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Nata

LumCAT: 2-1468-E	
Luminaire: 92.76.263.00	
Report No: NATA0100	Voltage(V): 30.0000
Test No:	Current(A): 0.9500
LampCAT: BRIDGELUX VERO 18	Power (W): 28.5000
Lamp flux(lm): 3743.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 80	Width(mm): 80
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3369.94
Efficiency(%): 90.03%
Lumens(lm)/Power(W): 121.98
Central intensity(cd): 18350.300
Maximum intensity(cd): 18350.300
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=17.6
 [C90/270]Total=17.6
Field angle(10%Imax): [C0/180]Total=41.0
 [C90/270]Total=41.0
Maximum s/h(1/2): C0_180=0.30 C90_270=0.30
Maximum s/h(1/4): C0_180=0.33 C90_270=0.33
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.88%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 95.641%

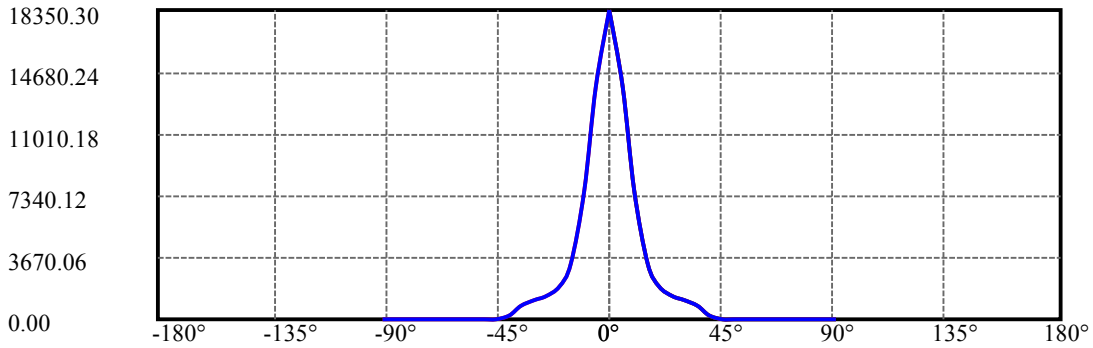
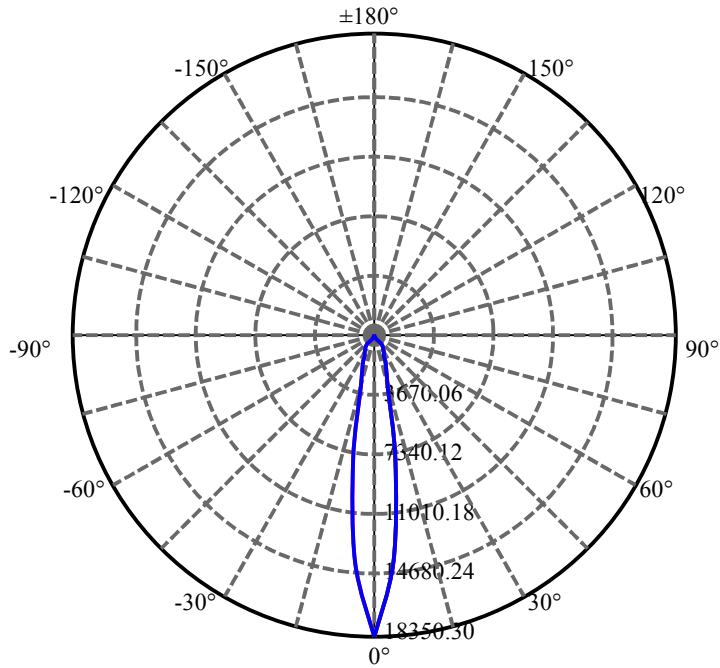
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	18350.299	109.738	109.738	2.932%	3.256%
5.0	13831.062	660.756	770.494	17.653%	22.864%
10.0	7677.821	730.799	1501.293	19.524%	44.550%
15.0	3299.186	468.050	1969.343	12.505%	58.439%
20.0	1882.378	352.897	2322.24	9.428%	68.910%
25.0	1393.959	322.915	2645.155	8.627%	78.493%
30.0	1167.726	320.037	2965.192	8.550%	87.990%
35.0	775.951	243.958	3209.15	6.518%	95.229%
40.0	251.360	88.563	3297.713	2.366%	97.857%
45.0	17.618	6.829	3304.541	.182%	98.059%
50.0	15.691	6.589	3311.13	.176%	98.255%
55.0	15.106	6.783	3317.913	.181%	98.456%
60.0	14.803	7.027	3324.94	.188%	98.665%
65.0	14.824	7.364	3332.304	.197%	98.883%
70.0	15.237	7.848	3340.152	.210%	99.116%
75.0	15.595	8.257	3348.409	.221%	99.361%
80.0	15.870	8.567	3356.976	.229%	99.615%
85.0	16.538	9.030	3366.006	.241%	99.883%
90.0	14.342	3.931	3369.937	.105%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2965.19	79.22%	87.99%
0-40	3297.71	88.10%	97.86%
0-60	3324.94	88.83%	98.66%
0-90	3366.01	89.93%	99.88%
0-120	3366.01	89.93%	99.88%
0-180	3369.94	90.03%	100.00%
60-90	48.09	1.28%	1.43%
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%
0-25.79	2695.95	72.03%	80.00%

