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## NATA

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LumCAT: 1-0788-M	
Luminaire: 92.70.124.00	
Report No: NATA0100	Voltage(V): 33.9000
Test No: GC2019021811	Current(A): 0.3000
LampCAT: BRIDGELUX V10B	Power (W): 10.1700
Lamp flux(lm): 1497.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 46	Width(mm): 46
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 1362.45  
Efficiency(%): 91.01%  
Lumens(lm)/Power(W): 135.19  
Central intensity(cd): 2291.203  
Maximum intensity(cd): 2291.203  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=36.4  
                                  [C90/270]Total=36.4  
Field angle(10%Imax): [C0/180]Total=86.2  
                                  [C90/270]Total=86.2  
Maximum s/h(1/2): C0\_180=0.57 C90\_270=0.57  
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(%): 91.84%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.035%

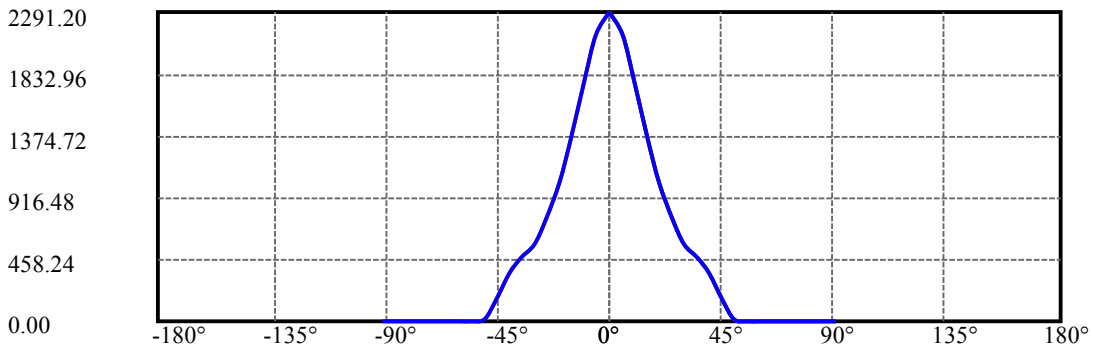
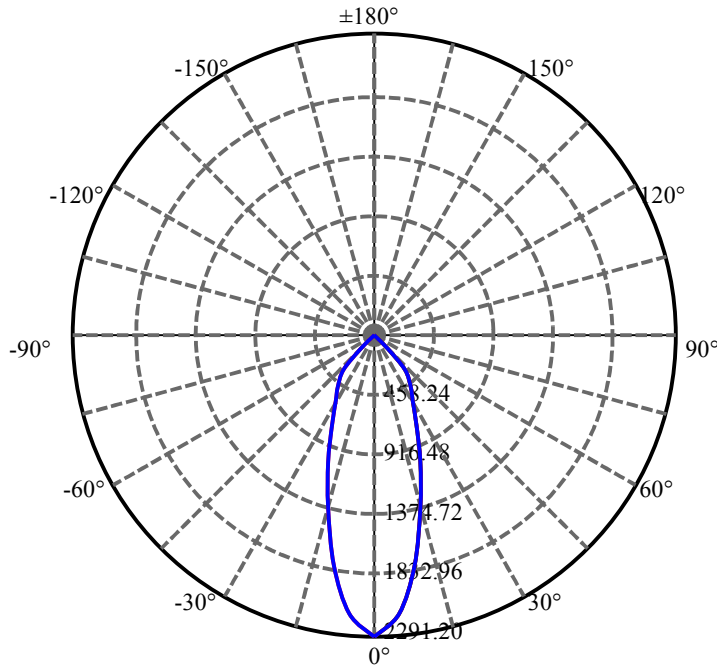
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2291.203	13.702	13.702	.915%	1.006%
5.0	2121.539	101.353	115.055	6.770%	8.445%
10.0	1774.477	168.900	283.955	11.283%	20.842%
15.0	1354.205	192.119	476.074	12.834%	34.943%
20.0	1030.507	193.193	669.267	12.905%	49.122%
25.0	753.729	174.603	843.871	11.664%	61.938%
30.0	571.725	156.692	1000.562	10.467%	73.439%
35.0	474.940	149.320	1149.883	9.975%	84.398%
40.0	352.371	124.153	1274.036	8.293%	93.511%
45.0	153.668	59.560	1333.596	3.979%	97.882%
50.0	19.512	8.193	1341.789	.547%	98.484%
55.0	7.052	3.167	1344.956	.212%	98.716%
60.0	6.061	2.877	1347.833	.192%	98.927%
65.0	5.527	2.745	1350.578	.183%	99.129%
70.0	5.210	2.684	1353.262	.179%	99.326%
75.0	4.971	2.632	1355.894	.176%	99.519%
80.0	4.859	2.623	1358.517	.175%	99.711%
85.0	4.788	2.615	1361.131	.175%	99.903%
90.0	4.802	1.316	1362.448	.088%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1000.56	66.84%	73.44%
0-40	1274.04	85.11%	93.51%
0-60	1347.83	90.04%	98.93%
0-90	1361.13	90.92%	99.90%
0-120	1361.13	90.92%	99.90%
0-180	1362.45	91.01%	100.00%
60-90	16.18	1.08%	1.19%
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%
0-32.99	1089.96	72.81%	80.00%

