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Nata

LumCAT: 1-1010-M
Luminaire: BJB 47.360.1020
Report No: NATA0100
Test No: GC2019102405
LampCAT: BRIDGELUX V10B LES10
Lamp flux(lm): 1478.0
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 33.8900
Current(A): 0.2970
Power (W): 10.0600
PF: 1.0000
Ballast type: DC
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 1037.88
Efficiency(%): 70.22%
Lumens(lm)/Power(W): 103.17
Central intensity(cd): 3382.453
Maximum intensity(cd): 3382.453
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=33.7
 [C90/270]Total=33.7
Field angle(10%Imax): [C0/180]Total=48.7
 [C90/270]Total=48.7
Maximum s/h(1/2): C0_180=0.57 C90_270=0.57
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(%): 70.22%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.562%

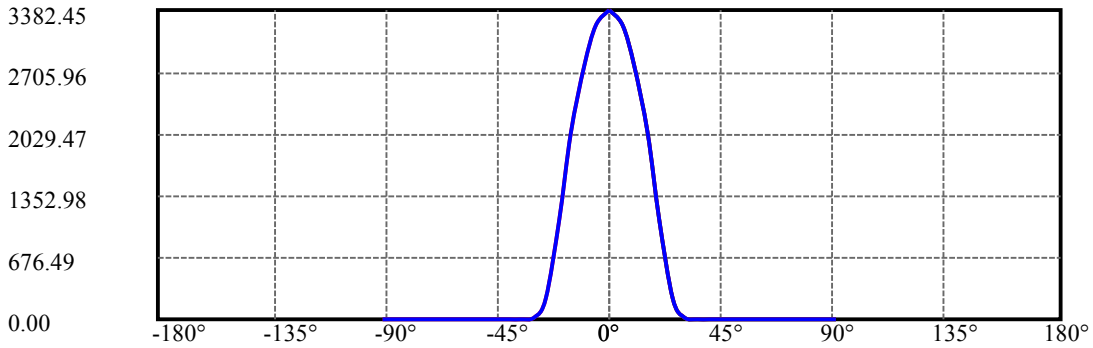
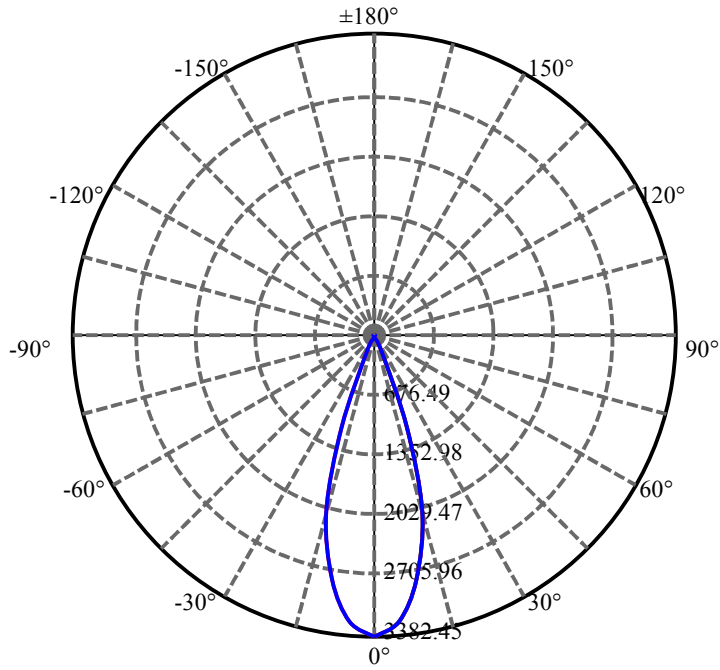
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3382.453	0.000	0	.000%	.000%
5.0	3214.758	78.868	78.868	5.336%	7.599%
10.0	2773.266	214.210	293.078	14.493%	28.238%
15.0	2045.180	285.827	578.905	19.339%	55.778%
20.0	1091.988	258.547	837.452	17.493%	80.689%
25.0	225.633	138.194	975.646	9.350%	94.004%
30.0	20.116	31.100	1006.746	2.104%	97.001%
35.0	9.281	4.329	1011.075	.293%	97.418%
40.0	6.870	2.695	1013.769	.182%	97.677%
45.0	5.829	2.351	1016.121	.159%	97.904%
50.0	5.337	2.256	1018.377	.153%	98.121%
55.0	5.063	2.261	1020.638	.153%	98.339%
60.0	4.922	2.308	1022.946	.156%	98.562%
65.0	4.838	2.373	1025.318	.161%	98.790%
70.0	4.795	2.439	1027.757	.165%	99.025%
75.0	4.767	2.499	1030.257	.169%	99.266%
80.0	4.718	2.538	1032.795	.172%	99.511%
85.0	4.648	2.545	1035.34	.172%	99.756%
90.0	4.613	2.536	1037.875	.172%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1006.75	68.12%	97.00%
0-40	1013.77	68.59%	97.68%
0-60	1022.95	69.21%	98.56%
0-90	1035.34	70.05%	99.76%
0-120	1035.34	70.05%	99.76%
0-180	1037.88	70.22%	100.00%
60-90	14.70	0.99%	1.42%
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%
0-19.86	830.30	56.18%	80.00%