ZONAL LUMEN SUMMARY

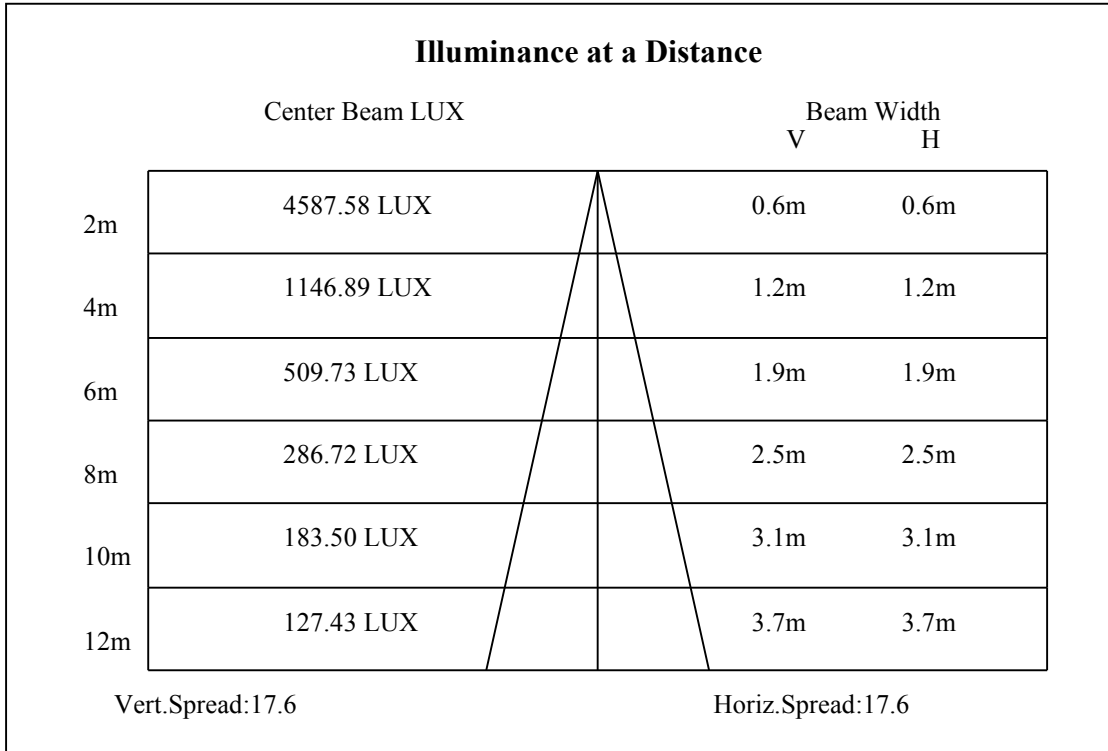
0-10	1501.29
10-20	820.95
20-30	642.95
30-40	332.52
40-50	13.42
50-60	13.81
60-70	15.21
70-80	16.82
80-90	9.03
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

