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Nata

LumCAT: 3-1544-E	
Luminaire: 92.76.263.00	
Report No: NATA0100	Voltage(V): 33.0000
Test No:	Current(A): 0.5500
LampCAT: brideglux VERO 13	Power (W): 18.1500
Lamp flux(lm): 1556.0	PF: 0.0000
Number of Lamps: 1	Ballast type:
Length(mm): 88	Width(mm): 88
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1432.72
Efficiency(%): 92.08%
Lumens(lm)/Power(W): 79.54
Central intensity(cd): 2048.373
Maximum intensity(cd): 2048.373
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=47.5
 [C90/270]Total=47.5
Field angle(10%Imax): [C0/180]Total=83.9
 [C90/270]Total=83.9
Maximum s/h(1/2): C0_180=0.74 C90_270=0.74
Maximum s/h(1/4): C0_180=0.76 C90_270=0.76
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.78%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.027%

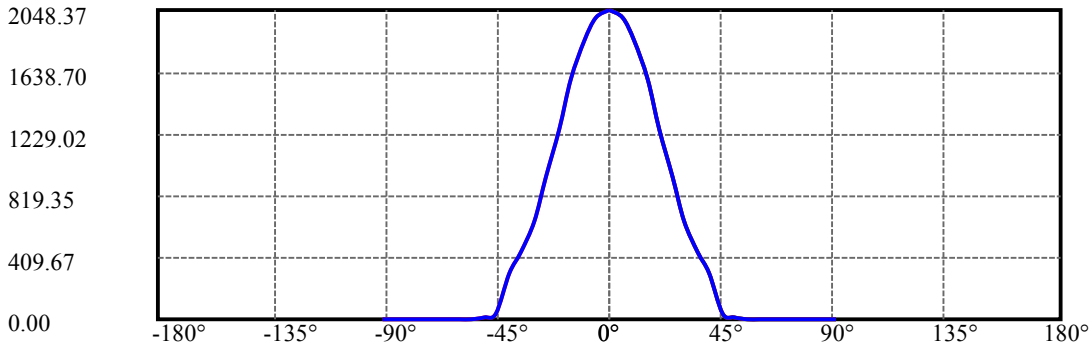
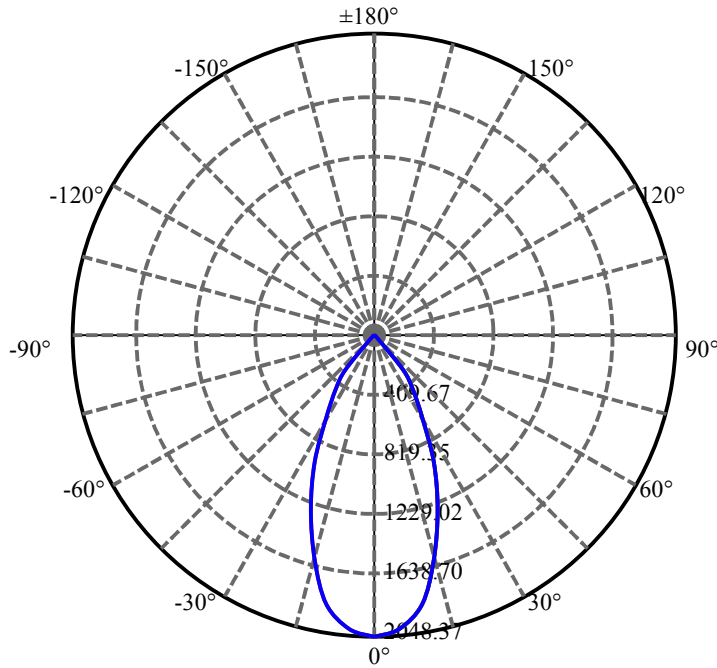
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2048.373	12.250	12.25	.787%	.855%
5.0	1999.098	95.504	107.753	6.138%	7.521%
10.0	1848.794	175.974	283.727	11.309%	19.803%
15.0	1585.005	224.862	508.589	14.451%	35.498%
20.0	1260.757	236.359	744.948	15.190%	51.995%
25.0	943.233	218.503	963.451	14.043%	67.246%
30.0	645.523	176.918	1140.369	11.370%	79.594%
35.0	451.201	141.857	1282.226	9.117%	89.496%
40.0	307.662	108.400	1390.626	6.967%	97.062%
45.0	40.742	15.791	1406.417	1.015%	98.164%
50.0	7.226	3.034	1409.451	.195%	98.376%
55.0	6.228	2.797	1412.248	.180%	98.571%
60.0	6.063	2.878	1415.126	.185%	98.772%
65.0	5.987	2.974	1418.1	.191%	98.979%
70.0	5.987	3.084	1421.184	.198%	99.195%
75.0	6.015	3.185	1424.369	.205%	99.417%
80.0	6.159	3.325	1427.694	.214%	99.649%
85.0	6.242	3.408	1431.103	.219%	99.887%
90.0	5.919	1.622	1432.725	.104%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1140.37	73.29%	79.59%
0-40	1390.63	89.37%	97.06%
0-60	1415.13	90.95%	98.77%
0-90	1431.10	91.97%	99.89%
0-120	1431.10	91.97%	99.89%
0-180	1432.72	92.08%	100.00%
60-90	18.85	1.21%	1.32%
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%
0-30.20	1146.18	73.66%	80.00%

