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Nata

LumCAT: 3-1547-A3
Luminaire: TE 2133401-1+92.76.365.00
Report No: GC2017071209
Test No: NT-0010
LampCAT: CREE CXA1830
Lamp flux(lm): 1976.0
Number of Lamps: 1
Length(mm): 84
Phm Type: C

Voltage(V): 35.2500
Current(A): 0.5000
Power (W): 17.6250
PF: 0.0000
Ballast type: DC
Width(mm): 84
Height(mm): 0

Photometric Results

Lumens(lm): 1825.93
Efficiency(%): 92.41%
Lumens(lm)/Power(W): 103.60
Central intensity(cd): 3472.799
Maximum intensity(cd): 3472.799
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=40.5
 [C90/270]Total=40.5
Field angle(10%Imax): [C0/180]Total=71.0
 [C90/270]Total=71.0
Maximum s/h(1/2): C0_180=0.66 C90_270=0.66
Maximum s/h(1/4): C0_180=0.65 C90_270=0.65
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.41%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.678%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/7/12
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.46

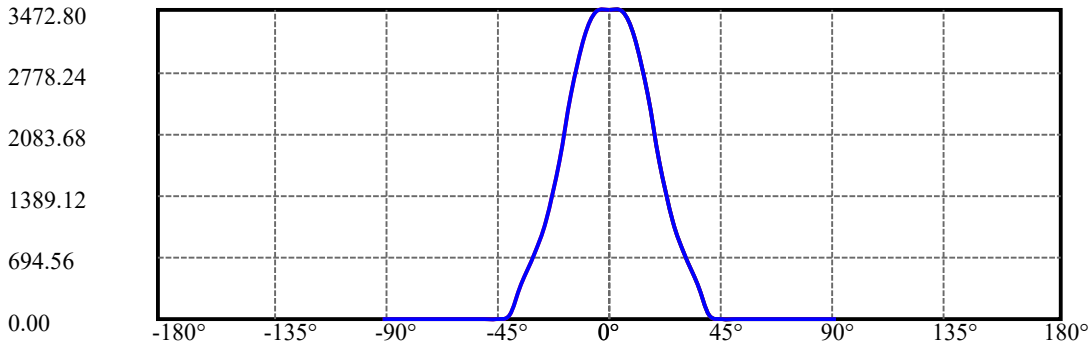
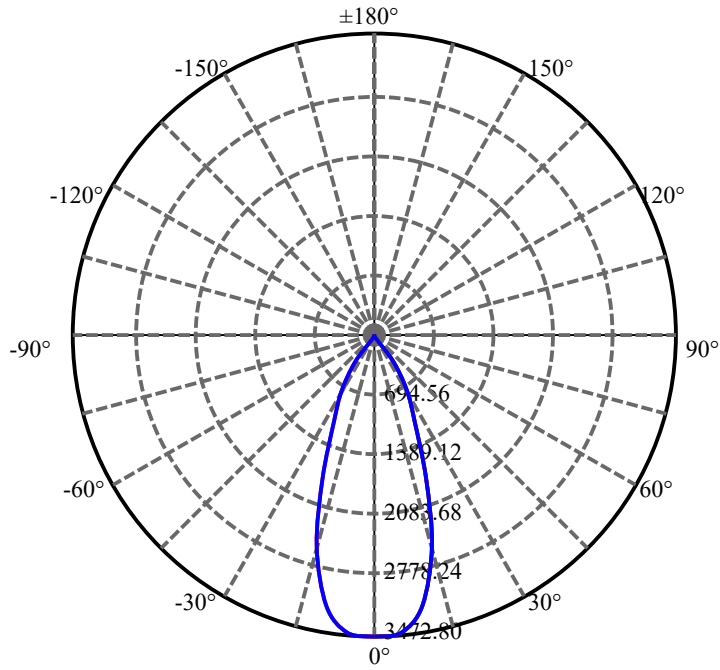
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3472.799	0.000	0	.000%	.000%
5.0	3450.260	82.763	82.763	4.188%	4.533%
10.0	3165.463	236.665	319.428	11.977%	17.494%
15.0	2530.061	337.855	657.283	17.098%	35.997%
20.0	1772.503	354.592	1011.875	17.945%	55.417%
25.0	1091.710	300.403	1312.278	15.203%	71.869%
30.0	736.250	231.330	1543.608	11.707%	84.538%
35.0	378.883	164.211	1707.819	8.310%	93.532%
40.0	50.198	71.589	1779.408	3.623%	97.452%
45.0	9.767	11.103	1790.511	.562%	98.060%
50.0	8.821	3.756	1794.267	.190%	98.266%
55.0	8.348	3.733	1798	.189%	98.471%
60.0	8.056	3.792	1801.791	.192%	98.678%
65.0	7.861	3.869	1805.661	.196%	98.890%
70.0	7.736	3.949	1809.61	.200%	99.106%
75.0	7.652	4.022	1813.632	.204%	99.327%
80.0	7.583	4.076	1817.708	.206%	99.550%
85.0	7.534	4.107	1821.816	.208%	99.775%
90.0	7.478	4.110	1825.926	.208%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1543.61	78.12%	84.54%
0-40	1779.41	90.05%	97.45%
0-60	1801.79	91.18%	98.68%
0-90	1821.82	92.20%	99.77%
0-120	1821.82	92.20%	99.77%
0-180	1825.93	92.41%	100.00%
60-90	23.82	1.21%	1.30%
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%
0-28.21	1460.74	73.92%	80.00%

