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Nata

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LumCAT: 1681-S  
Luminaire: 92.70.124.00  
Report No: NATA0100  
Test No: GC2018072823  
LampCAT: BRIDGELUX V6HD  
Lamp flux(lm): 1105.0  
Number of Lamps: 1  
Length(mm): 47  
Phm Type: C

Voltage(V): 0.0000  
Current(A): 0.0000  
Power (W): 0.0000  
PF: 0.0000  
Ballast type: DC  
Width(mm): 47  
Height(mm): 0

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Photometric Results

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Lumens(lm): 987.30  
Efficiency(%): 89.35%  
Lumens(lm)/Power(W): 0.00  
Central intensity(cd): 1532.495  
Maximum intensity(cd): 1532.495  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=50.9  
                                  [C90/270]Total=50.9  
Field angle(10%Imax): [C0/180]Total=74.5  
                                  [C90/270]Total=74.5  
Maximum s/h(1/2): C0\_180=0.73 C90\_270=0.73  
Maximum s/h(1/4): C0\_180=0.81 C90\_270=0.81  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 90.09%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 97.844%

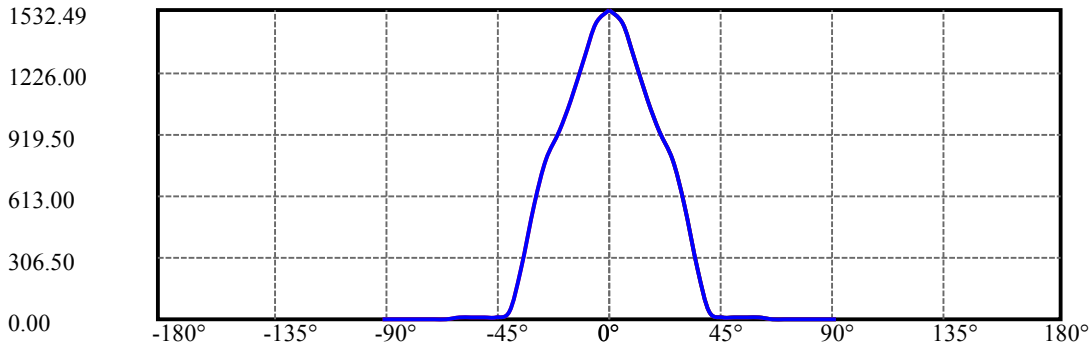
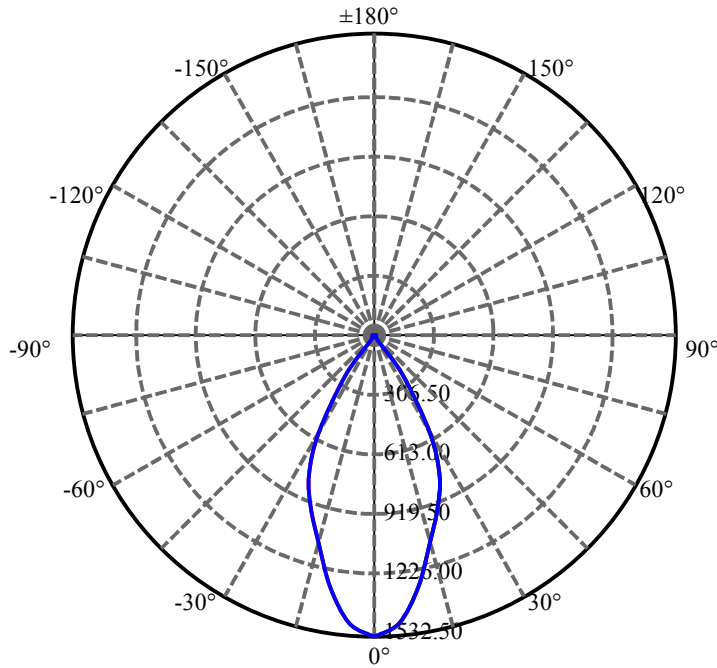
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1532.495	9.165	9.165	.829%	.928%
5.0	1468.561	70.158	79.323	6.349%	8.034%
10.0	1296.441	123.399	202.722	11.167%	20.533%
15.0	1086.724	154.172	356.894	13.952%	36.149%
20.0	931.499	174.632	531.526	15.804%	53.836%
25.0	786.157	182.116	713.641	16.481%	72.282%
30.0	571.953	156.755	870.396	14.186%	88.160%
35.0	248.772	78.214	948.609	7.078%	96.082%
40.0	37.321	13.150	961.759	1.190%	97.413%
45.0	12.876	4.991	966.75	.452%	97.919%
50.0	6.510	2.734	969.483	.247%	98.196%
55.0	5.120	2.299	971.782	.208%	98.429%
60.0	4.783	2.271	974.053	.205%	98.659%
65.0	4.583	2.277	976.33	.206%	98.889%
70.0	4.556	2.347	978.677	.212%	99.127%
75.0	4.528	2.398	981.074	.217%	99.370%
80.0	4.535	2.448	983.522	.222%	99.618%
85.0	4.700	2.567	986.089	.232%	99.878%
90.0	4.405	1.207	987.296	.109%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	870.40	78.77%	88.16%
0-40	961.76	87.04%	97.41%
0-60	974.05	88.15%	98.66%
0-90	986.09	89.24%	99.88%
0-120	986.09	89.24%	99.88%
0-180	987.30	89.35%	100.00%
60-90	14.31	1.29%	1.45%
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%
0-27.43	789.84	71.48%	80.00%