ZONAL LUMEN SUMMARY

0-10	283.73
10-20	461.22
20-30	395.42
30-40	250.26
40-50	18.83
50-60	5.67
60-70	6.06
70-80	6.51
80-90	3.41
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: —————

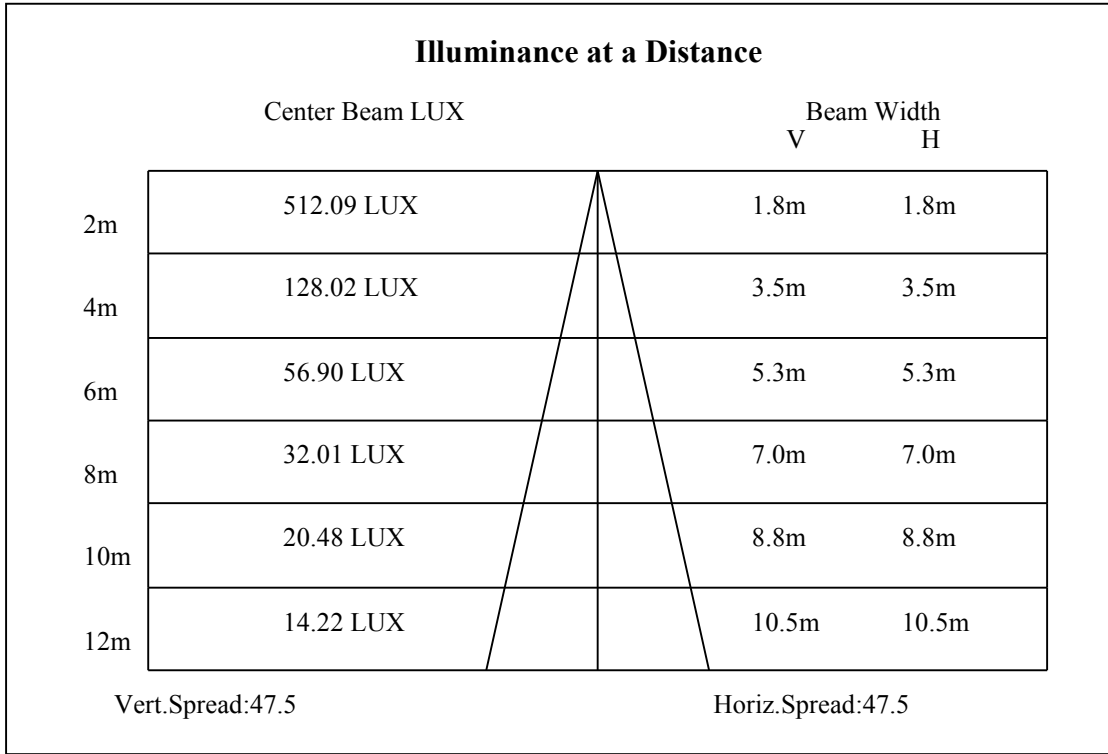
