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NATA

LumCAT: 2-1568-M	
Luminaire: BJB47.319.2011	
Report No: NT2017060701	Voltage(V): 219.3000
Test No: GC2017060701	Current(A): 0.1030
LampCAT: LUMILEDS 1204	Power (W): 20.6000
Lamp flux(lm): 2095.0	PF: 0.9100
Number of Lamps: 1	Ballast type: DC
Length(mm): 70	Width(mm): 70
Phm Type: C	Height(mm): 45

Photometric Results

Lumens(lm): 1911.32
Efficiency(%): 91.23%
Lumens(lm)/Power(W): 92.78
Central intensity(cd): 3777.282
Maximum intensity(cd): 3777.282
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=38.8
 [C90/270]Total=38.8
Field angle(10%Imax): [C0/180]Total=73.6
 [C90/270]Total=73.6
Maximum s/h(1/2): C0_180=0.65 C90_270=0.65
Maximum s/h(1/4): C0_180=0.62 C90_270=0.62
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.22%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.765%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/6/7
Humidity(%): 5.0%

Operator: NT07
Distance(m): 7.42

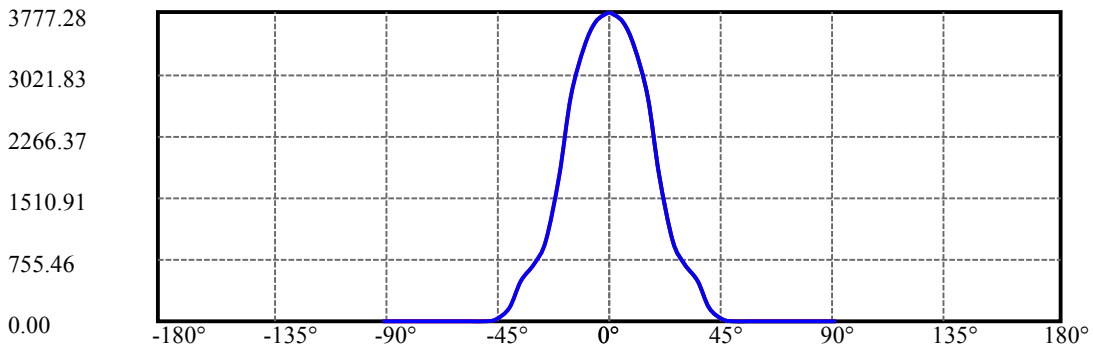
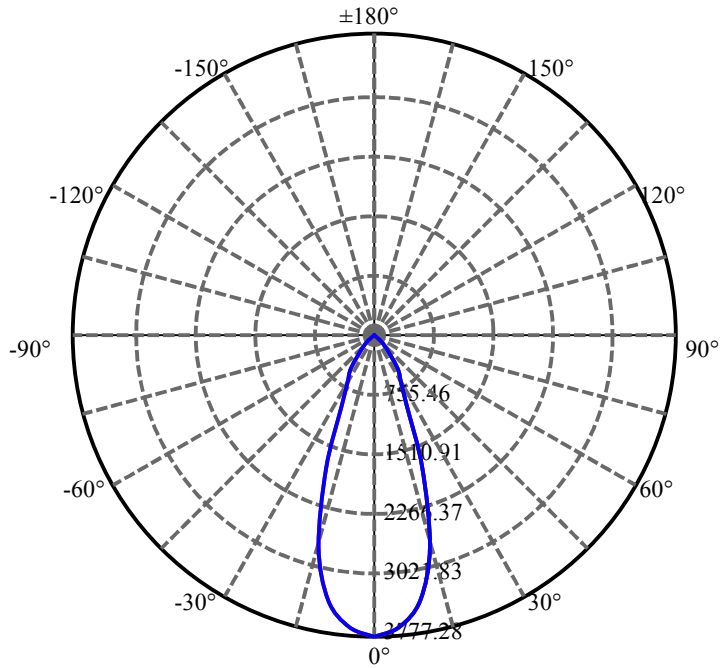
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3777.282	22.589	22.589	1.078%	1.182%
5.0	3667.100	175.190	197.778	8.362%	10.348%
10.0	3363.395	320.138	517.917	15.281%	27.097%
15.0	2740.295	388.761	906.678	18.557%	47.437%
20.0	1772.871	332.367	1239.045	15.865%	64.827%
25.0	977.939	226.542	1465.588	10.813%	76.679%
30.0	694.440	190.324	1655.912	9.085%	86.637%
35.0	492.479	154.835	1810.747	7.391%	94.738%
40.0	169.587	59.752	1870.499	2.852%	97.864%
45.0	16.400	6.356	1876.855	.303%	98.197%
50.0	10.041	4.216	1881.071	.201%	98.417%
55.0	8.692	3.903	1884.974	.186%	98.621%
60.0	8.293	3.937	1888.911	.188%	98.827%
65.0	8.004	3.976	1892.887	.190%	99.035%
70.0	7.846	4.041	1896.928	.193%	99.247%
75.0	7.694	4.074	1901.002	.194%	99.460%
80.0	7.646	4.127	1905.129	.197%	99.676%
85.0	7.570	4.134	1909.263	.197%	99.892%
90.0	7.522	2.062	1911.324	.098%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1655.91	79.04%	86.64%
0-40	1870.50	89.28%	97.86%
0-60	1888.91	90.16%	98.83%
0-90	1909.26	91.13%	99.89%
0-120	1909.26	91.13%	99.89%
0-180	1911.32	91.23%	100.00%
60-90	24.29	1.16%	1.27%
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%
0-26.67	1529.06	72.99%	80.00%

