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Nata

LumCAT: 3-1944-M	
Luminaire: BJB 47.319.2131	
Report No: GC2017080819	Voltage(V): 0.0000
Test No: NT-0010	Current(A): 0.0000
LampCAT: CREE CXA1816	Power (W): 0.0000
Lamp flux(lm): 2010.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 86	Width(mm): 86
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1840.80
Efficiency(%): 91.58%
Lumens(lm)/Power(W): 0.00
Central intensity(cd): 3810.187
Maximum intensity(cd): 3810.187
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=38.1
 [C90/270]Total=38.1
Field angle(10%Imax): [C0/180]Total=69.0
 [C90/270]Total=69.0
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(%): 91.58%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.654%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/8/8
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.46

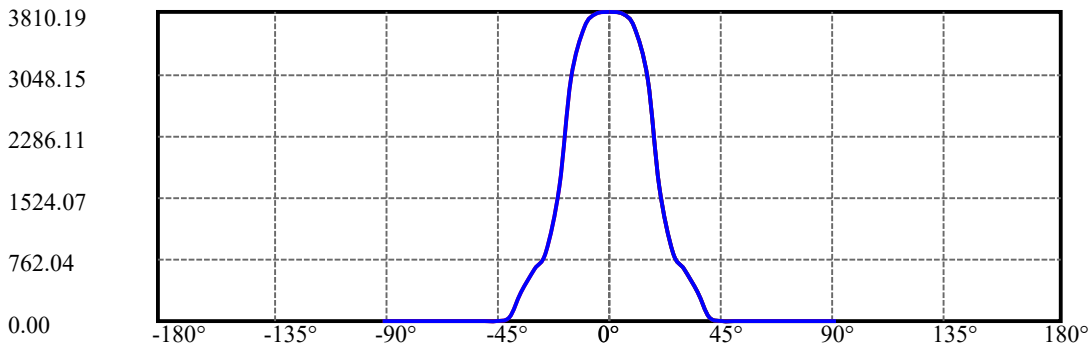
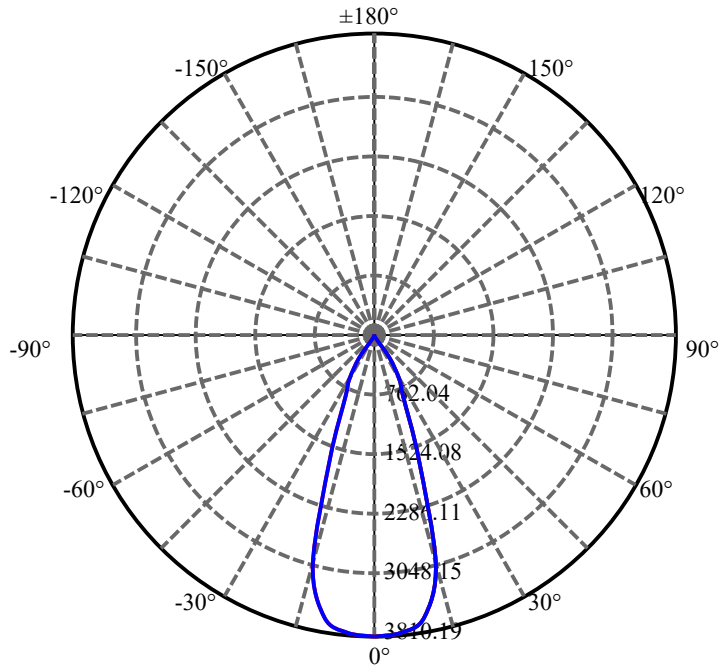
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3810.187	0.000	0	.000%	.000%
5.0	3779.091	90.728	90.728	4.514%	4.929%
10.0	3618.745	264.644	355.372	13.166%	19.305%
15.0	2990.300	392.044	747.416	19.505%	40.603%
20.0	1645.590	382.062	1129.478	19.008%	61.358%
25.0	850.343	261.777	1391.255	13.024%	75.579%
30.0	631.625	187.544	1578.8	9.331%	85.767%
35.0	352.956	144.986	1723.786	7.213%	93.643%
40.0	56.034	68.237	1792.023	3.395%	97.350%
45.0	10.407	12.302	1804.325	.612%	98.018%
50.0	9.106	3.943	1808.268	.196%	98.233%
55.0	8.591	3.848	1812.116	.191%	98.442%
60.0	8.285	3.901	1816.017	.194%	98.654%
65.0	8.097	3.983	1819.999	.198%	98.870%
70.0	7.958	4.065	1824.065	.202%	99.091%
75.0	7.854	4.133	1828.198	.206%	99.315%
80.0	7.770	4.181	1832.378	.208%	99.542%
85.0	7.715	4.208	1836.586	.209%	99.771%
90.0	7.687	4.217	1840.803	.210%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1578.80	78.55%	85.77%
0-40	1792.02	89.16%	97.35%
0-60	1816.02	90.35%	98.65%
0-90	1836.59	91.37%	99.77%
0-120	1836.59	91.37%	99.77%
0-180	1840.80	91.58%	100.00%
60-90	24.47	1.22%	1.33%
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%
0-27.17	1472.64	73.27%	80.00%

