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Nata

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LumCAT: 3-1915-E  
Luminaire: 92.76.323.00  
Report No: GC2017030706  
Test No: NT-0010  
LampCAT: SLM 1208 G6 L15  
Lamp flux(lm): 2505.0  
Number of Lamps: 1  
Length(mm): 79  
Phm Type: C

Voltage(V): 34.7000  
Current(A): 0.6200  
Power (W): 21.5140  
PF: 0.0000  
Ballast type: DC  
Width(mm): 79  
Height(mm): 0

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Photometric Results

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Lumens(lm): 2416.09  
Efficiency(%): 96.45%  
Lumens(lm)/Power(W): 112.30  
Central intensity(cd): 16119.140  
Maximum intensity(cd): 16119.140  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=15.4  
                                  [C90/270]Total=15.4  
Field angle(10%Imax): [C0/180]Total=35.0  
                                  [C90/270]Total=35.0  
Maximum s/h(1/2): C0\_180=0.27 C90\_270=0.27  
Maximum s/h(1/4): C0\_180=0.28 C90\_270=0.28  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 96.45%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.703%

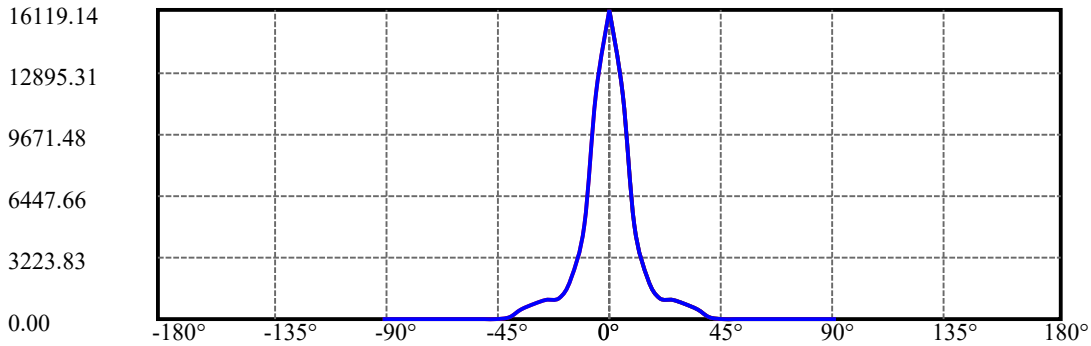
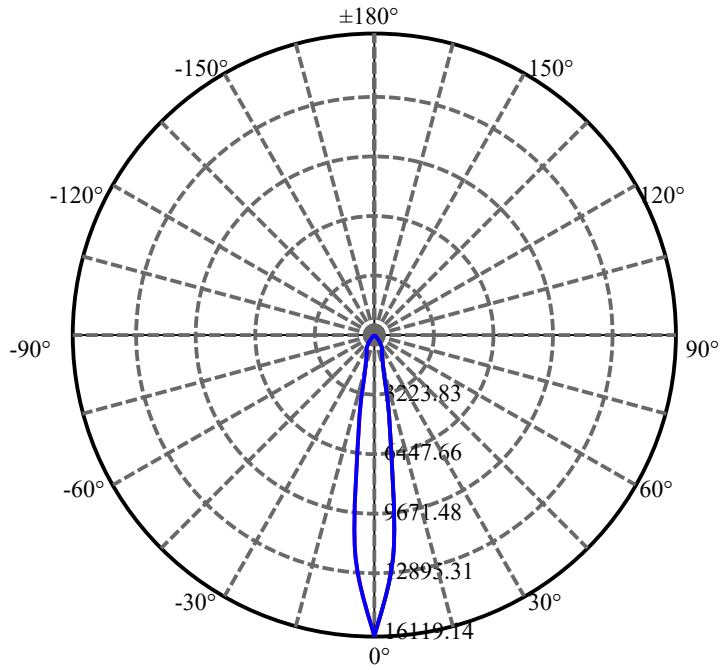
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	16119.138	0.000	0	.000%	.000%
5.0	11696.250	332.525	332.525	13.274%	13.763%
10.0	4927.548	594.686	927.211	23.740%	38.377%
15.0	2080.788	415.730	1342.94	16.596%	55.583%
20.0	1141.409	265.554	1608.495	10.601%	66.574%
25.0	953.577	219.725	1828.22	8.771%	75.669%
30.0	848.020	227.994	2056.214	9.102%	85.105%
35.0	464.359	193.257	2249.471	7.715%	93.104%
40.0	111.985	96.159	2345.629	3.839%	97.084%
45.0	16.118	23.719	2369.349	.947%	98.066%
50.0	11.548	5.590	2374.939	.223%	98.297%
55.0	10.881	4.877	2379.816	.195%	98.499%
60.0	10.461	4.933	2384.748	.197%	98.703%
65.0	10.357	5.061	2389.809	.202%	98.912%
70.0	10.007	5.156	2394.966	.206%	99.126%
75.0	9.965	5.220	2400.186	.208%	99.342%
80.0	9.876	5.309	2405.495	.212%	99.562%
85.0	9.724	5.326	2410.821	.213%	99.782%
90.0	9.504	5.265	2416.086	.210%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2056.21	82.08%	85.11%
0-40	2345.63	93.64%	97.08%
0-60	2384.75	95.20%	98.70%
0-90	2410.82	96.24%	99.78%
0-120	2410.82	96.24%	99.78%
0-180	2416.09	96.45%	100.00%
60-90	31.01	1.24%	1.28%
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%
0-27.29	1932.87	77.16%	80.00%