ZONAL LUMEN SUMMARY

0-10	319.43
10-20	692.45
20-30	531.73
30-40	235.80
40-50	14.86
50-60	7.52
60-70	7.82
70-80	8.10
80-90	4.11
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: —————

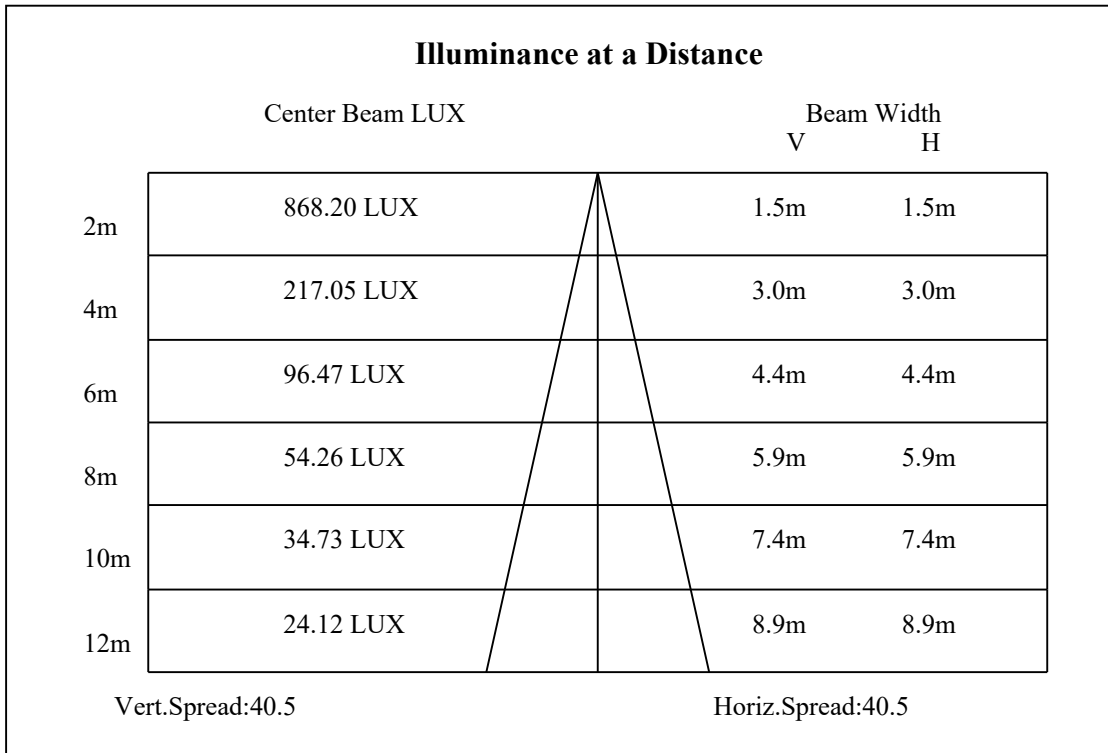
