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Nata

LumCAT: 2-1565-M	
Luminaire: BJB47.319.6105	
Report No: NT2017072708	Voltage(V): 38.0000
Test No: GC2017072708	Current(A): 0.3500
LampCAT: CXA1512	Power (W): 13.3000
Lamp flux(lm): 1488.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 68	Width(mm): 68
Phm Type: C	Height(mm): 45

Photometric Results

Lumens(lm): 1331.30
Efficiency(%): 89.47%
Lumens(lm)/Power(W): 100.10
Central intensity(cd): 1393.238
Maximum intensity(cd): 1393.238
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=62.7
 [C90/270]Total=62.7
Field angle(10%Imax): [C0/180]Total=85.6
 [C90/270]Total=85.6
Maximum s/h(1/2): C0_180=0.94 C90_270=0.94
Maximum s/h(1/4): C0_180=0.92 C90_270=0.92
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.94%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.150%

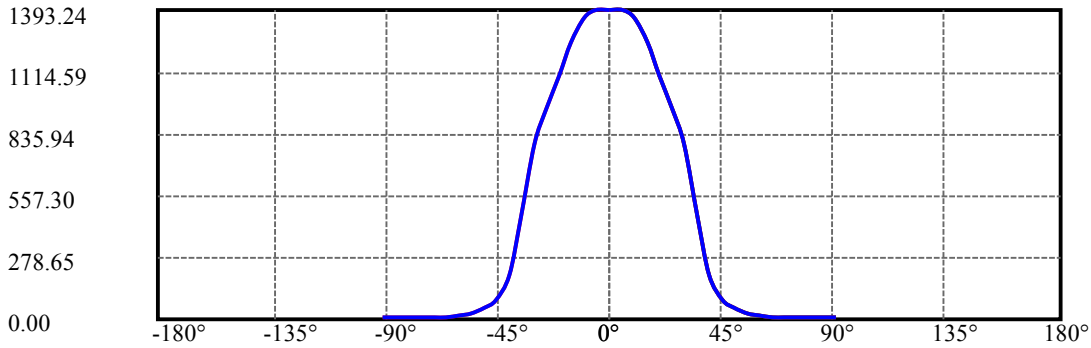
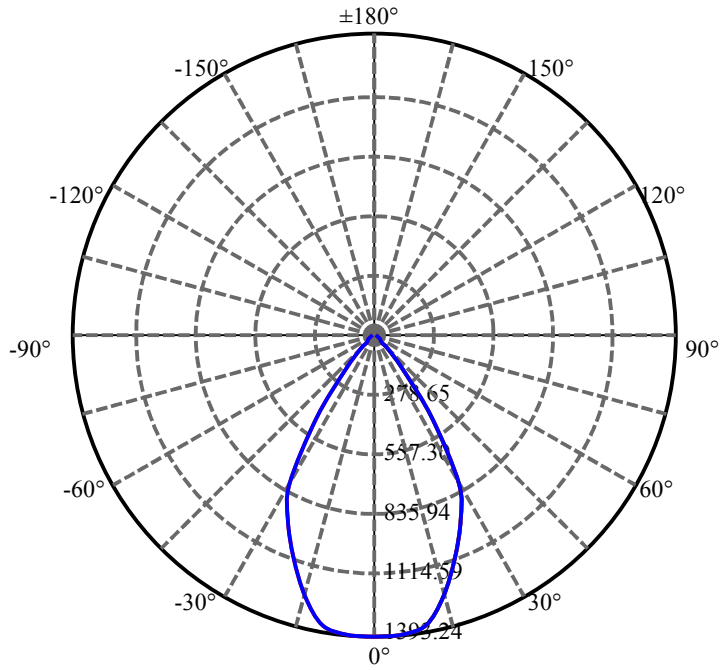
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1393.238	8.332	8.332	.560%	.626%
5.0	1390.942	66.450	74.782	4.466%	5.617%
10.0	1359.151	129.368	204.15	8.694%	15.335%
15.0	1246.540	176.845	380.995	11.885%	28.618%
20.0	1095.557	205.389	586.383	13.803%	44.046%
25.0	942.592	218.354	804.737	14.674%	60.447%
30.0	785.592	215.306	1020.043	14.469%	76.620%
35.0	461.887	145.217	1165.26	9.759%	87.528%
40.0	203.344	71.645	1236.906	4.815%	92.909%
45.0	88.423	34.272	1271.178	2.303%	95.484%
50.0	51.513	21.630	1292.808	1.454%	97.109%
55.0	28.758	12.913	1305.72	.868%	98.078%
60.0	16.619	7.889	1313.609	.530%	98.671%
65.0	9.537	4.738	1318.347	.318%	99.027%
70.0	5.830	3.003	1321.35	.202%	99.252%
75.0	5.336	2.825	1324.175	.190%	99.465%
80.0	5.308	2.865	1327.04	.193%	99.680%
85.0	5.252	2.868	1329.908	.193%	99.895%
90.0	5.085	1.394	1331.302	.094%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1020.04	68.55%	76.62%
0-40	1236.91	83.13%	92.91%
0-60	1313.61	88.28%	98.67%
0-90	1329.91	89.38%	99.90%
0-120	1329.91	89.38%	99.90%
0-180	1331.30	89.47%	100.00%
60-90	24.19	1.63%	1.82%
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%
0-31.55	1065.04	71.58%	80.00%