ZONAL LUMEN SUMMARY

0-10	283.95
10-20	385.31
20-30	331.30
30-40	273.47
40-50	67.75
50-60	6.04
60-70	5.43
70-80	5.25
80-90	2.61
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: —————

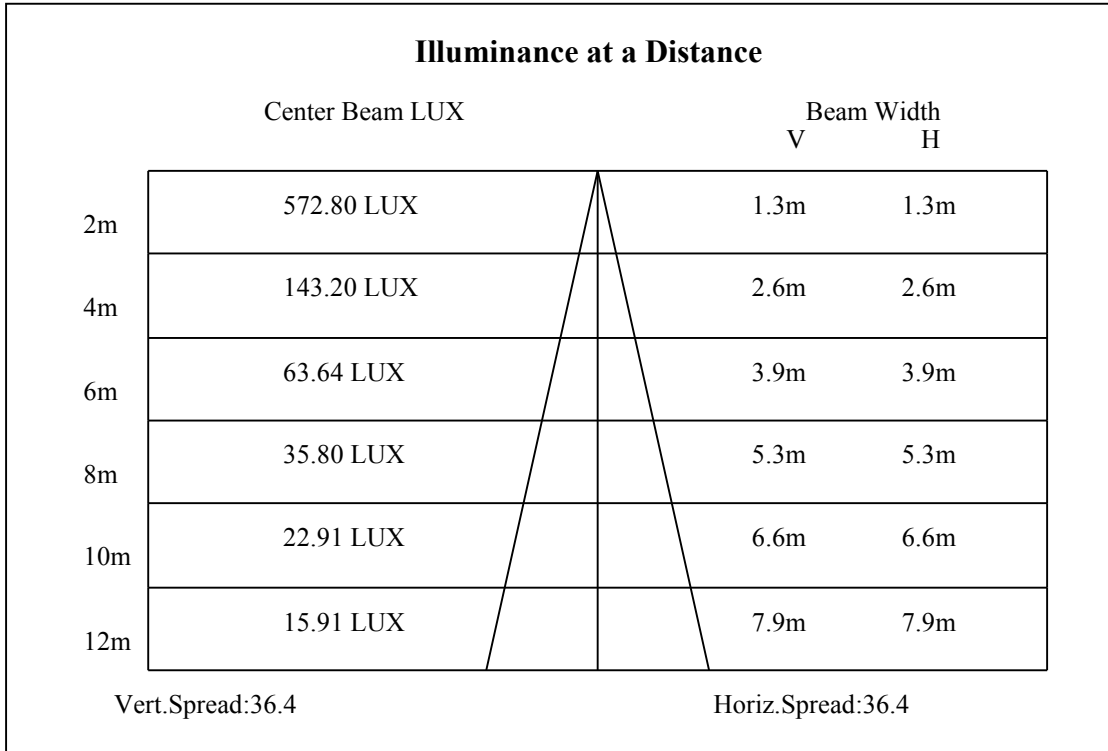
C90/C270: —————

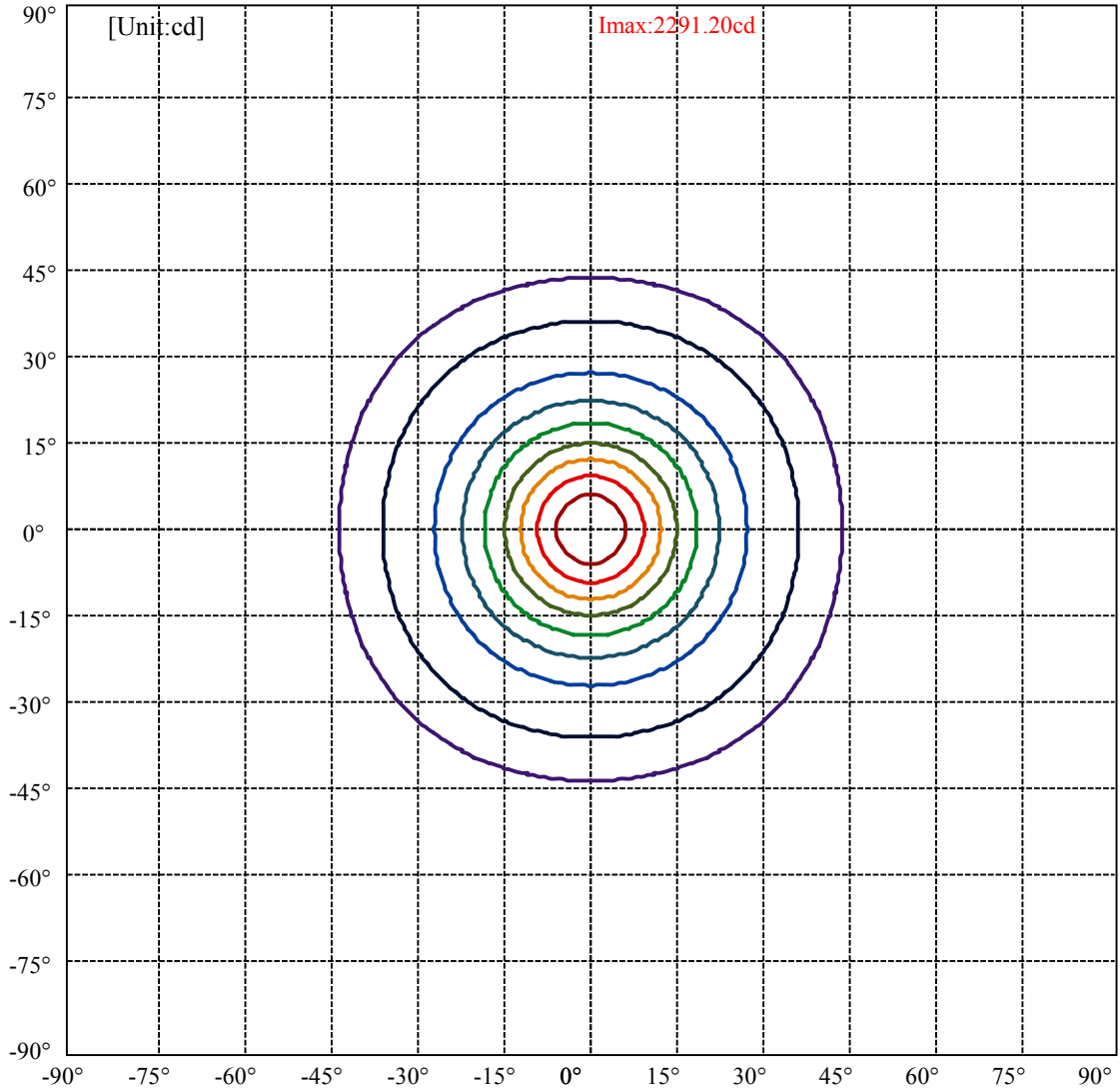
Field angle(10%Imax):C0/180Left:43.1 Right:43.1