C90/C270: —————

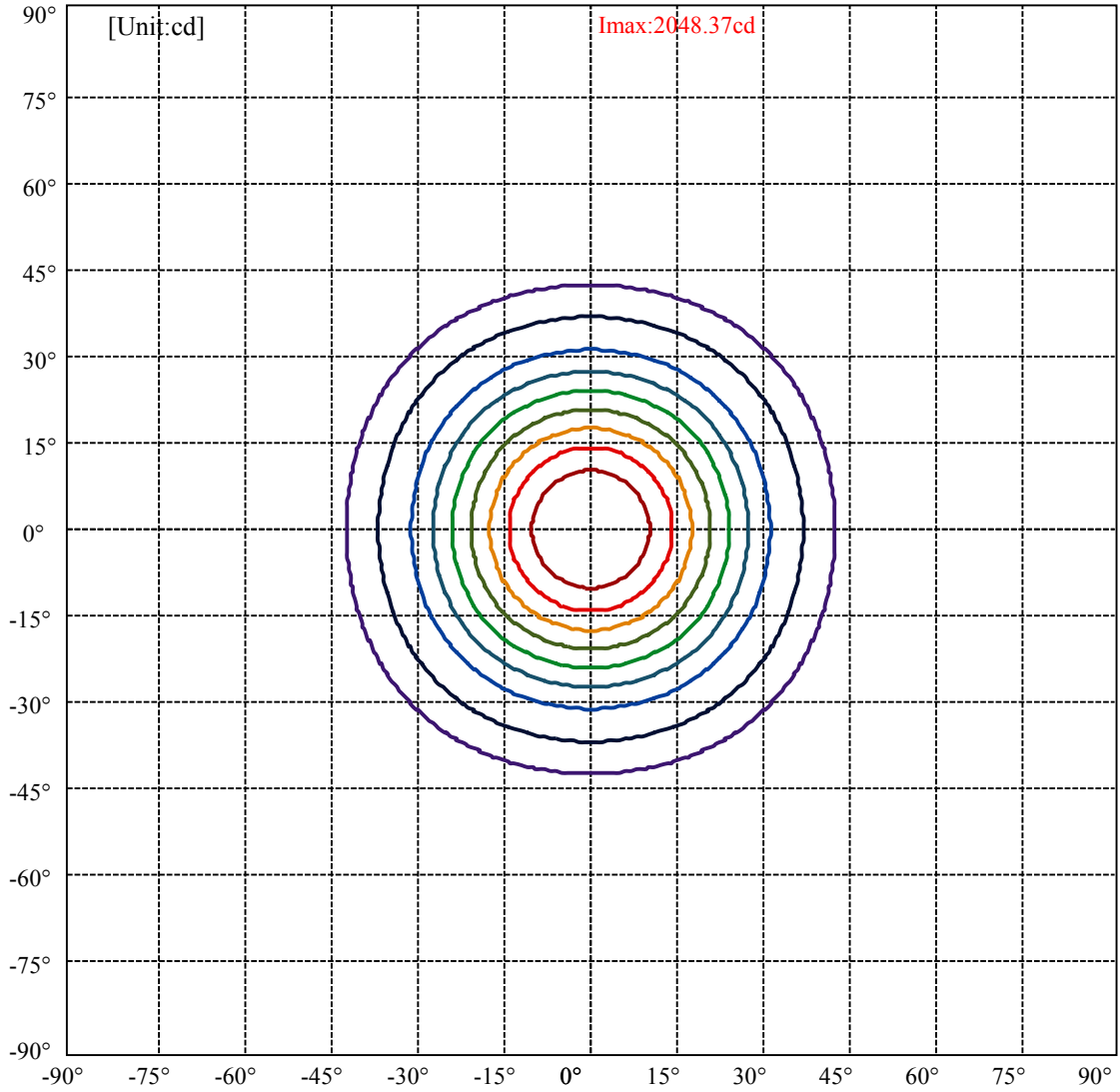
Field angle(10%Imax):C0/180Left:41.9 Right:41.9

:C90/270Left:41.9 Right:41.9

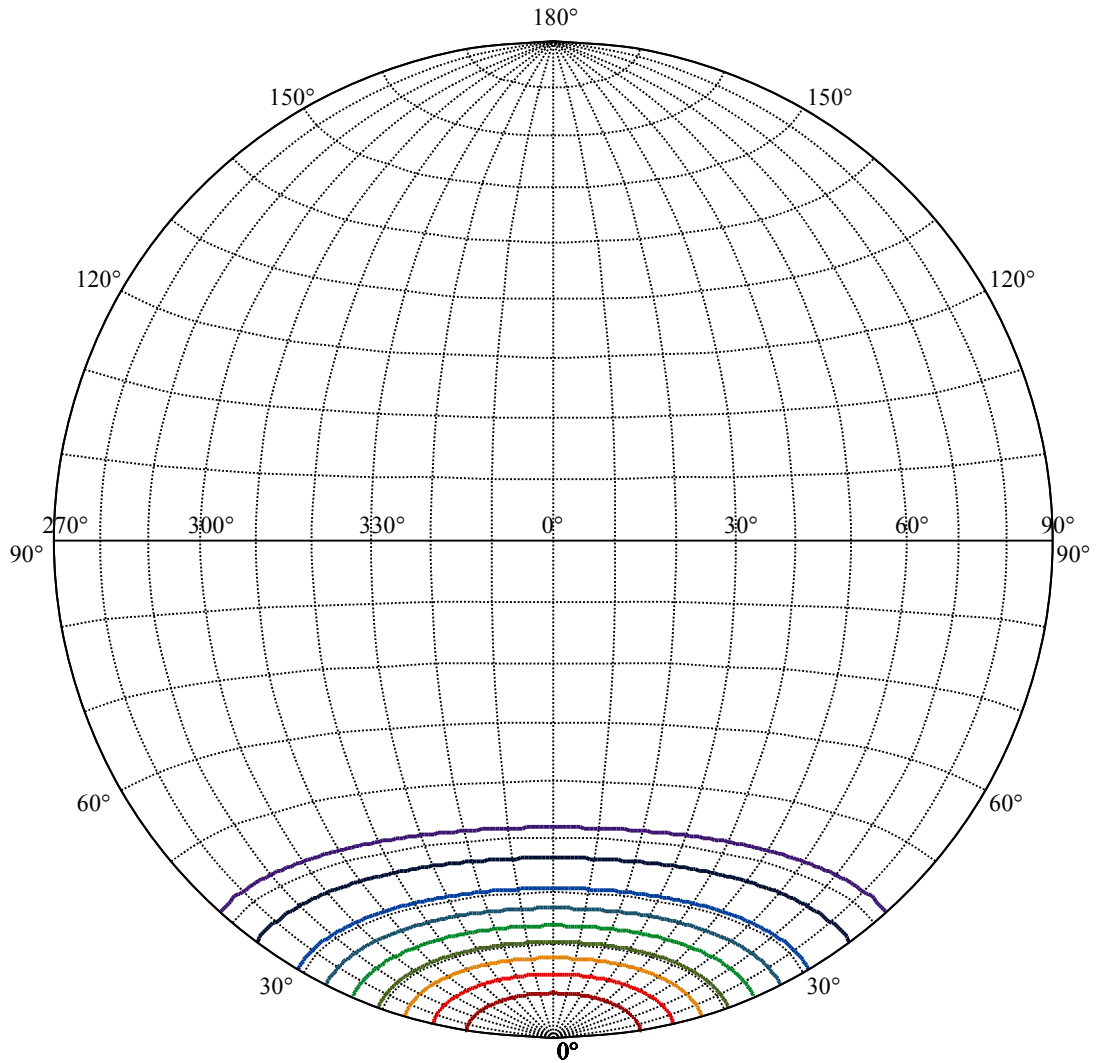
Beam Angle(50%Imax):C0/180Left:23.7 Right:23.7