C90/C270: —————

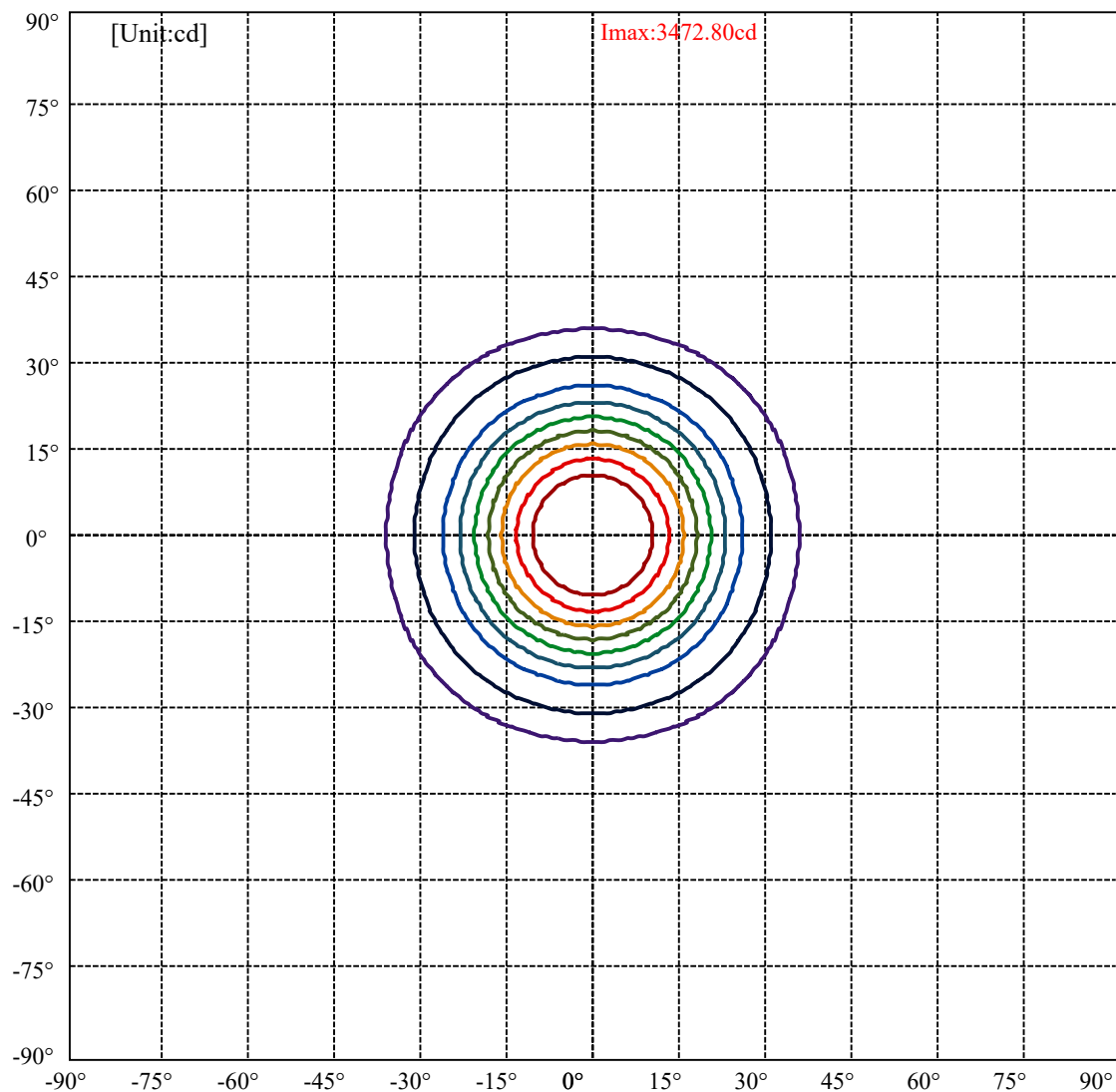
Field angle(10%Imax):C0/180Left:35.5 Right:35.5

:C90/270Left:35.5 Right:35.5

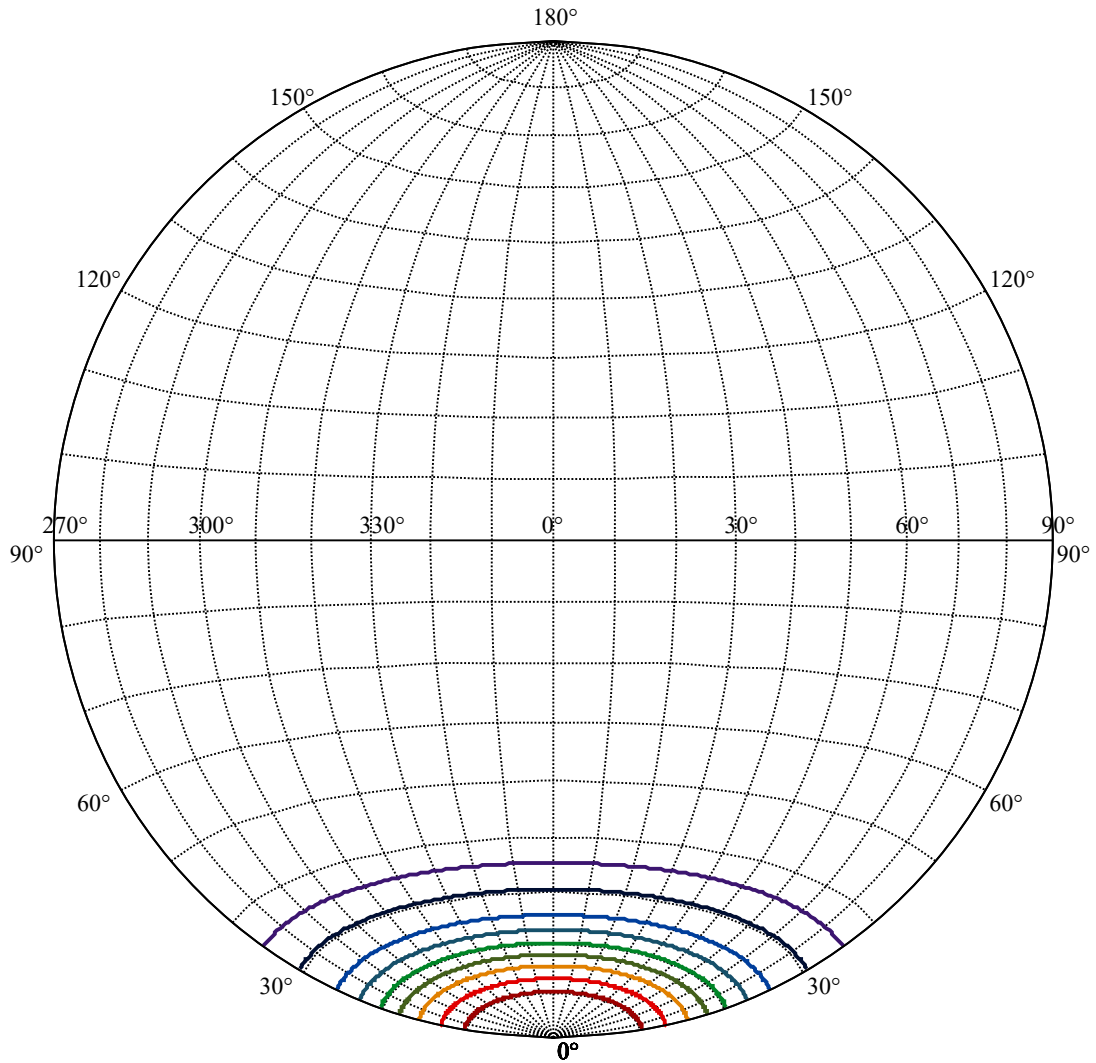
Beam Angle(50%Imax):C0/180Left:20.3 Right:20.3

