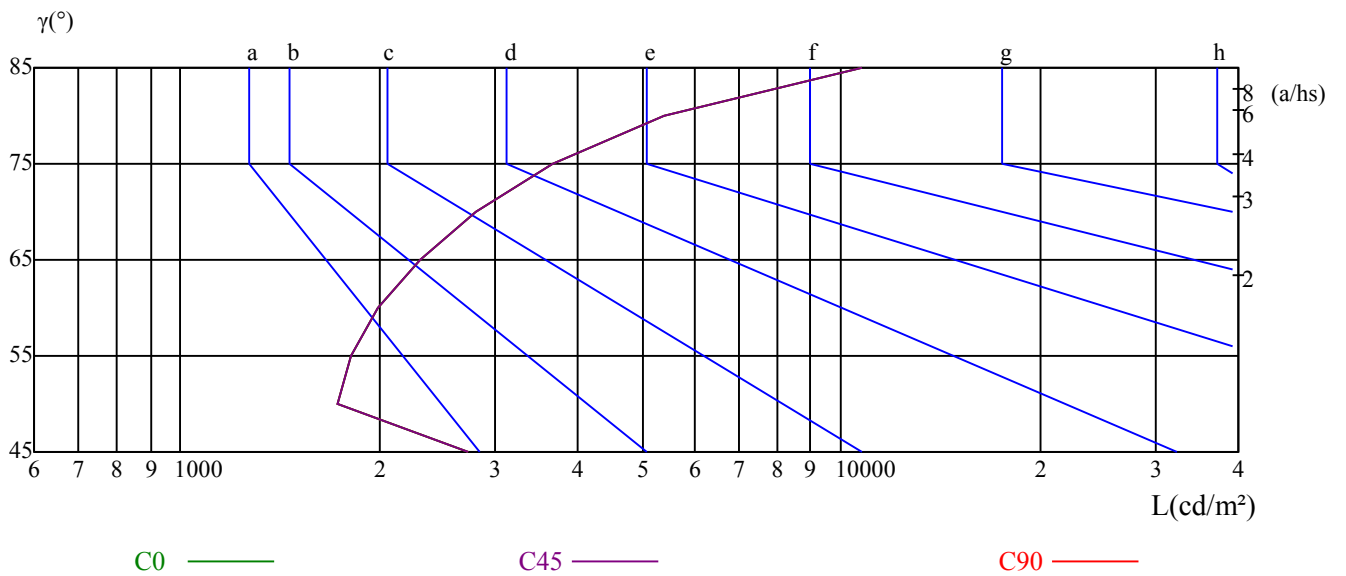
γ	45	50	55	60	65	70	75	80	85
C0	2721	1724	1807	1992	2310	2801	3663	5411	10749
C45	2721	1724	1807	1992	2310	2801	3663	5411	10749
C90	2721	1724	1807	1992	2310	2801	3663	5411	10749