:C90/270Left:23.7 Right:23.7





(10%Imax) 204.837	—
(20%Imax) 409.675	—
(30%Imax) 614.512	—
(40%Imax) 819.349	—
(50%Imax) 1024.19	—
(60%Imax) 1229.02	—
(70%Imax) 1433.86	—
(80%Imax) 1638.7	—
(90%Imax) 1843.54	—



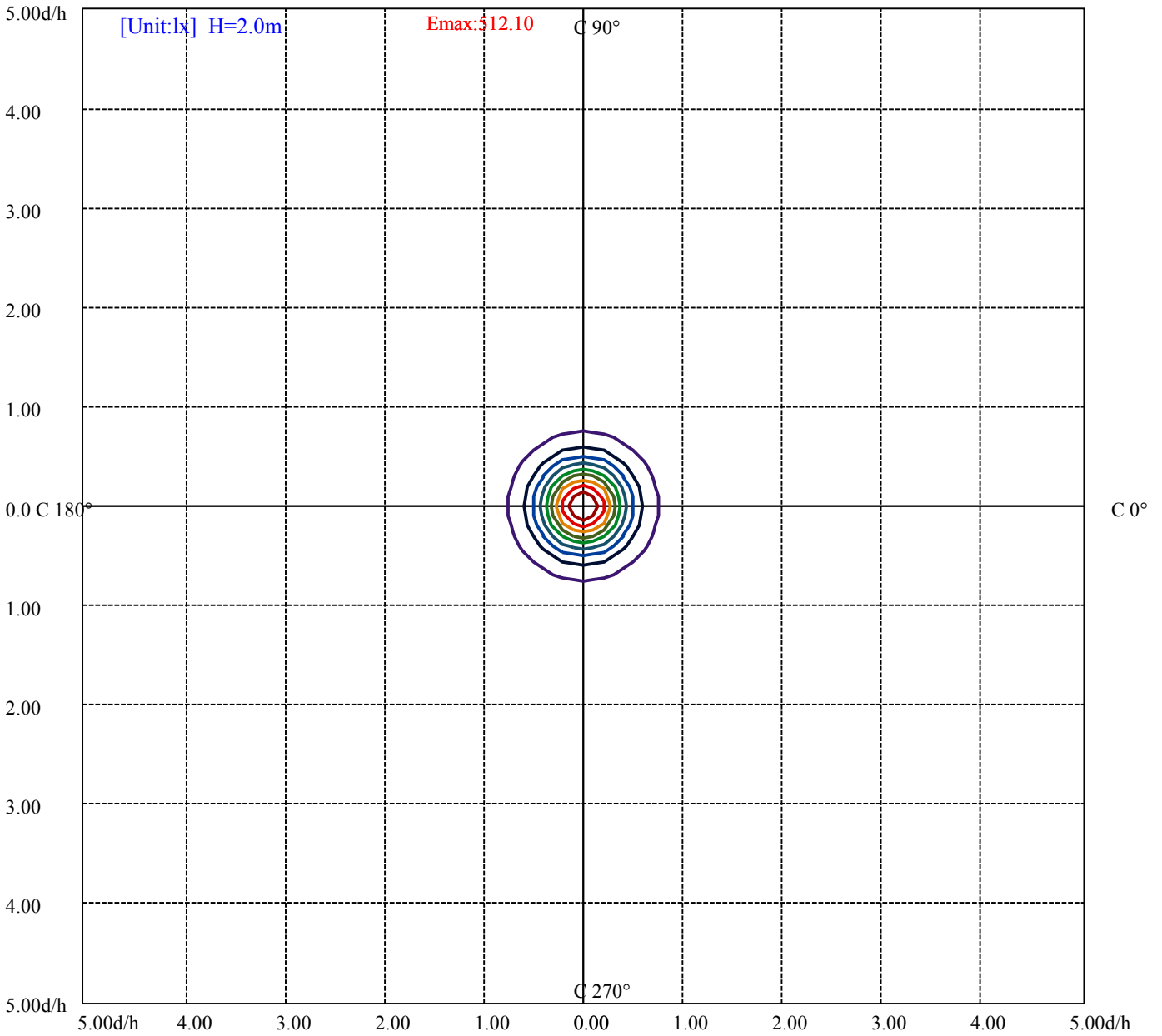