ZONAL LUMEN SUMMARY

0-10	355.37
10-20	774.11
20-30	449.32
30-40	213.22
40-50	16.24
50-60	7.75
60-70	8.05
70-80	8.31
80-90	4.21
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: —————

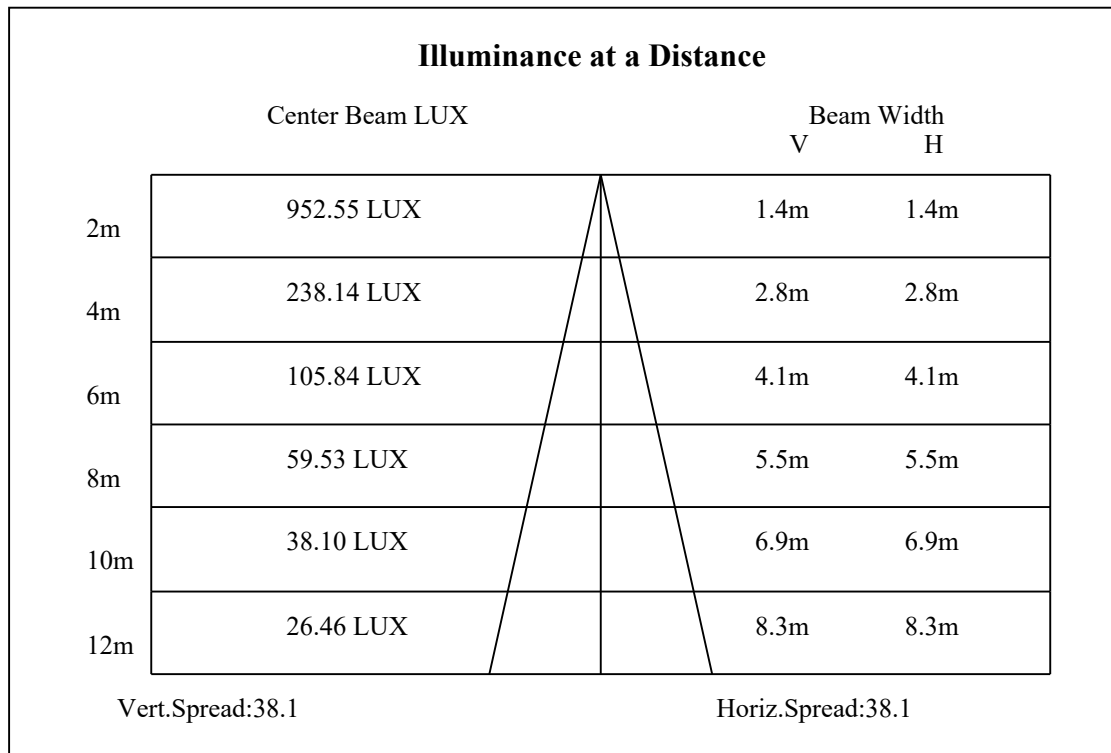