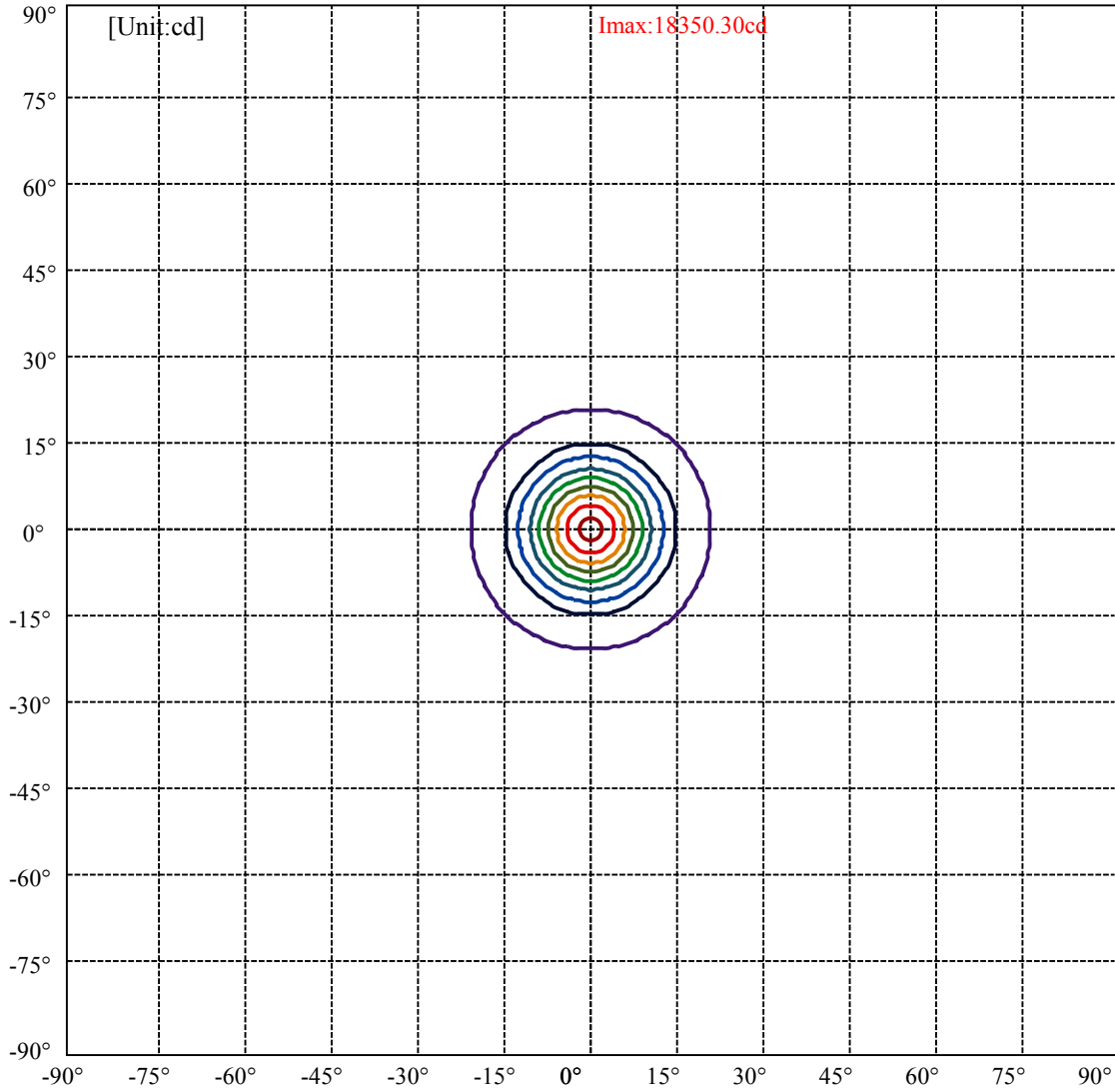


C0(Max): ———
C0/C180: ———
C90/C270: ———

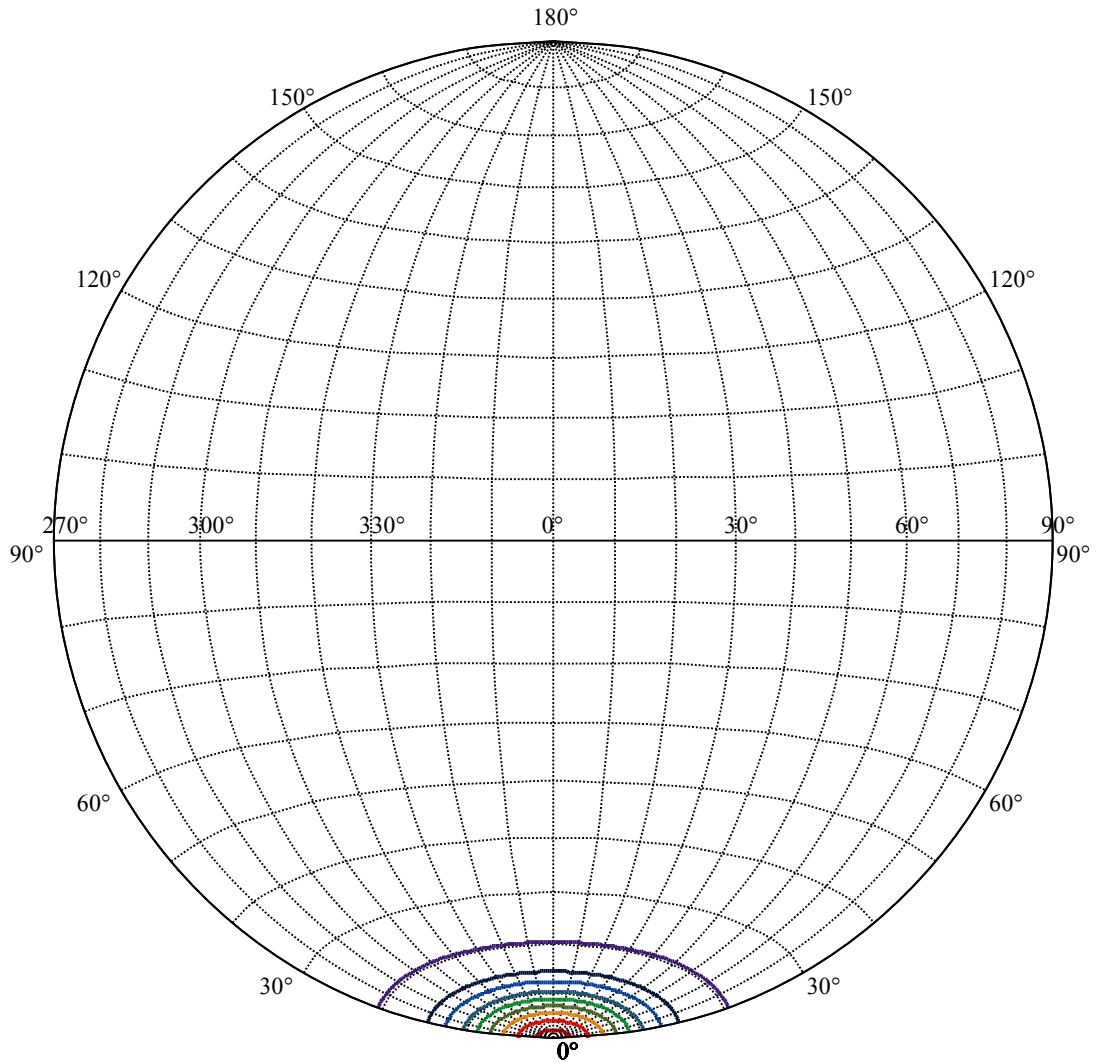
Field angle(10%Imax):C0/180Left:20.5 Right:20.5
:C90/270Left:20.5 Right:20.5