ZONAL LUMEN SUMMARY

0-10	293.08
10-20	544.37
20-30	169.29
30-40	7.02
40-50	4.61
50-60	4.57
60-70	4.81
70-80	5.04
80-90	2.54
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: —————

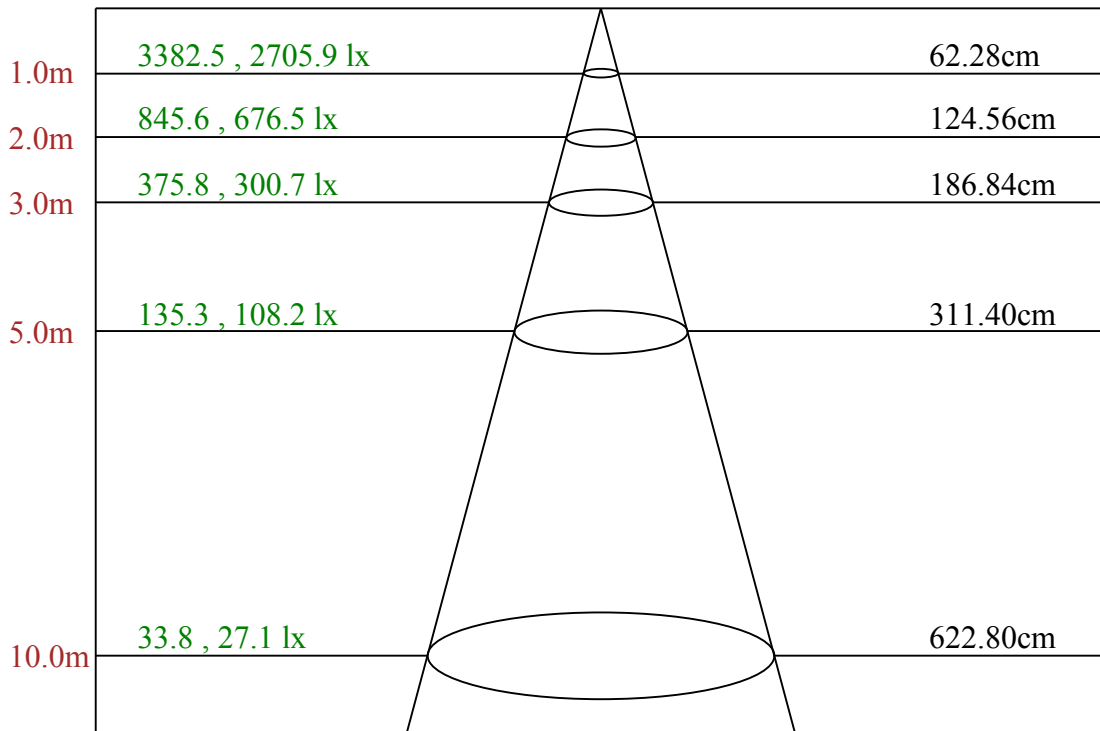
C90/C270: —————

Field angle(10%Imax):C0/180Left:24.4 Right:24.4

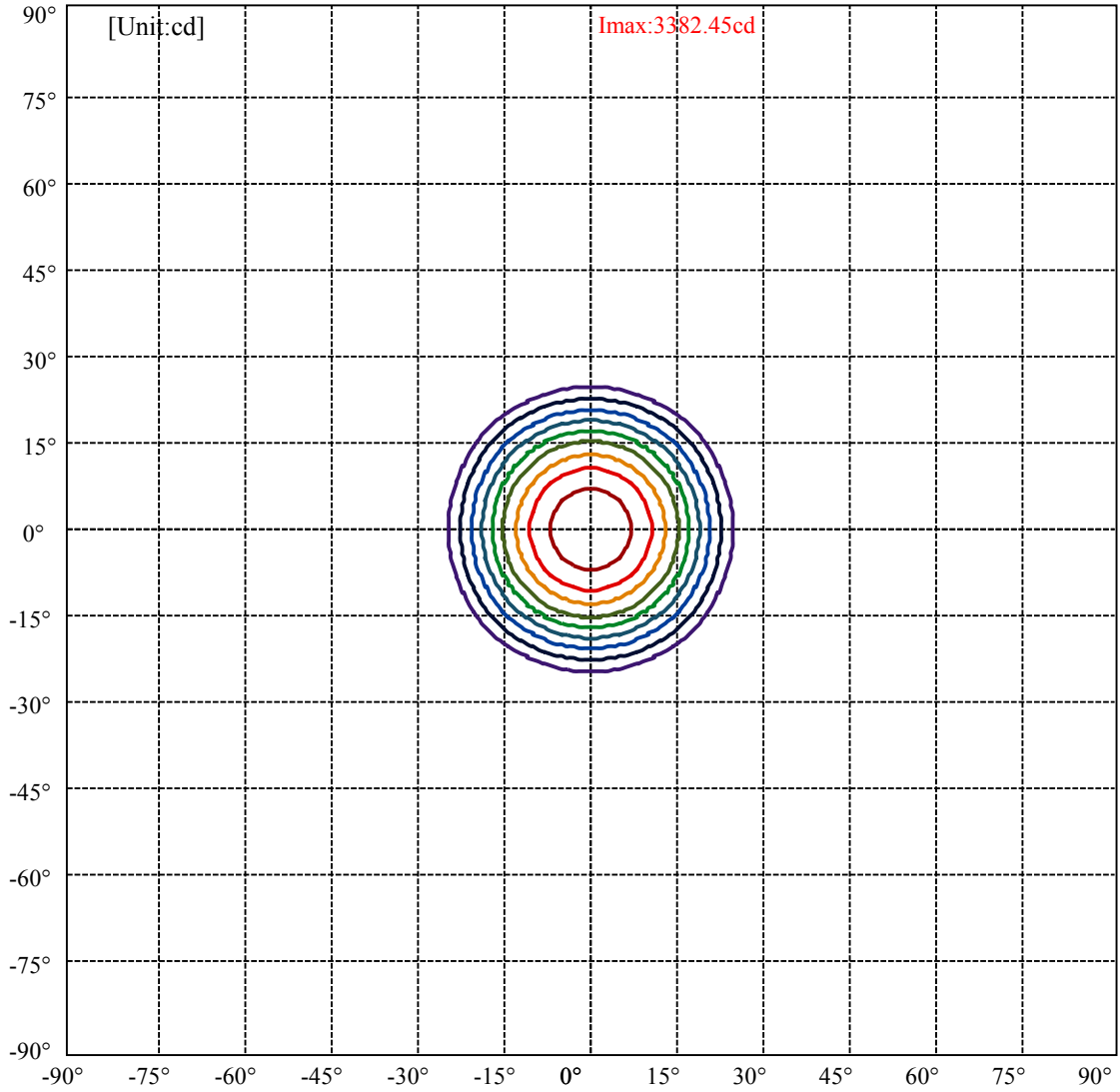
:C90/270Left:24.4 Right:24.4

