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Nata

LumCAT: 4-2267-M	
Luminaire: 92.70.131.00	
Report No: GC20170617	Voltage(V): 34.6000
Test No: NT-0010	Current(A): 0.5000
LampCAT: BRIDGELUX V13B	Power (W): 17.3000
Lamp flux(lm): 2498.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 100	Width(mm): 100
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2290.21
Efficiency(%): 91.68%
Lumens(lm)/Power(W): 132.38
Central intensity(cd): 5609.972
Maximum intensity(cd): 5609.972
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=32.4
 [C90/270]Total=32.4
Field angle(10%Imax): [C0/180]Total=68.5
 [C90/270]Total=68.5
Maximum s/h(1/2): C0_180=0.53 C90_270=0.53
Maximum s/h(1/4): C0_180=0.57 C90_270=0.57
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.68%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.738%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/6/17
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

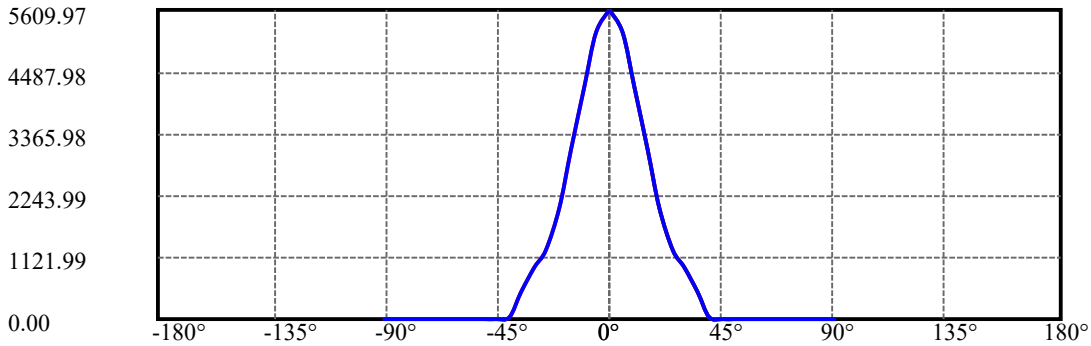
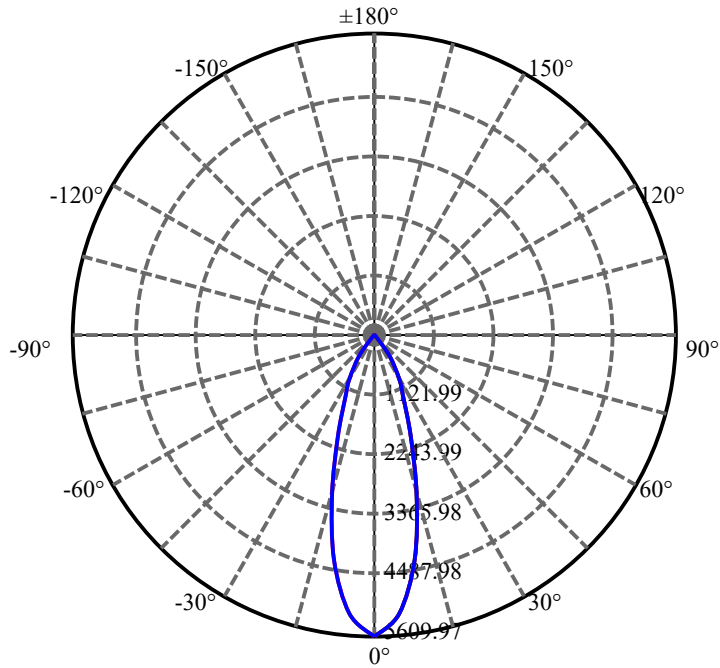
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5609.972	0.000	0	.000%	.000%
5.0	5196.636	129.190	129.19	5.172%	5.641%
10.0	4230.327	337.232	466.422	13.500%	20.366%
15.0	3057.901	432.333	898.755	17.307%	39.243%
20.0	2020.019	418.492	1317.247	16.753%	57.516%
25.0	1244.791	342.418	1659.665	13.708%	72.468%
30.0	941.788	276.713	1936.379	11.077%	84.550%
35.0	496.244	211.760	2148.139	8.477%	93.797%
40.0	42.318	89.855	2237.994	3.597%	97.720%
45.0	11.858	10.031	2248.025	.402%	98.158%
50.0	10.433	4.504	2252.529	.180%	98.355%
55.0	9.711	4.380	2256.909	.175%	98.546%
60.0	9.353	4.406	2261.315	.176%	98.738%
65.0	9.201	4.511	2265.826	.181%	98.935%
70.0	9.181	4.654	2270.48	.186%	99.138%
75.0	9.167	4.796	2275.276	.192%	99.348%
80.0	9.167	4.906	2280.182	.196%	99.562%
85.0	9.167	4.982	2285.163	.199%	99.780%
90.0	9.270	5.048	2290.212	.202%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1936.38	77.52%	84.55%
0-40	2237.99	89.59%	97.72%
0-60	2261.32	90.53%	98.74%
0-90	2285.16	91.48%	99.78%
0-120	2285.16	91.48%	99.78%
0-180	2290.21	91.68%	100.00%
60-90	28.25	1.13%	1.23%
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%
0-28.12	1832.17	73.35%	80.00%