House

[Unit:cd]

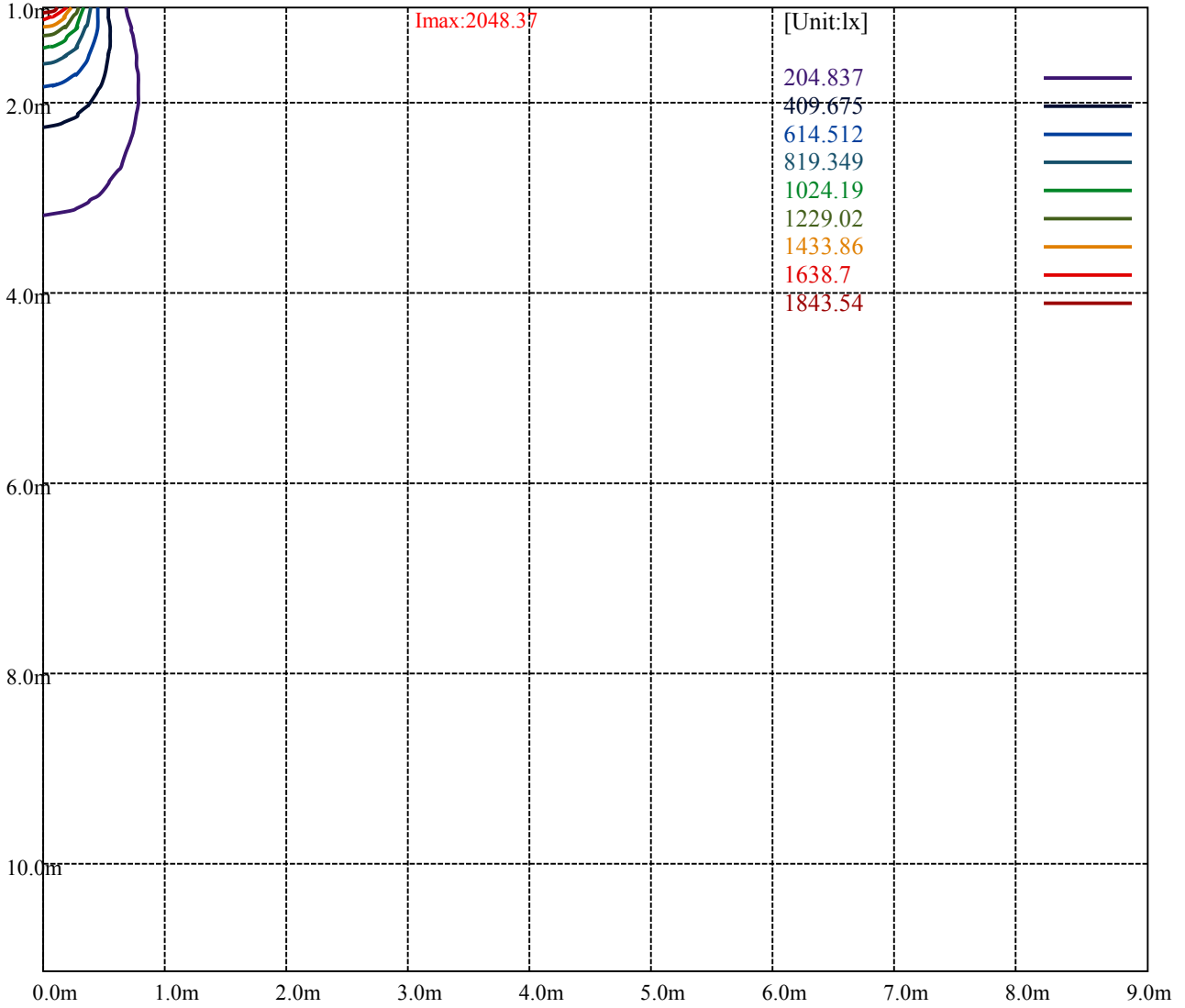
Road

Imax:2048.37

(10%Imax) 204.837	—
(20%Imax) 409.675	—
(30%Imax) 614.512	—
(40%Imax) 819.349	—
(50%Imax) 1024.19	—
(60%Imax) 1229.02	—
(70%Imax) 1433.86	—
(80%Imax) 1638.7	—
(90%Imax) 1843.54	—