:C90/270Left:43.1 Right:43.1

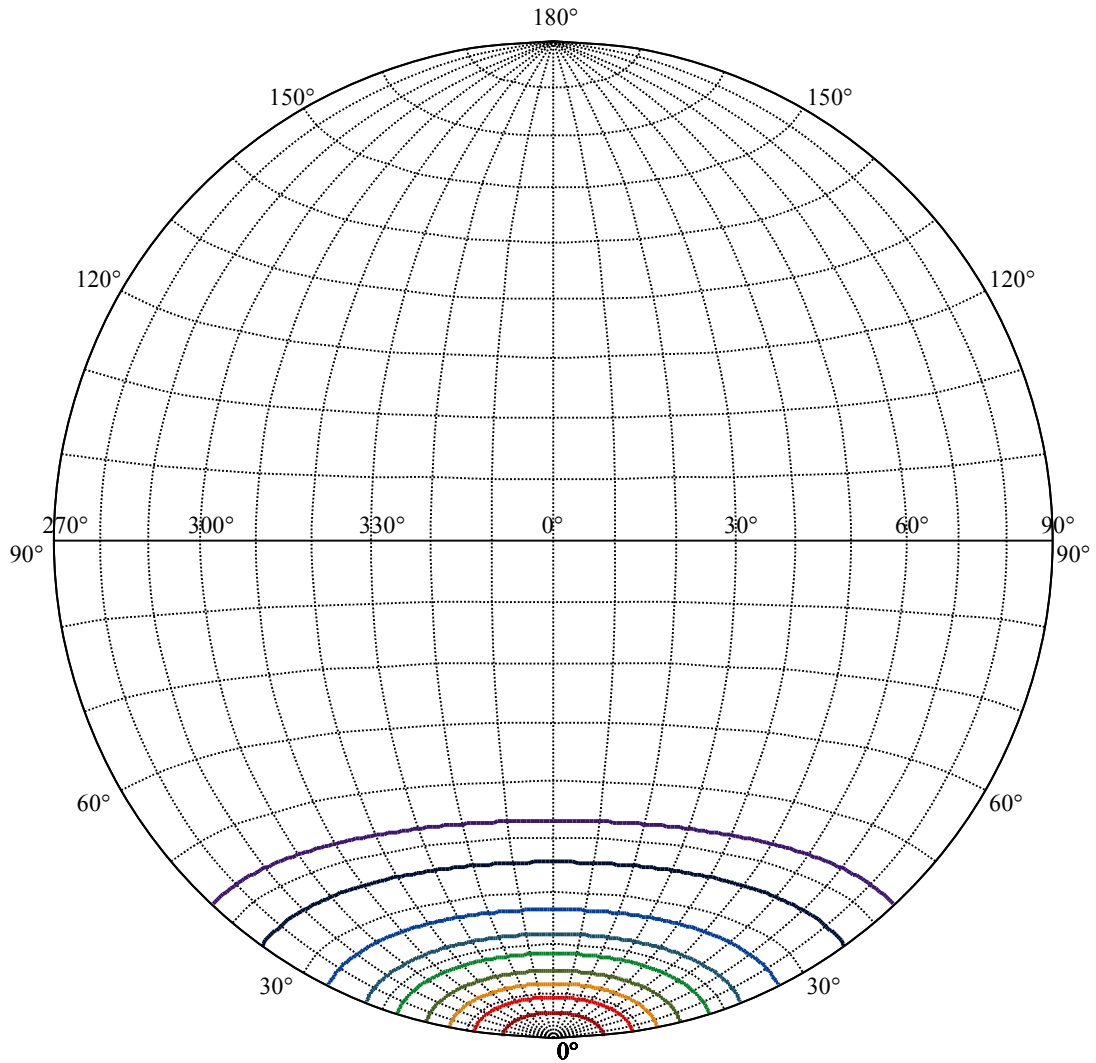
Beam Angle(50%Imax):C0/180Left:18.2 Right:18.2