ZONAL LUMEN SUMMARY

0-10	466.42
10-20	850.82
20-30	619.13
30-40	301.62
40-50	14.54
50-60	8.79
60-70	9.16
70-80	9.70
80-90	4.98
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: ———

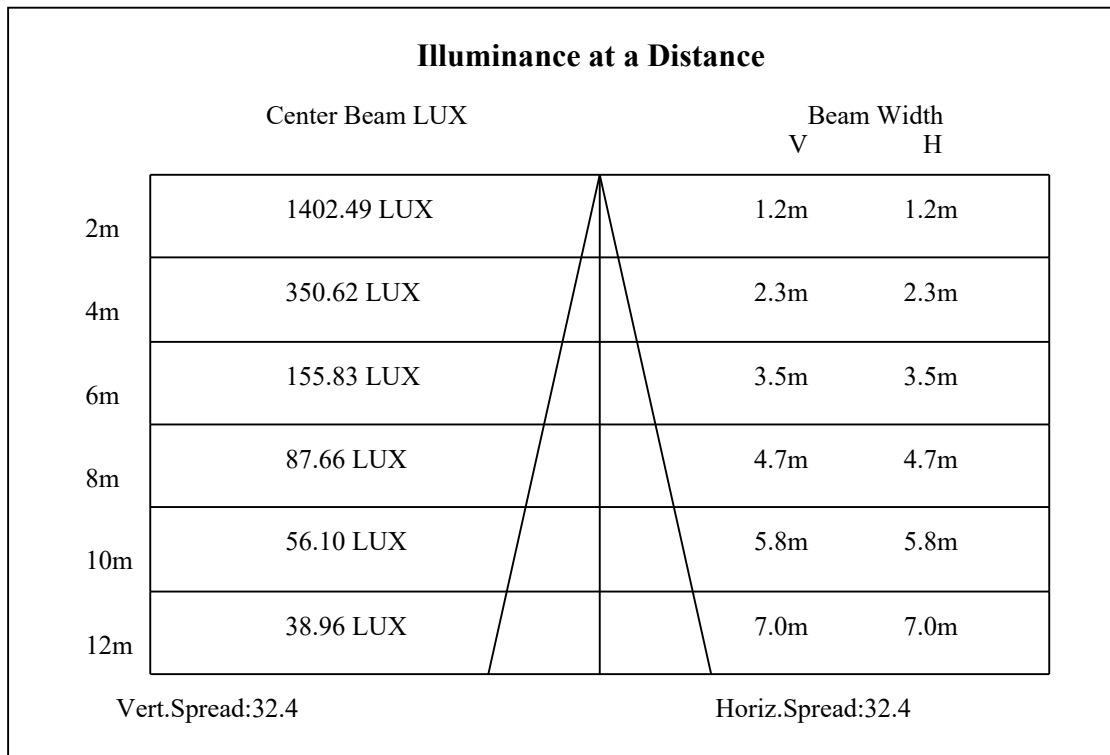
C90/C270: ———

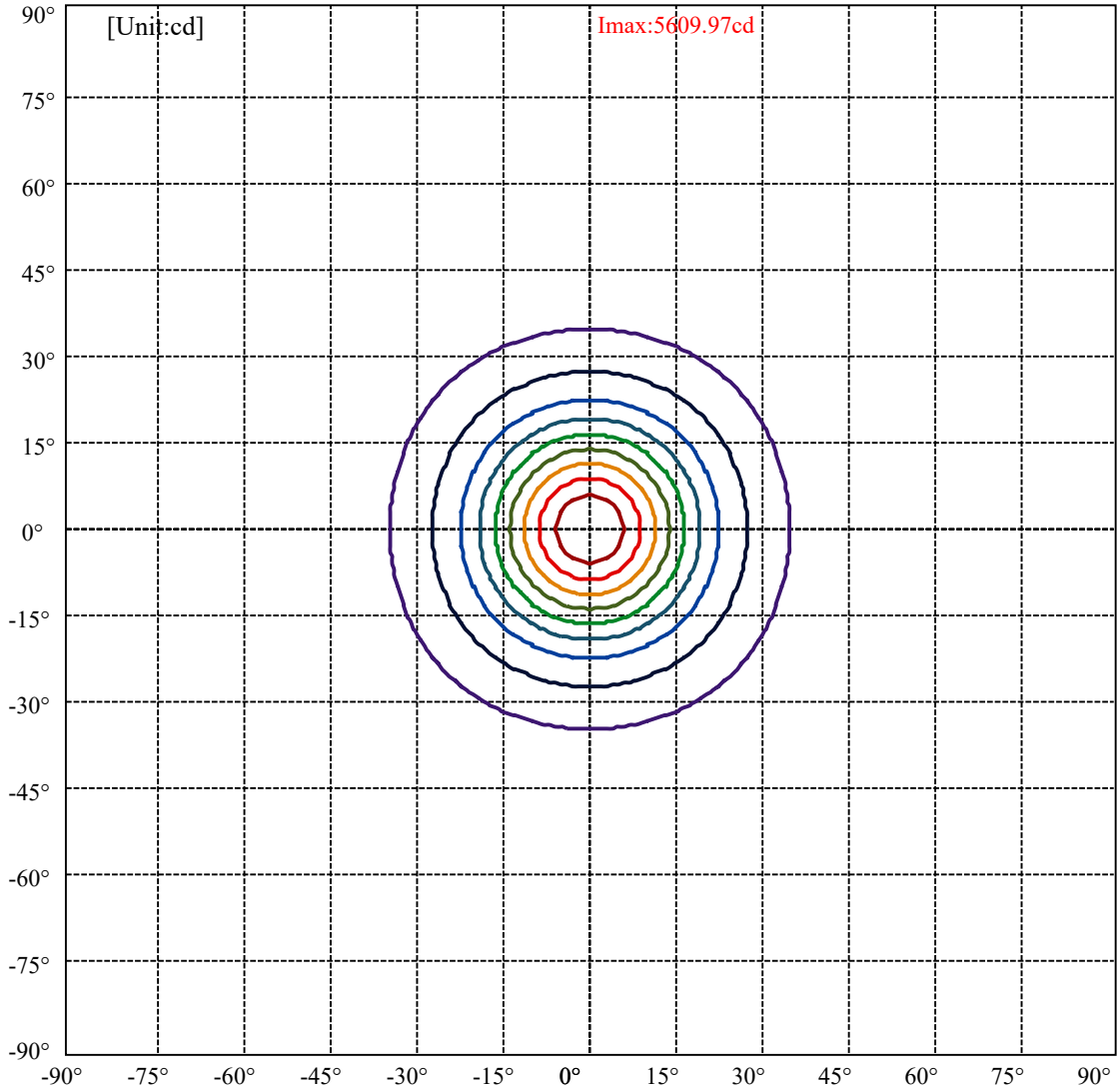
Field angle(10%Imax):C0/180Left:34.3 Right:34.3