Beam Angle(50%Imax):C0/180Left:8.8 Right:8.8
:C90/270Left:8.8 Right:8.8





(10%I _{max}) 1835.03	—
(20%I _{max}) 3670.06	—
(30%I _{max}) 5505.09	—
(40%I _{max}) 7340.12	—
(50%I _{max}) 9175.15	—
(60%I _{max}) 11010.2	—
(70%I _{max}) 12845.2	—
(80%I _{max}) 14680.2	—
(90%I _{max}) 16515.3	—



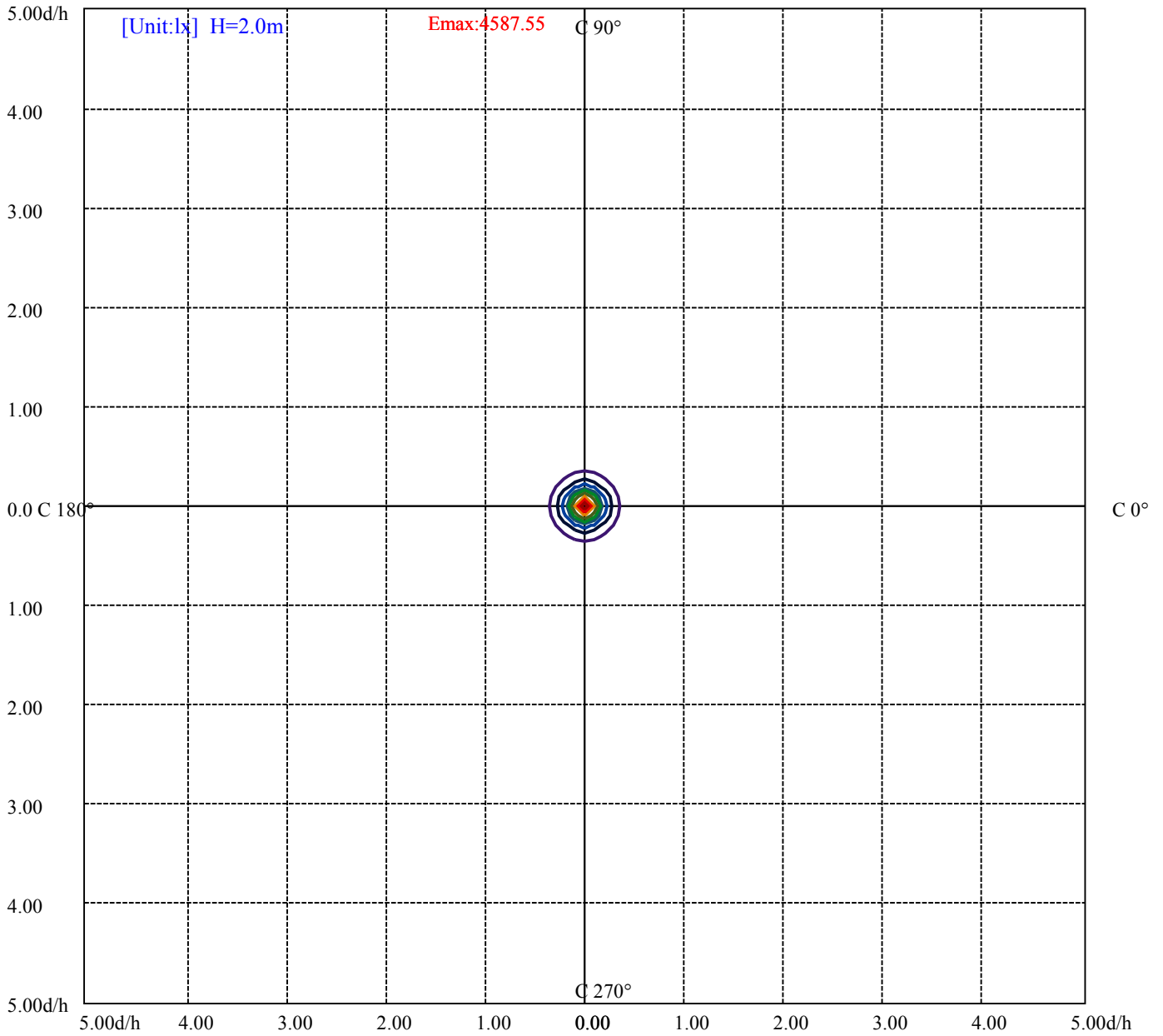
House

[Unit:cd]

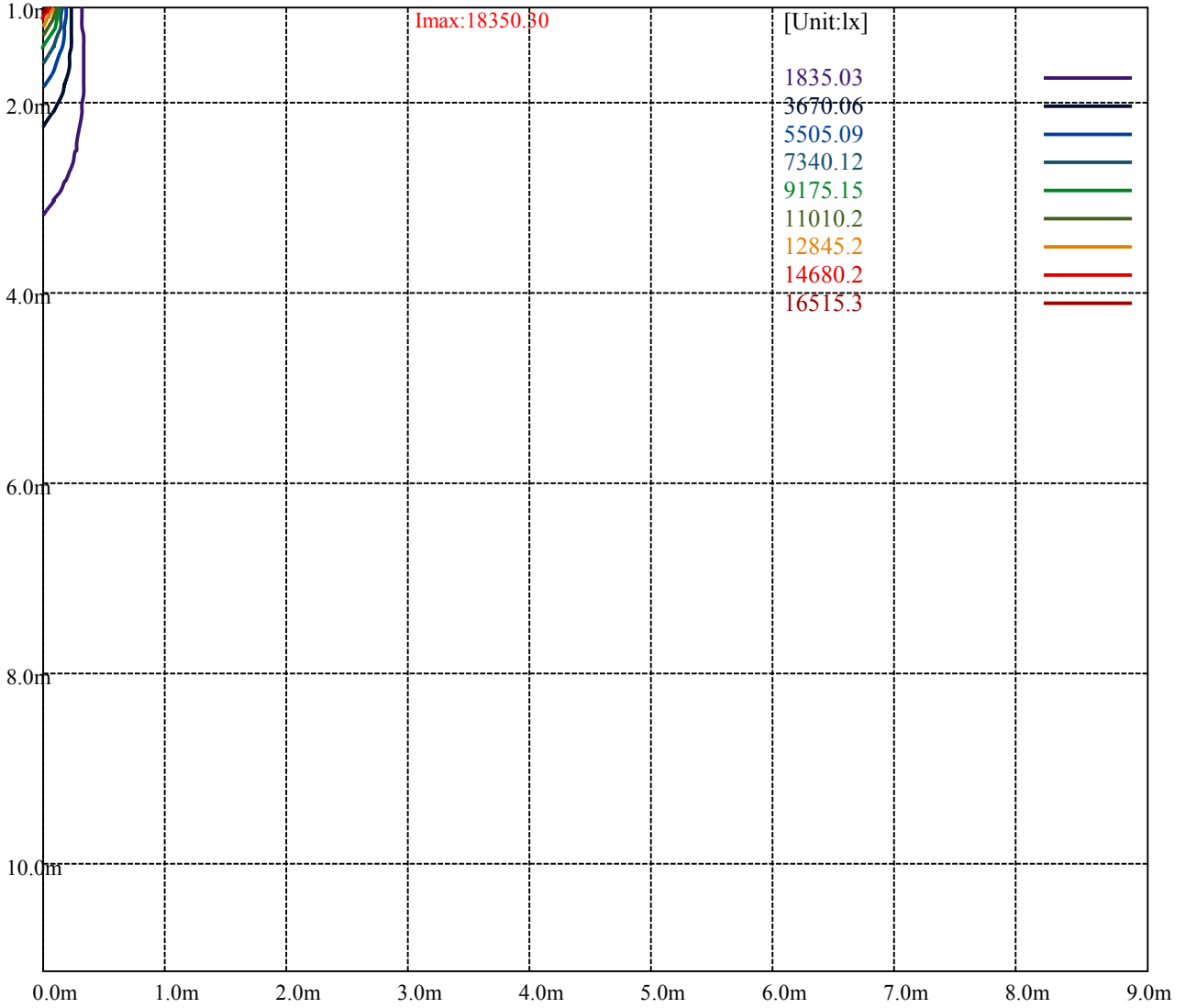
Road

Imax:18350.30

(10%Imax)	1835.03	—
(20%Imax)	3670.06	—
(30%Imax)	5505.09	—
(40%Imax)	7340.12	—
(50%Imax)	9175.15	—
(60%Imax)	11010.2	—
(70%Imax)	12845.2	—
(80%Imax)	14680.2	—
(90%Imax)	16515.3	—