ZONAL LUMEN SUMMARY

0-10	927.21
10-20	681.28
20-30	447.72
30-40	289.42
40-50	29.31
50-60	9.81
60-70	10.22
70-80	10.53
80-90	5.33
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

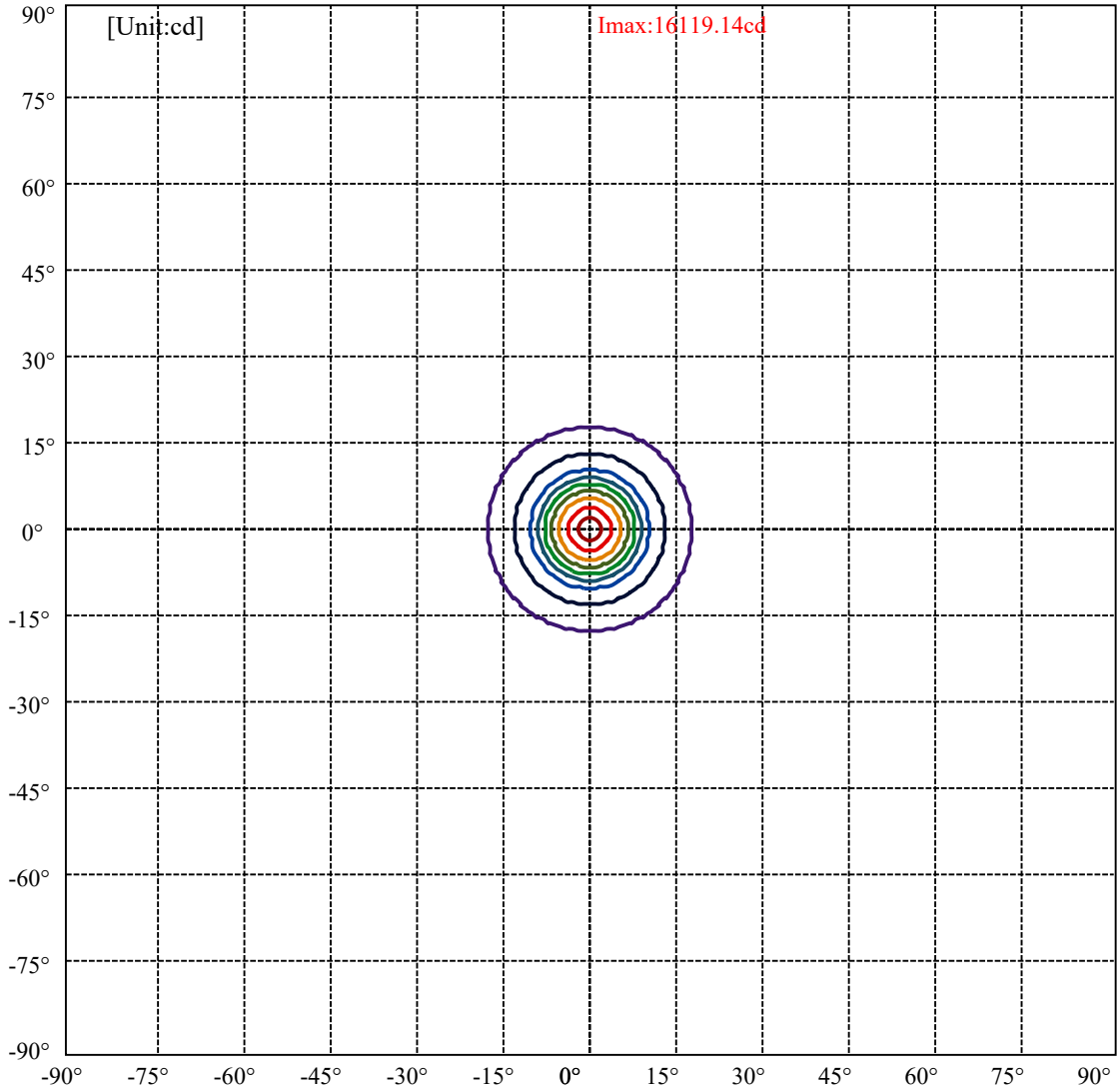


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

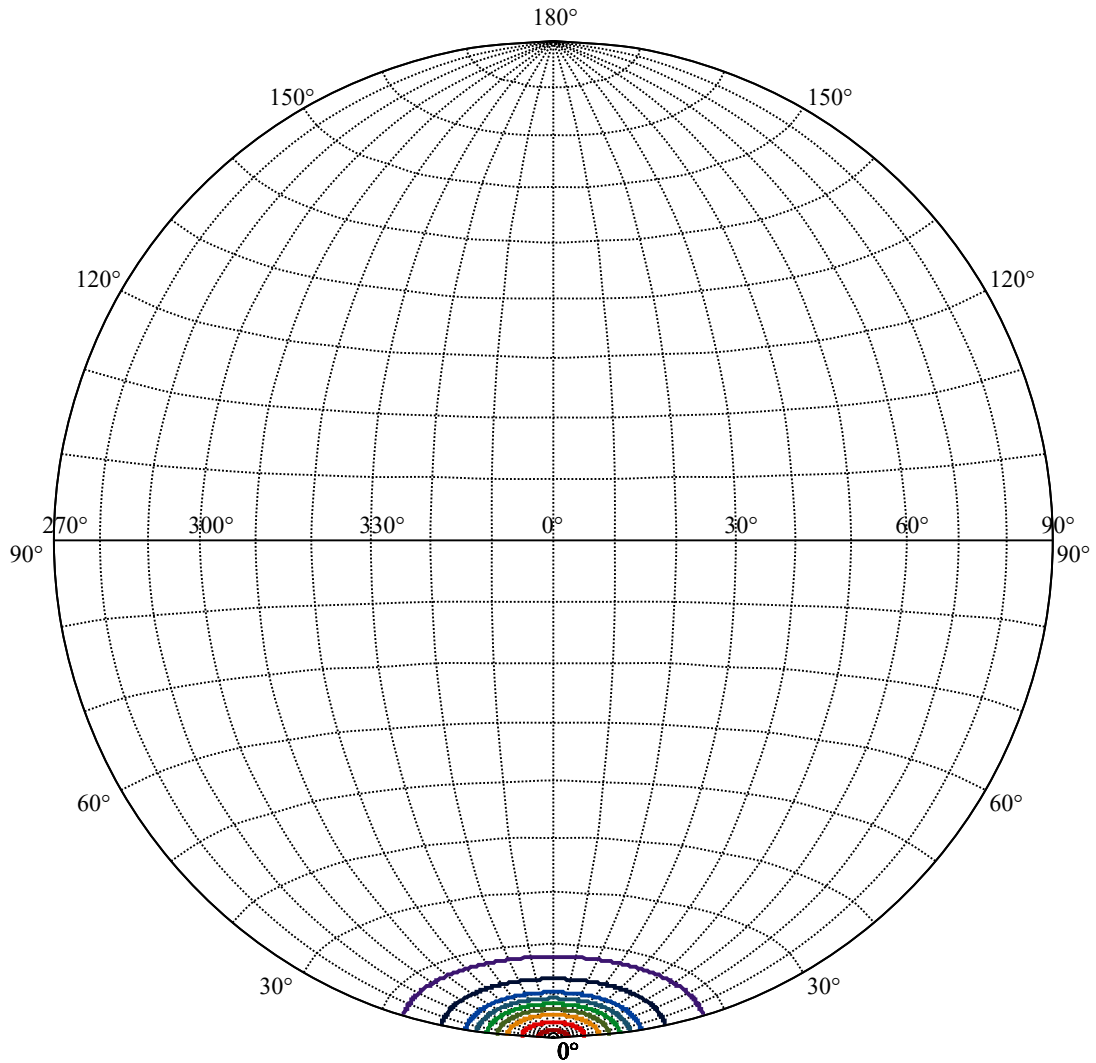
Field angle(10%Imax):C0/180Left:17.5 Right:17.5  
:C90/270Left:17.5 Right:17.5