:C90/270Left:34.3 Right:34.3

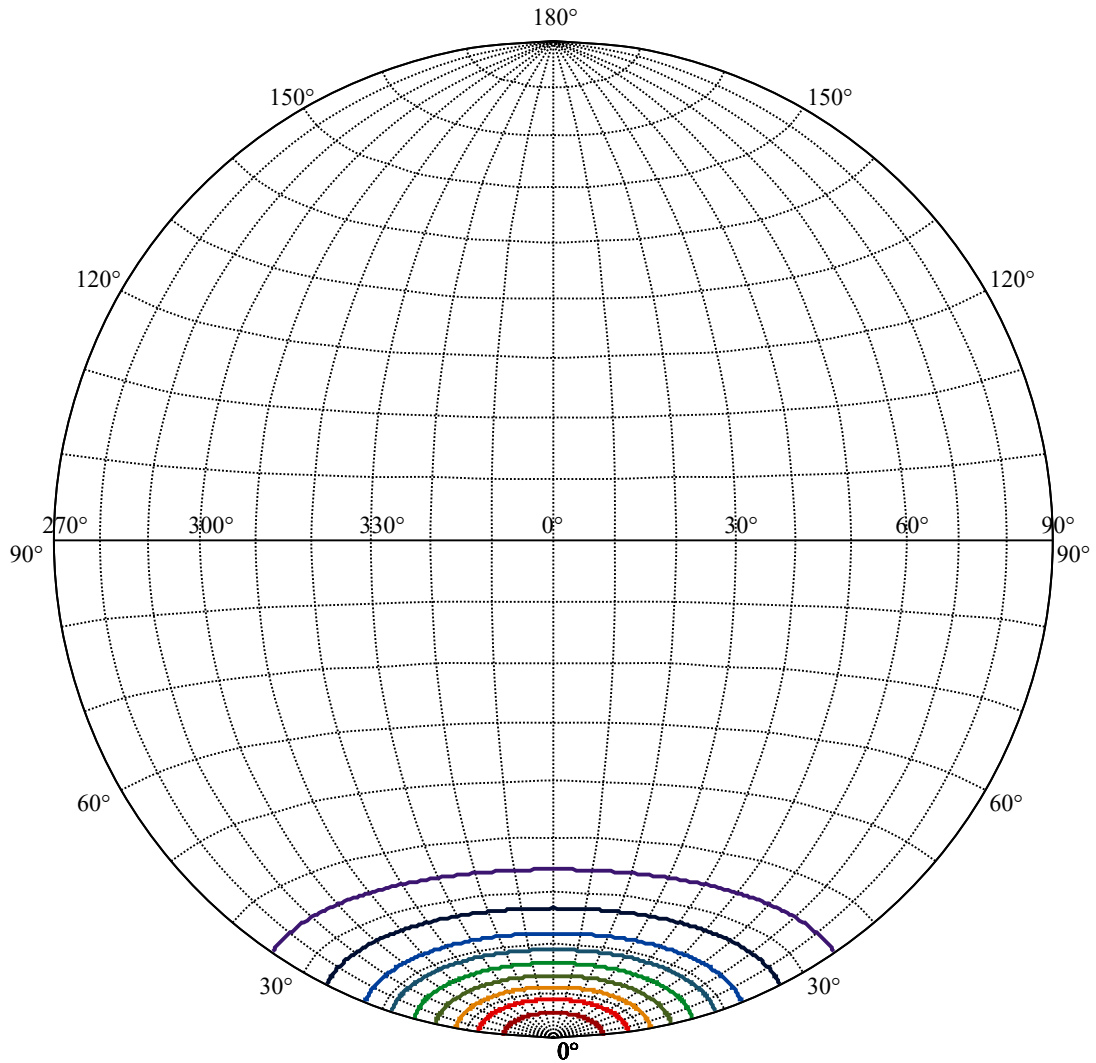
Beam Angle(50%Imax):C0/180Left:16.2 Right:16.2