- (10%Emax) 458.755
- (20%Emax) 917.5075
- (30%Emax) 1376.262
- (40%Emax) 1835.015
- (50%Emax) 2293.77
- (60%Emax) 2752.525
- (70%Emax) 3211.275
- (80%Emax) 3670.025
- (90%Emax) 4128.775



Luminance Table

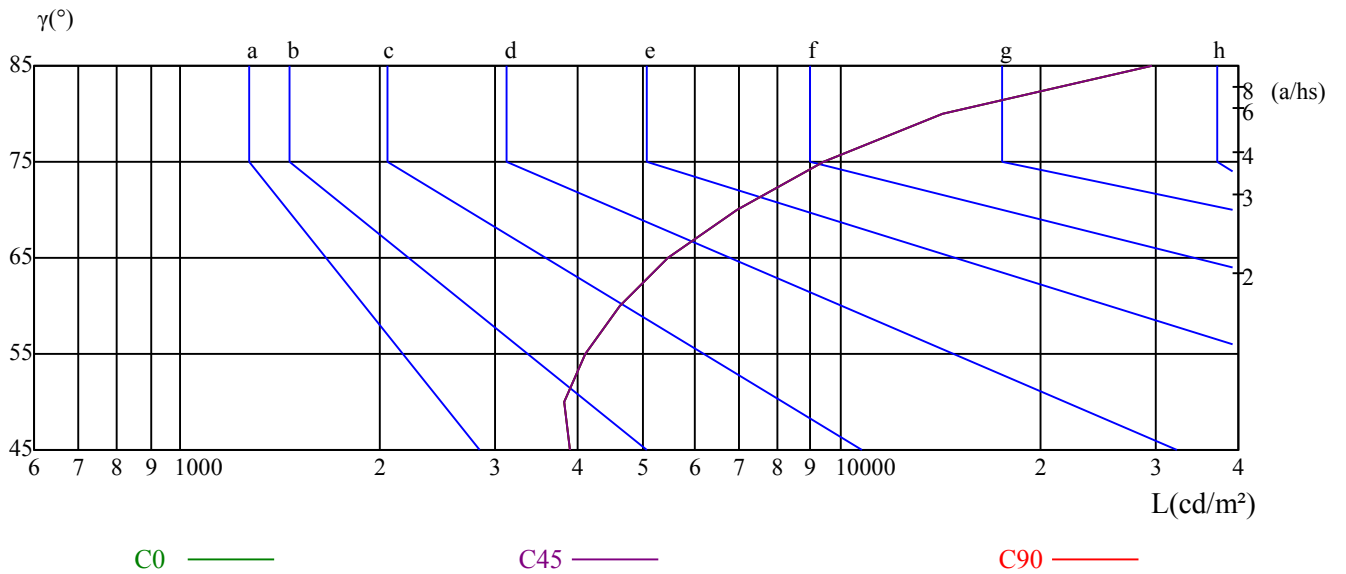
γ	45	50	55	60	65	70	75	80	85
C0	3893	3814	4115	4626	5481	6961	9415	14280	29648
C45	3893	3814	4115	4626	5481	6961	9415	14280	29648
C90	3893	3814	4115	4626	5481	6961	9415	14280	29648