:C90/270Left:20.3 Right:20.3





(10%Imax)	347.28	—
(20%Imax)	694.56	—
(30%Imax)	1041.84	—
(40%Imax)	1389.12	—
(50%Imax)	1736.4	—
(60%Imax)	2083.68	—
(70%Imax)	2430.96	—
(80%Imax)	2778.24	—
(90%Imax)	3125.52	—



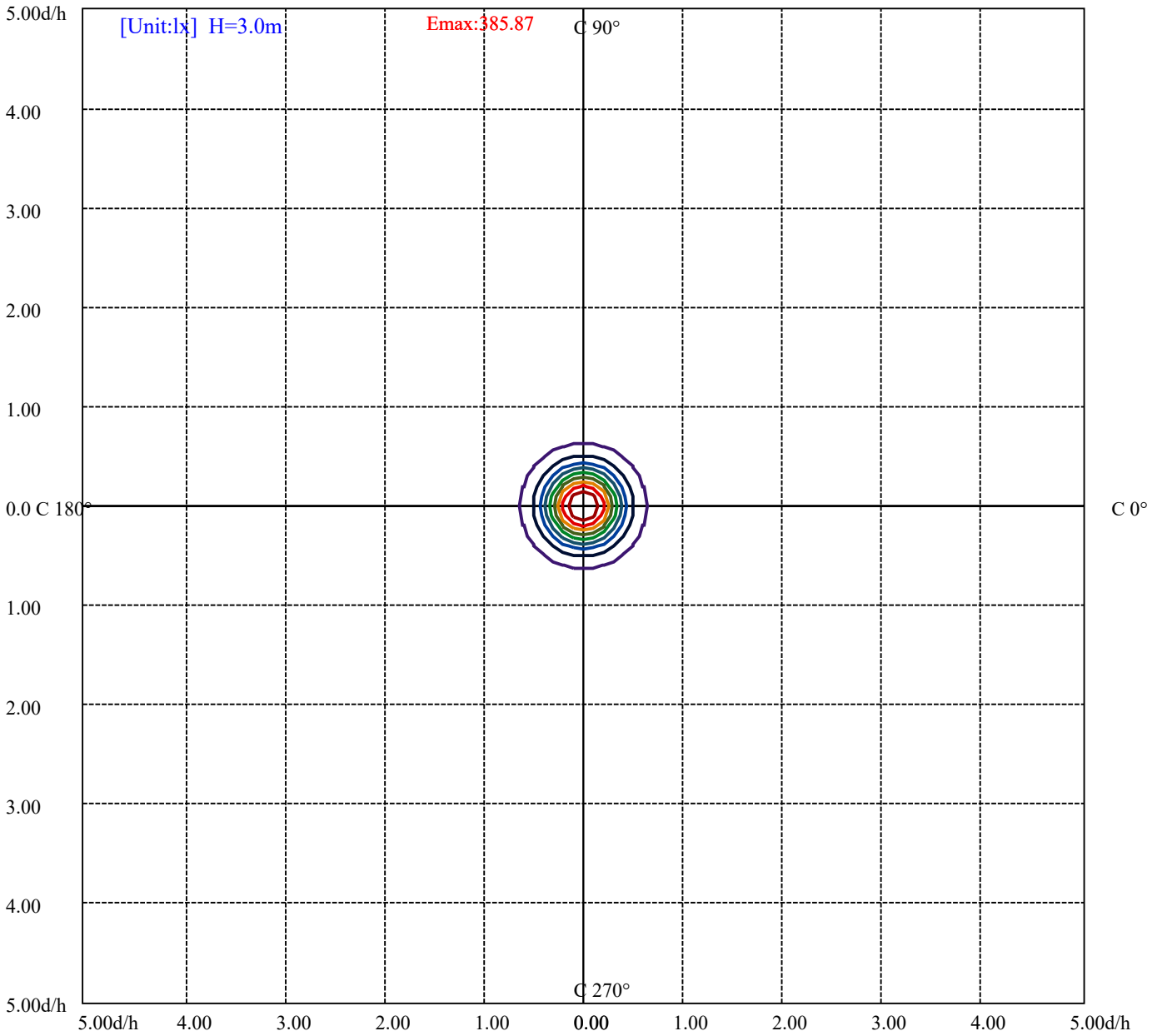