ZONAL LUMEN SUMMARY

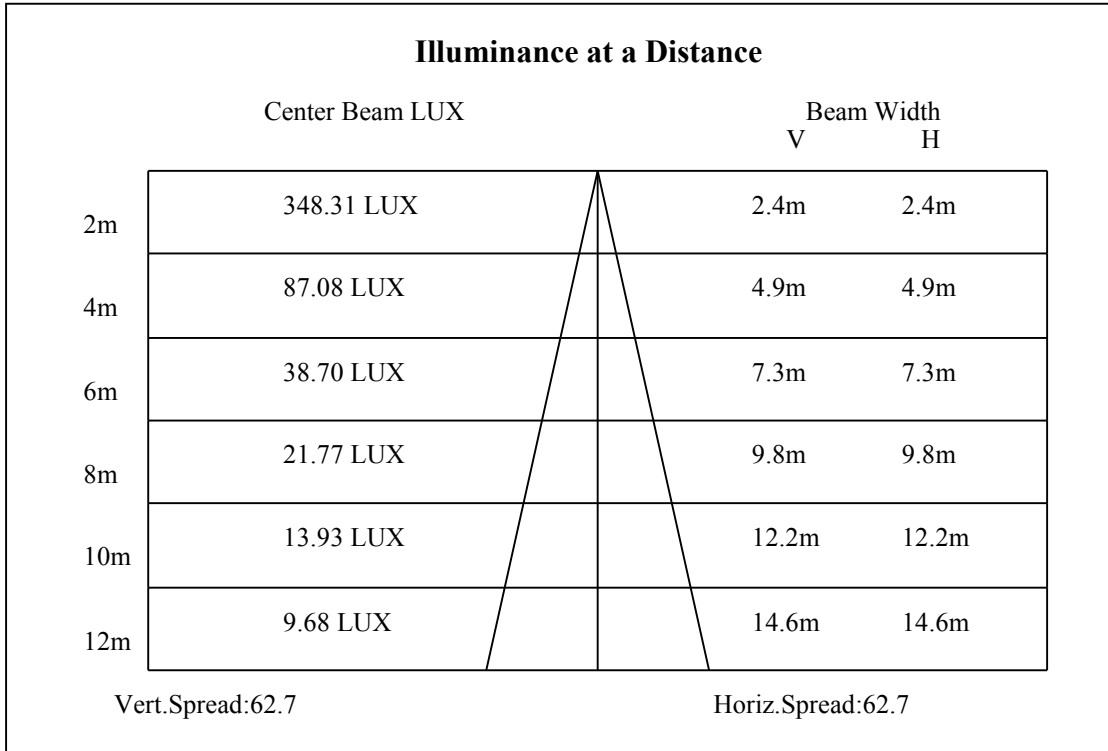
0-10	204.15
10-20	382.23
20-30	433.66
30-40	216.86
40-50	55.90
50-60	20.80
60-70	7.74
70-80	5.69
80-90	2.87
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