Beam Angle(50%Imax):C0/180Left:16.9 Right:16.9

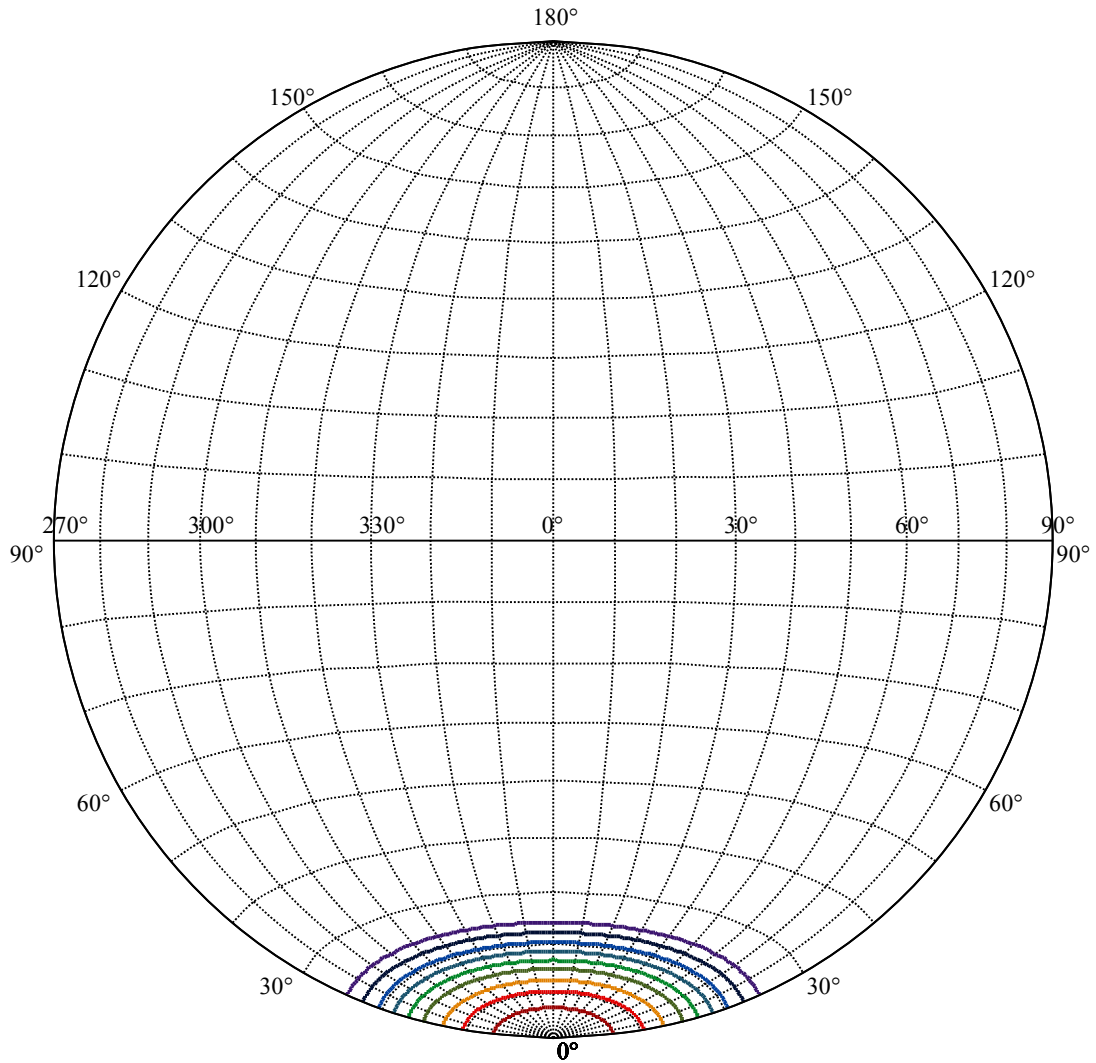
:C90/270Left:16.9 Right:16.9



Max , Ave Beam angle of C0 plane 34.59



(10%Imax) 338.245	—
(20%Imax) 676.491	—
(30%Imax) 1014.74	—
(40%Imax) 1352.98	—
(50%Imax) 1691.23	—
(60%Imax) 2029.47	—
(70%Imax) 2367.72	—
(80%Imax) 2705.96	—
(90%Imax) 3044.21	—