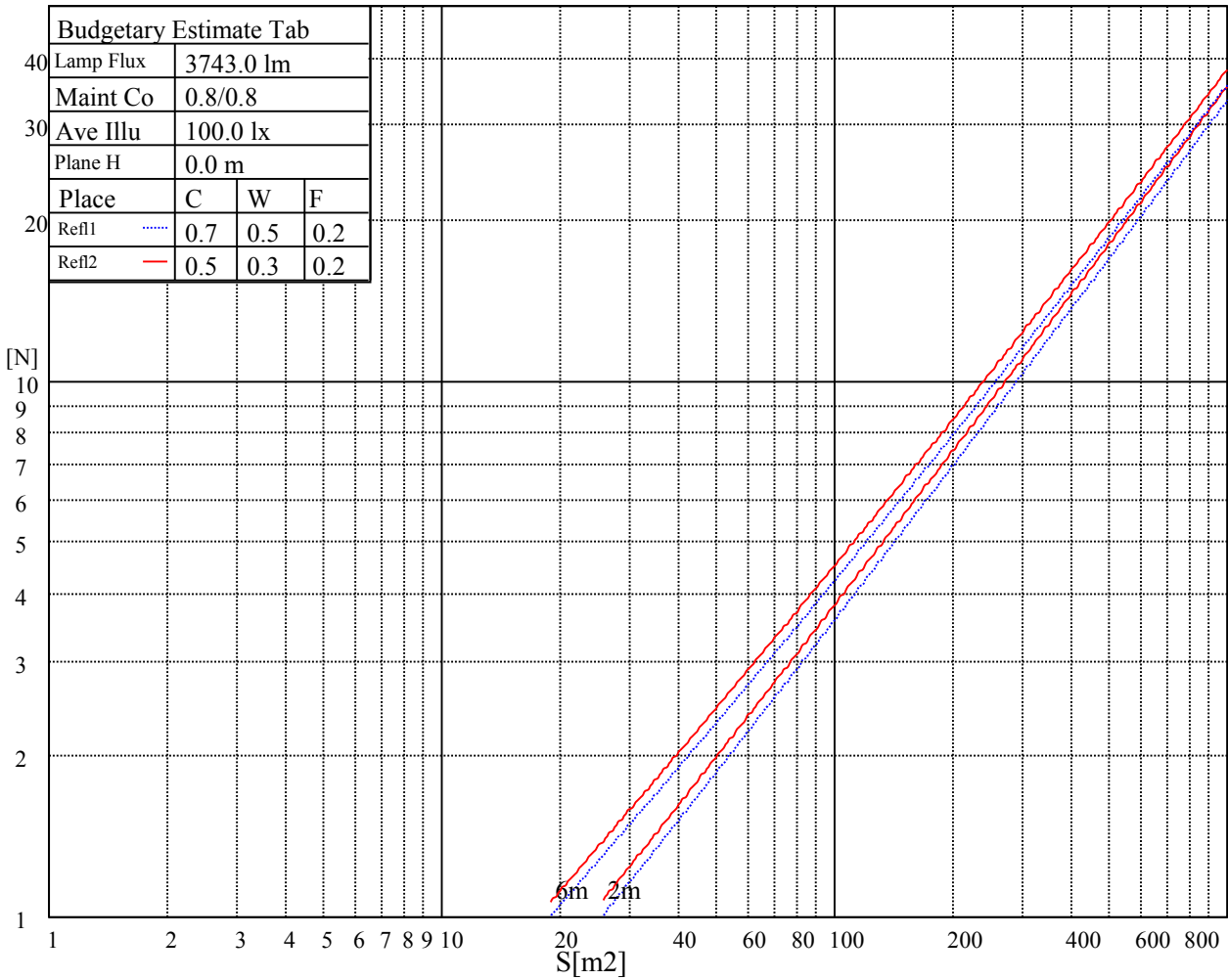
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5481	5481	5481	9415	9415	9415	29648	29648	29648