C90/C270: —————

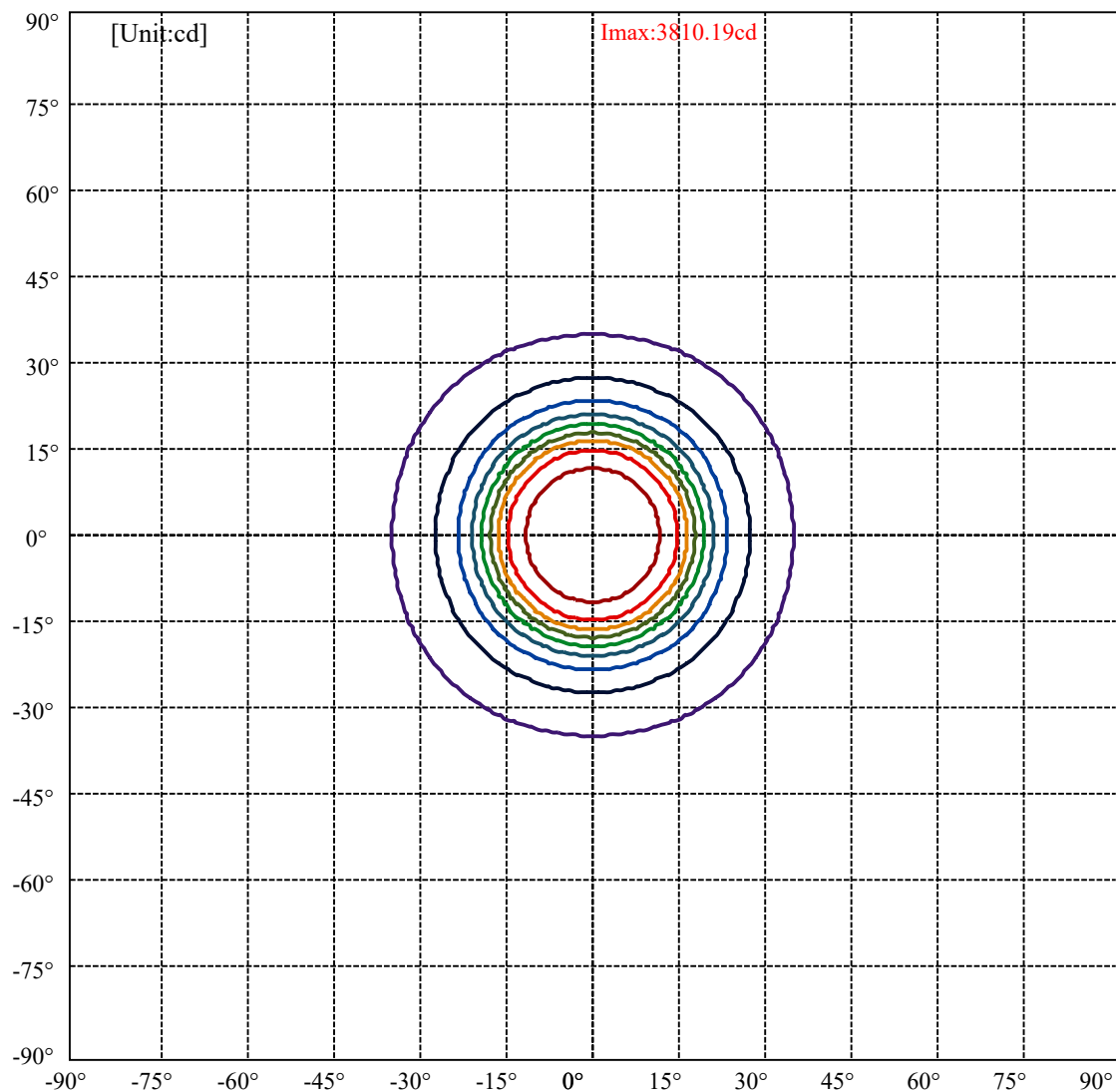
Field angle(10%Imax):C0/180Left:34.5 Right:34.5

:C90/270Left:34.5 Right:34.5

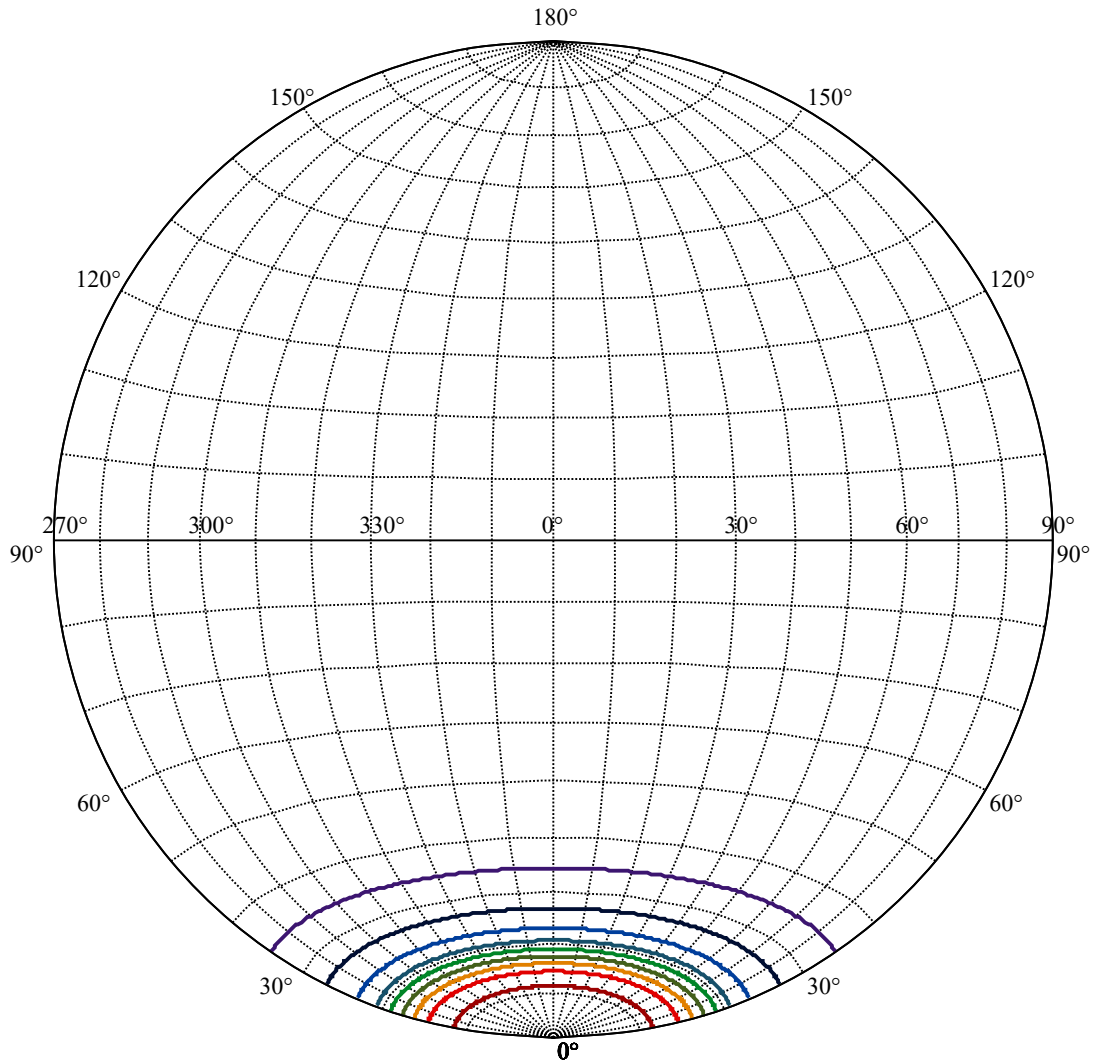
Beam Angle(50%Imax):C0/180Left:19.0 Right:19.0