Beam Angle(50%Imax):C0/180Left:7.7 Right:7.7  
:C90/270Left:7.7 Right:7.7





(10%Imax) 1611.91	—
(20%Imax) 3223.83	—
(30%Imax) 4835.74	—
(40%Imax) 6447.66	—
(50%Imax) 8059.57	—
(60%Imax) 9671.48	—
(70%Imax) 11283.4	—
(80%Imax) 12895.3	—
(90%Imax) 14507.2	—



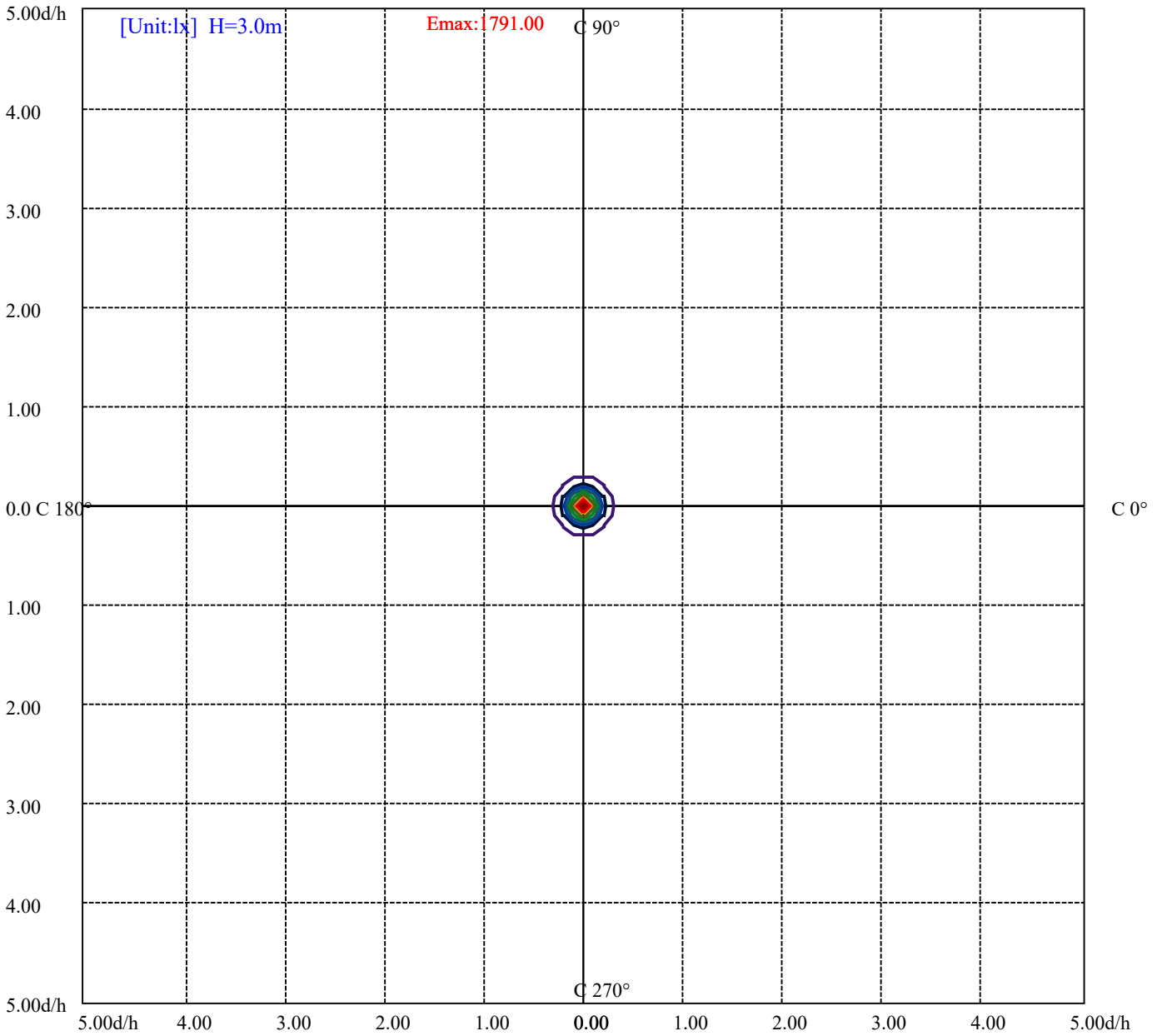
House

[Unit:cd]