:C90/270Left:18.2 Right:18.2





(10%Imax) 229.12	—
(20%Imax) 458.241	—
(30%Imax) 687.361	—
(40%Imax) 916.481	—
(50%Imax) 1145.6	—
(60%Imax) 1374.72	—
(70%Imax) 1603.84	—
(80%Imax) 1832.96	—
(90%Imax) 2062.08	—



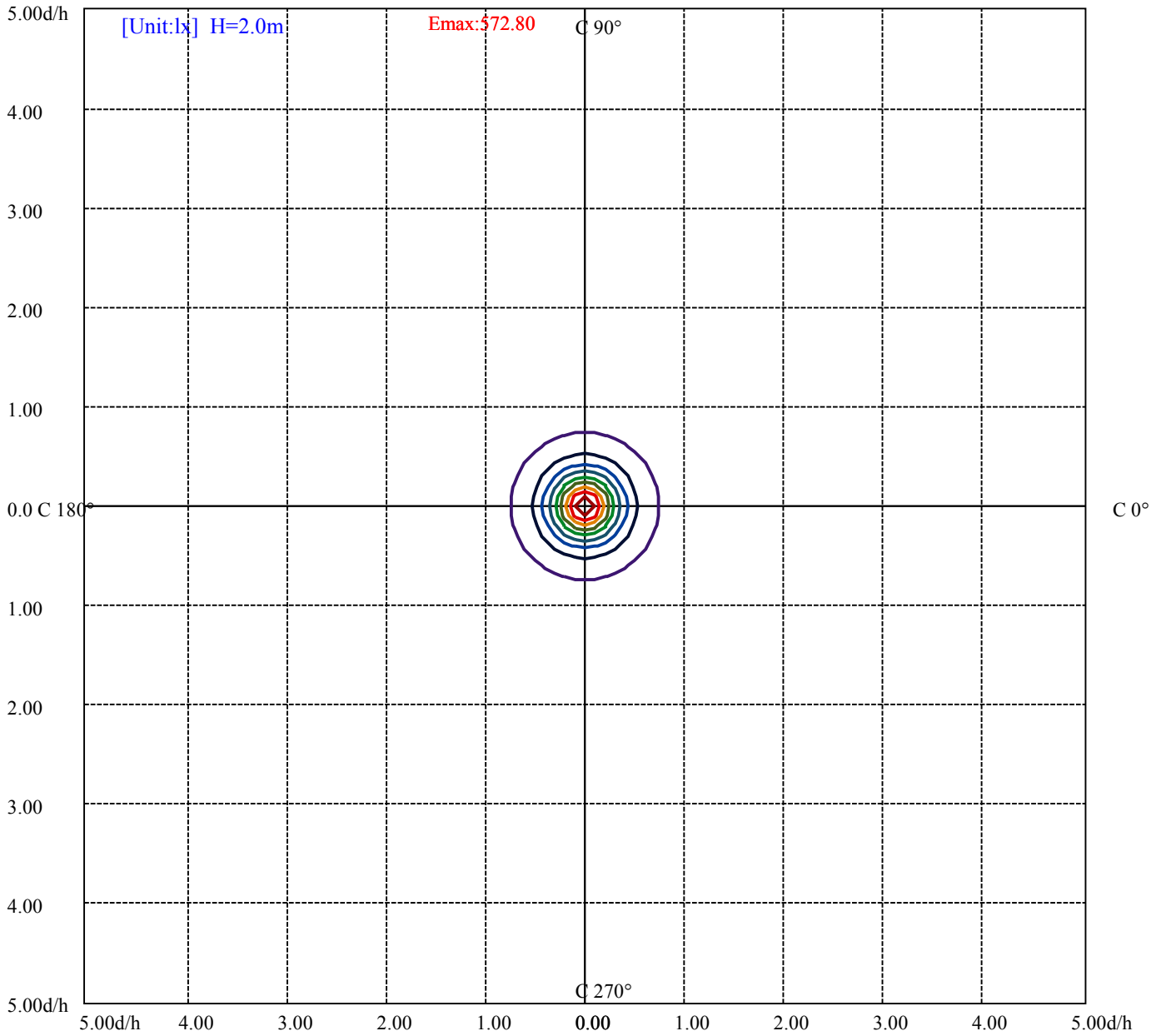
House

[Unit:cd]