House

[Unit:cd]

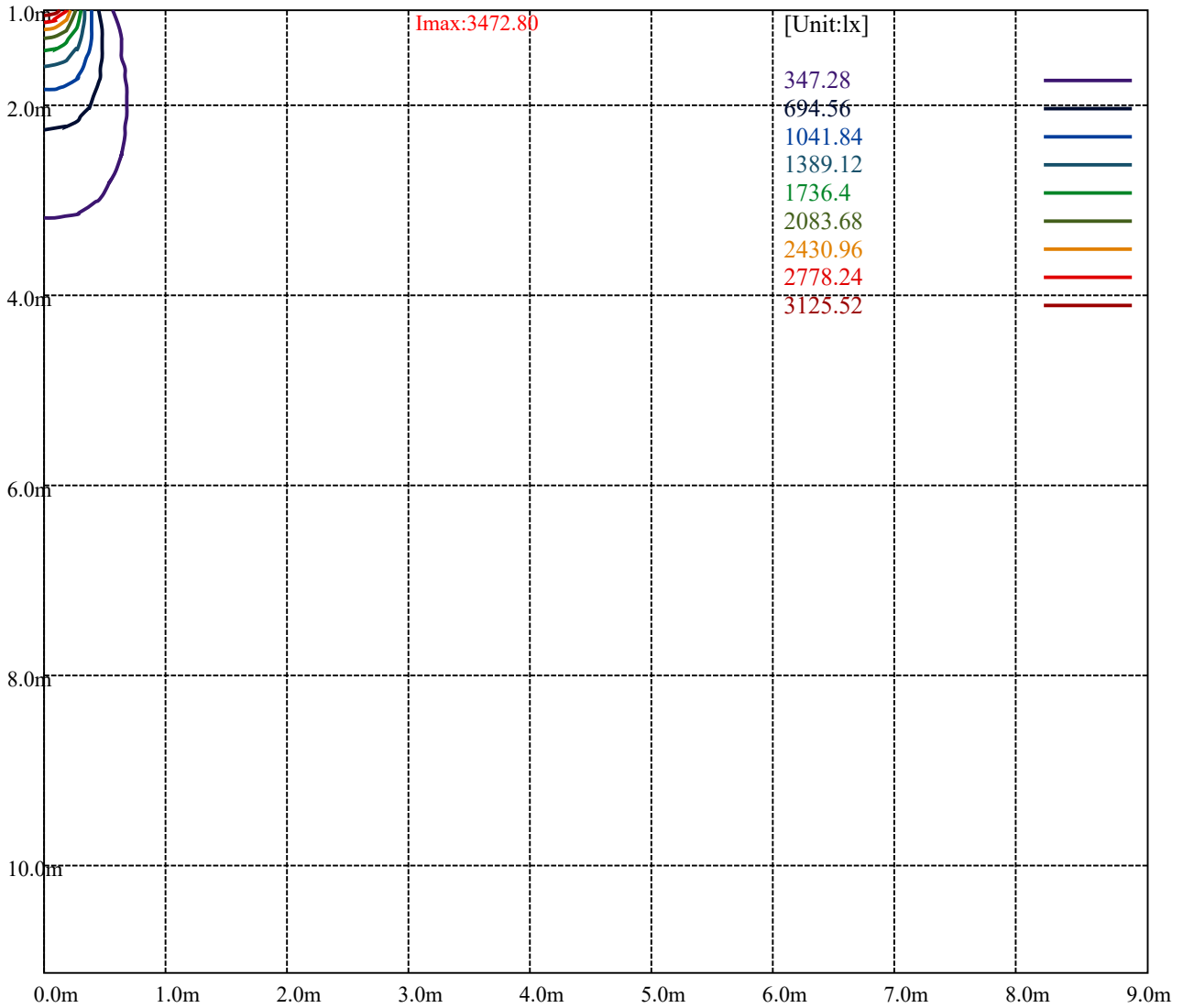
Road

Imax:3472.80

(10%Imax) 347.28	—
(20%Imax) 694.56	—
(30%Imax) 1041.84	—
(40%Imax) 1389.12	—
(50%Imax) 1736.4	—
(60%Imax) 2083.68	—
(70%Imax) 2430.96	—
(80%Imax) 2778.24	—
(90%Imax) 3125.52	—