Road

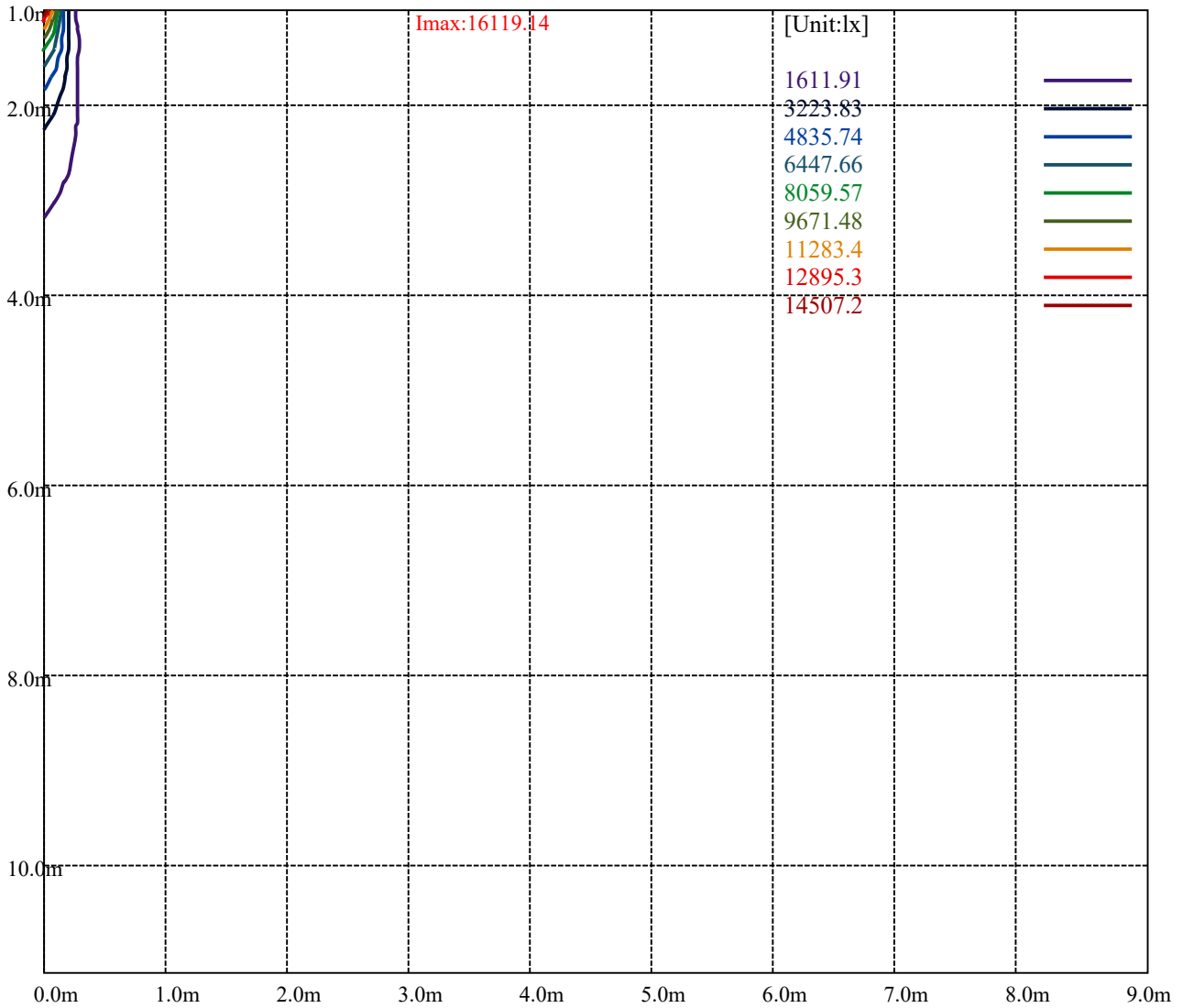
Imax:16119.14

(10%Imax)	1611.91	—
(20%Imax)	3223.83	—
(30%Imax)	4835.74	—
(40%Imax)	6447.66	—
(50%Imax)	8059.57	—
(60%Imax)	9671.48	—
(70%Imax)	11283.4	—
(80%Imax)	12895.3	—
(90%Imax)	14507.2	—



(10%Emax) 179.1	—
(20%Emax) 358.2	—
(30%Emax) 537.3	—
(40%Emax) 716.4	—
(50%Emax) 895.5	—
(60%Emax) 1074.6	—
(70%Emax) 1253.7	—
(80%Emax) 1432.8	—
(90%Emax) 1611.9	—