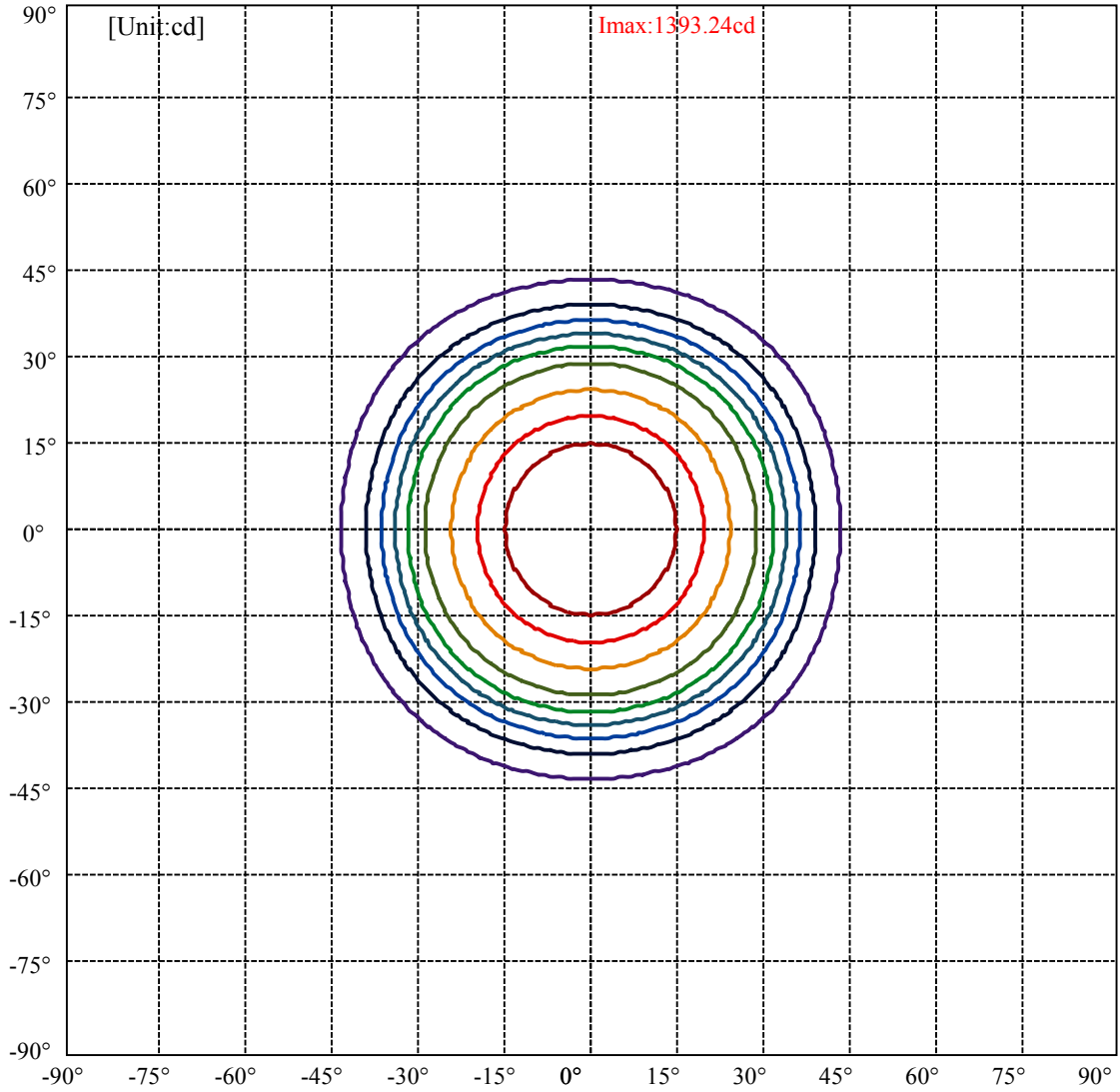


C0(Max): —————
C0/C180: —————
C90/C270: —————

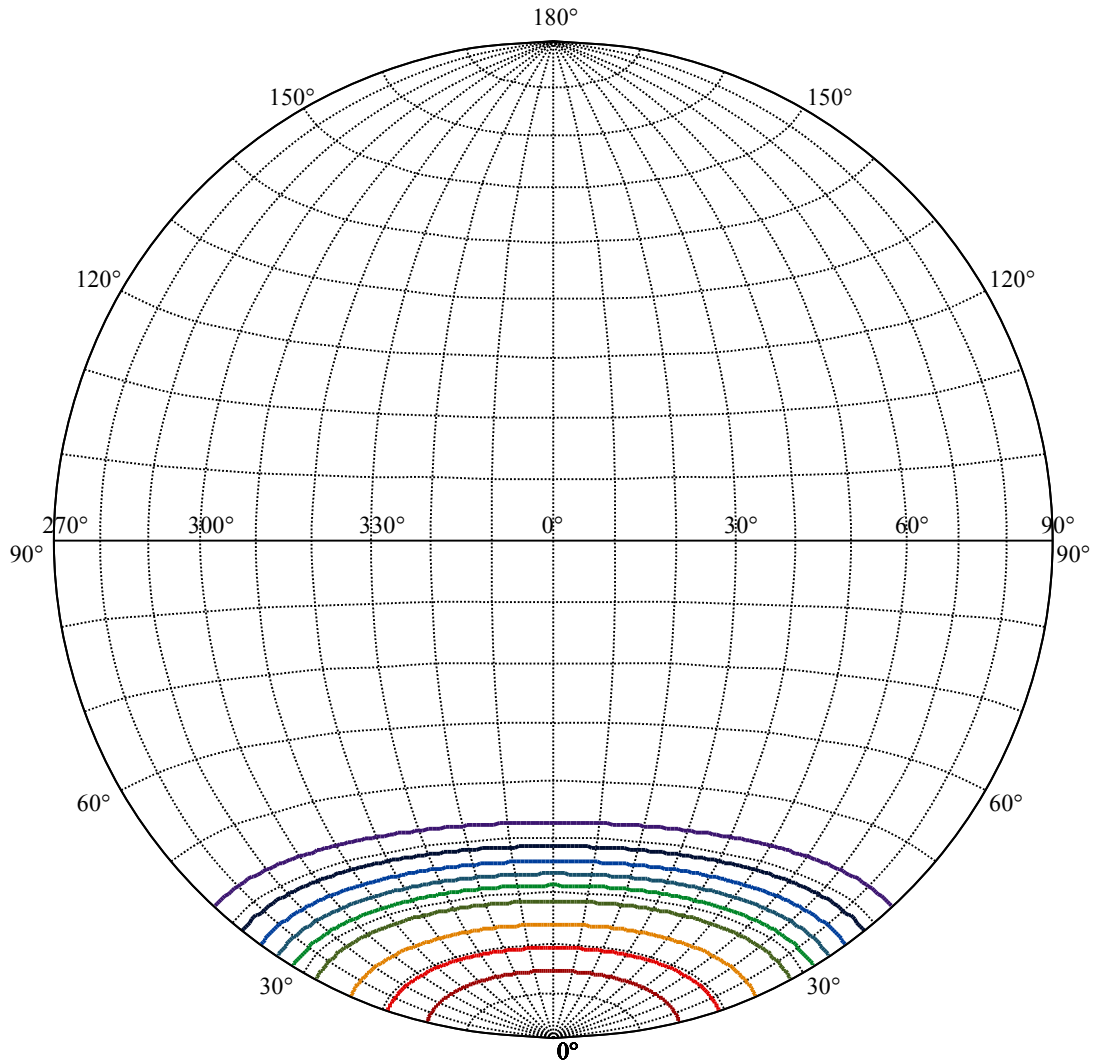
Field angle(10%Imax):C0/180Left:42.8 Right:42.8
:C90/270Left:42.8 Right:42.8