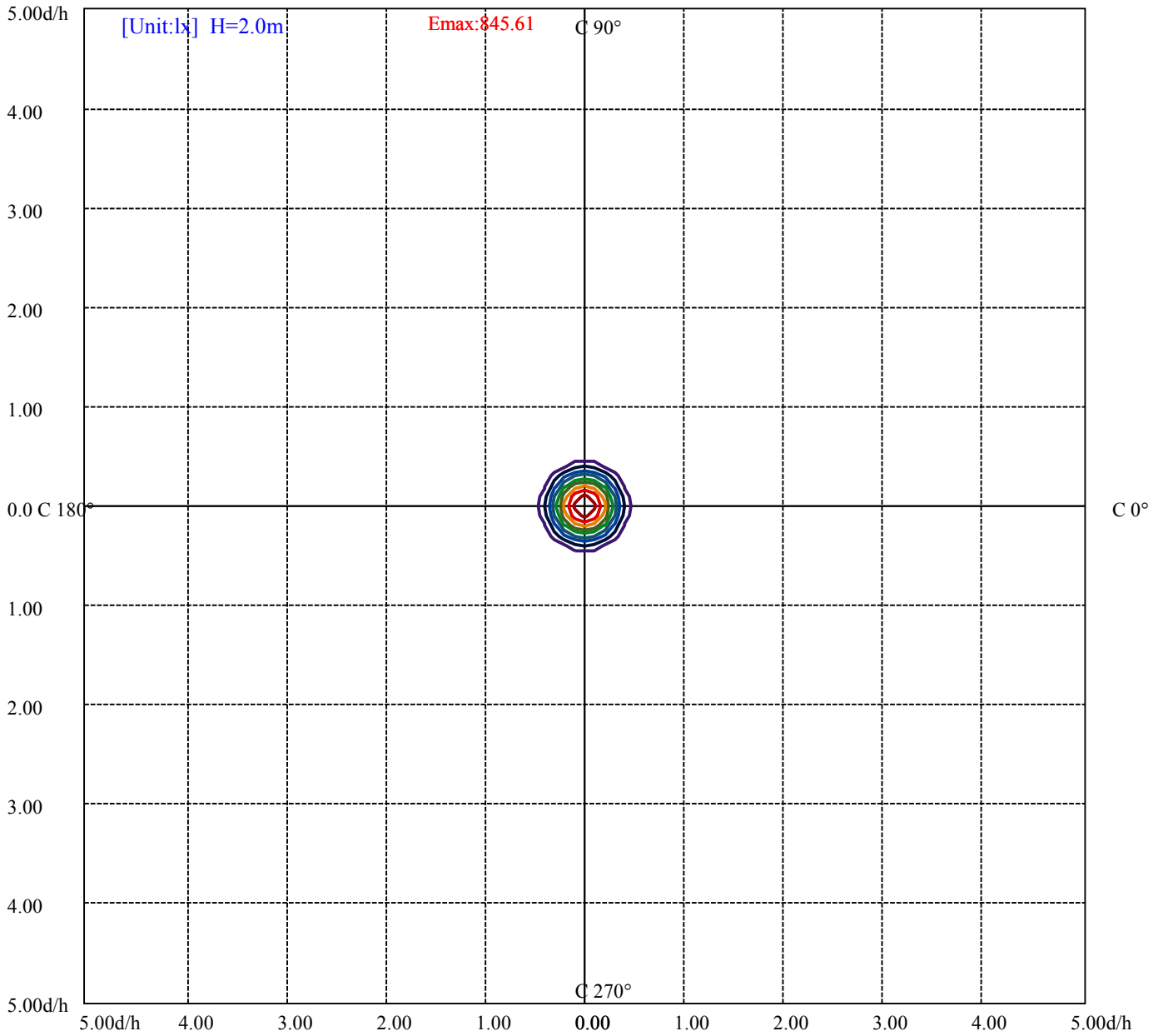
House

[Unit:cd]

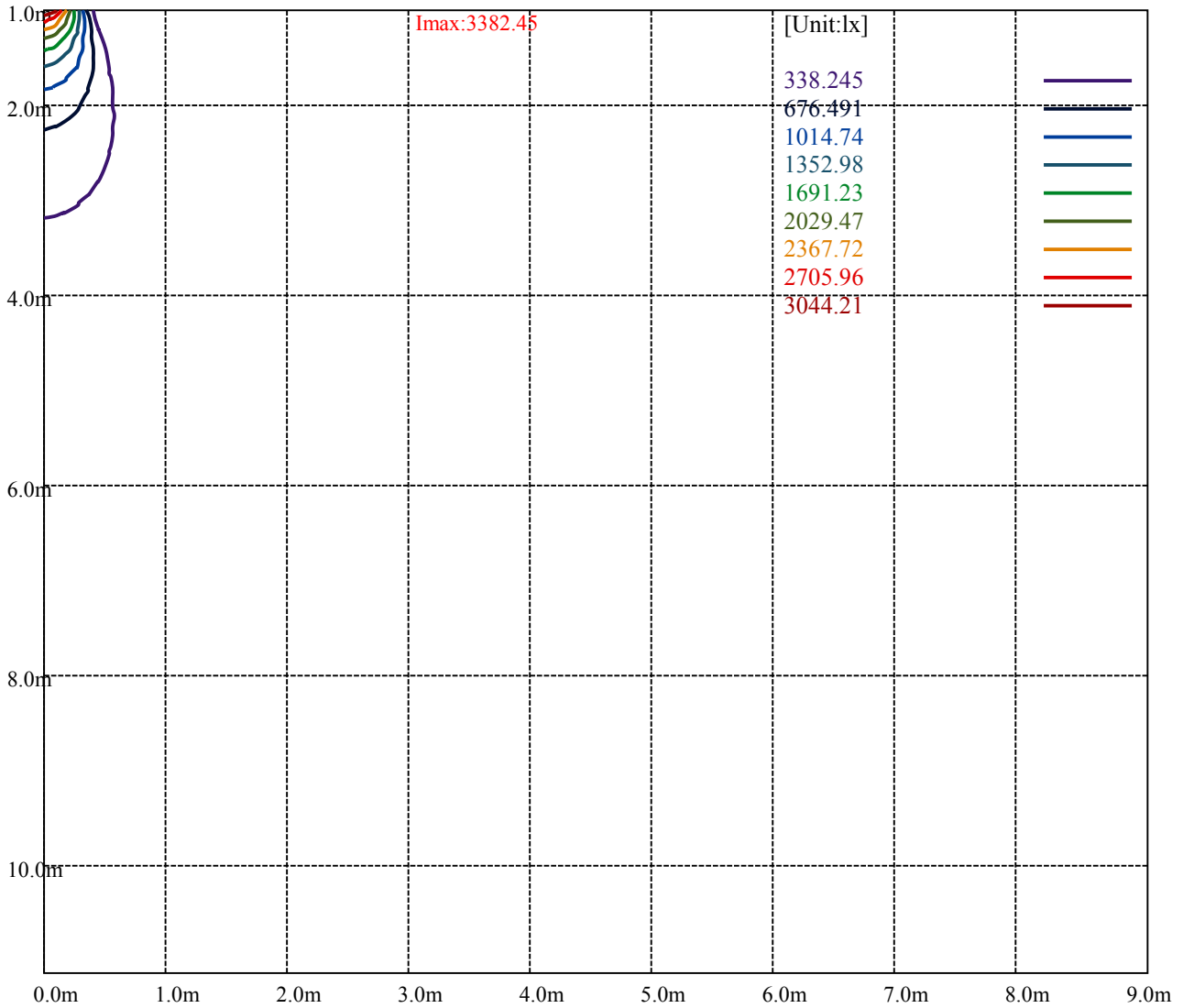
Road

Imax:3382.45

(10%Imax) 338.245	—
(20%Imax) 676.491	—
(30%Imax) 1014.74	—
(40%Imax) 1352.98	—
(50%Imax) 1691.23	—
(60%Imax) 2029.47	—
(70%Imax) 2367.72	—
(80%Imax) 2705.96	—
(90%Imax) 3044.21	—