ZONAL LUMEN SUMMARY

0-10	202.72
10-20	328.80
20-30	338.87
30-40	91.36
40-50	7.72
50-60	4.57
60-70	4.62
70-80	4.85
80-90	2.57
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



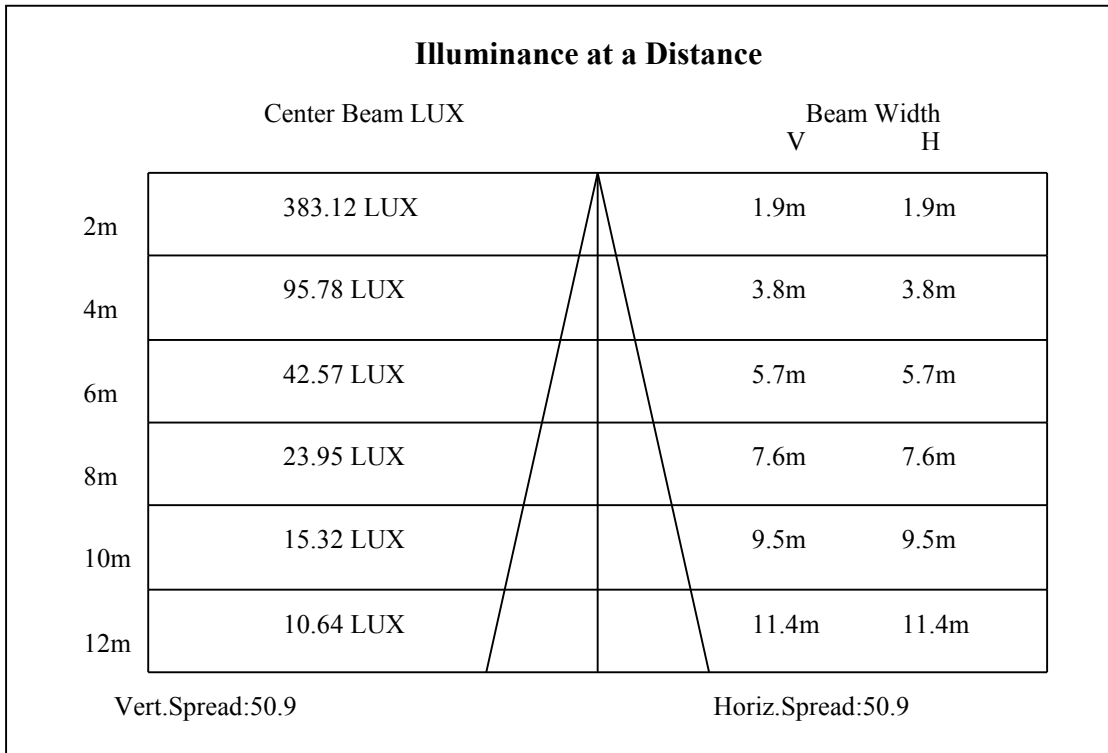