:C90/270Left:16.2 Right:16.2





(10%Imax)	560.997	—
(20%Imax)	1121.99	—
(30%Imax)	1682.99	—
(40%Imax)	2243.99	—
(50%Imax)	2804.99	—
(60%Imax)	3365.98	—
(70%Imax)	3926.98	—
(80%Imax)	4487.98	—
(90%Imax)	5048.98	—



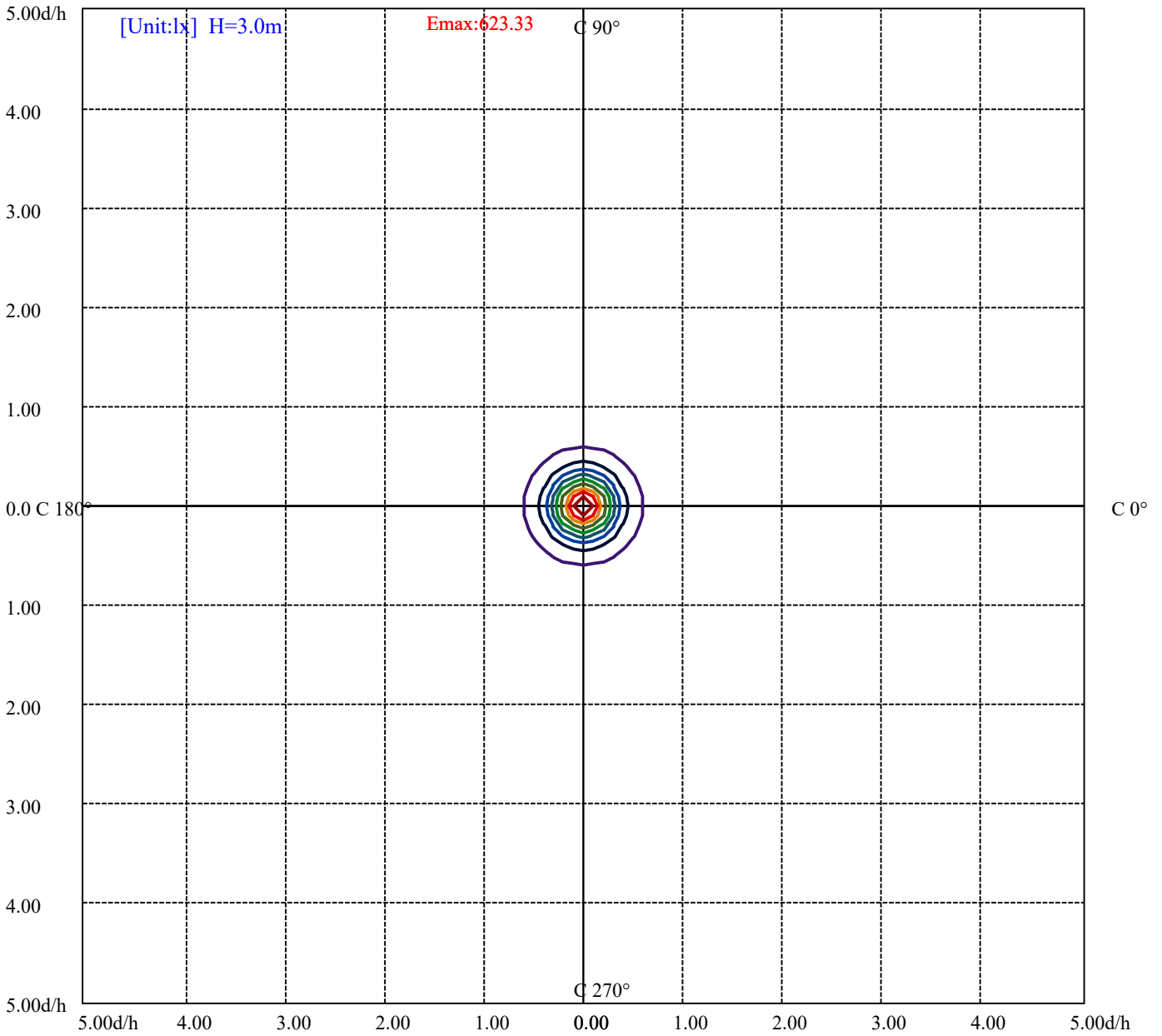
House

[Unit:cd]