:C90/270Left:19.0 Right:19.0





(10%Imax) 381.019	—
(20%Imax) 762.037	—
(30%Imax) 1143.06	—
(40%Imax) 1524.07	—
(50%Imax) 1905.09	—
(60%Imax) 2286.11	—
(70%Imax) 2667.13	—
(80%Imax) 3048.15	—
(90%Imax) 3429.17	—



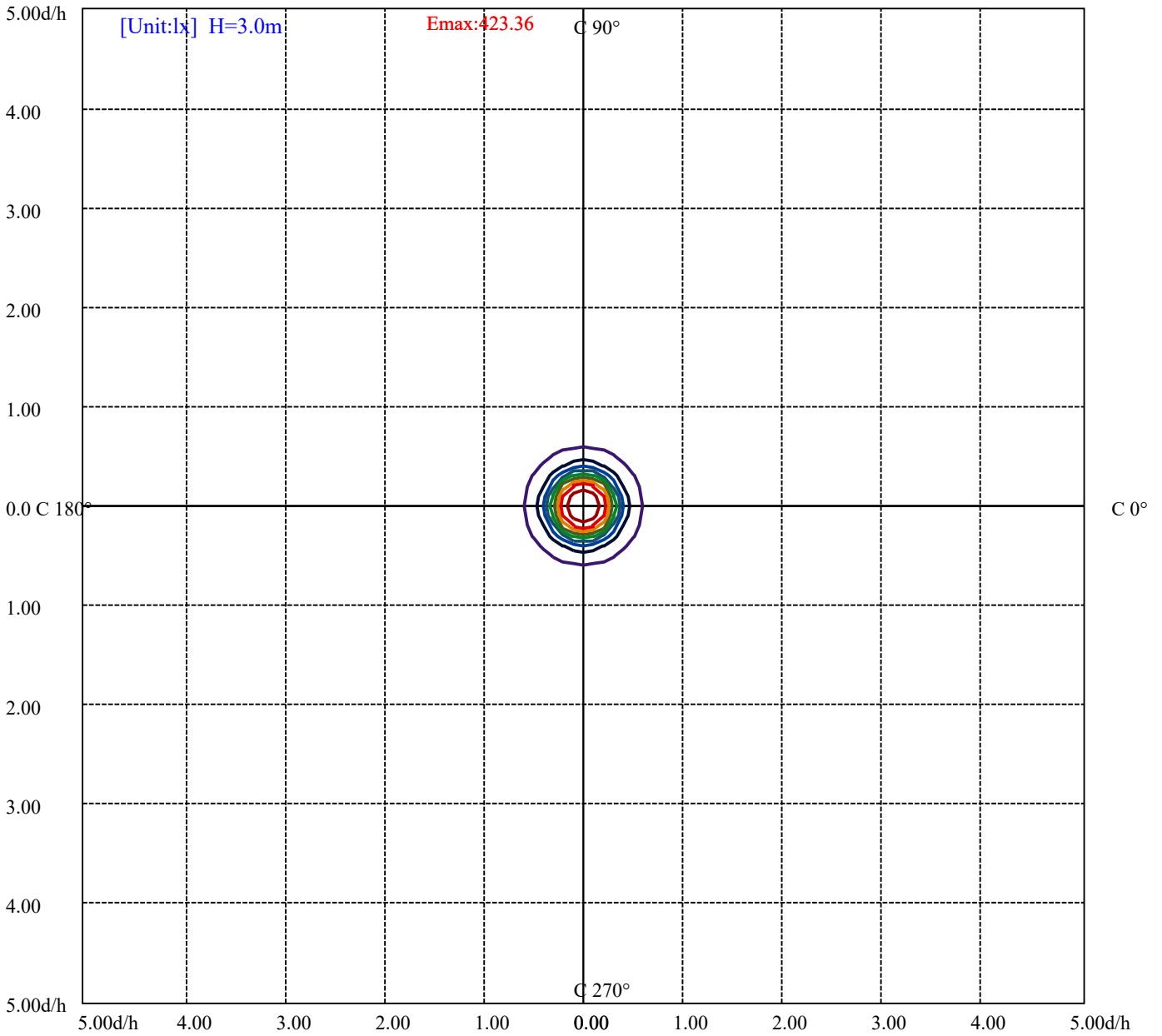