Beam Angle(50%Imax):C0/180Left:31.4 Right:31.4
:C90/270Left:31.4 Right:31.4





(10%Imax) 139.324	—
(20%Imax) 278.648	—
(30%Imax) 417.971	—
(40%Imax) 557.295	—
(50%Imax) 696.619	—
(60%Imax) 835.943	—
(70%Imax) 975.266	—
(80%Imax) 1114.59	—
(90%Imax) 1253.91	—



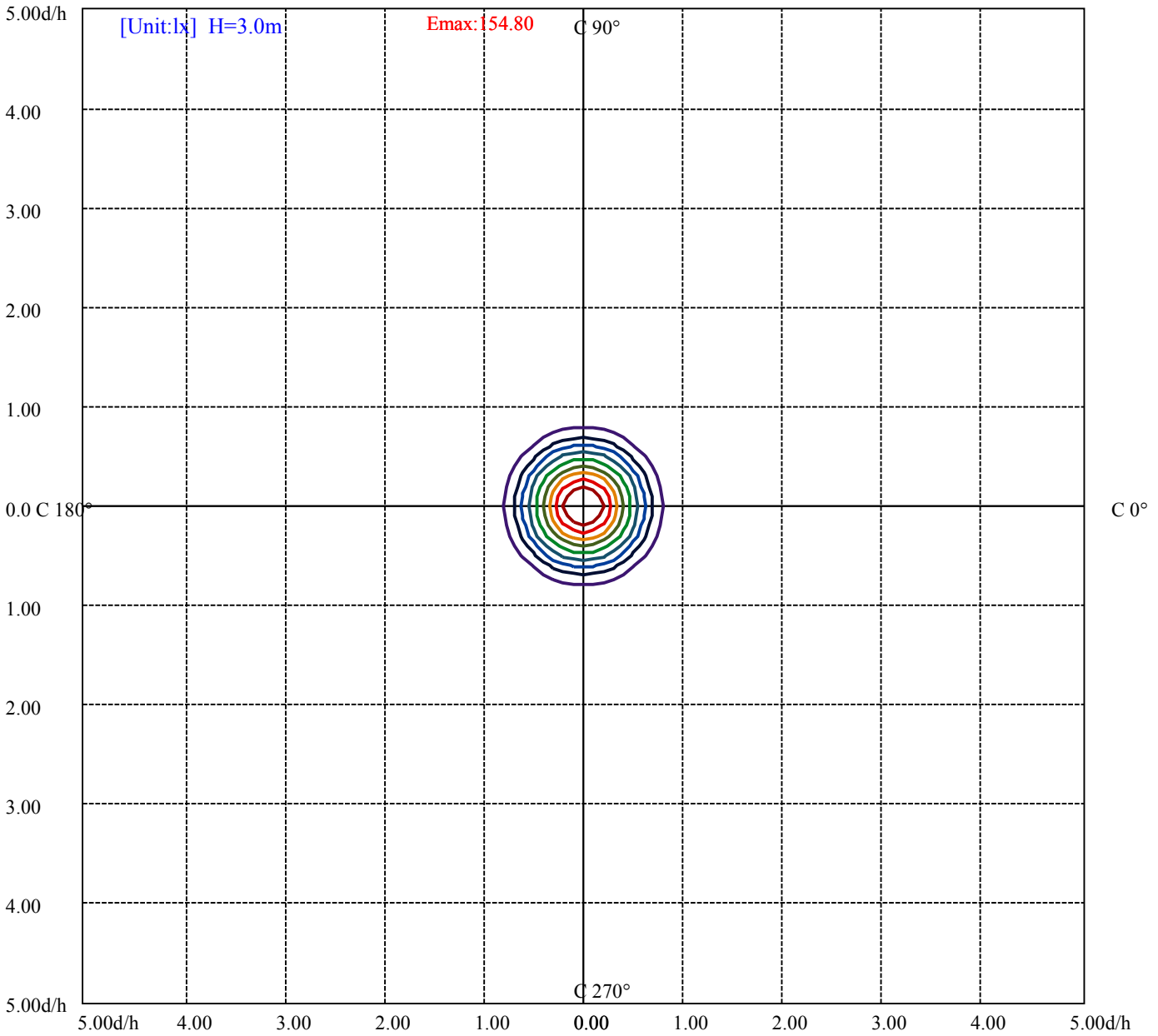