Road

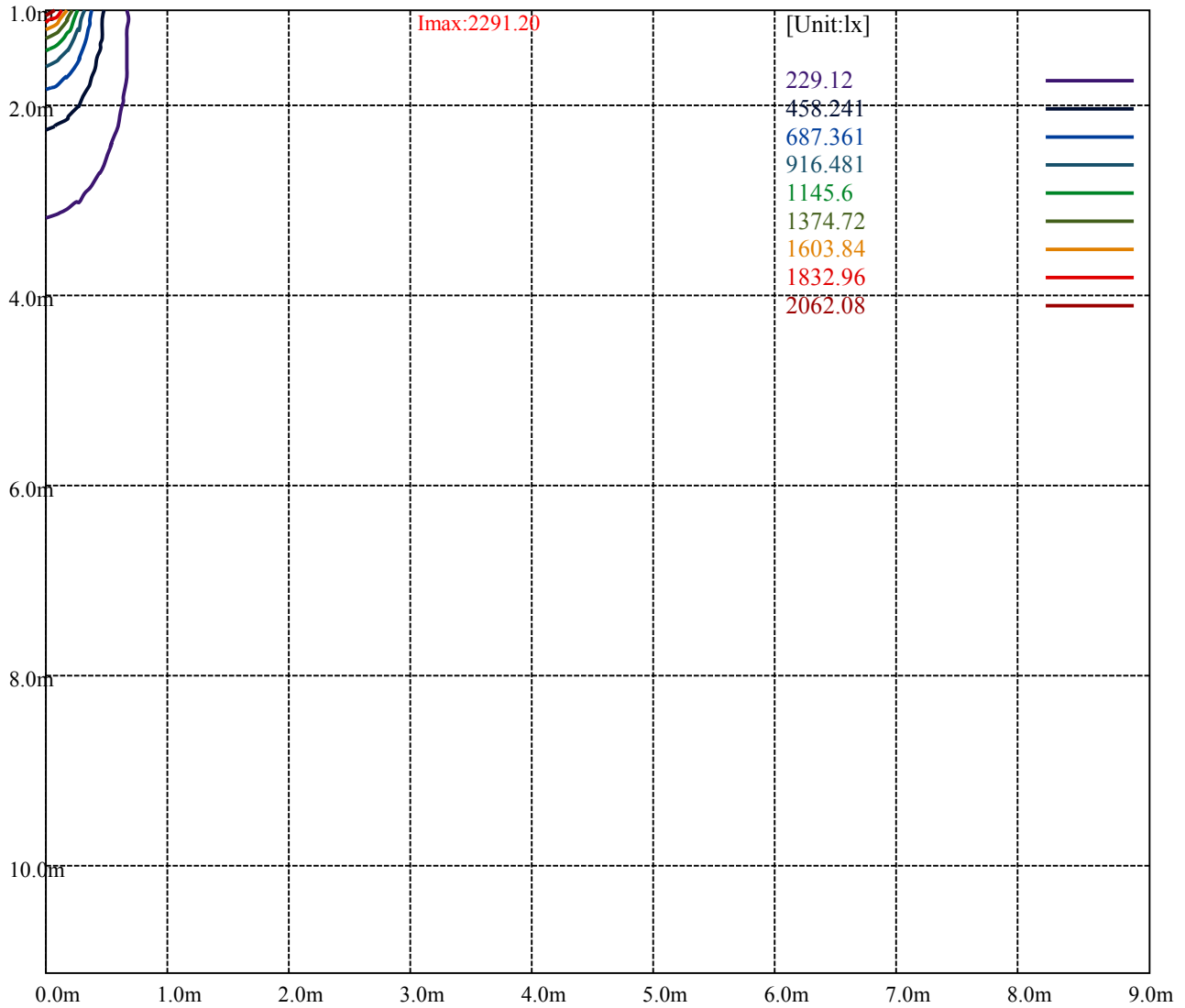
Imax:2291.20

(10%Imax)	229.12	—
(20%Imax)	458.241	—
(30%Imax)	687.361	—
(40%Imax)	916.481	—
(50%Imax)	1145.6	—
(60%Imax)	1374.72	—
(70%Imax)	1603.84	—
(80%Imax)	1832.96	—
(90%Imax)	2062.08	—



(10%Emax) 57.28	—
(20%Emax) 114.56	—
(30%Emax) 171.8398	—
(40%Emax) 229.1198	—
(50%Emax) 286.4	—
(60%Emax) 343.68	—
(70%Emax) 400.96	—
(80%Emax) 458.24	—
(90%Emax) 515.52	—