House

[Unit:cd]

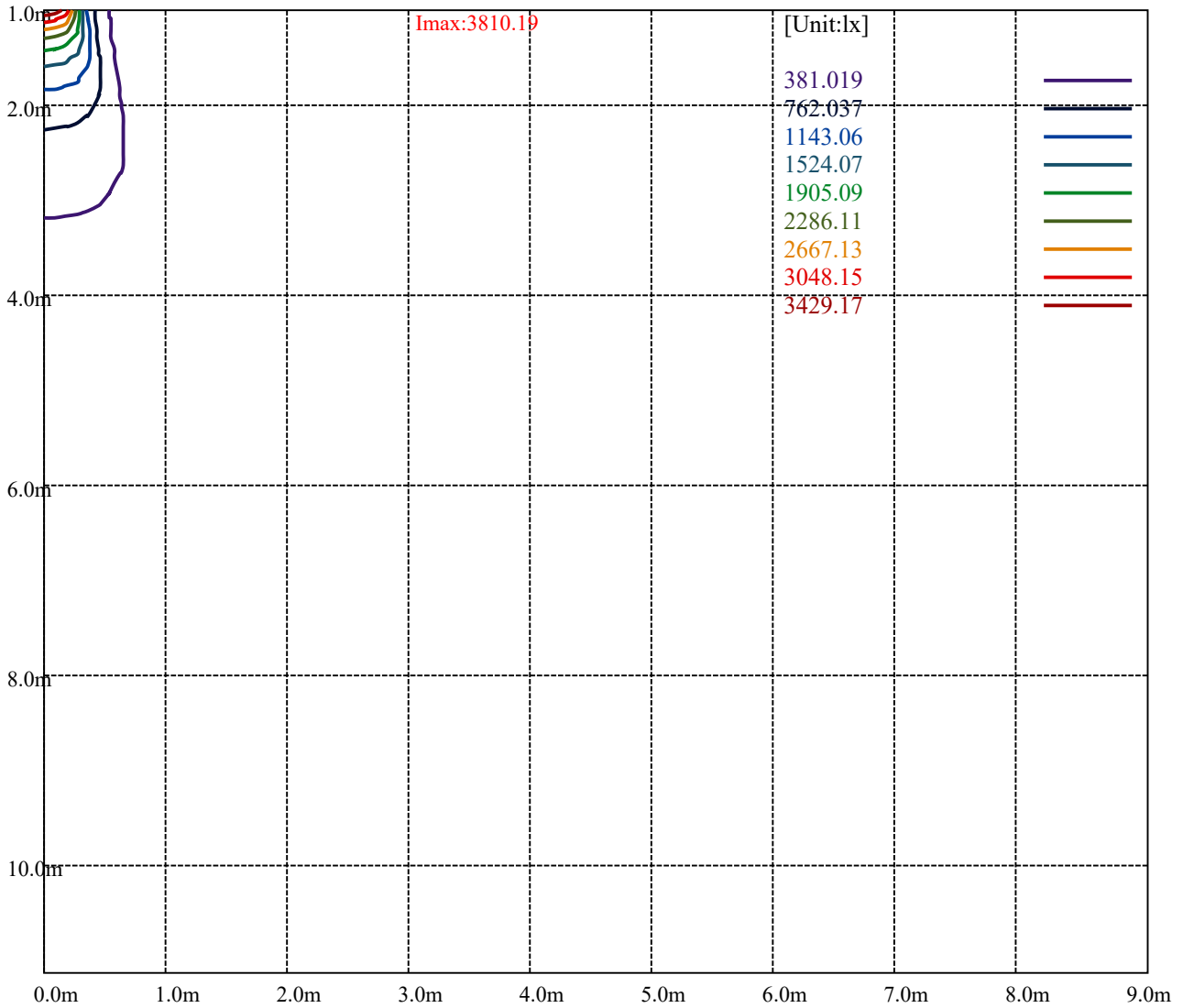
Road

Imax:3810.19

(10%Imax)	381.019	—
(20%Imax)	762.037	—
(30%Imax)	1143.06	—
(40%Imax)	1524.07	—
(50%Imax)	1905.09	—
(60%Imax)	2286.11	—
(70%Imax)	2667.13	—
(80%Imax)	3048.15	—
(90%Imax)	3429.17	—