- (10%Emax) 51.20925
- (20%Emax) 102.4185
- (30%Emax) 153.628
- (40%Emax) 204.8372
- (50%Emax) 256.0475
- (60%Emax) 307.255
- (70%Emax) 358.465
- (80%Emax) 409.675
- (90%Emax) 460.8825



Luminance Table

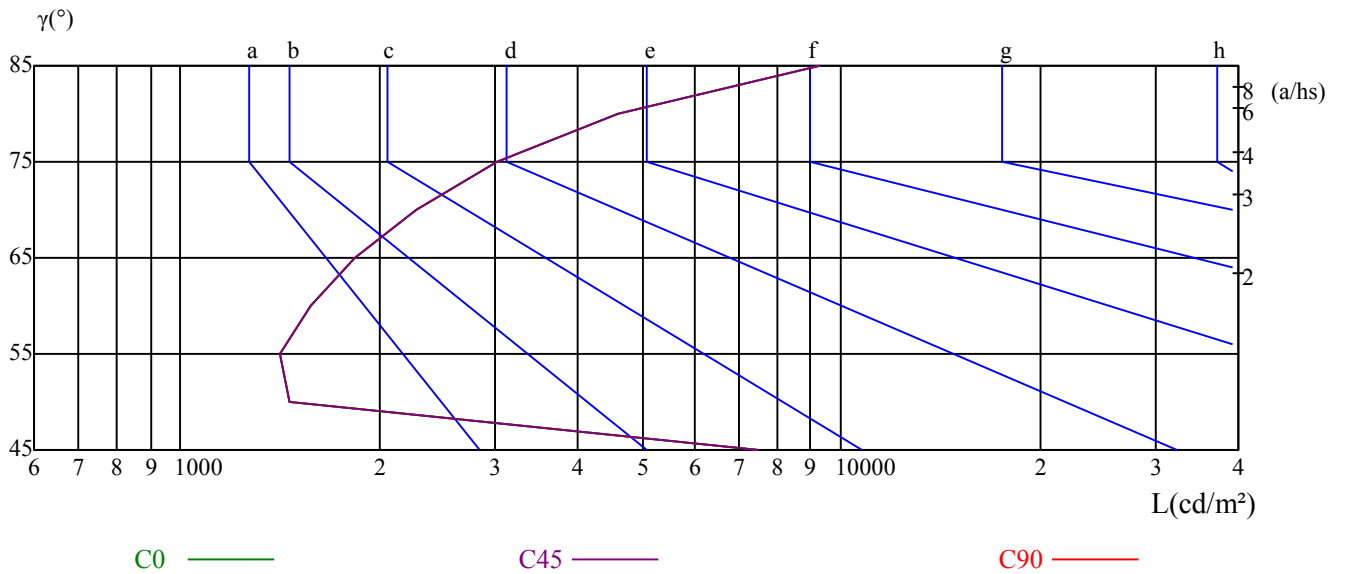
γ	45	50	55	60	65	70	75	80	85
C0	7491	1462	1412	1577	1842	2276	3022	4612	9312
C45	7491	1462	1412	1577	1842	2276	3022	4612	9312
C90	7491	1462	1412	1577	1842	2276	3022	4612	9312