C0(Max): —————

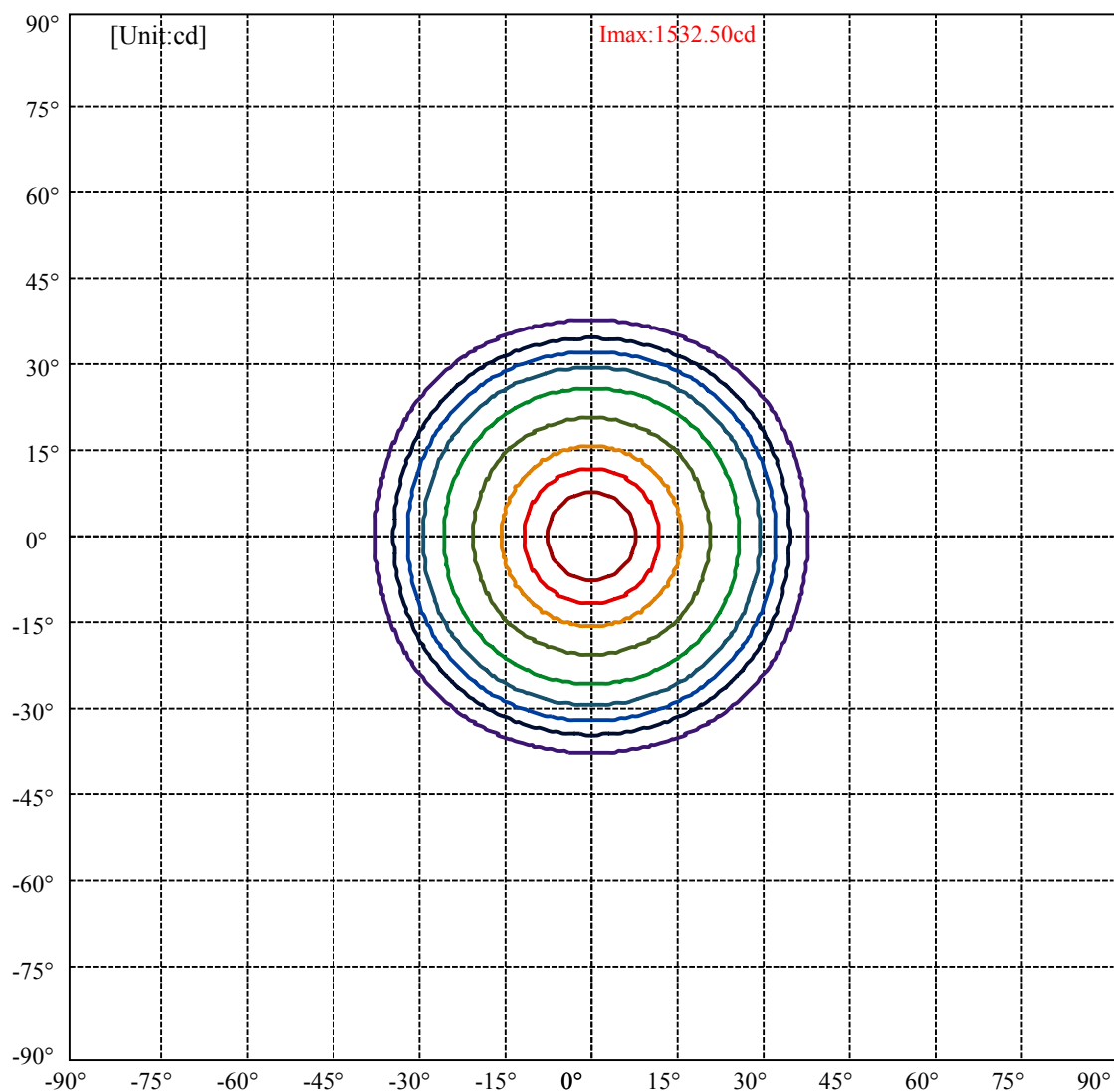
C0/C180: —————

C90/C270: —————

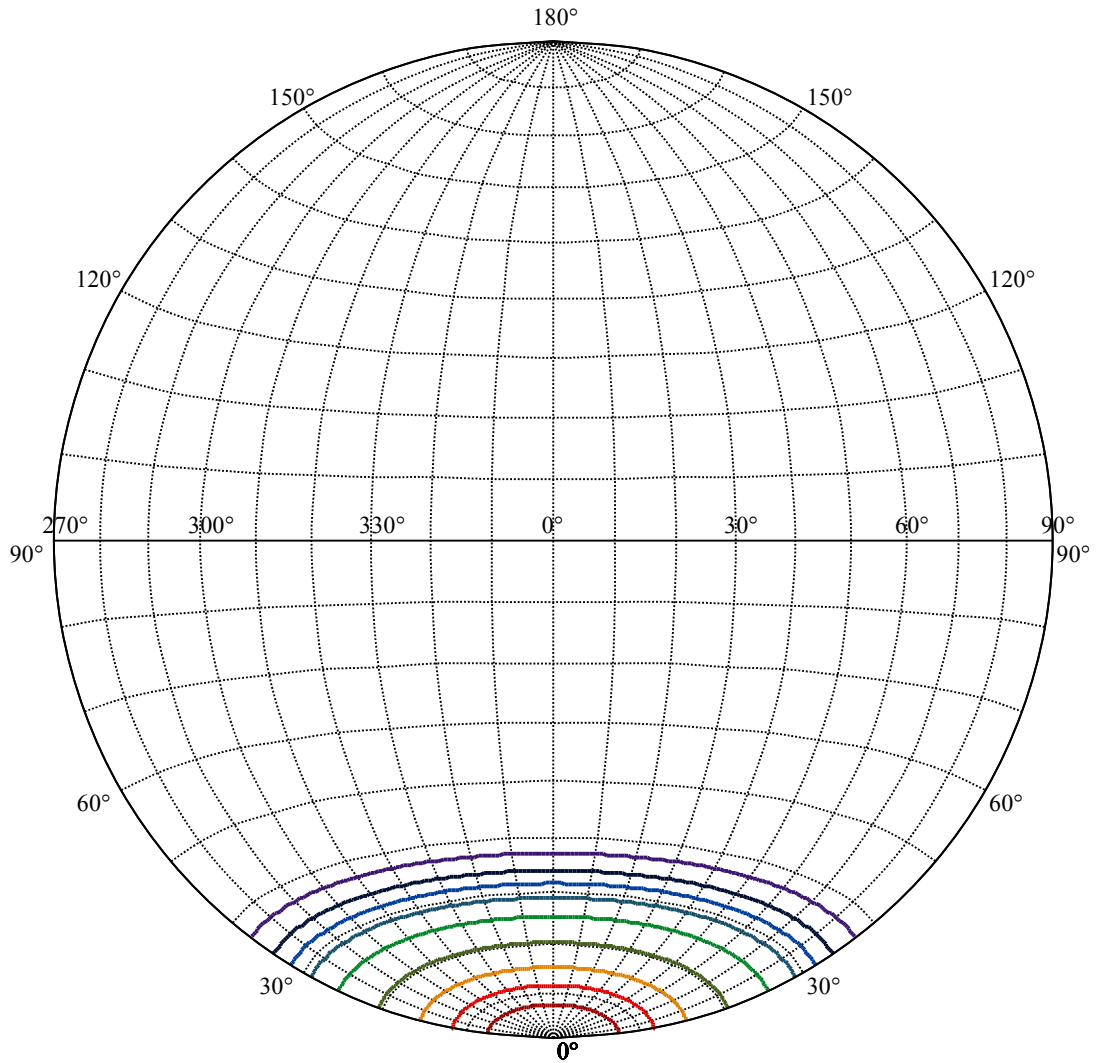
Field angle(10%Imax):C0/180Left:37.3 Right:37.3  
:C90/270Left:37.3 Right:37.3