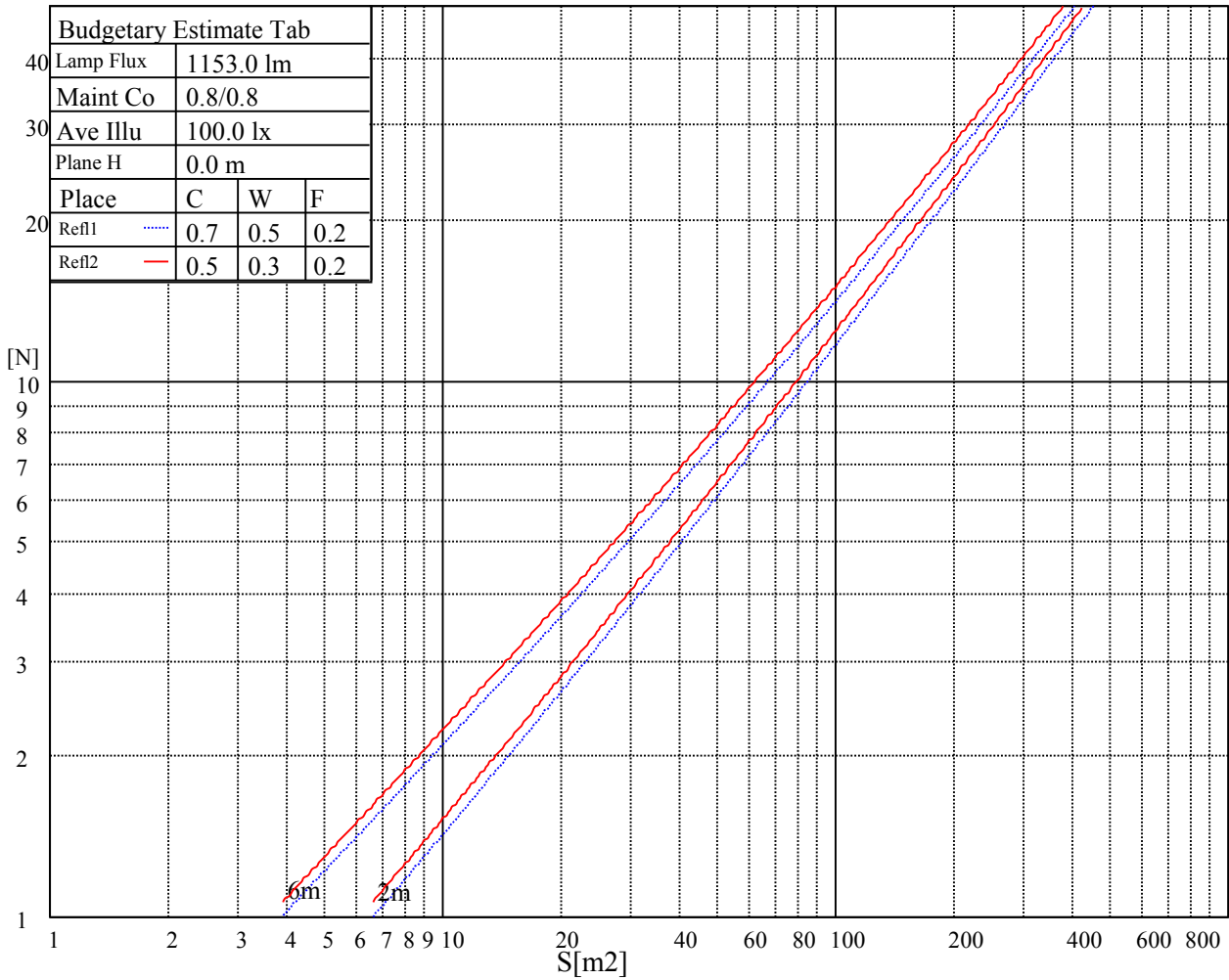
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2310	2310	2310	3663	3663	3663	10749	10749	10749