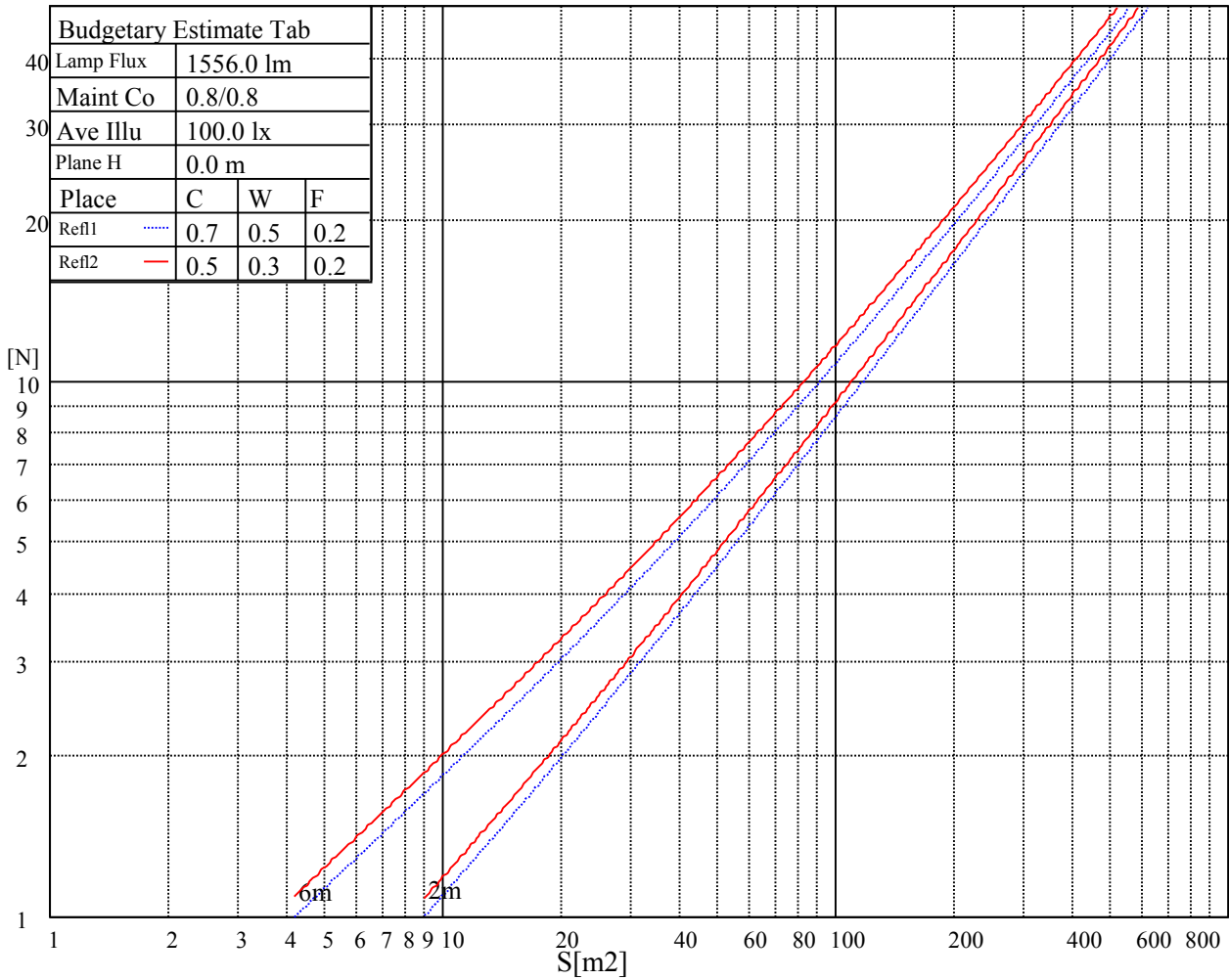
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1842	1842	1842	3022	3022	3022	9312	9312	9312