(10%Emax) 38.58667	—
(20%Emax) 77.17333	—
(30%Emax) 115.76	—
(40%Emax) 154.3467	—
(50%Emax) 192.9333	—
(60%Emax) 231.52	—
(70%Emax) 270.1067	—
(80%Emax) 308.6933	—
(90%Emax) 347.28	—



Luminance Table

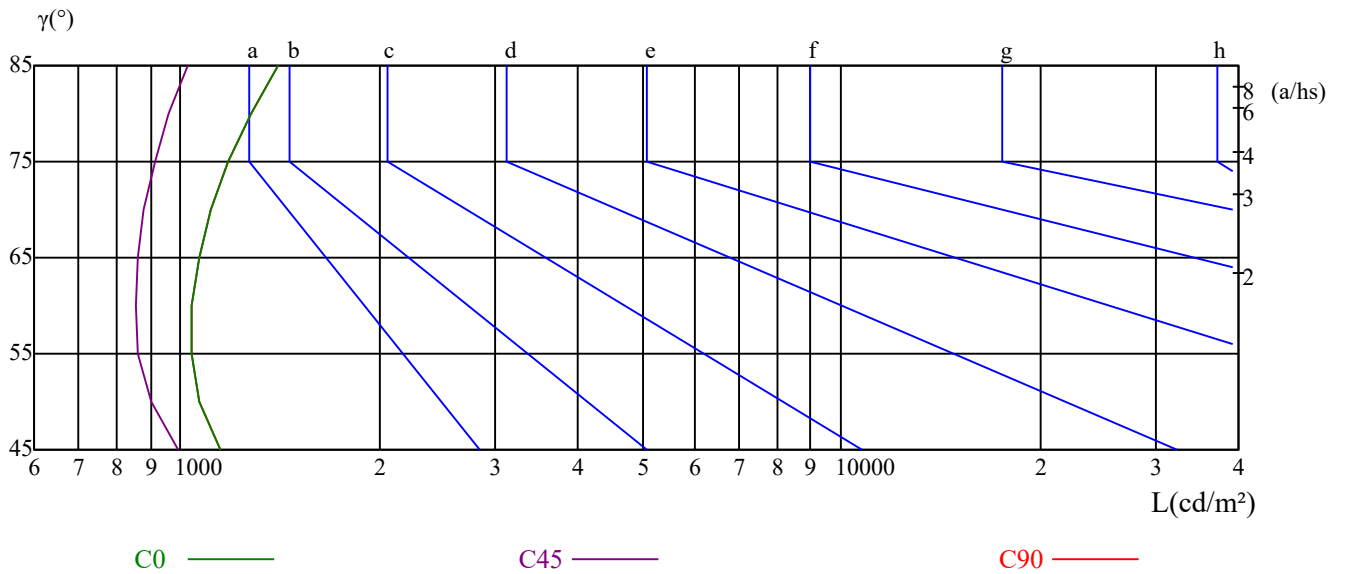
γ	45	50	55	60	65	70	75	80	85
C0	1152	1064	1038	1041	1067	1114	1183	1276	1403
C45	990	900	864	853	859	879	914	962	1027
C90	1152	1064	1038	1041	1067	1114	1183	1276	1403