Beam Angle(50%Imax):C0/180Left:25.5 Right:25.5  
:C90/270Left:25.5 Right:25.5





(10%Imax) 153.249	—
(20%Imax) 306.499	—
(30%Imax) 459.749	—
(40%Imax) 612.998	—
(50%Imax) 766.247	—
(60%Imax) 919.497	—
(70%Imax) 1072.75	—
(80%Imax) 1226	—
(90%Imax) 1379.25	—



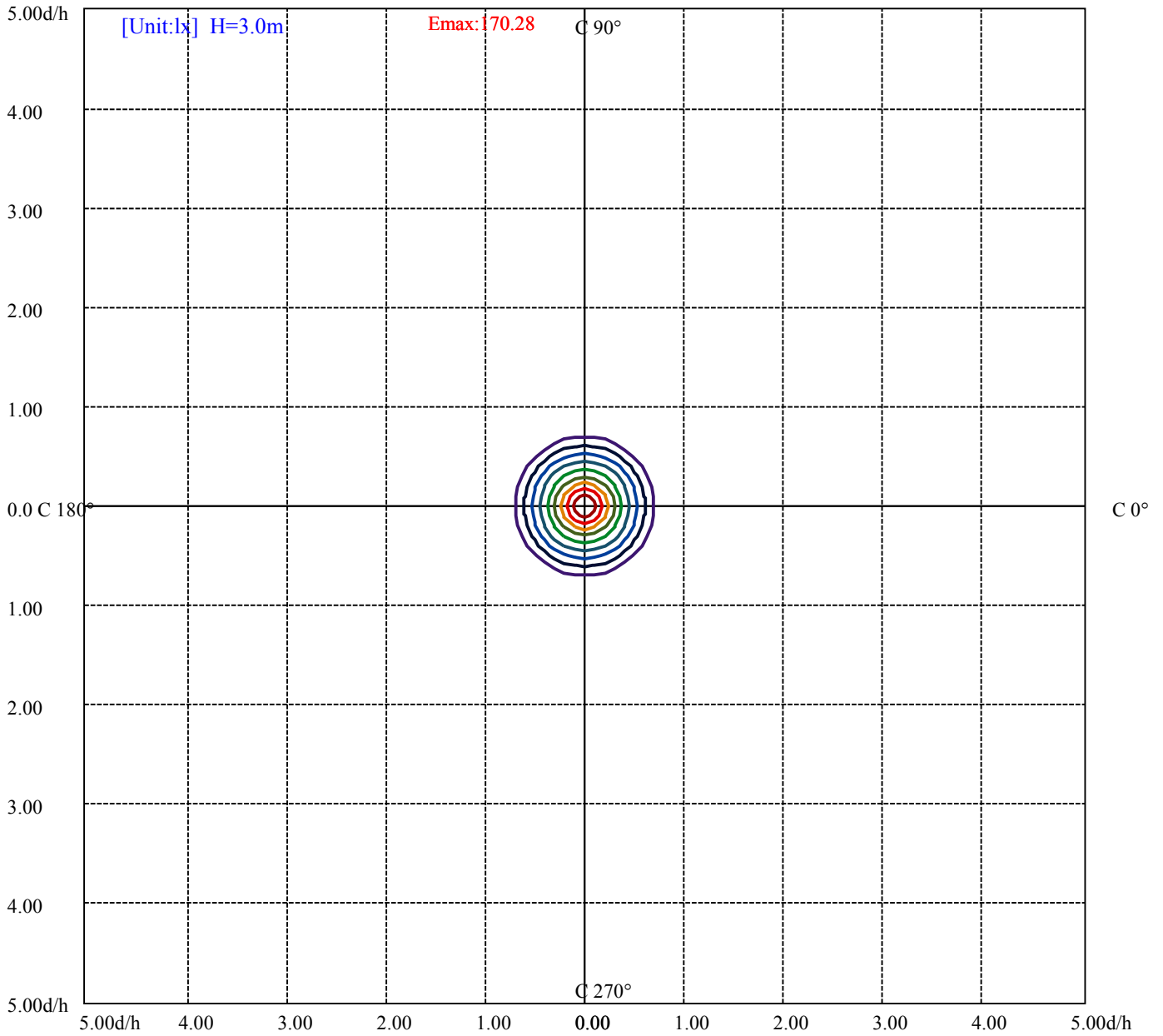
House

[Unit:cd]

Road

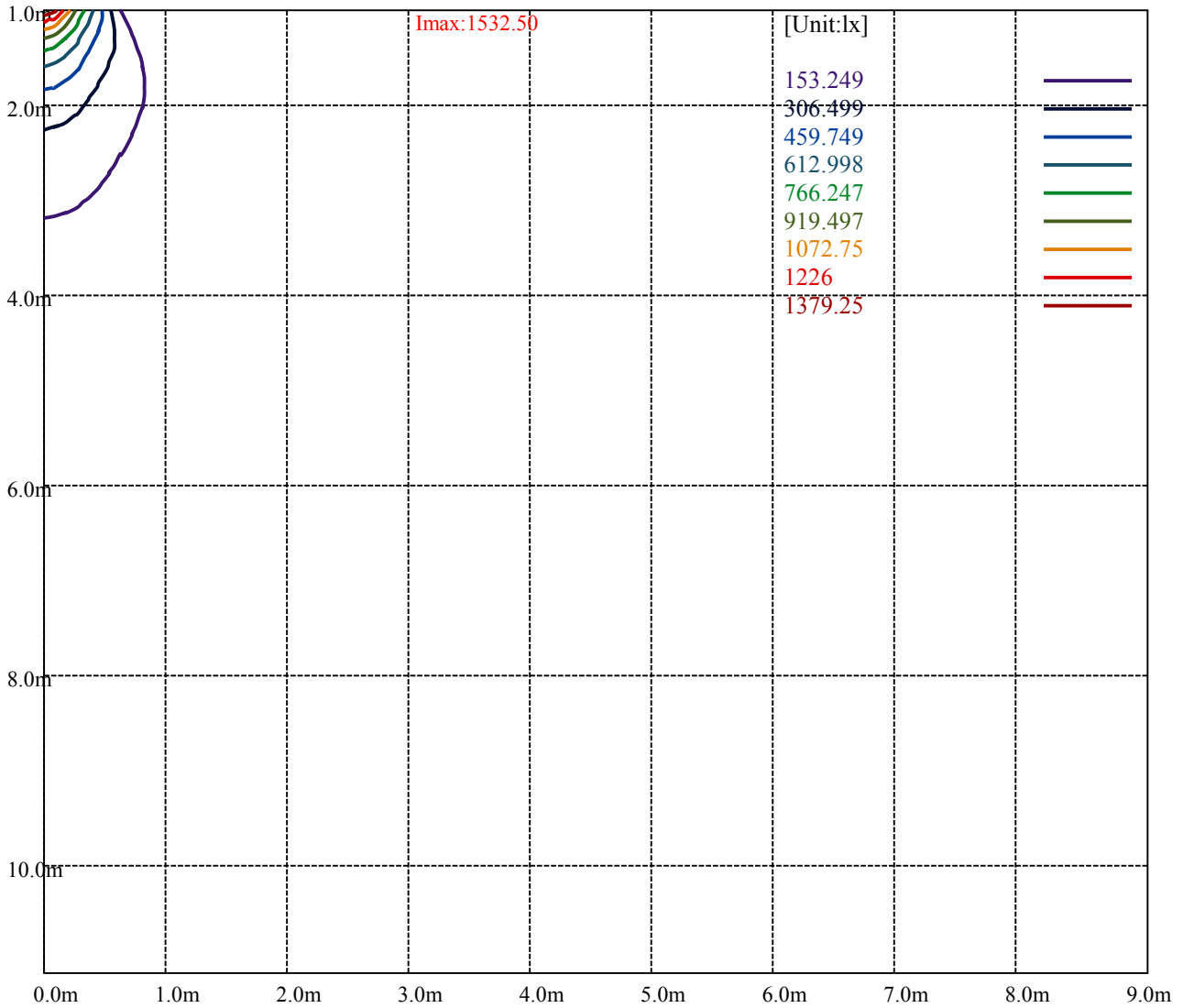
**Imax:1532.50**

(10%Imax) 153.249	—
(20%Imax) 306.499	—
(30%Imax) 459.749	—
(40%Imax) 612.998	—
(50%Imax) 766.247	—
(60%Imax) 919.497	—
(70%Imax) 1072.75	—
(80%Imax) 1226	—
(90%Imax) 1379.25	—