House

[Unit:cd]

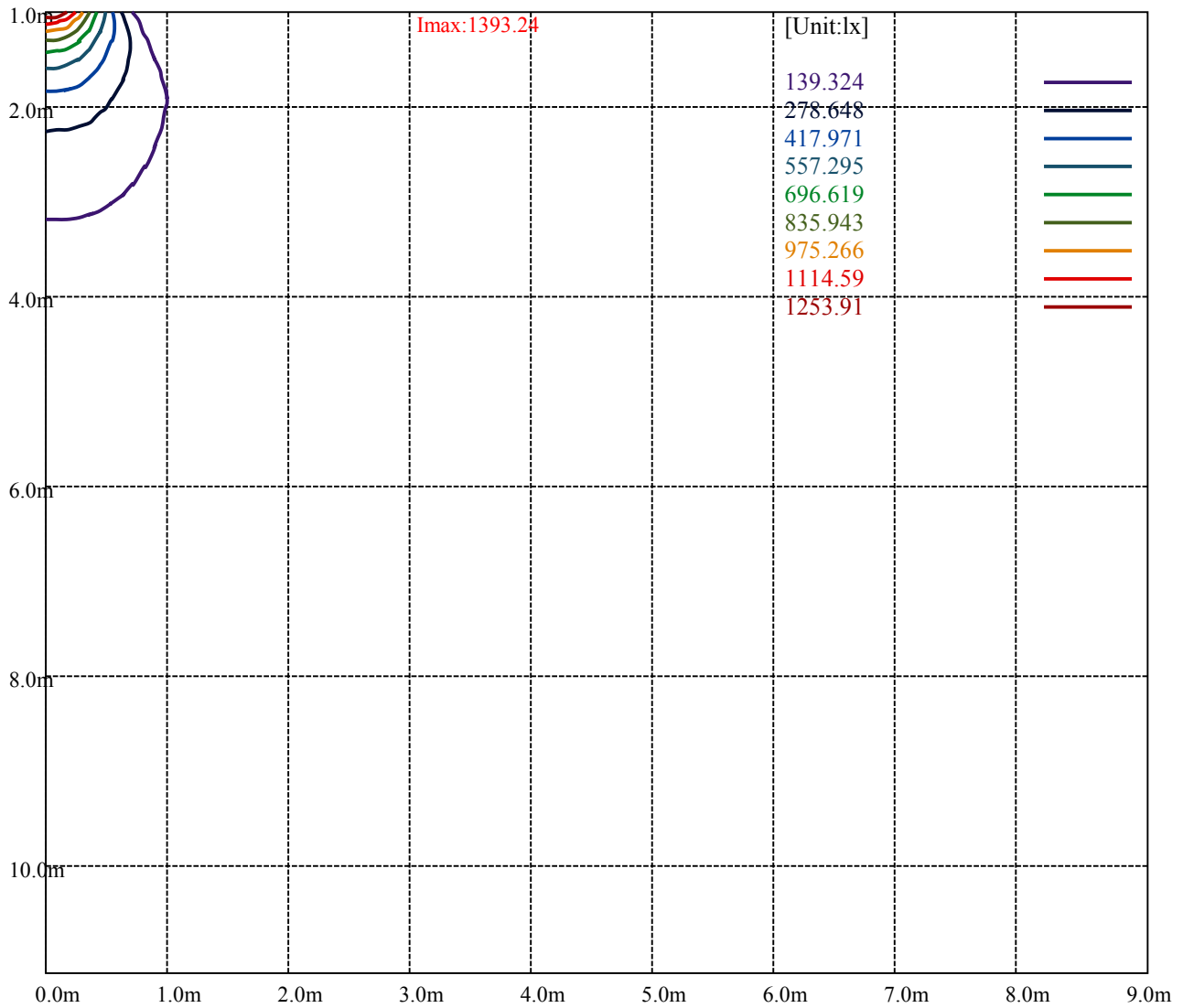
Road

I_{max}:1393.24

(10%I _{max}) 139.324	—
(20%I _{max}) 278.648	—
(30%I _{max}) 417.971	—
(40%I _{max}) 557.295	—
(50%I _{max}) 696.619	—
(60%I _{max}) 835.943	—
(70%I _{max}) 975.266	—
(80%I _{max}) 1114.59	—
(90%I _{max}) 1253.91	—