Glare Table

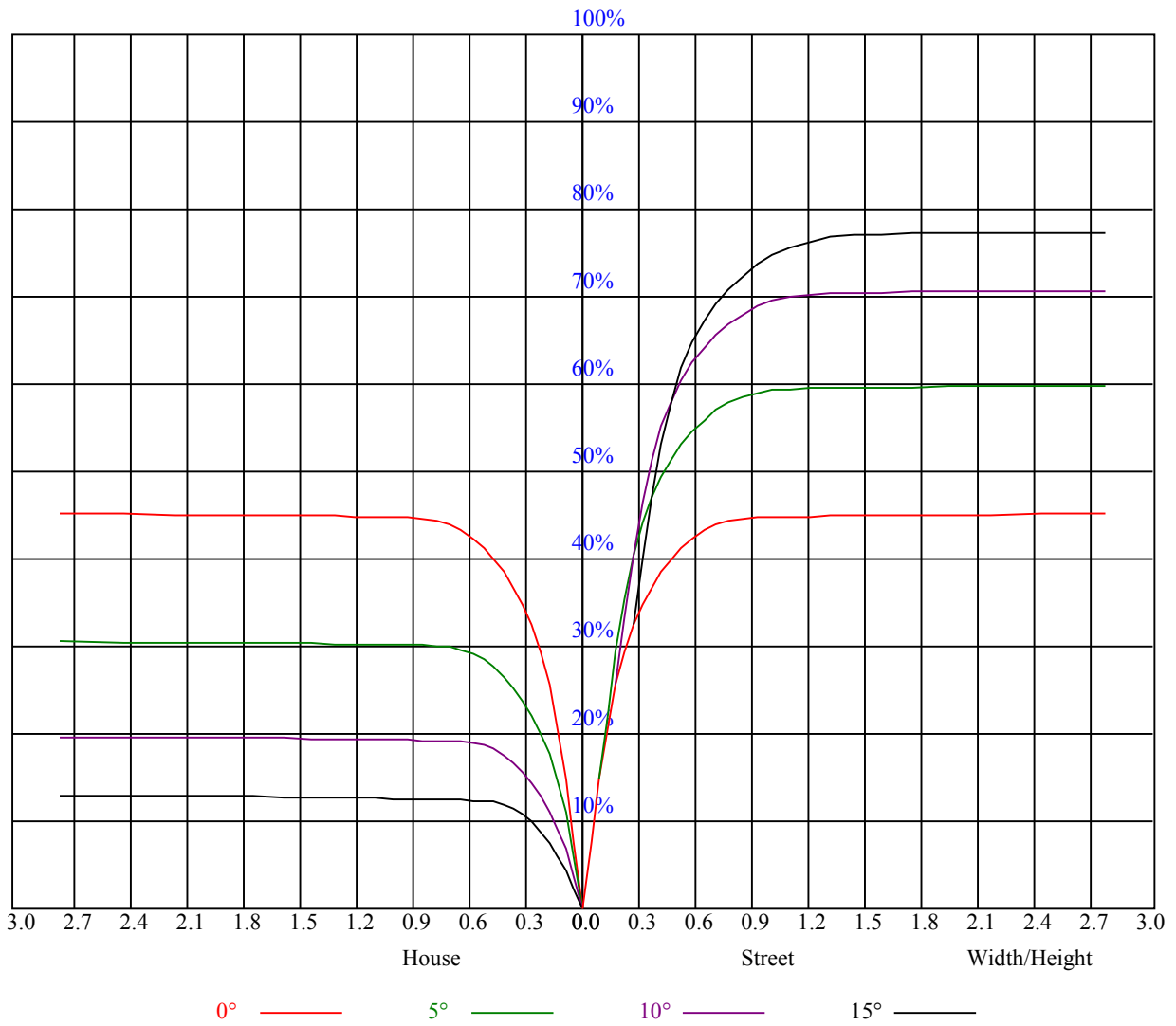
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.11	1.11	1.11	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	1.01	0.98	0.95	0.98	0.96	0.93	0.95	0.92	0.91	0.91	0.89	0.88	0.88	0.87	0.85	0.83
2	0.95	0.91	0.88	0.94	0.90	0.87	0.91	0.88	0.85	0.88	0.86	0.84	0.85	0.83	0.82	0.80
3	0.91	0.87	0.83	0.90	0.86	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.77
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	0.83	0.79	0.75	0.83	0.78	0.75	0.81	0.77	0.74	0.80	0.76	0.74	0.78	0.75	0.73	0.72
6	0.80	0.76	0.73	0.80	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
7	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.68
8	0.75	0.71	0.68	0.75	0.70	0.68	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.66
9	0.73	0.69	0.66	0.72	0.68	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.64
10	0.71	0.67	0.64	0.70	0.66	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62



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	18350.30	13698.03	6964.63	3044.62	1853.75	1372.56	1197.48	732.80	293.45
45.0	18421.87	15151.52	8330.03	3721.81	2002.95	1432.57	1237.12	861.63	290.70
90.0	18427.38	12910.73	7433.16	3181.16	1831.73	1381.92	1091.93	753.01	194.46
135.0	18201.65	15481.86	9018.24	3837.43	2022.22	1434.22	1225.00	863.28	358.42
180.0	18350.30	15151.52	8098.80	3398.63	1907.15	1396.78	1188.67	811.64	270.00
225.0	18421.87	12707.02	6920.04	2939.46	1789.33	1367.05	1096.67	711.77	164.73
270.0	18427.38	14622.98	8104.30	3441.03	1921.47	1415.50	1216.75	812.08	313.27
315.0	18201.65	10924.84	6553.36	2829.35	1730.42	1351.08	1088.19	661.39	125.86
360.0	18350.30	13698.03	6964.63	3044.62	1853.75	1372.56	1197.48	732.80	293.45

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	16.79	15.69	15.09	14.76	14.65	14.53	14.65	14.65	14.76
45.0	17.51	15.80	15.20	14.87	14.81	15.64	15.91	15.97	16.85
90.0	16.74	15.64	15.09	14.81	15.25	16.08	16.85	17.12	19.55
135.0	20.92	15.86	15.31	15.03	15.47	17.12	18.28	18.66	19.93
180.0	16.90	15.69	15.14	14.81	14.65	14.81	14.92	15.20	15.42
225.0	17.12	15.58	14.98	14.70	14.59	14.59	14.76	15.58	15.80
270.0	18.33	15.80	15.14	14.81	14.65	14.59	14.70	14.76	15.14
315.0	16.63	15.47	14.92	14.65	14.53	14.53	14.70	15.03	14.87
360.0	16.79	15.69	15.09	14.76	14.65	14.53	14.65	14.65	14.76

C/γ(°)	90.0
0.0	14.37
45.0	14.31
90.0	14.31
135.0	14.37
180.0	14.31
225.0	14.31
270.0	14.37
315.0	14.37
360.0	14.37