(10%Emax) 17.02767	—
(20%Emax) 34.05544	—
(30%Emax) 51.08311	—
(40%Emax) 68.11078	—
(50%Emax) 85.13856	—
(60%Emax) 102.1662	—
(70%Emax) 119.1944	—
(80%Emax) 136.2211	—
(90%Emax) 153.2489	—





Luminance Table

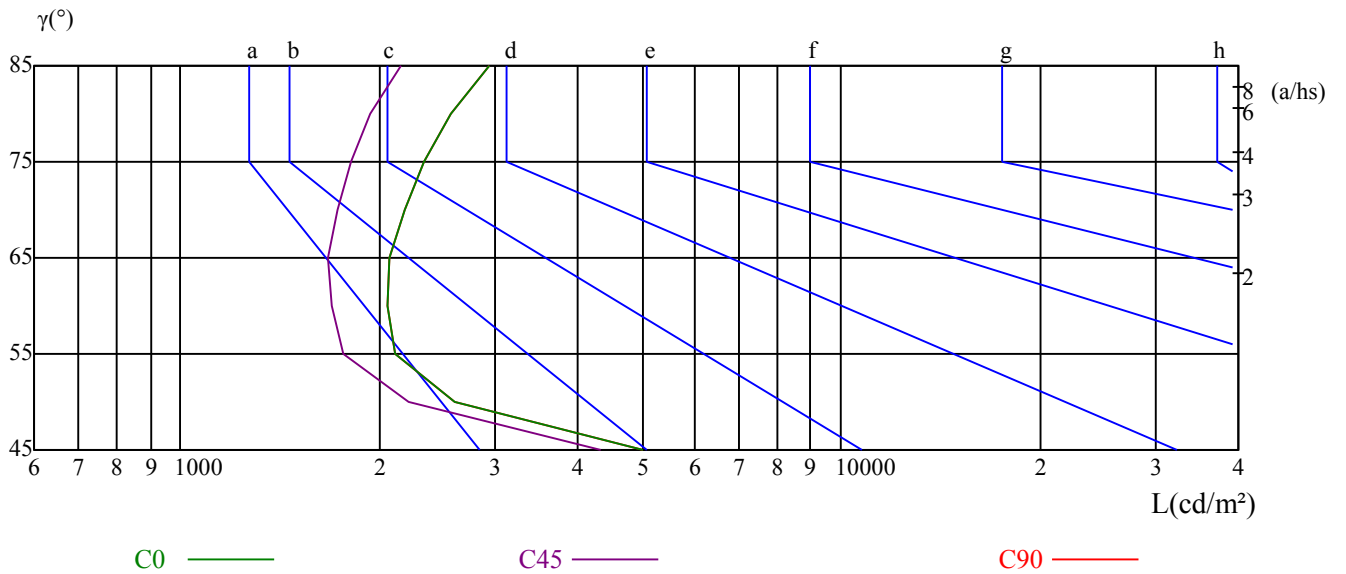
$\gamma$	45	50	55	60	65	70	75	80	85
C0	5032	2604	2114	2057	2073	2190	2342	2559	2943
C45	4333	2209	1765	1689	1672	1733	1813	1932	2157
C90	5032	2604	2114	2057	2073	2190	2342	2559	2943