Luminance Table

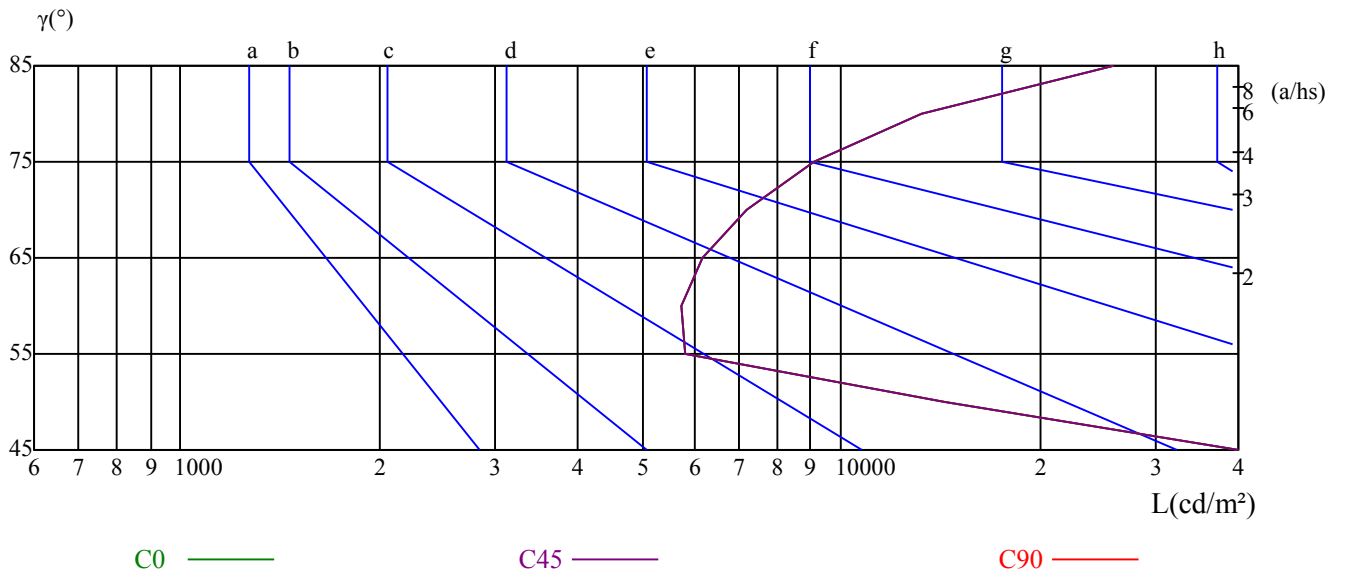
$\gamma$	45	50	55	60	65	70	75	80	85
C0	102703	14345	5811	5729	6180	7199	9077	13223	25964
C45	102703	14345	5811	5729	6180	7199	9077	13223	25964
C90	102703	14345	5811	5729	6180	7199	9077	13223	25964

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6180	6180	6180	9077	9077	9077	25964	25964	25964