Luminance Table

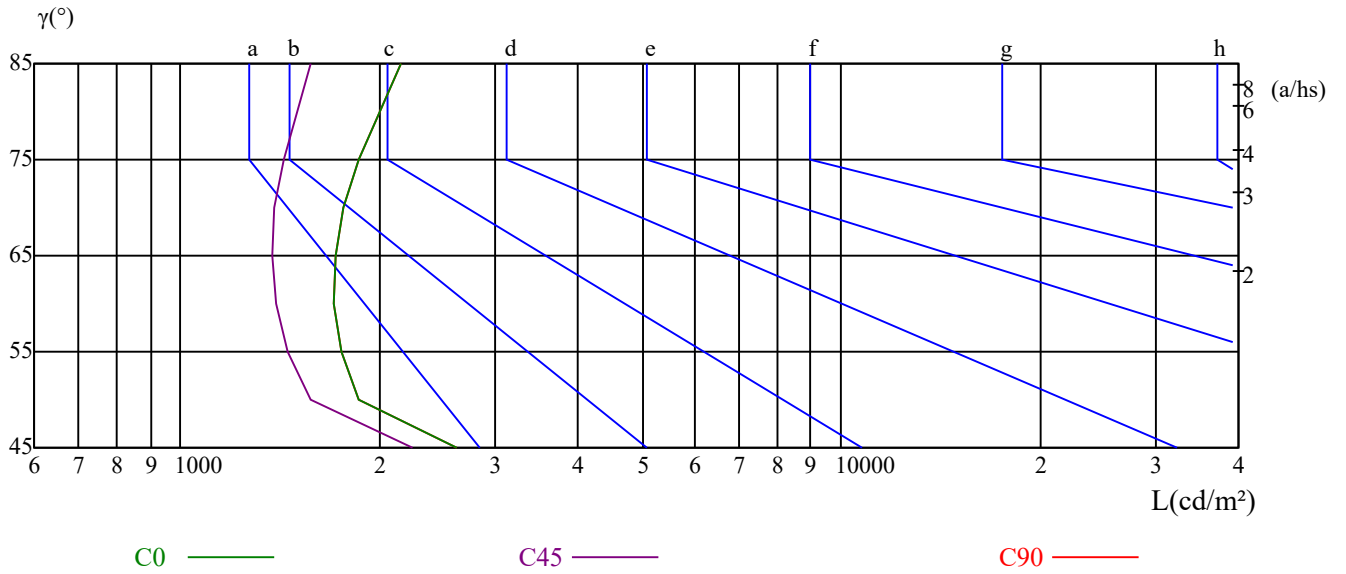
$\gamma$	45	50	55	60	65	70	75	80	85
C0	2624	1864	1754	1710	1715	1764	1866	1999	2151
C45	2244	1570	1455	1395	1375	1387	1437	1503	1572
C90	2624	1864	1754	1710	1715	1764	1866	1999	2151