ZONAL LUMEN SUMMARY

0-10	517.92
10-20	721.13
20-30	416.87
30-40	214.59
40-50	10.57
50-60	7.84
60-70	8.02
70-80	8.20
80-90	4.13
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: —————

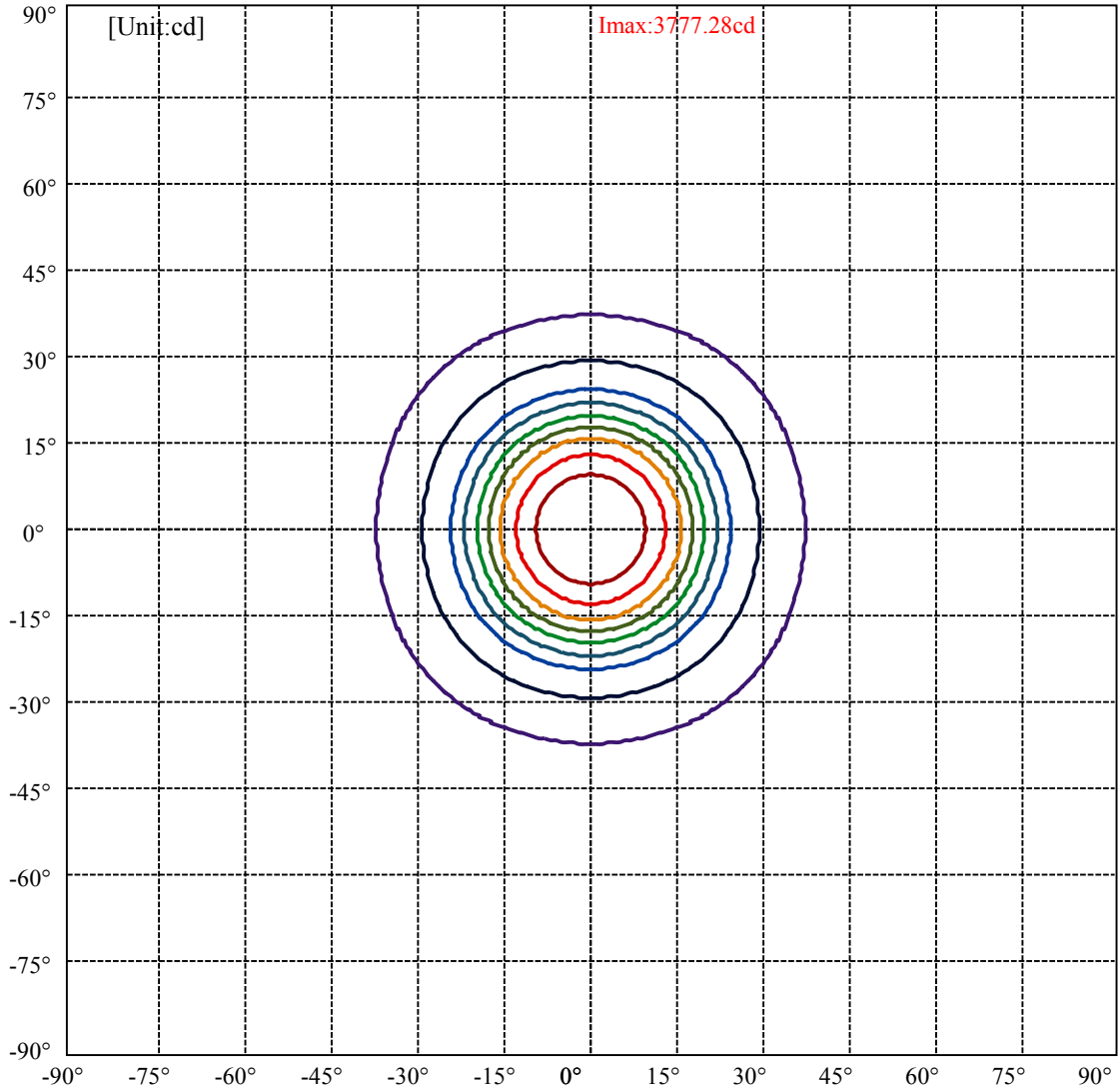
C90/C270: —————

Field angle(10%Imax):C0/180Left:36.8 Right:36.8