(10%Emax) 15.48044	—
(20%Emax) 30.96089	—
(30%Emax) 46.44122	—
(40%Emax) 61.92167	—
(50%Emax) 77.40211	—
(60%Emax) 92.88255	—
(70%Emax) 108.3629	—
(80%Emax) 123.8433	—
(90%Emax) 139.3233	—



Luminance Table

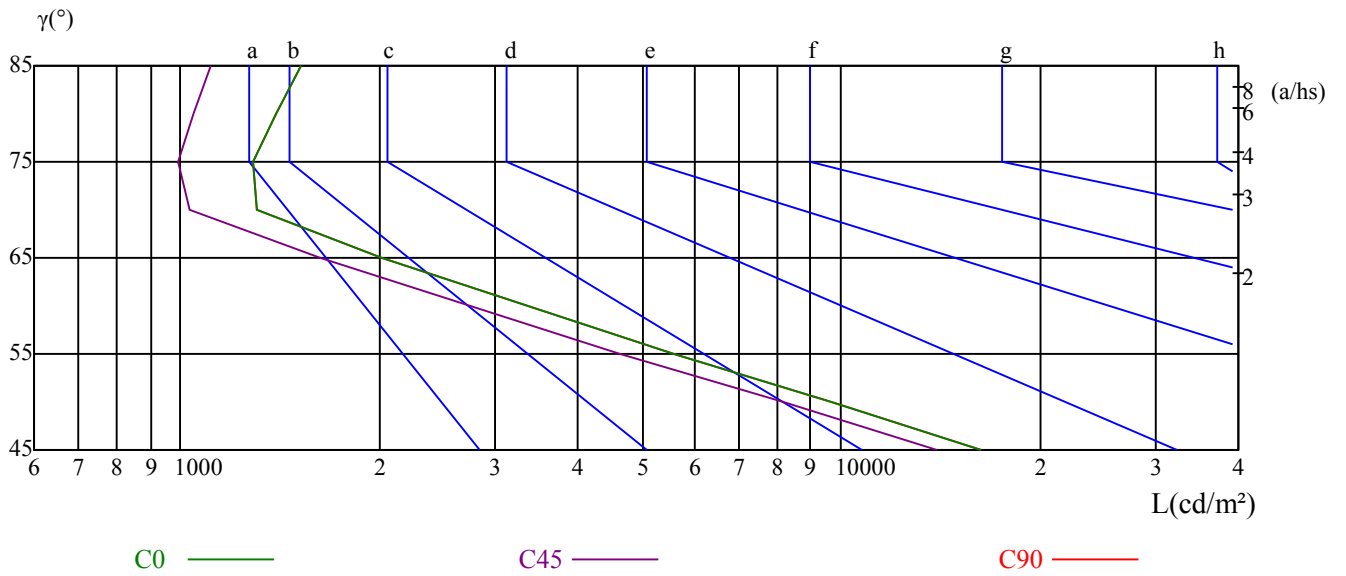
γ	45	50	55	60	65	70	75	80	85
C0	16274	9689	5575	3349	2017	1308	1285	1391	1522
C45	13970	8193	4641	2743	1623	1032	992	1048	1114
C90	16274	9689	5575	3349	2017	1308	1285	1391	1522