- (10%Emax) 84.56125
- (20%Emax) 169.1225
- (30%Emax) 253.6825
- (40%Emax) 338.245
- (50%Emax) 422.805
- (60%Emax) 507.3675
- (70%Emax) 591.9275
- (80%Emax) 676.49
- (90%Emax) 761.05



Luminance Table

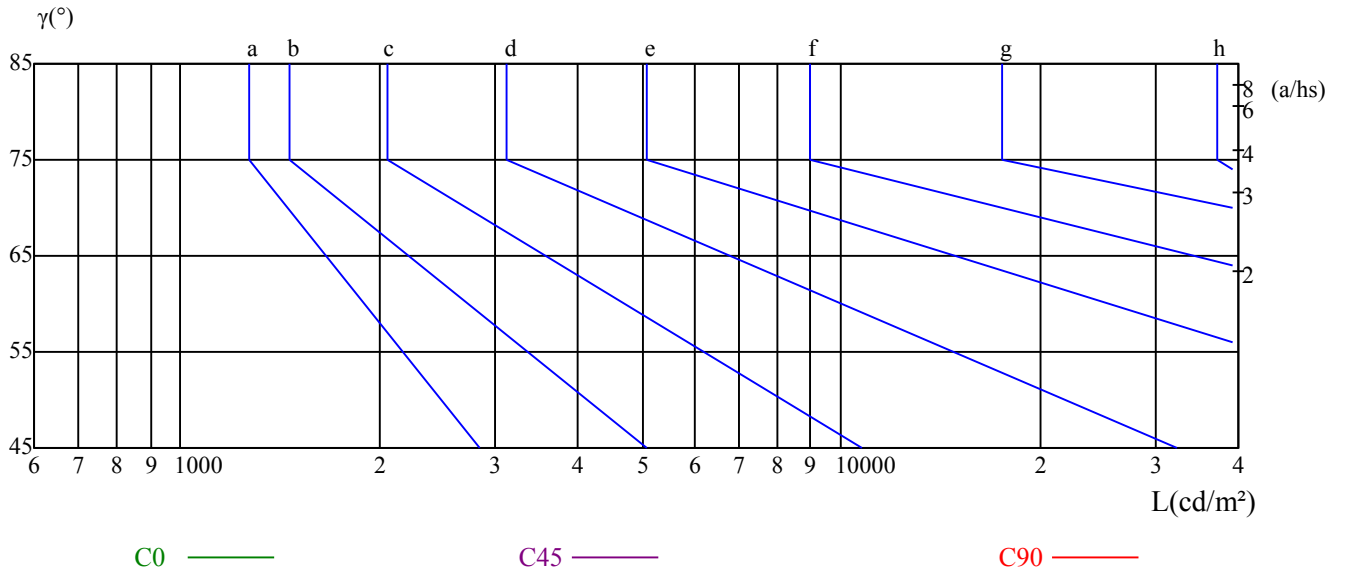
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