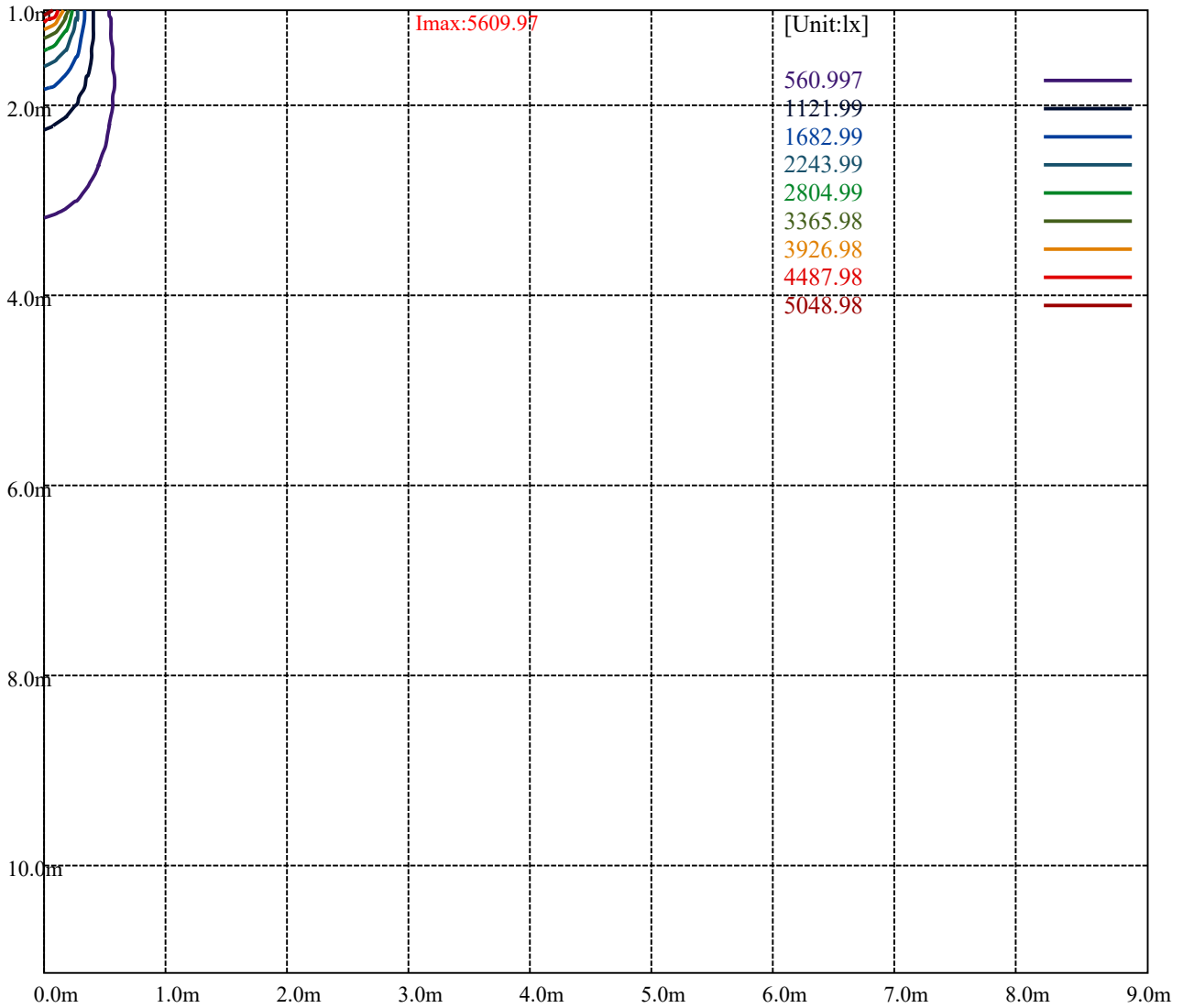
Road

Imax:5609.97

(10%Imax)	560.997	—
(20%Imax)	1121.99	—
(30%Imax)	1682.99	—
(40%Imax)	2243.99	—
(50%Imax)	2804.99	—
(60%Imax)	3365.98	—
(70%Imax)	3926.98	—
(80%Imax)	4487.98	—
(90%Imax)	5048.98	—



(10%Emax) 62.33289	—
(20%Emax) 124.6656	—
(30%Emax) 186.9989	—
(40%Emax) 249.3311	—