- (10%Emax) 42.33545
- (20%Emax) 84.67078
- (30%Emax) 127.0067
- (40%Emax) 169.3411
- (50%Emax) 211.6767
- (60%Emax) 254.0122
- (70%Emax) 296.3478
- (80%Emax) 338.6833
- (90%Emax) 381.0189



Luminance Table

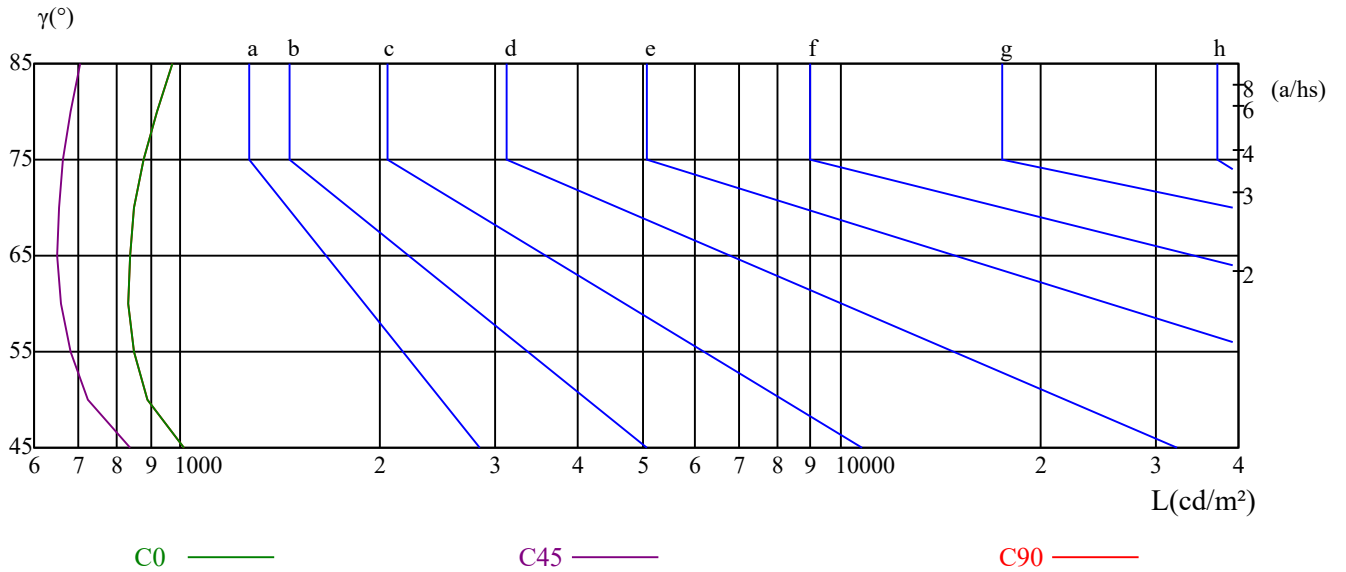
γ	45	50	55	60	65	70	75	80	85
C0	1013	889	848	833	837	852	879	919	975
C45	838	725	681	659	652	653	662	679	706
C90	1013	889	848	833	837	852	879	919	975