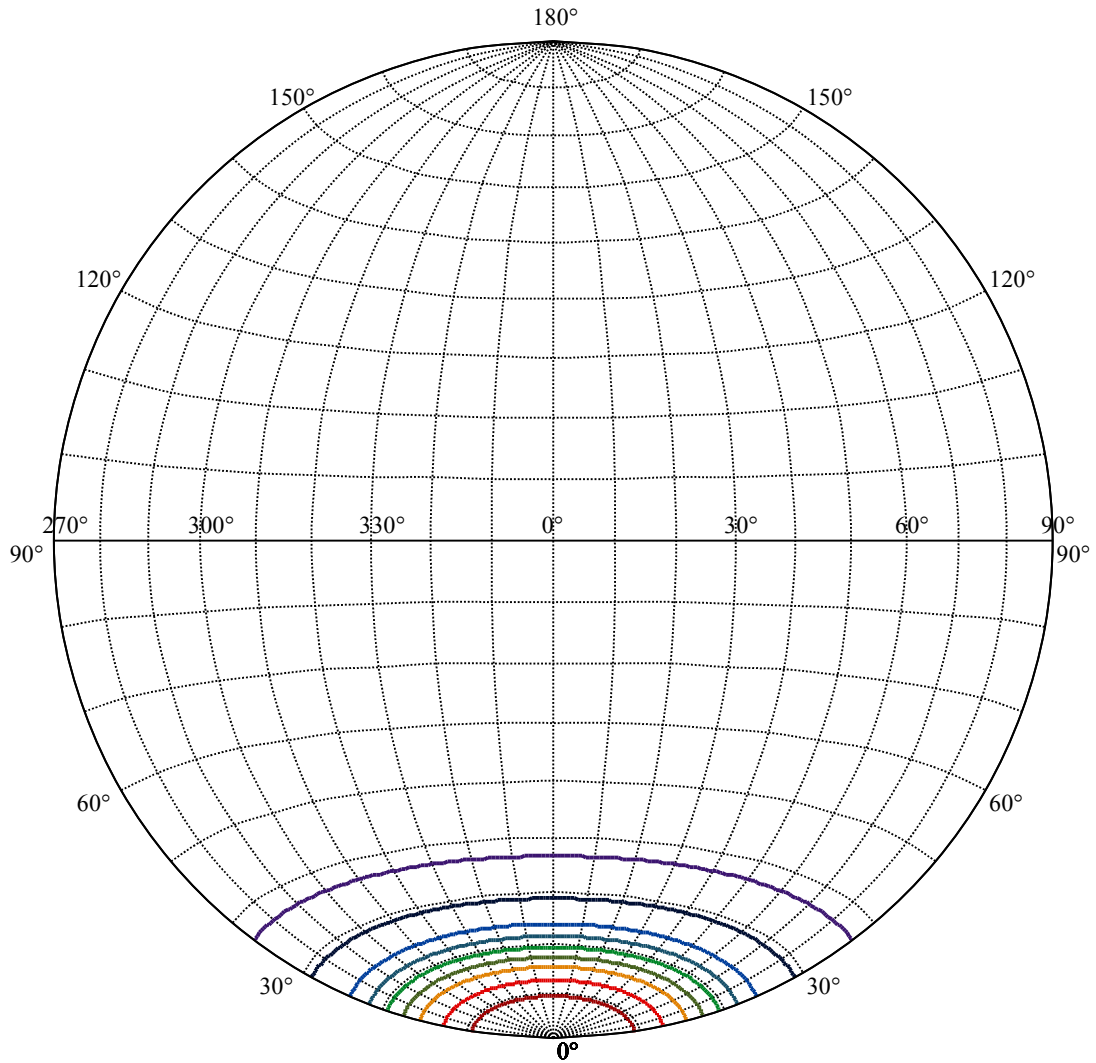
:C90/270Left:36.8 Right:36.8

Beam Angle(50%Imax):C0/180Left:19.4 Right:19.4

:C90/270Left:19.4 Right:19.4



(10%Imax) 377.728	—
(20%Imax) 755.456	—
(30%Imax) 1133.18	—
(40%Imax) 1510.91	—
(50%Imax) 1888.64	—
(60%Imax) 2266.37	—
(70%Imax) 2644.1	—
(80%Imax) 3021.83	—
(90%Imax) 3399.55	—