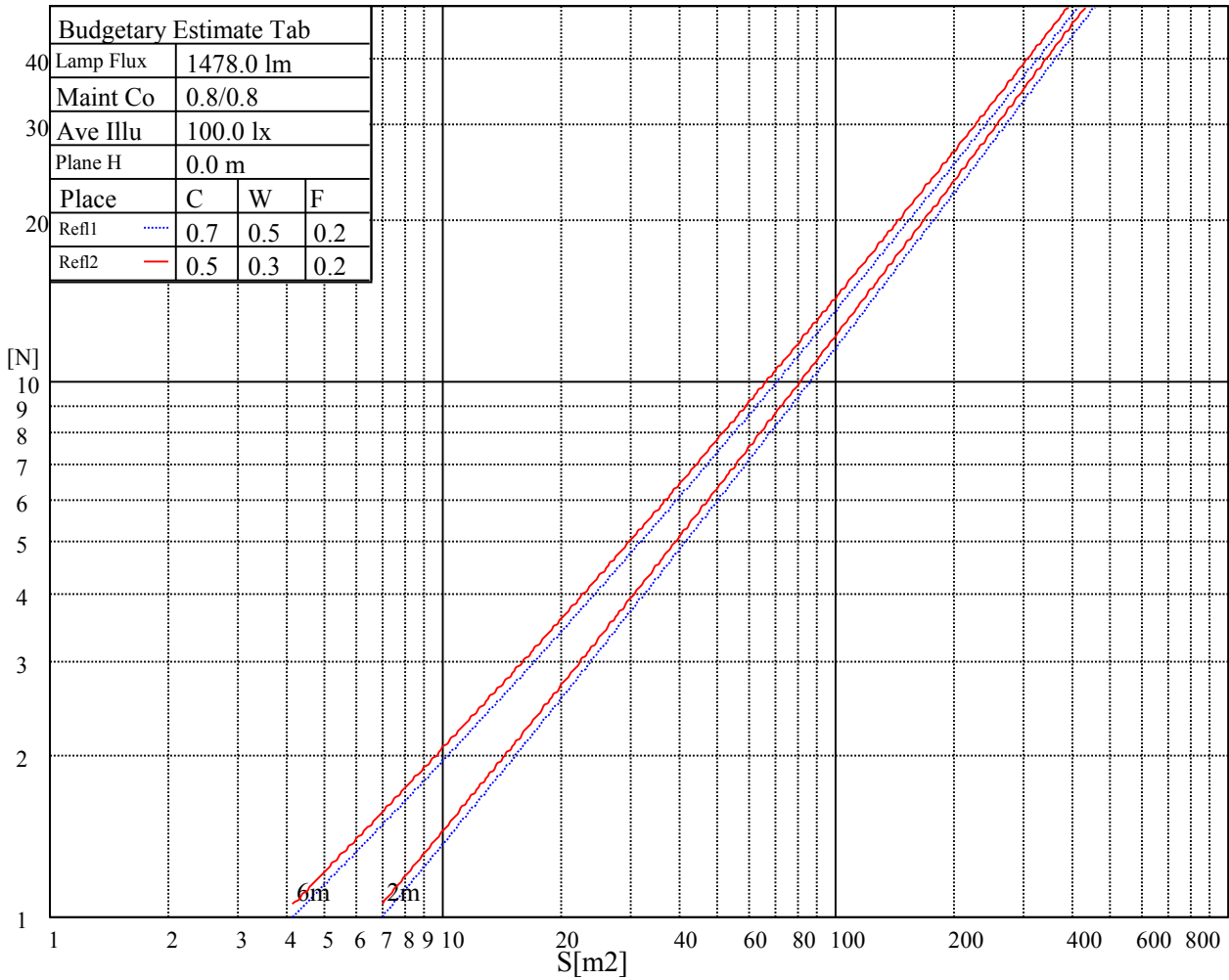
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

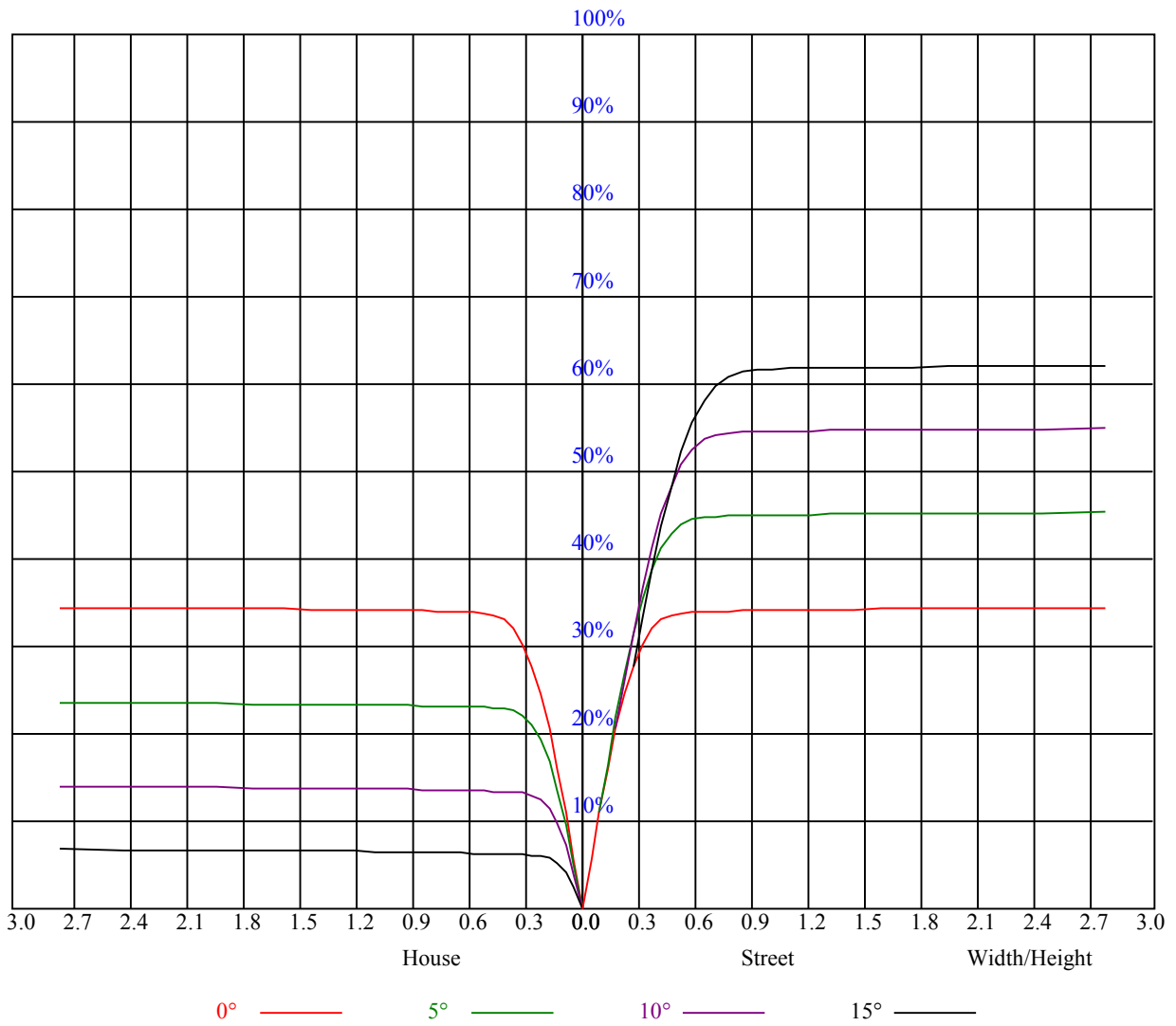
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.84	0.84	0.84	0.82	0.82	0.82	0.78	0.78	0.78	0.75	0.75	0.75	0.72	0.72	0.72	0.70
1	0.79	0.77	0.76	0.77	0.76	0.75	0.75	0.74	0.73	0.72	0.71	0.71	0.70	0.69	0.68	0.67
2	0.75	0.73	0.71	0.74	0.72	0.70	0.72	0.70	0.69	0.70	0.68	0.67	0.68	0.67	0.66	0.65
3	0.72	0.69	0.67	0.71	0.68	0.66	0.69	0.67	0.65	0.67	0.66	0.64	0.66	0.65	0.63	0.62
4	0.69	0.66	0.64	0.68	0.65	0.63	0.67	0.64	0.63	0.65	0.63	0.62	0.64	0.63	0.61	0.60
5	0.66	0.63	0.61	0.66	0.63	0.61	0.64	0.62	0.60	0.63	0.61	0.60	0.62	0.61	0.59	0.58
6	0.64	0.61	0.59	0.63	0.60	0.58	0.62	0.60	0.58	0.61	0.59	0.58	0.61	0.59	0.57	0.57
7	0.62	0.59	0.56	0.61	0.58	0.56	0.60	0.58	0.56	0.60	0.57	0.56	0.59	0.57	0.56	0.55
8	0.60	0.57	0.55	0.59	0.56	0.54	0.59	0.56	0.54	0.58	0.56	0.54	0.57	0.55	0.54	0.53
9	0.58	0.55	0.53	0.57	0.55	0.53	0.57	0.54	0.53	0.56	0.54	0.52	0.56	0.54	0.52	0.52
10	0.56	0.53	0.51	0.56	0.53	0.51	0.55	0.53	0.51	0.55	0.53	0.51	0.54	0.52	0.51	0.50