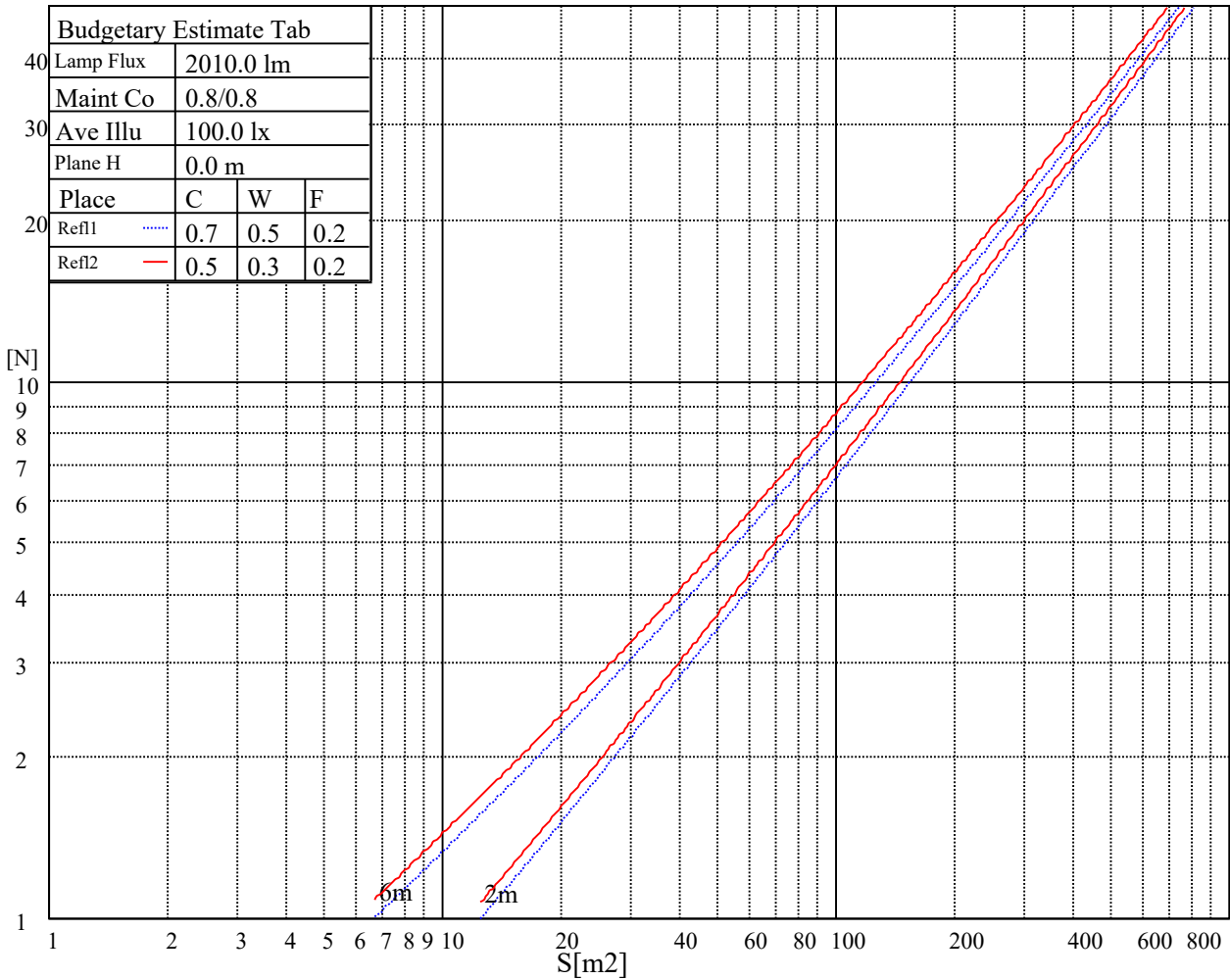
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2652	2652	2652	4200	4200	4200	12251	12251	12251