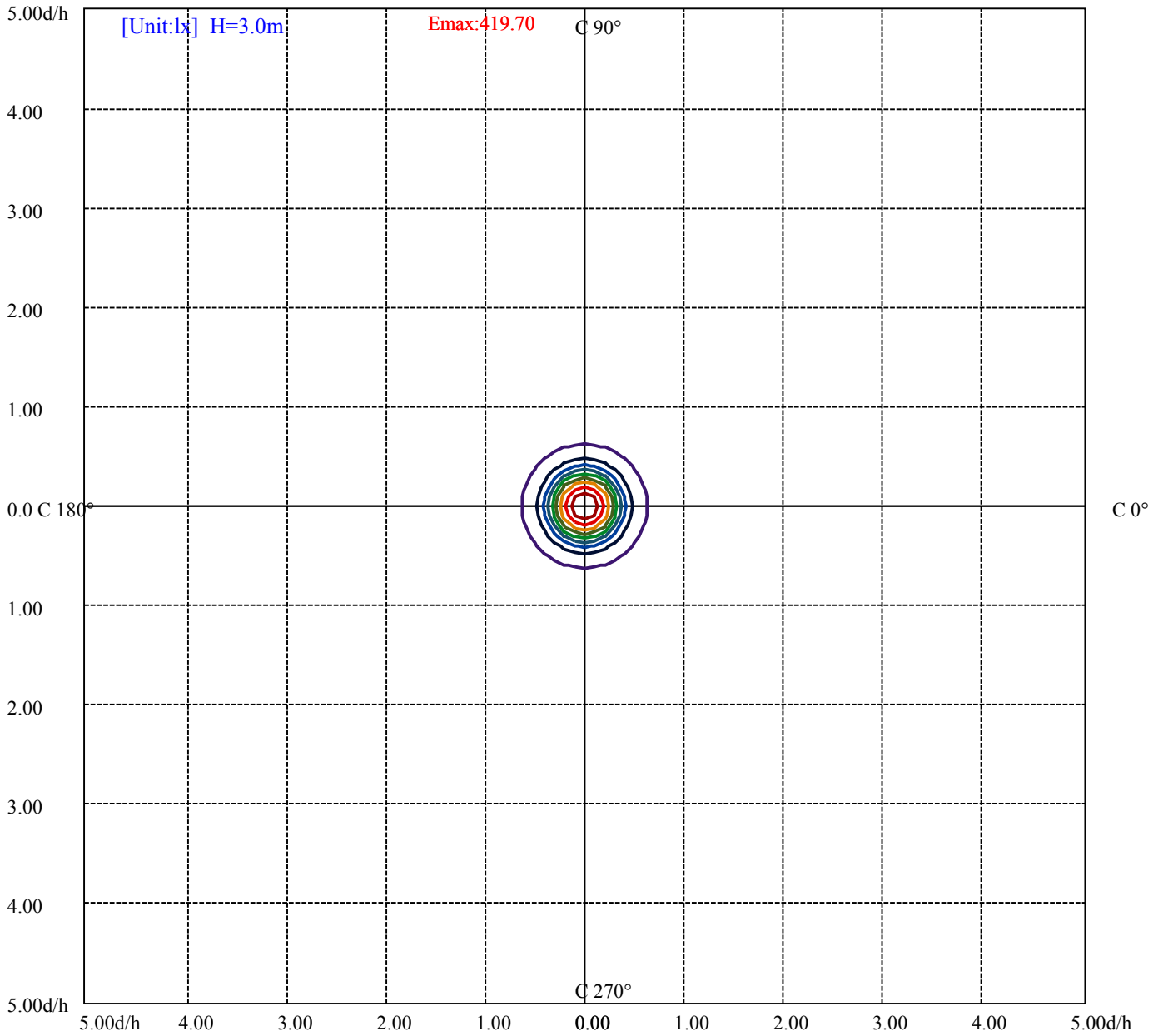
House

[Unit:cd]