Nata 1-1010-M

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	3384.00	3269.81	2859.19	2190.38	1216.13	314.44	23.46	10.07	7.09
45.0	3377.81	3247.31	2844.56	2118.94	1227.38	293.06	20.48	9.34	6.86
90.0	3380.63	3151.13	2698.31	1911.38	929.03	129.15	15.30	8.44	6.64
135.0	3387.38	3229.88	2812.50	2076.75	1108.13	322.88	18.62	8.89	6.92
180.0	3384.00	3166.31	2652.75	1950.19	956.59	128.19	16.59	8.55	6.58
225.0	3377.81	3189.38	2701.13	1920.94	993.21	141.02	17.72	9.00	6.69
270.0	3380.63	3267.00	2843.44	2175.75	1251.00	306.56	27.51	10.41	7.26
315.0	3387.38	3197.25	2774.25	2017.13	1054.46	169.76	21.26	9.56	6.92
360.0	3384.00	3269.81	2859.19	2190.38	1216.13	314.44	23.46	10.07	7.09

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	5.91	5.34	5.06	4.89	4.78	4.78	4.73	4.67	4.73
45.0	5.79	5.29	5.06	4.89	4.84	4.78	4.73	4.73	4.67
90.0	5.68	5.29	5.01	4.84	4.84	4.78	4.73	4.73	4.61
135.0	5.85	5.34	5.06	4.89	4.78	4.73	4.73	4.67	4.61
180.0	5.74	5.29	5.01	4.89	4.78	4.73	4.73	4.67	4.61
225.0	5.74	5.34	5.06	4.95	4.89	4.84	4.84	4.78	4.67
270.0	6.08	5.46	5.18	5.06	4.95	4.95	4.95	4.78	4.61
315.0	5.85	5.34	5.06	4.95	4.84	4.78	4.73	4.73	4.67
360.0	5.91	5.34	5.06	4.89	4.78	4.78	4.73	4.67	4.73

C/γ(°)	90.0
0.0	4.61
45.0	4.61
90.0	4.61
135.0	4.61
180.0	4.61
225.0	4.61
270.0	4.61
315.0	4.61
360.0	4.61