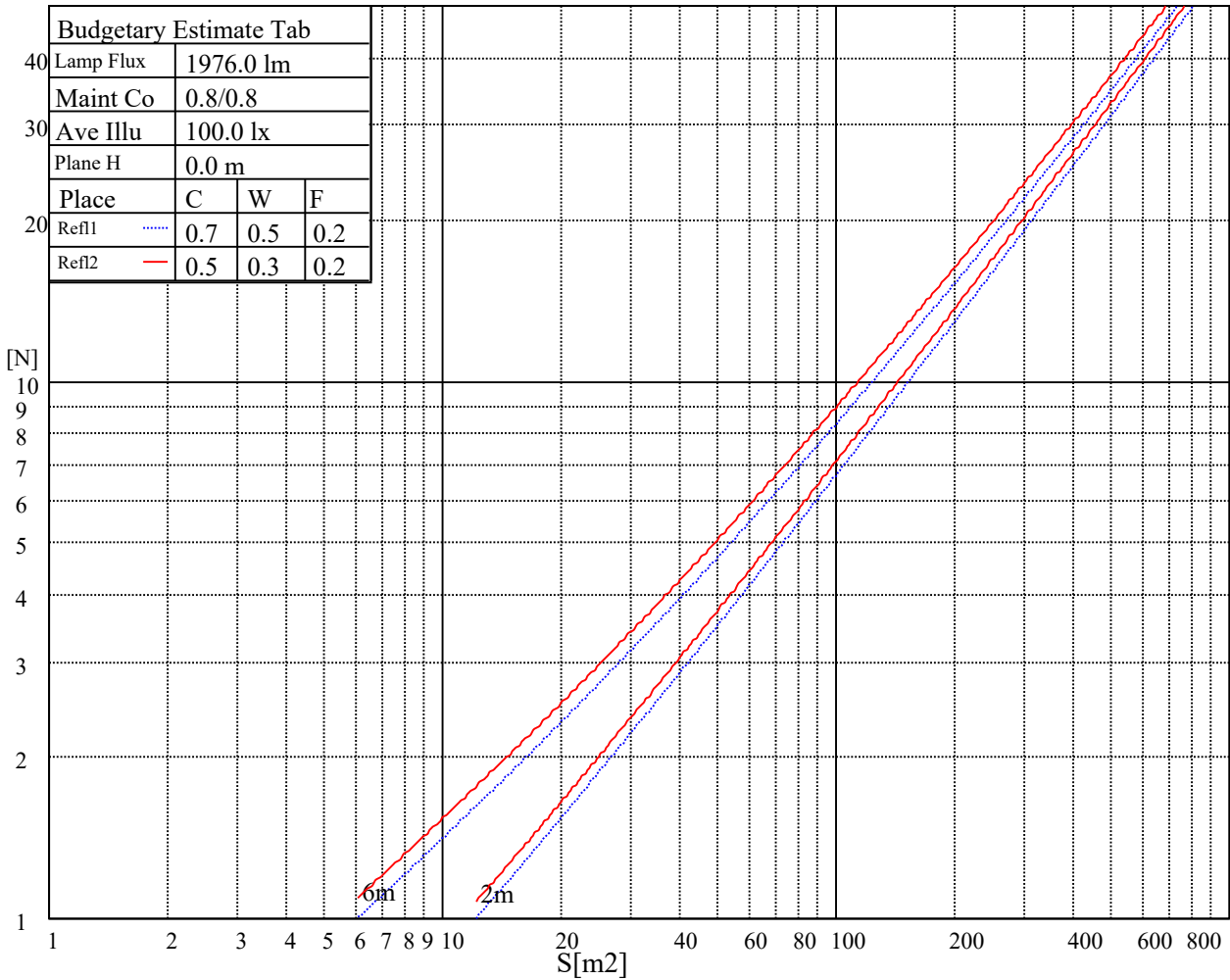
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2574	2574	2574	4092	4092	4092	11964	11964	11964