Glare Table

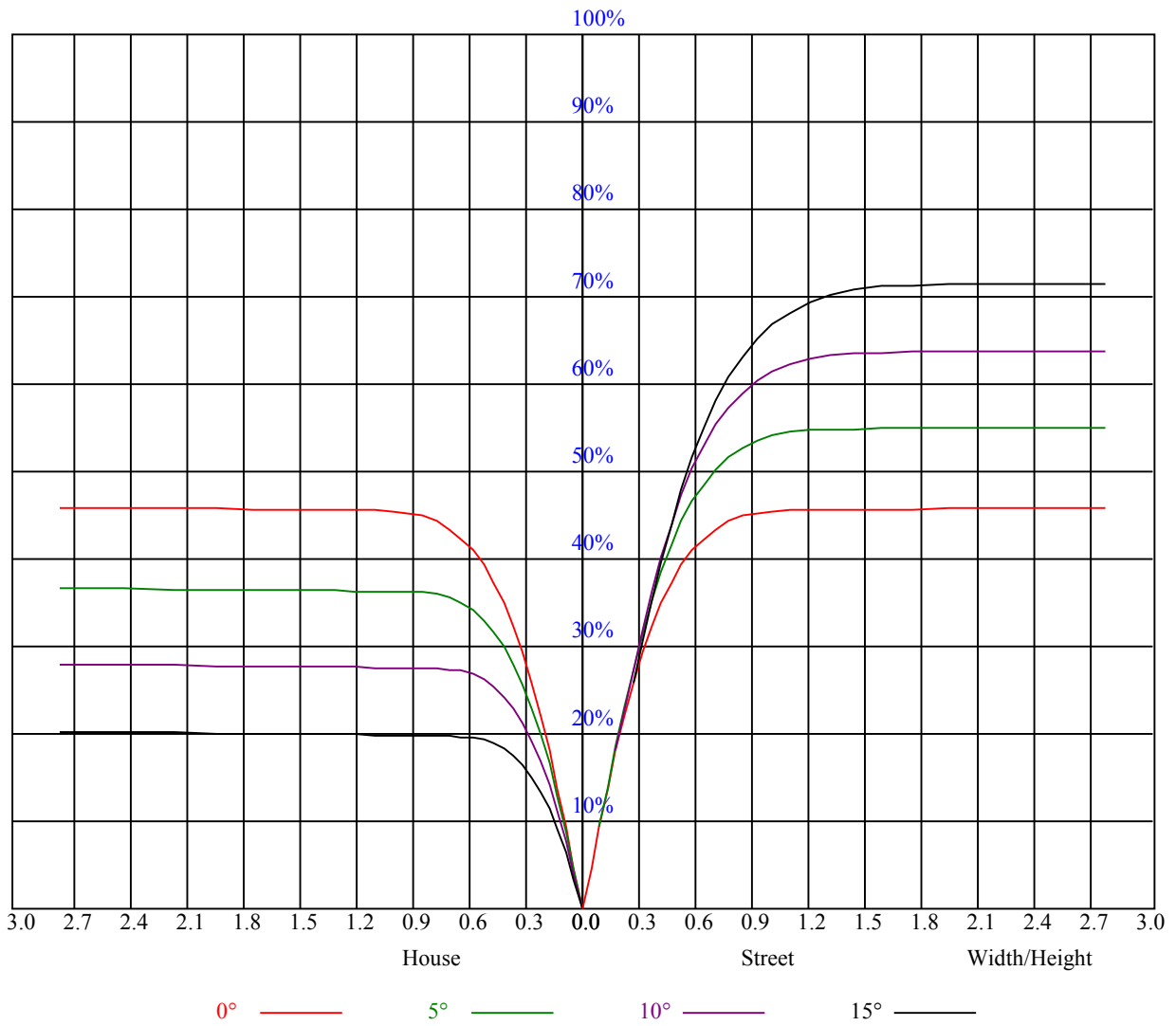
Glare	Quality	Service Values Illuminance(lx)							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.02	1.00	0.98	1.00	0.98	0.96	0.96	0.95	0.93	0.93	0.92	0.90	0.90	0.89	0.88	0.86
2	0.96	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.86	0.89	0.86	0.84	0.86	0.84	0.83	0.81
3	0.90	0.86	0.82	0.89	0.85	0.82	0.87	0.83	0.80	0.84	0.82	0.79	0.82	0.80	0.78	0.77
4	0.85	0.80	0.77	0.84	0.80	0.76	0.82	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.72
5	0.81	0.76	0.72	0.80	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.70	0.69
6	0.77	0.71	0.68	0.76	0.71	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.65
7	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.62
8	0.69	0.64	0.61	0.69	0.64	0.61	0.68	0.64	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.59
9	0.66	0.61	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.63	0.60	0.57	0.56
10	0.63	0.58	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.54



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	2043.69	1964.96	1777.77	1490.93	1206.29	870.44	581.95	438.25	282.99
45.0	2061.86	2022.22	1894.49	1639.03	1364.85	1033.96	715.18	475.14	389.80
90.0	2053.05	2026.08	1911.56	1661.60	1342.28	1032.58	710.89	460.27	390.02
135.0	2034.88	2046.45	1967.17	1749.14	1425.96	1098.38	758.13	488.35	405.77
180.0	2043.69	2030.48	1908.81	1661.05	1345.58	989.91	689.09	451.68	358.09
225.0	2061.86	2000.20	1814.11	1519.56	1097.55	871.21	583.27	440.95	235.42
270.0	2053.05	1982.03	1798.14	1538.28	1216.20	868.79	606.17	442.65	281.34
315.0	2034.88	1920.37	1718.31	1420.46	1087.36	780.59	519.51	412.32	117.88
360.0	2043.69	1964.96	1777.77	1490.93	1206.29	870.44	581.95	438.25	282.99
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	8.53	6.44	6.11	6.00	5.95	5.95	5.95	5.95	6.61
45.0	59.30	7.60	6.33	6.11	6.00	6.00	5.95	6.00	6.06
90.0	75.32	7.71	6.33	6.06	6.00	6.00	5.95	5.95	6.06
135.0	114.35	9.86	6.33	6.11	6.00	6.00	6.00	5.95	5.95
180.0	42.17	6.66	6.17	6.06	5.95	5.95	5.95	6.00	5.95
225.0	9.52	6.55	6.22	6.06	6.06	6.00	6.06	6.33	6.28
270.0	8.92	6.61	6.22	6.11	6.06	6.06	6.39	7.10	6.88
315.0	7.82	6.39	6.11	6.00	5.89	5.95	5.89	6.00	6.17
360.0	8.53	6.44	6.11	6.00	5.95	5.95	5.95	5.95	6.61
C/ γ (°)	90.0								
0.0	5.89								
45.0	5.95								
90.0	5.95								
135.0	5.95								
180.0	5.89								
225.0	5.89								
270.0	5.95								
315.0	5.89								
360.0	5.89								