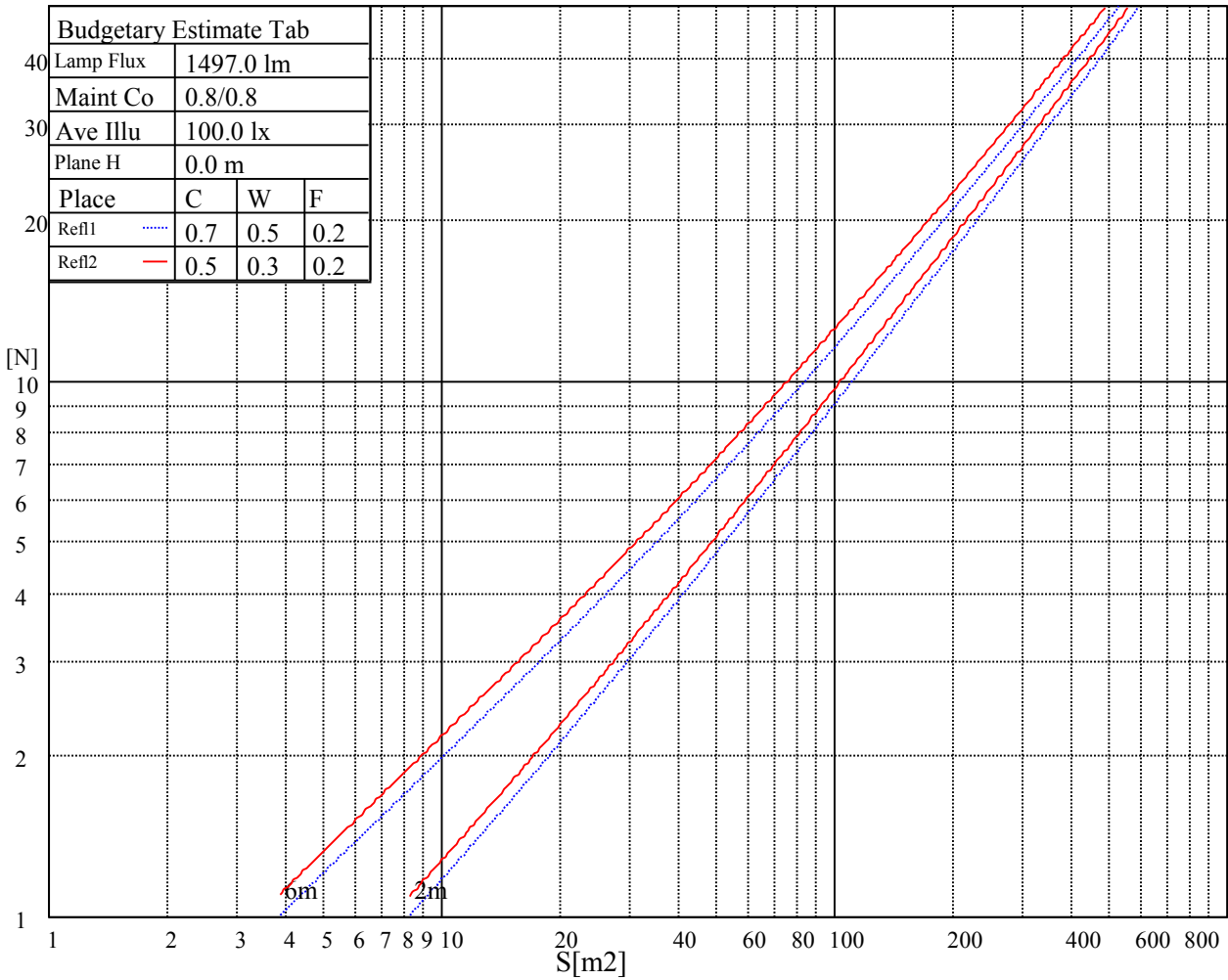
Glare Table

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

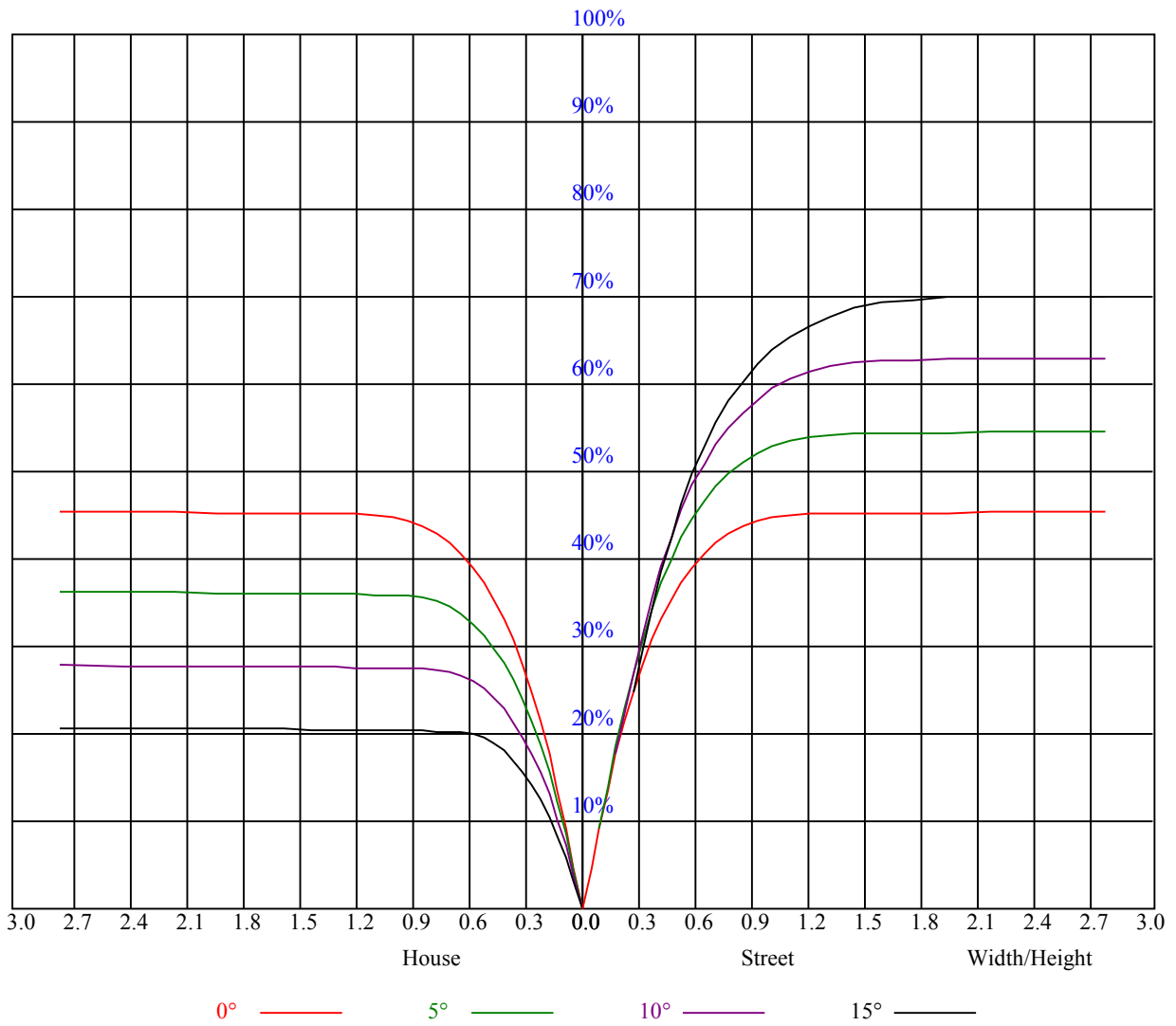
Luminance Limiting Curve



Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	5.71	6.73	6.07	7.04	7.35	5.63	6.65	5.99	6.96	7.27
	3H	8.37	9.27	8.76	9.60	9.97	8.33	9.22	8.71	9.56	9.93
	4H	9.89	10.72	10.30	11.07	11.46	9.81	10.64	10.22	11.00	11.39
	6H	11.66	12.42	12.08	12.79	13.19	11.57	12.33	11.99	12.71	13.10
	8H	12.66	13.37	13.10	13.77	14.18	12.58	13.29	13.02	13.69	14.10
	12H	14.32	15.00	14.76	15.39	15.82	14.26	14.94	14.70	15.32	15.75
4H	2H	6.43	7.26	6.84	7.61	8.00	6.37	7.20	6.78	7.55	7.94
	3H	9.41	10.08	9.82	10.49	10.90	9.38	10.06	9.80	10.47	10.87
	4H	11.13	11.73	11.57	12.15	12.60	11.06	11.66	11.50	12.09	12.53
	6H	13.09	13.60	13.56	14.05	14.52	13.02	13.53	13.49	13.98	14.46
	8H	14.20	14.68	14.68	15.13	15.61	14.14	14.62	14.61	15.07	15.54
	12H	15.79	16.20	16.28	16.69	17.17	15.73	16.15	16.22	16.64	17.11
8H	4H	11.78	12.26	12.26	12.71	13.19	11.73	12.21	12.21	12.66	13.14
	6H	14.03	14.41	14.54	14.92	15.40	13.97	14.36	14.48	14.86	15.34
	8H	15.34	15.68	15.87	16.21	16.70	15.29	15.63	15.82	16.15	16.65
	12H	17.09	17.38	17.61	17.88	18.46	17.05	17.34	17.57	17.84	18.42
12H	4H	11.97	12.38	12.46	12.87	13.35	11.92	12.34	12.41	12.83	13.30
	6H	14.62	14.67	14.86	15.14	15.69	14.57	14.62	14.81	15.09	15.64
	8H	15.77	16.07	16.29	16.57	17.15	15.72	16.02	16.25	16.52	17.10
Variation with the observer position at spacings:											
S = 1.0H	3.2/-11.7					3.2/-11.7					
S = 1.5H	5.4/-9.7					5.4/-9.7					
S = 2.0H	7.2/-8.3					7.2/-8.3					
Standard tables:	BK0					BK0					
Uncorrected UGR	5.6					5.6					



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	1.09	1.09	1.09	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	1.01	0.98	0.96	0.99	0.97	0.95	0.95	0.93	0.92	0.92	0.90	0.89	0.89	0.87	0.86	0.85
2	0.94	0.91	0.87	0.93	0.89	0.86	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.81	0.79