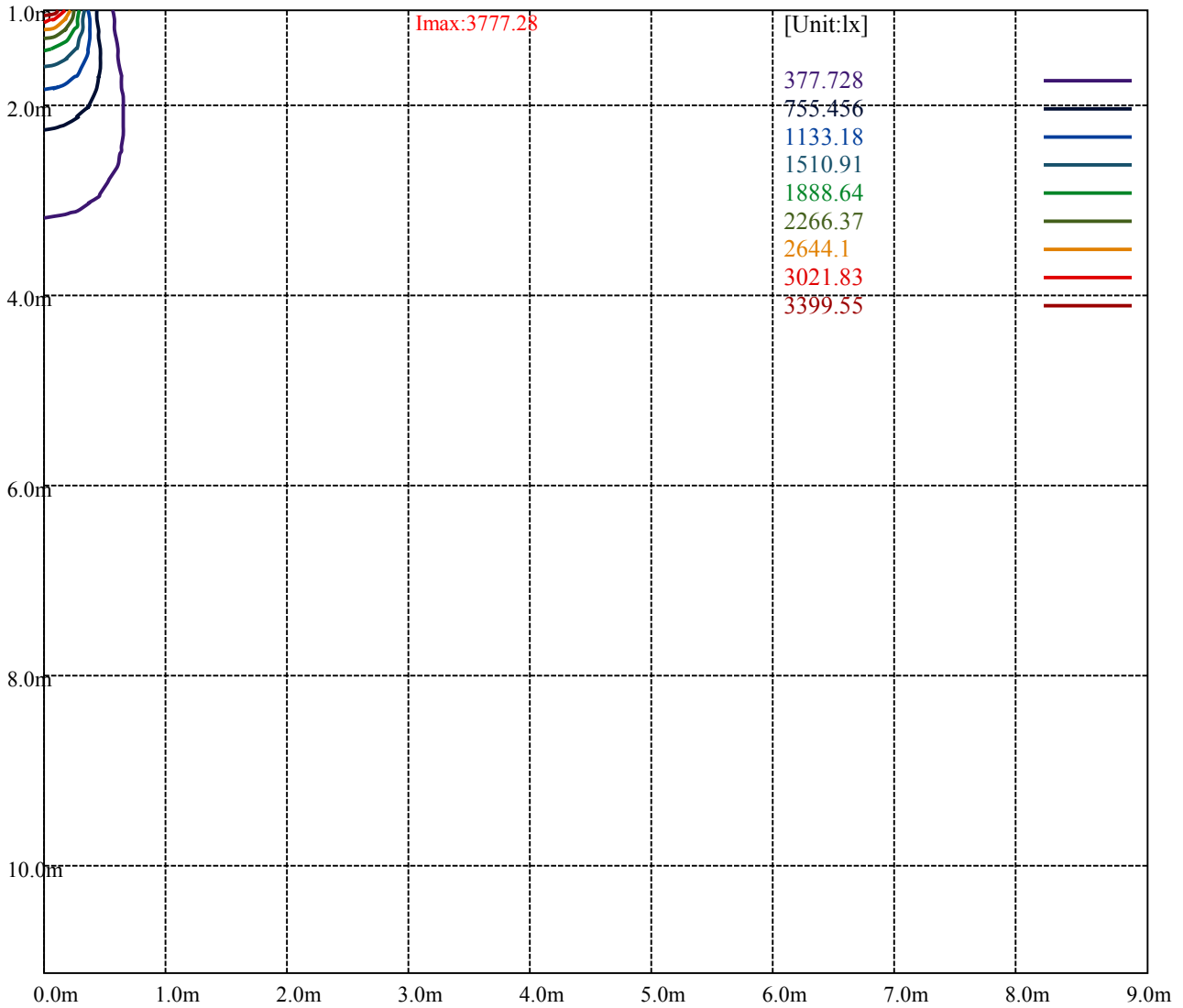
Road

Imax:3777.28

(10%Imax)	377.728	—
(20%Imax)	755.456	—
(30%Imax)	1133.18	—
(40%Imax)	1510.91	—
(50%Imax)	1888.64	—
(60%Imax)	2266.37	—
(70%Imax)	2644.1	—
(80%Imax)	3021.83	—
(90%Imax)	3399.55	—



(10%E _{max}) 41.96978	—
(20%E _{max}) 83.93955	—
(30%E _{max}) 125.9089	—
(40%E _{max}) 167.8789	—
(50%E _{max}) 209.8489	—
(60%E _{max}) 251.8189	—
(70%E _{max}) 293.7878	—
(80%E _{max}) 335.7578	—
(90%E _{max}) 377.7278	—