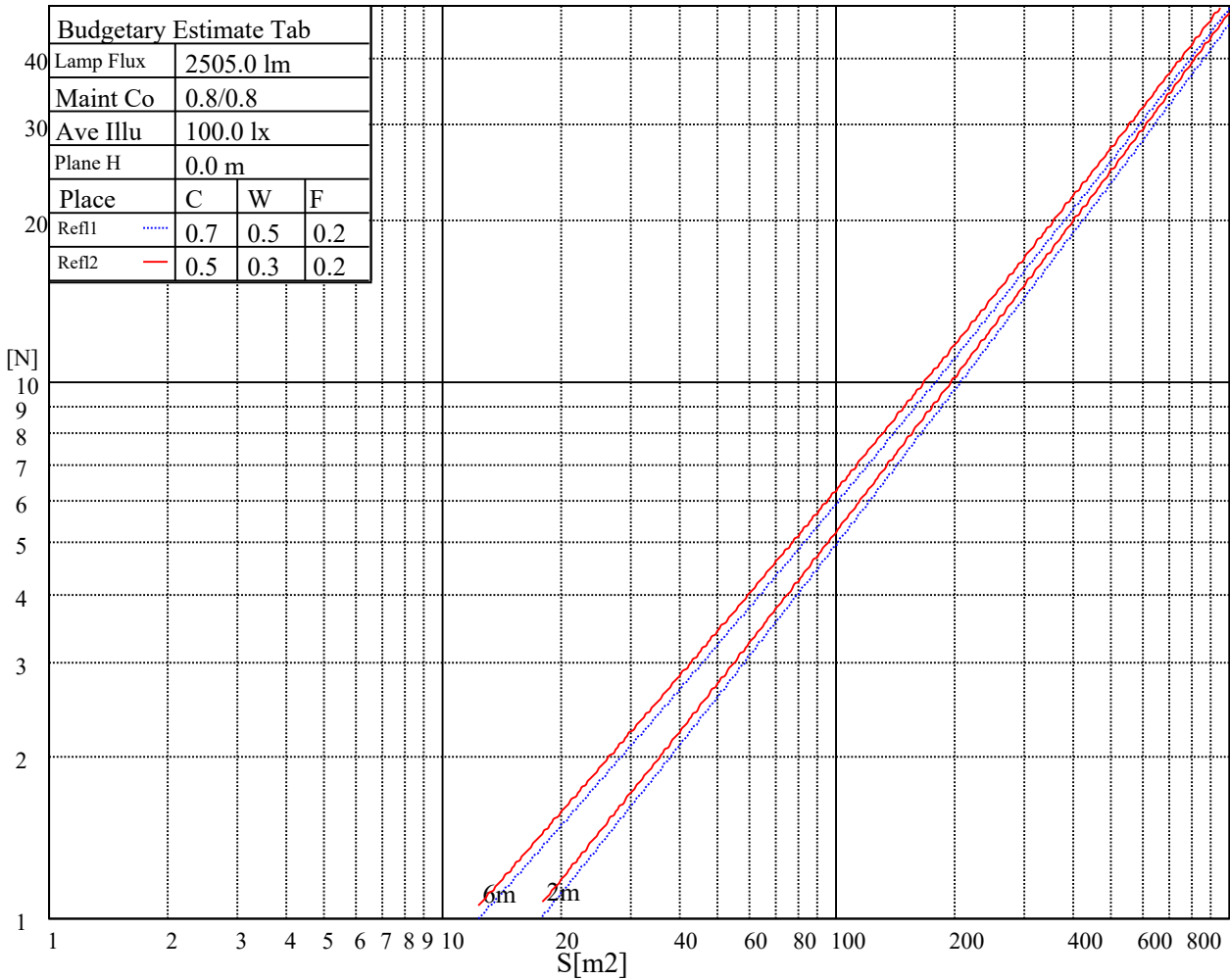
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4261	4261	4261	6687	6687	6687	19170	19170	19170

Glare Table

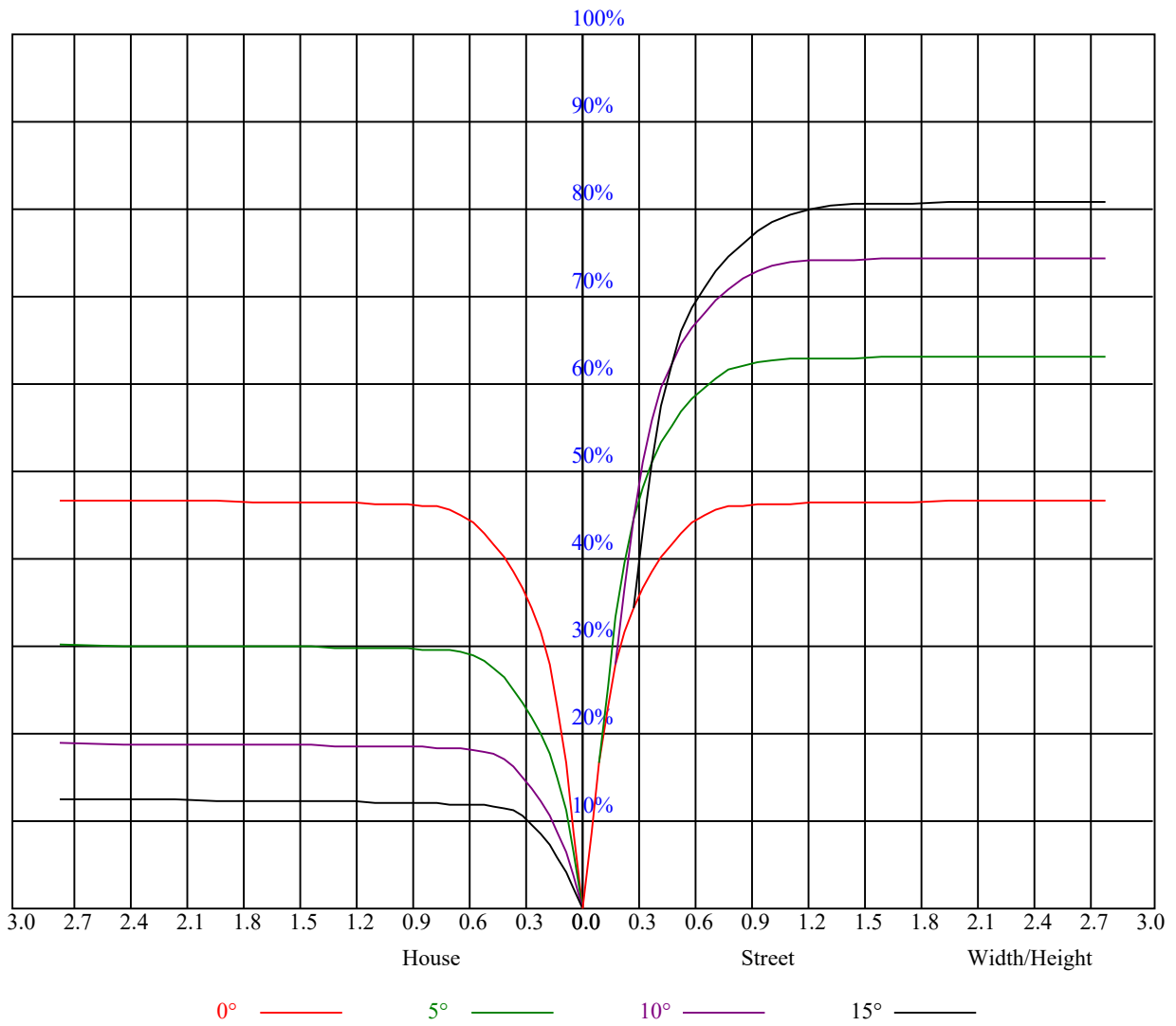
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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 RHOF=20 CU															
0	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.03	1.03	1.03	0.98	0.98	0.98	0.96
1	1.08	1.06	1.04	1.06	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.95	0.95	0.94	0.92
2	1.03	0.99	0.97	1.01	0.98	0.96	0.98	0.96	0.94	0.95	0.93	0.92	0.93	0.91	0.90	0.88
3	0.98	0.94	0.91	0.96	0.93	0.90	0.94	0.91	0.89	0.92	0.89	0.87	0.90	0.88	0.86	0.85
4	0.93	0.89	0.86	0.92	0.88	0.86	0.90	0.87	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.81
5	0.90	0.85	0.82	0.89	0.85	0.82	0.87	0.84	0.81	0.86	0.83	0.80	0.84	0.82	0.80	0.78
6	0.86	0.82	0.79	0.85	0.81	0.78	0.84	0.80	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.76
7	0.83	0.79	0.76	0.82	0.78	0.75	0.81	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.73
8	0.80	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.72	0.71
9	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.69
10	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.67