3	0.89	0.84	0.80	0.87	0.83	0.80	0.85	0.81	0.79	0.83	0.80	0.77	0.81	0.78	0.76	0.75
4	0.83	0.78	0.75	0.82	0.78	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.70
5	0.79	0.73	0.70	0.78	0.73	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.73	0.70	0.68	0.66
6	0.74	0.69	0.65	0.74	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.63
7	0.71	0.65	0.62	0.70	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.59
8	0.67	0.62	0.58	0.67	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.56
9	0.64	0.59	0.55	0.63	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.54
10	0.61	0.56	0.53	0.61	0.56	0.53	0.60	0.55	0.52	0.59	0.55	0.52	0.59	0.55	0.52	0.51



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	2293.31	2176.88	1866.38	1444.50	1091.25	822.38	599.63	492.75	395.44
45.0	2288.25	2115.56	1766.81	1377.56	1032.19	746.44	571.50	480.38	354.38
90.0	2276.44	2024.44	1647.00	1106.33	915.81	673.37	533.36	450.06	289.01
135.0	2306.81	2088.00	1718.44	1317.38	977.06	704.25	552.38	462.94	324.56
180.0	2293.31	2063.81	1699.31	1293.75	950.46	708.24	538.26	452.25	293.06
225.0	2288.25	2124.00	1764.56	1360.13	1038.99	753.69	572.85	480.15	362.25
270.0	2276.44	2196.56	1901.25	1509.75	1150.88	835.88	622.13	502.88	414.00
315.0	2306.81	2183.06	1832.06	1424.25	1087.43	785.59	583.71	478.13	386.27
360.0	2293.31	2176.88	1866.38	1444.50	1091.25	822.38	599.63	492.75	395.44

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	225.17	23.34	7.20	6.24	5.63	5.29	4.95	4.84	4.78
45.0	123.24	18.00	7.20	6.02	5.51	5.23	5.01	4.89	4.78
90.0	72.06	12.26	6.41	5.85	5.40	5.18	5.01	4.89	4.78
135.0	115.82	15.08	6.58	5.91	5.46	5.18	4.95	4.84	4.78
180.0	94.56	14.29	6.58	5.85	5.40	5.12	4.89	4.84	4.78
225.0	140.96	18.17	6.86	6.08	5.51	5.18	4.95	4.84	4.78
270.0	291.38	34.26	7.88	6.30	5.68	5.29	5.06	4.89	4.84
315.0	166.16	20.70	7.71	6.24	5.63	5.23	4.95	4.84	4.78
360.0	225.17	23.34	7.20	6.24	5.63	5.29	4.95	4.84	4.78

C/γ(°)	90.0
0.0	4.78
45.0	4.84
90.0	4.78
135.0	4.78
180.0	4.84
225.0	4.84
270.0	4.78
315.0	4.78
360.0	4.78