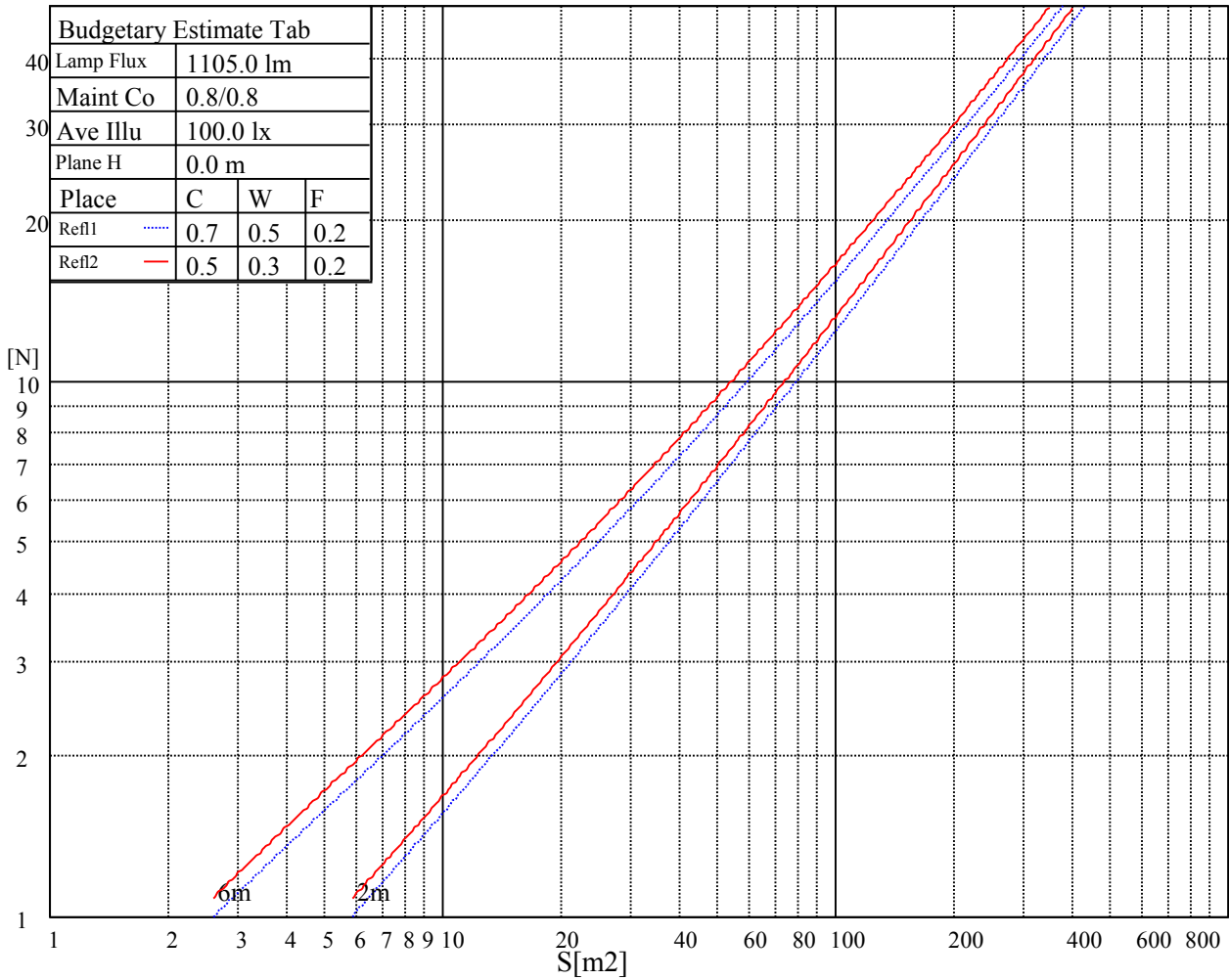
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4910	4910	4910	7920	7920	7920	24414	24414	24414