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	16164.56	13356.68	6237.89	2829.90	1213.44	976.70	872.09	575.34	302.81
45.0	15944.33	14551.41	6893.06	2835.40	1278.41	990.46	888.61	641.41	303.91
90.0	16197.59	10771.23	5086.11	1879.07	1088.74	956.55	846.71	513.68	66.73
135.0	16170.06	12729.04	5252.38	2325.03	1185.36	974.50	878.15	508.72	71.19
180.0	16164.56	10257.01	3737.23	1686.93	1090.50	935.63	818.91	348.51	30.01
225.0	15944.33	9401.98	3156.93	1539.38	1064.24	918.51	793.64	277.59	28.63
270.0	16197.59	11589.37	4580.69	1819.06	1114.34	935.96	853.37	444.31	47.46
315.0	16170.06	10913.28	4476.09	1731.52	1096.23	940.31	832.67	405.33	45.15
360.0	16164.56	13356.68	6237.89	2829.90	1213.44	976.70	872.09	575.34	302.81
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	20.04	11.84	11.07	10.52	10.19	10.02	9.86	9.86	9.69
45.0	21.69	11.73	10.96	10.41	10.08	9.97	9.74	9.63	9.58
90.0	15.86	11.51	10.85	10.41	10.19	9.80	9.69	9.63	9.63
135.0	18.06	11.78	11.01	10.57	10.19	10.02	9.86	9.80	9.74
180.0	12.99	11.62	10.96	10.52	10.19	9.97	9.80	9.69	9.69
225.0	12.83	11.18	10.74	10.46	11.56	9.91	9.74	9.63	9.63
270.0	13.49	11.34	10.74	10.46	10.41	10.46	11.23	11.07	10.19
315.0	13.98	11.40	10.74	10.35	10.08	9.91	9.80	9.69	9.63
360.0	20.04	11.84	11.07	10.52	10.19	10.02	9.86	9.86	9.69
C/ $\gamma$ (°)	90.0								
0.0	9.58								
45.0	9.52								
90.0	9.47								
135.0	9.52								
180.0	9.52								
225.0	9.47								
270.0	9.47								
315.0	9.47								
360.0	9.58								