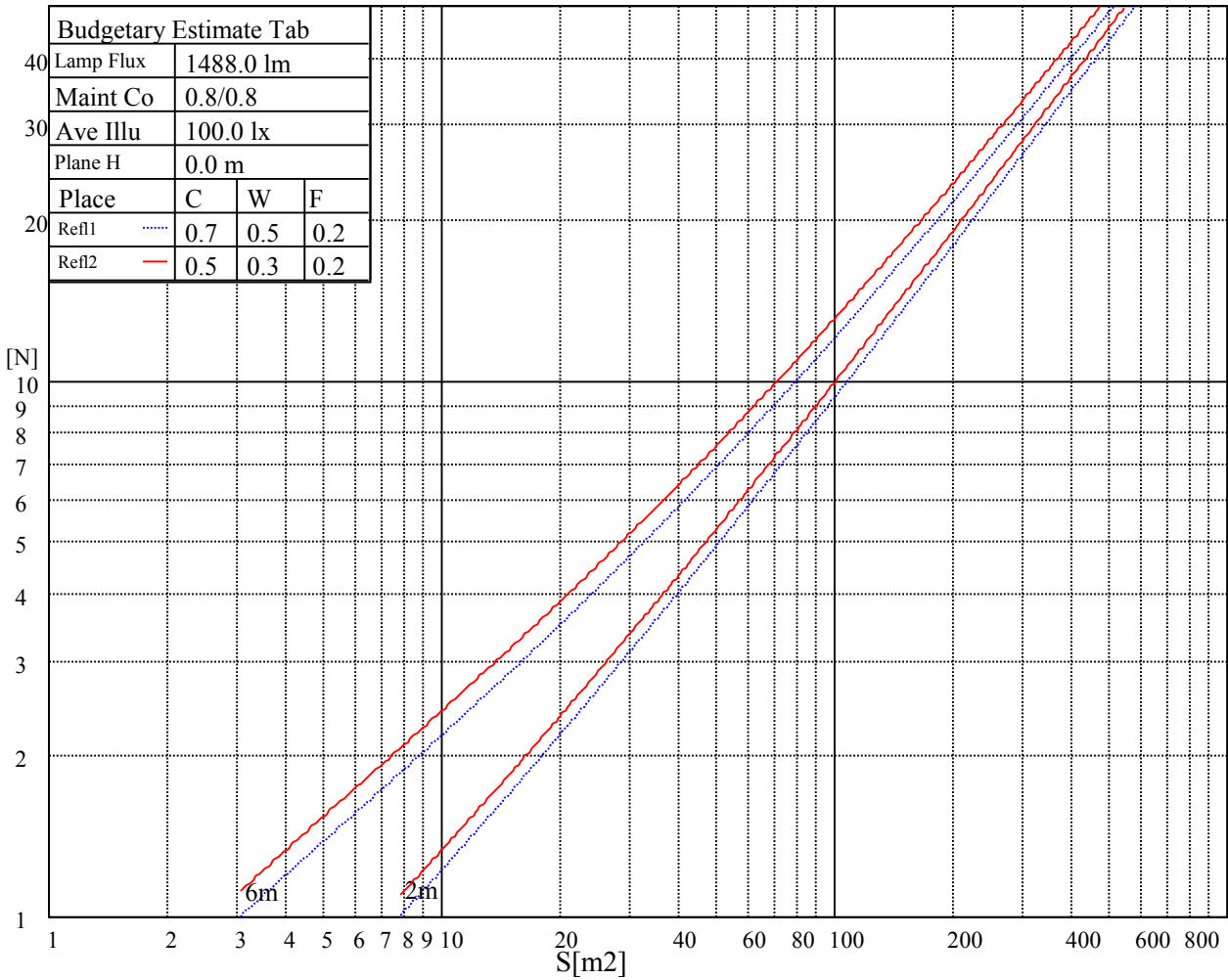
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4880	4880	4880	4458	4458	4458	13032	13032	13032