Luminance Table

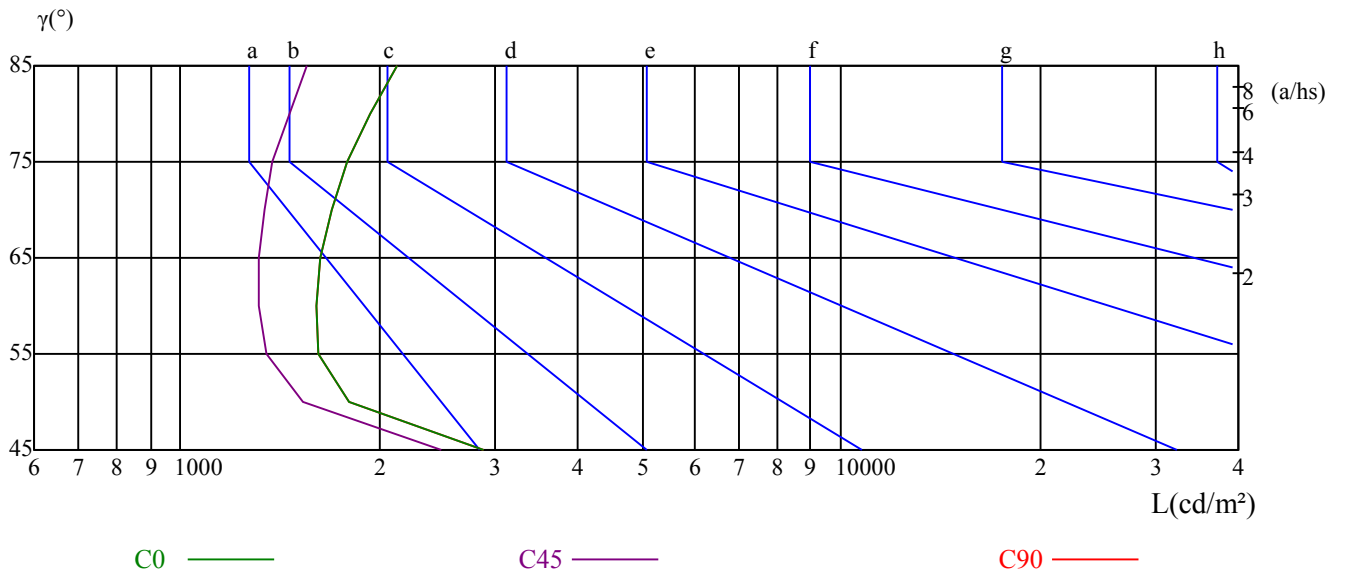
γ	45	50	55	60	65	70	75	80	85
C0	2881	1805	1612	1602	1625	1692	1785	1934	2123
C45	2479	1530	1346	1315	1310	1338	1381	1460	1556
C90	2881	1805	1612	1602	1625	1692	1785	1934	2123