Glare Table

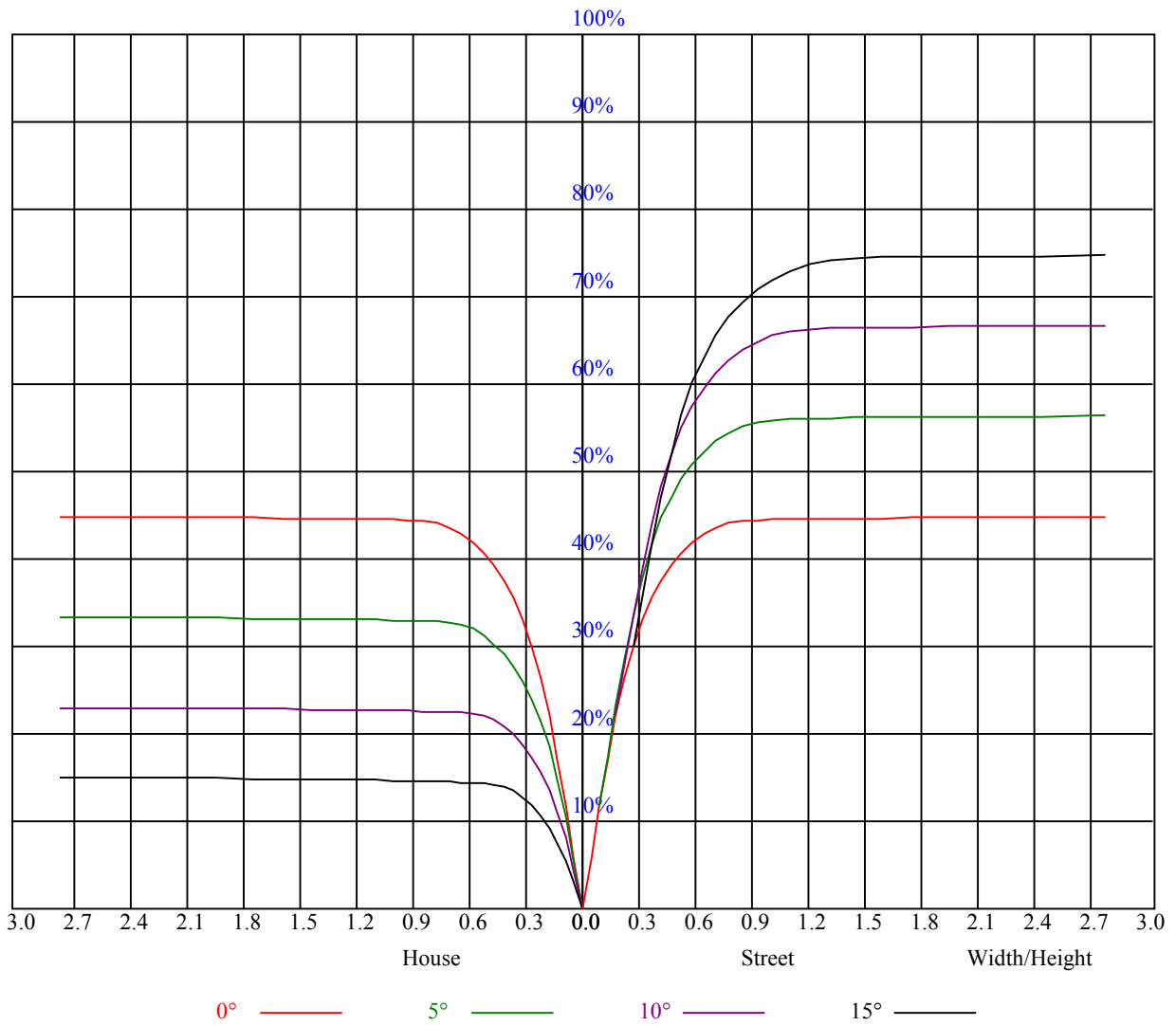
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.00	0.98	0.96	0.98	0.96	0.94	0.95	0.93	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.95	0.92	0.89	0.93	0.90	0.88	0.90	0.88	0.86	0.88	0.86	0.84	0.85	0.84	0.82	0.81
3	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.84	0.82	0.80	0.82	0.80	0.79	0.77
4	0.86	0.82	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.78	0.76	0.80	0.77	0.75	0.74
5	0.82	0.78	0.74	0.81	0.77	0.74	0.80	0.76	0.74	0.78	0.75	0.73	0.77	0.74	0.72	0.71
6	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.68
7	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
8	0.73	0.69	0.66	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64
9	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.62	0.61
10	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.66	0.63	0.60	0.59



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	2474.79	2394.40	2047.55	1291.62	659.03	472.38	361.72	296.20	15.47
45.0	2481.39	2365.22	1980.93	1176.56	619.94	446.51	350.71	286.29	14.09
90.0	2474.23	2364.67	1995.24	1088.30	620.93	450.53	346.69	196.66	15.58
135.0	2479.74	2438.45	2215.47	1704.00	886.96	538.45	390.90	320.98	88.26
180.0	2474.79	2432.39	2192.90	1741.98	944.00	528.43	395.80	325.60	70.03
225.0	2481.39	2461.57	2256.21	1770.61	1031.98	541.70	400.15	332.98	105.60
270.0	2474.23	2461.57	2231.99	1733.73	932.66	529.09	400.26	337.50	84.57
315.0	2479.74	2398.26	2042.59	1061.60	649.34	461.98	359.96	223.75	16.52
360.0	2474.79	2394.40	2047.55	1291.62	659.03	472.38	361.72	296.20	15.47

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	7.98	5.29	4.96	4.79	4.68	4.62	4.57	4.57	4.57
45.0	7.87	5.18	4.96	4.79	4.73	4.68	4.62	4.62	4.57
90.0	9.08	5.23	5.01	4.90	4.96	4.68	4.73	4.62	4.68
135.0	12.55	5.45	5.12	4.90	4.73	4.68	4.62	4.57	4.51
180.0	9.36	5.56	5.18	4.90	4.73	4.62	4.57	4.57	4.57
225.0	10.57	5.78	5.18	4.96	4.79	4.73	4.68	4.62	4.62
270.0	10.57	5.62	5.18	4.96	4.84	4.79	4.68	4.62	4.62
315.0	7.43	5.34	5.07	4.84	4.79	4.73	4.68	4.62	4.57
360.0	7.98	5.29	4.96	4.79	4.68	4.62	4.57	4.57	4.57

C/γ(°)	90.0
0.0	4.62
45.0	4.57
90.0	4.57
135.0	4.57
180.0	4.62
225.0	4.73
270.0	4.57
315.0	4.51
360.0	4.62