Glare Table

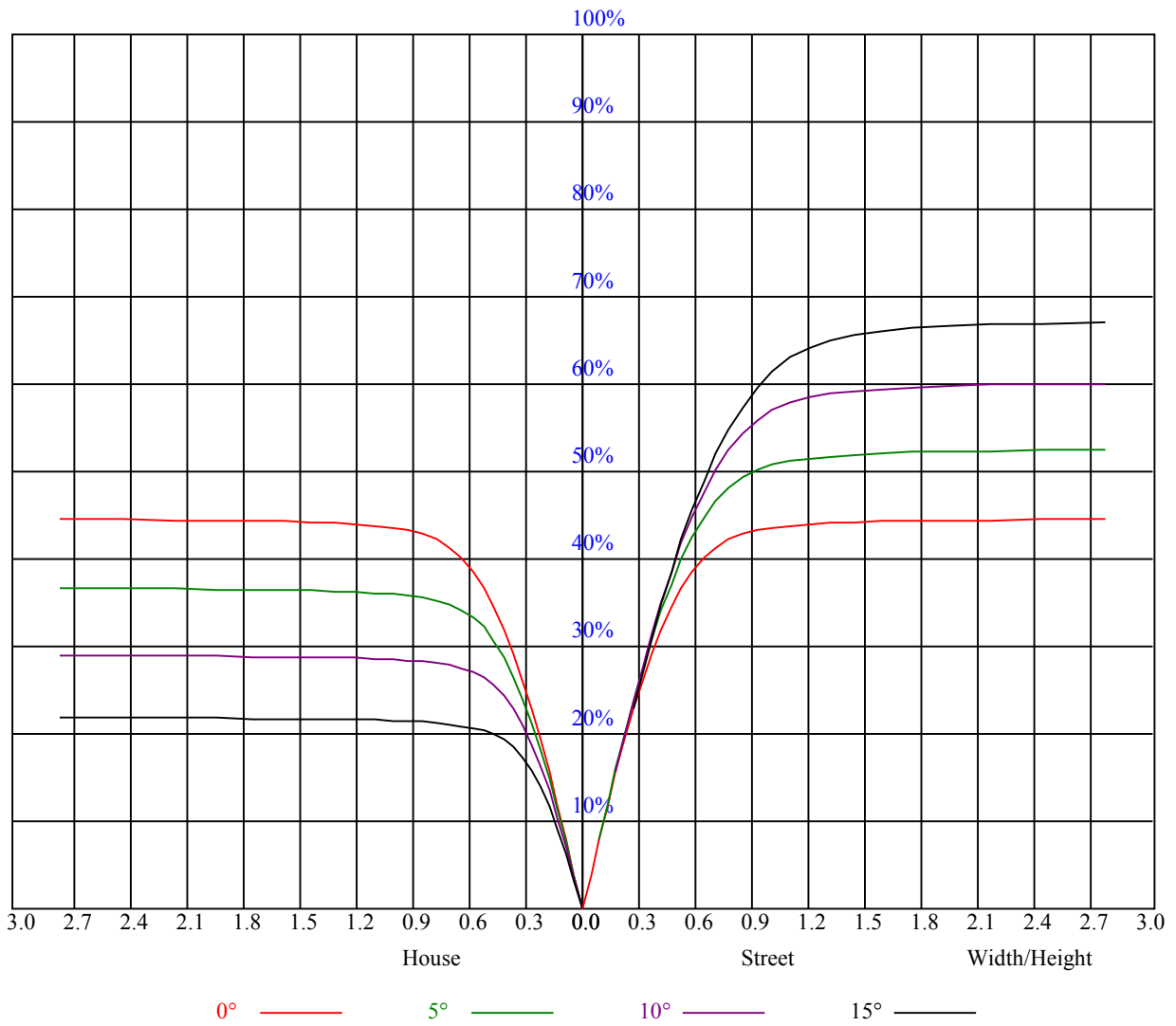
Glare	Quality	Service Values Illuminance(lx)							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.07	1.07	1.07	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	0.99	0.97	0.94	0.97	0.95	0.93	0.93	0.92	0.90	0.90	0.89	0.87	0.87	0.86	0.85	0.83
2	0.92	0.89	0.86	0.91	0.87	0.85	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.79	0.78
3	0.86	0.82	0.78	0.85	0.81	0.78	0.83	0.79	0.77	0.81	0.78	0.75	0.79	0.76	0.74	0.73
4	0.81	0.76	0.72	0.80	0.76	0.72	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.68
5	0.76	0.71	0.67	0.75	0.71	0.67	0.74	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.65	0.64
6	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.60
7	0.68	0.63	0.59	0.67	0.63	0.59	0.66	0.62	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.57
8	0.64	0.59	0.56	0.64	0.59	0.56	0.63	0.59	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.54
9	0.61	0.56	0.53	0.61	0.56	0.53	0.60	0.56	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.51
10	0.58	0.53	0.50	0.58	0.53	0.50	0.57	0.53	0.50	0.56	0.52	0.50	0.56	0.52	0.49	0.48



Nata 2-1565-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	1394.07	1433.03	1430.25	1341.76	1178.70	998.95	816.41	477.49	213.31
45.0	1387.95	1437.48	1456.40	1379.60	1216.54	1006.74	811.40	501.98	202.85
90.0	1394.07	1418.56	1411.32	1305.03	1107.80	966.33	771.28	409.32	145.42
135.0	1397.97	1386.28	1347.33	1247.71	1071.85	915.47	783.02	488.06	286.61
180.0	1394.07	1338.42	1258.28	1108.86	975.24	853.64	737.16	431.41	172.30
225.0	1385.72	1342.87	1274.98	1106.19	1010.13	884.86	751.24	447.94	173.08
270.0	1394.07	1372.92	1331.74	1238.80	1101.35	962.22	834.77	518.12	288.28
315.0	1397.97	1397.97	1362.91	1244.37	1102.85	952.53	779.46	420.78	144.92
360.0	1394.07	1433.03	1430.25	1341.76	1178.70	998.95	816.41	477.49	213.31

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	81.03	43.91	24.26	14.19	8.68	6.01	5.95	5.57	5.29
45.0	73.74	40.96	20.09	11.91	7.79	5.68	5.29	5.57	5.34
90.0	73.18	40.51	22.37	13.08	8.01	5.45	5.18	5.34	5.40
135.0	103.35	62.78	36.34	21.76	11.46	6.01	5.12	5.18	5.18
180.0	103.35	67.84	40.51	21.98	11.63	5.95	5.62	5.23	5.18
225.0	96.89	58.99	33.45	18.64	10.07	5.90	5.23	5.23	5.18
270.0	99.12	55.15	30.16	17.36	10.07	6.07	5.12	5.23	5.29
315.0	76.74	41.96	22.87	14.02	8.57	5.57	5.18	5.12	5.18
360.0	81.03	43.91	24.26	14.19	8.68	6.01	5.95	5.57	5.29

C/γ(°)	90.0
0.0	5.06
45.0	5.12
90.0	5.06
135.0	5.01
180.0	5.12
225.0	5.12
270.0	5.12
315.0	5.06
360.0	5.06