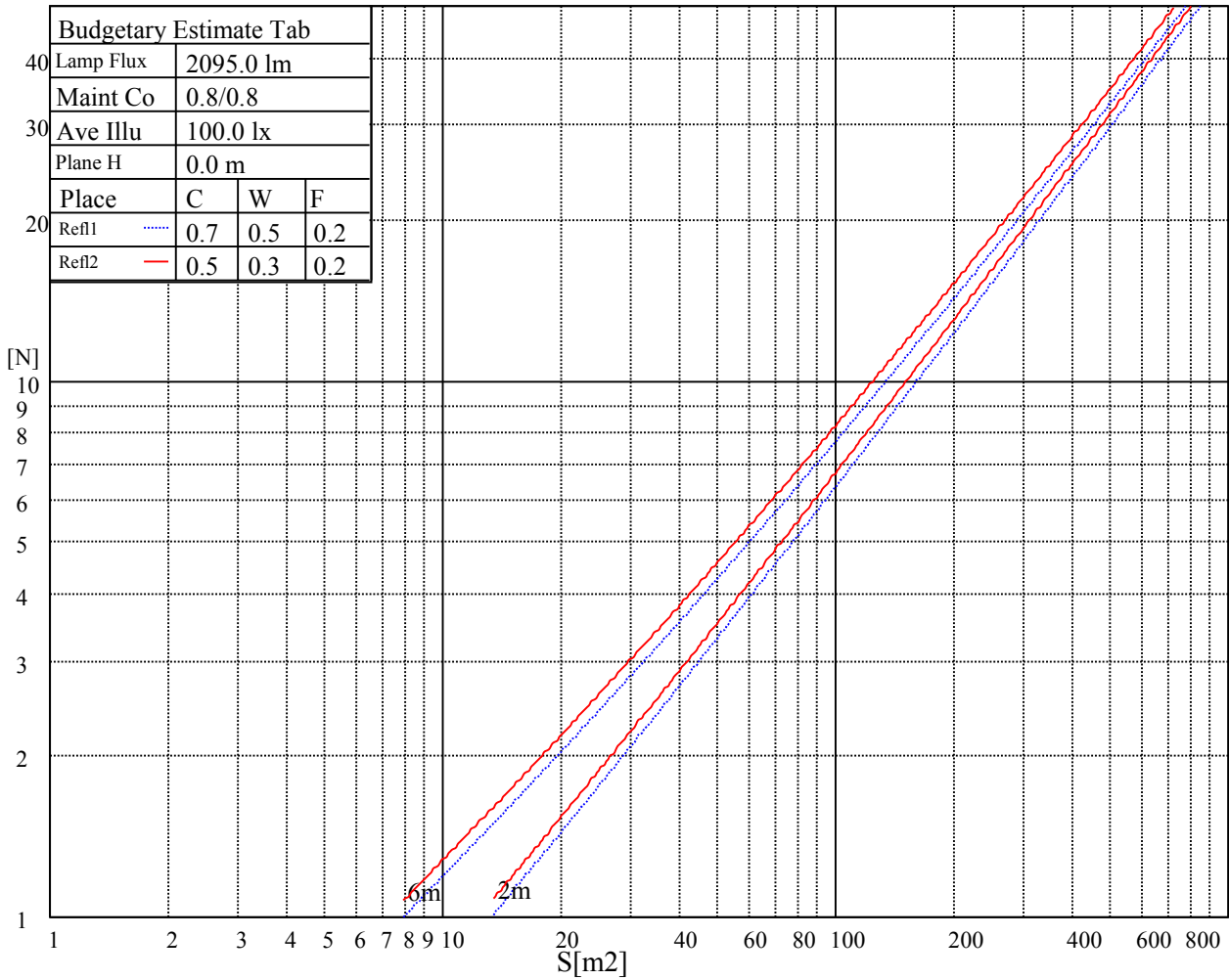
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3865	3865	3865	6067	6067	6067	17726	17726	17726