Glare Table

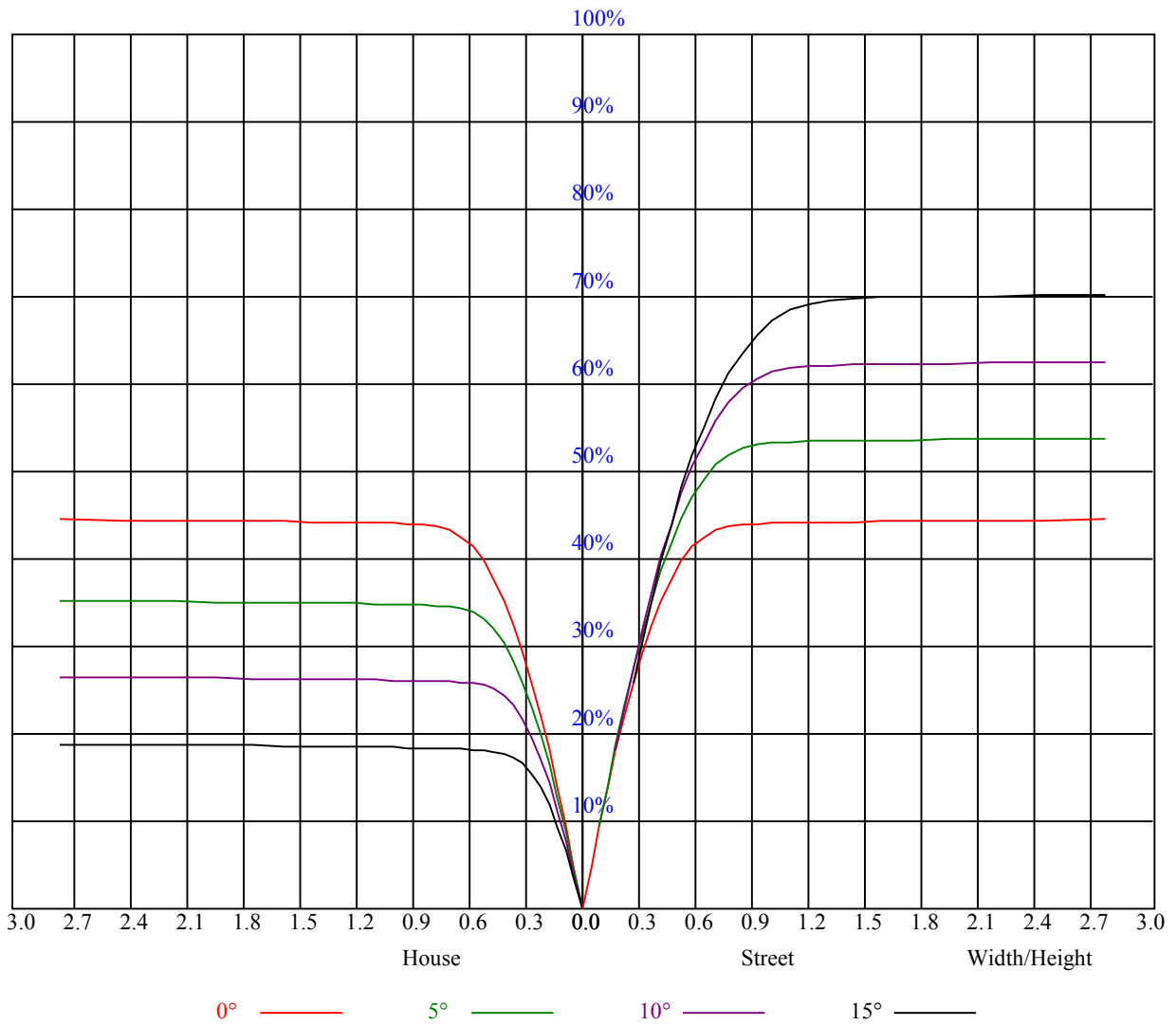
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.07	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	0.95	0.97	0.95	0.93	0.94	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84
2	0.93	0.90	0.87	0.92	0.89	0.86	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.81	0.79
3	0.88	0.84	0.81	0.87	0.83	0.80	0.85	0.81	0.79	0.83	0.80	0.78	0.81	0.78	0.76	0.75
4	0.84	0.79	0.76	0.83	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.73	0.71
5	0.79	0.75	0.71	0.79	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.74	0.71	0.69	0.68
6	0.76	0.71	0.67	0.75	0.70	0.67	0.74	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
7	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
8	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.59
9	0.66	0.61	0.58	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.56
10	0.63	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.54



Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	1530.02	1480.47	1311.99	1122.05	952.48	785.10	533.50	295.65	30.83
45.0	1535.52	1449.64	1262.44	1053.78	904.03	747.12	506.52	202.22	27.42
90.0	1528.92	1433.12	1210.69	1023.61	869.51	739.96	517.36	153.50	30.39
135.0	1535.52	1465.05	1289.42	1074.70	917.24	796.67	628.19	295.65	49.61
180.0	1530.02	1458.44	1286.12	1074.32	920.38	794.41	599.40	278.81	41.68
225.0	1535.52	1483.77	1343.38	1093.03	950.05	817.09	636.01	295.49	44.82
270.0	1528.92	1500.29	1367.05	1155.63	984.41	840.16	641.96	306.11	44.43
315.0	1535.52	1477.71	1300.43	1096.67	953.91	768.75	512.69	162.75	29.40
360.0	1530.02	1480.47	1311.99	1122.05	952.48	785.10	533.50	295.65	30.83
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	10.13	5.89	5.12	4.84	4.62	4.62	4.57	4.57	5.07
45.0	9.80	5.67	4.96	4.68	4.51	4.51	4.57	4.51	4.62
90.0	11.40	6.00	4.96	4.62	4.46	4.46	4.40	4.46	4.40
135.0	16.24	7.76	5.23	4.73	4.51	4.46	4.40	4.40	4.40
180.0	14.59	6.61	5.07	4.73	4.51	4.46	4.46	4.46	4.46
225.0	15.53	7.10	5.12	4.79	4.62	4.57	4.62	4.62	4.68
270.0	15.31	7.16	5.34	4.96	4.73	4.68	4.57	4.62	4.68
315.0	10.02	5.89	5.18	4.90	4.68	4.68	4.62	4.62	5.29
360.0	10.13	5.89	5.12	4.84	4.62	4.62	4.57	4.57	5.07
C/ $\gamma$ (°)	90.0								
0.0	4.40								
45.0	4.40								
90.0	4.40								
135.0	4.40								
180.0	4.40								
225.0	4.40								
270.0	4.40								
315.0	4.40								
360.0	4.40								