Glare Table

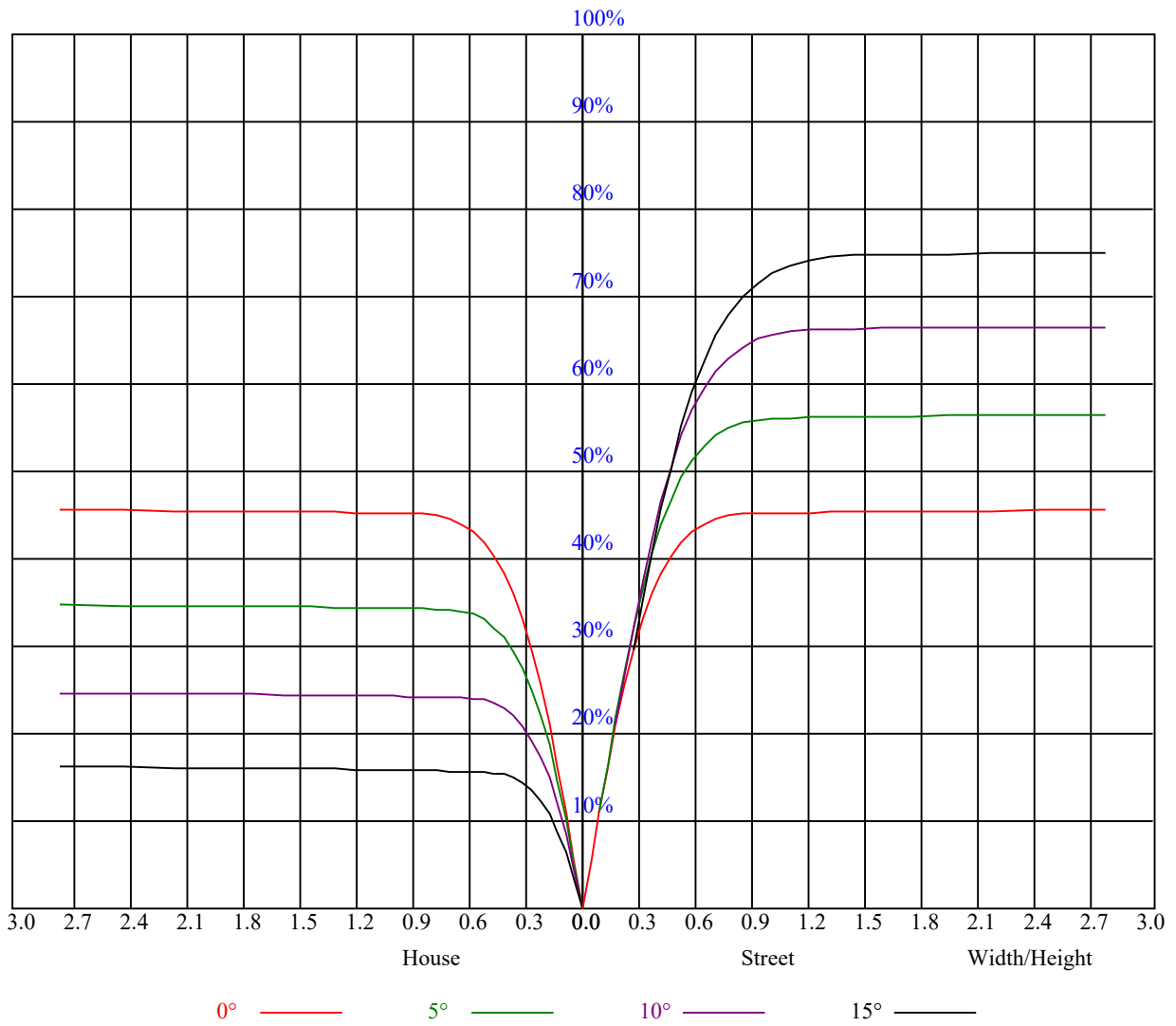
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	0.99	1.01	0.99	0.97	0.97	0.96	0.94	0.94	0.93	0.91	0.91	0.90	0.89	0.87
2	0.97	0.93	0.90	0.95	0.92	0.89	0.92	0.90	0.88	0.89	0.87	0.86	0.87	0.85	0.84	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	0.86	0.82	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.74
5	0.82	0.77	0.74	0.81	0.77	0.73	0.79	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.71	0.70
6	0.78	0.73	0.70	0.77	0.73	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.73	0.70	0.68	0.67
7	0.74	0.69	0.66	0.74	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.64
8	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.61
9	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.58
10	0.65	0.60	0.57	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.55



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	3475.44	3423.13	3206.65	2691.31	1970.07	1248.27	800.83	494.19	75.69
45.0	3473.77	3398.09	3102.58	2489.85	1742.45	1069.62	726.25	356.17	22.32
90.0	3469.32	3363.03	2979.59	2271.14	1517.62	930.77	661.81	237.63	13.58
135.0	3472.66	3459.86	3115.93	2401.92	1711.84	1018.42	700.65	311.09	17.31
180.0	3475.44	3498.26	3097.01	2350.72	1574.94	957.49	677.61	289.72	15.25
225.0	3473.77	3519.96	3267.31	2581.12	1760.26	1092.05	734.71	387.61	35.95
270.0	3469.32	3498.82	3349.67	2820.42	2009.02	1333.41	817.52	517.00	175.53
315.0	3472.66	3440.94	3204.98	2633.99	1893.82	1083.65	770.61	437.64	45.97
360.0	3475.44	3423.13	3206.65	2691.31	1970.07	1248.27	800.83	494.19	75.69
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	10.35	8.96	8.46	8.07	7.96	7.79	7.68	7.62	7.62
45.0	9.63	8.68	8.29	8.01	7.79	7.74	7.62	7.51	7.46
90.0	9.29	8.68	8.24	8.07	7.79	7.68	7.62	7.51	7.51
135.0	9.29	8.68	8.29	8.01	7.85	7.74	7.68	7.62	7.57
180.0	9.18	8.68	8.24	8.07	7.90	7.74	7.74	7.68	7.57
225.0	9.91	8.85	8.35	8.01	7.85	7.68	7.57	7.51	7.46
270.0	10.57	9.13	8.57	8.13	7.90	7.79	7.62	7.62	7.57
315.0	9.91	8.90	8.35	8.07	7.85	7.74	7.68	7.57	7.51
360.0	10.35	8.96	8.46	8.07	7.96	7.79	7.68	7.62	7.62
C/γ(°)	90.0								
0.0	7.51								
45.0	7.46								
90.0	7.40								
135.0	7.51								
180.0	7.57								
225.0	7.40								
270.0	7.51								
315.0	7.46								
360.0	7.51								