Glare Table

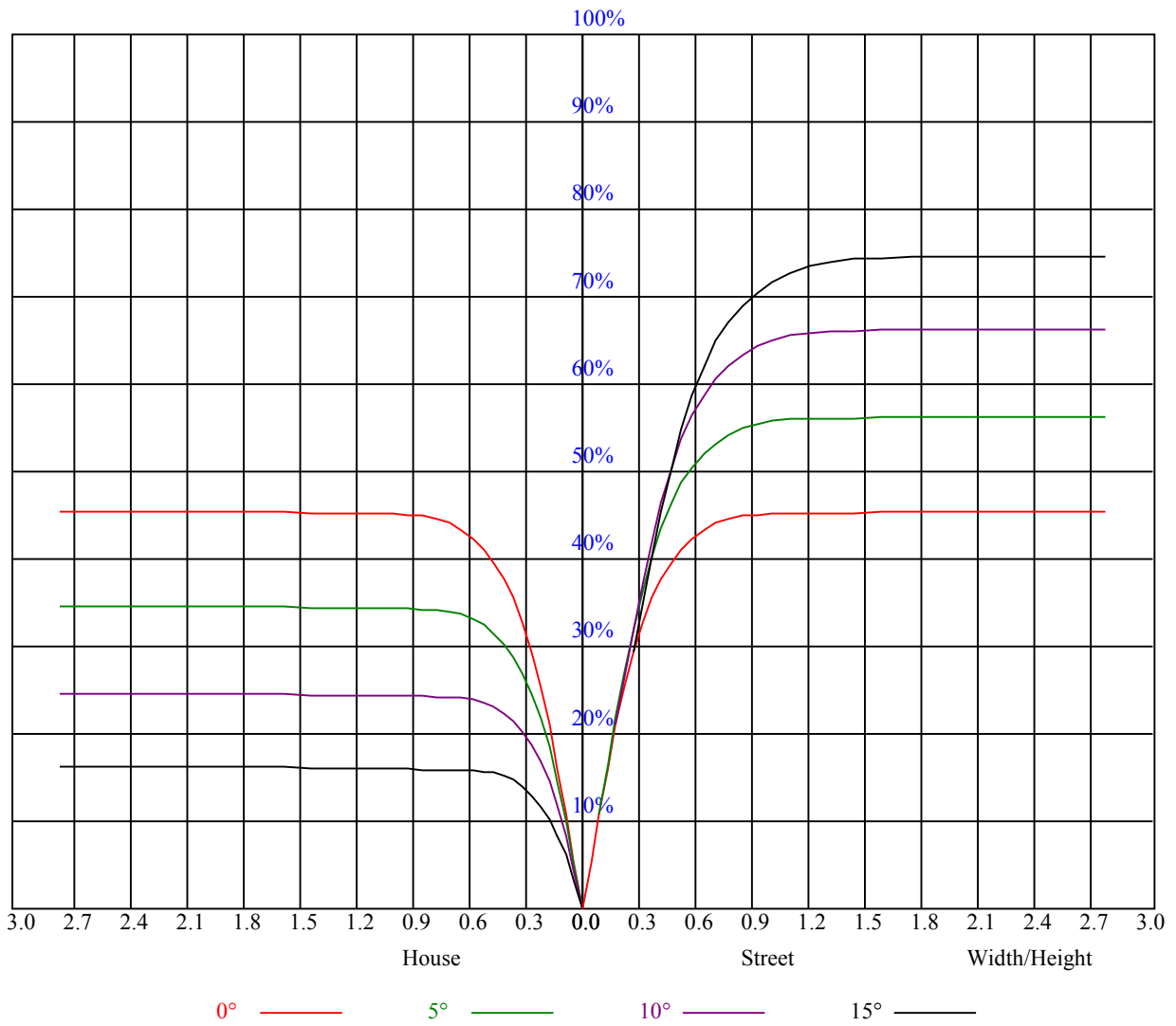
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.10	1.10	1.10	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	0.99	0.97	1.00	0.98	0.96	0.96	0.94	0.93	0.93	0.91	0.90	0.89	0.88	0.87	0.86
2	0.96	0.93	0.90	0.95	0.91	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.82
3	0.91	0.87	0.84	0.90	0.86	0.83	0.88	0.84	0.82	0.85	0.83	0.81	0.83	0.81	0.79	0.78
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	0.78	0.75	0.82	0.78	0.74	0.80	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.71
6	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.68
7	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
8	0.73	0.68	0.65	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.63
9	0.70	0.66	0.63	0.70	0.65	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.61
10	0.68	0.63	0.60	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.59



NATA 2-1568-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	3812.11	3689.33	3348.53	2719.79	1715.01	905.13	671.14	488.90	180.58
45.0	3731.72	3775.77	3610.05	3169.60	2334.39	1275.66	791.71	634.25	326.48
90.0	3775.77	3724.01	3445.43	2927.90	1987.54	1030.93	713.75	560.69	204.42
135.0	3789.53	3737.78	3479.01	2984.61	2082.78	1090.67	723.44	584.15	280.79
180.0	3812.11	3692.08	3398.08	2790.81	1869.72	989.58	701.14	528.38	184.55
225.0	3731.72	3499.94	3098.02	2272.73	1077.89	782.08	632.21	297.47	25.27
270.0	3775.77	3615.55	3284.66	2581.04	1598.84	913.39	670.04	431.09	83.25
315.0	3789.53	3602.34	3243.37	2475.89	1516.80	836.09	652.09	414.91	71.35
360.0	3812.11	3689.33	3348.53	2719.79	1715.01	905.13	671.14	488.90	180.58
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	15.75	9.80	8.75	8.31	8.09	7.87	7.71	7.65	7.60
45.0	24.39	11.89	8.86	8.42	8.04	7.93	7.71	7.65	7.54
90.0	17.18	10.30	8.75	8.26	8.04	7.82	7.71	7.65	7.60
135.0	17.29	10.74	8.75	8.37	8.04	7.87	7.76	7.71	7.60
180.0	15.86	9.63	8.64	8.26	7.98	7.87	7.71	7.65	7.60
225.0	11.95	8.86	8.42	8.09	7.87	7.71	7.65	7.54	7.54
270.0	14.65	9.58	8.70	8.31	7.98	7.87	7.65	7.65	7.54
315.0	14.15	9.52	8.64	8.31	7.98	7.82	7.65	7.65	7.54
360.0	15.75	9.80	8.75	8.31	8.09	7.87	7.71	7.65	7.60
C/ γ (°)	90.0								
0.0	7.60								
45.0	7.49								
90.0	7.54								
135.0	7.54								
180.0	7.54								
225.0	7.49								
270.0	7.49								
315.0	7.49								
360.0	7.60								