Glare Table

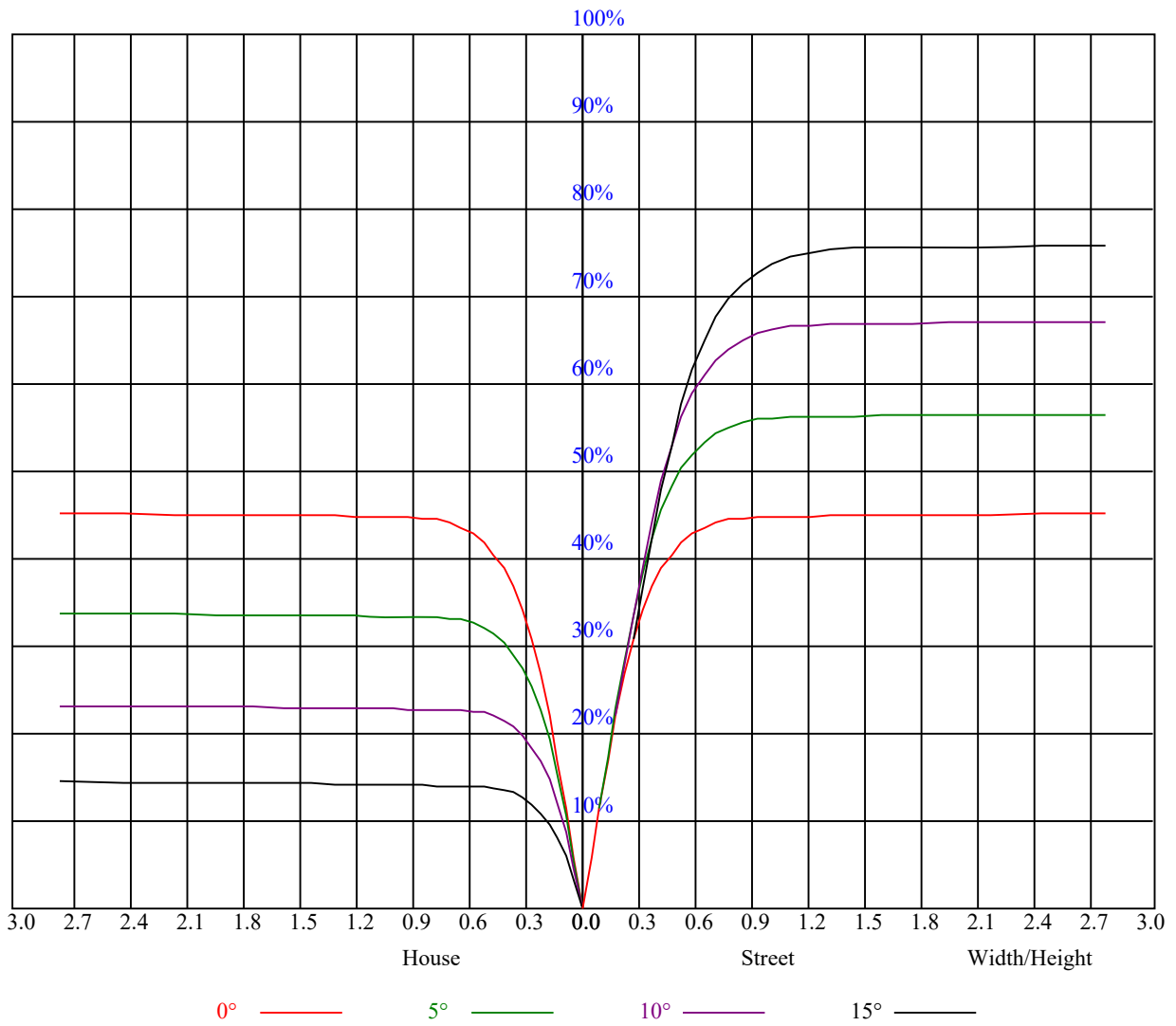
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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 RHOF=20 CU															
0	1.09	1.09	1.09	1.06	1.06	1.06	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.92
1	1.02	1.00	0.98	1.00	0.98	0.97	0.96	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	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.84	0.82
3	0.91	0.87	0.84	0.90	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.83	0.81	0.79	0.78
4	0.86	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.76	0.80	0.78	0.76	0.74
5	0.82	0.78	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
6	0.78	0.74	0.70	0.78	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
7	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	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	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.62
9	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.59
10	0.66	0.61	0.58	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.57



Nata 3-1944-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	3815.47	3771.51	3674.12	3385.29	2337.92	1094.11	683.40	562.64	286.05
45.0	3799.33	3744.24	3617.91	3118.16	1760.26	858.70	636.10	378.99	19.37
90.0	3806.57	3770.40	3539.44	2750.86	1106.47	723.53	598.53	213.76	14.97
135.0	3819.37	3801.00	3620.14	2791.48	1459.74	755.19	613.84	293.84	15.97
180.0	3815.47	3789.32	3479.89	2506.55	1082.65	692.64	587.79	124.27	13.69
225.0	3799.33	3778.74	3642.95	2930.06	1347.33	791.03	620.96	305.69	18.75
270.0	3806.57	3793.21	3715.30	3263.41	2061.34	967.78	662.25	484.17	45.52
315.0	3819.37	3784.31	3660.21	3176.59	2009.02	919.75	650.12	460.29	33.95
360.0	3815.47	3771.51	3674.12	3385.29	2337.92	1094.11	683.40	562.64	286.05

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	12.58	9.57	8.85	8.51	8.24	8.07	7.90	7.85	7.85
45.0	9.96	9.13	8.57	8.29	8.13	8.01	7.85	7.74	7.68
90.0	9.63	8.79	8.46	8.18	8.01	7.90	7.79	7.79	7.62
135.0	9.46	8.79	8.40	8.18	8.01	7.85	7.79	7.68	7.68
180.0	9.29	8.79	8.46	8.18	8.07	7.90	7.85	7.74	7.79
225.0	10.24	9.07	8.57	8.29	8.07	7.96	7.85	7.79	7.68
270.0	11.24	9.41	8.74	8.35	8.13	8.01	7.90	7.79	7.68
315.0	10.85	9.29	8.68	8.29	8.13	7.96	7.90	7.79	7.74
360.0	12.58	9.57	8.85	8.51	8.24	8.07	7.90	7.85	7.85

C/γ(°)	90.0
0.0	7.79
45.0	7.68
90.0	7.62
135.0	7.68
180.0	7.68
225.0	7.68
270.0	7.68
315.0	7.68
360.0	7.79