(50%Emax) 311.6644	—
(60%Emax) 373.9978	—
(70%Emax) 436.33	—
(80%Emax) 498.6634	—
(90%Emax) 560.9955	—



Luminance Table

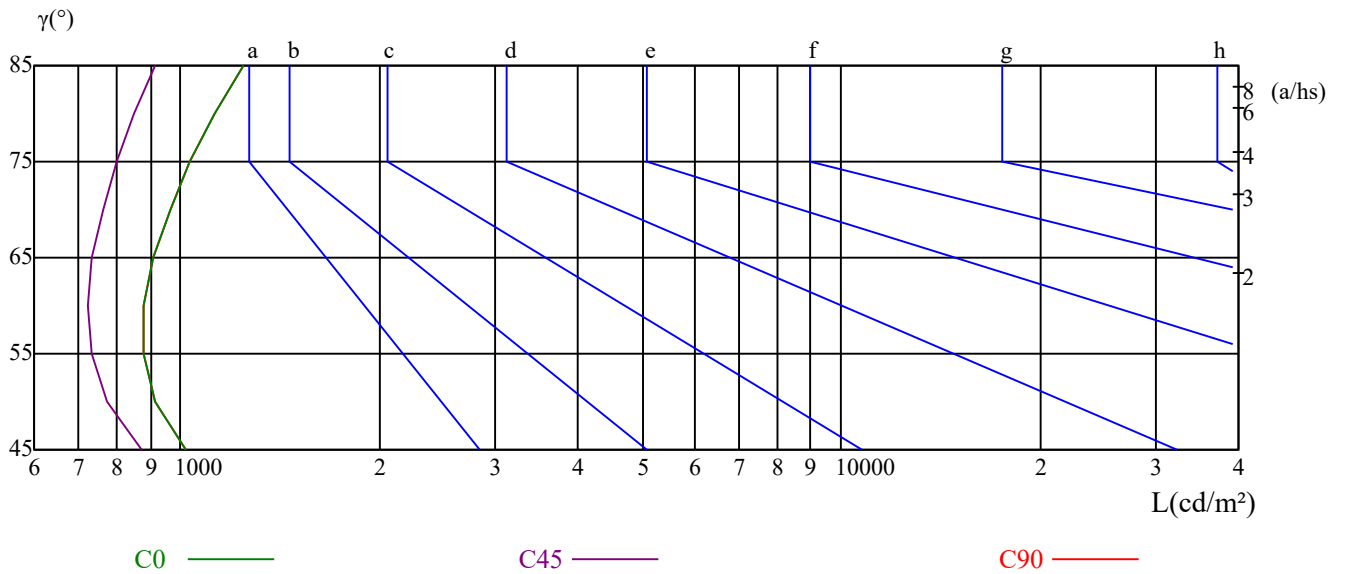
γ	45	50	55	60	65	70	75	80	85
C0	1016	915	878	880	909	964	1034	1126	1248
C45	874	775	732	722	733	761	799	850	914
C90	1016	915	878	880	909	964	1034	1126	1248

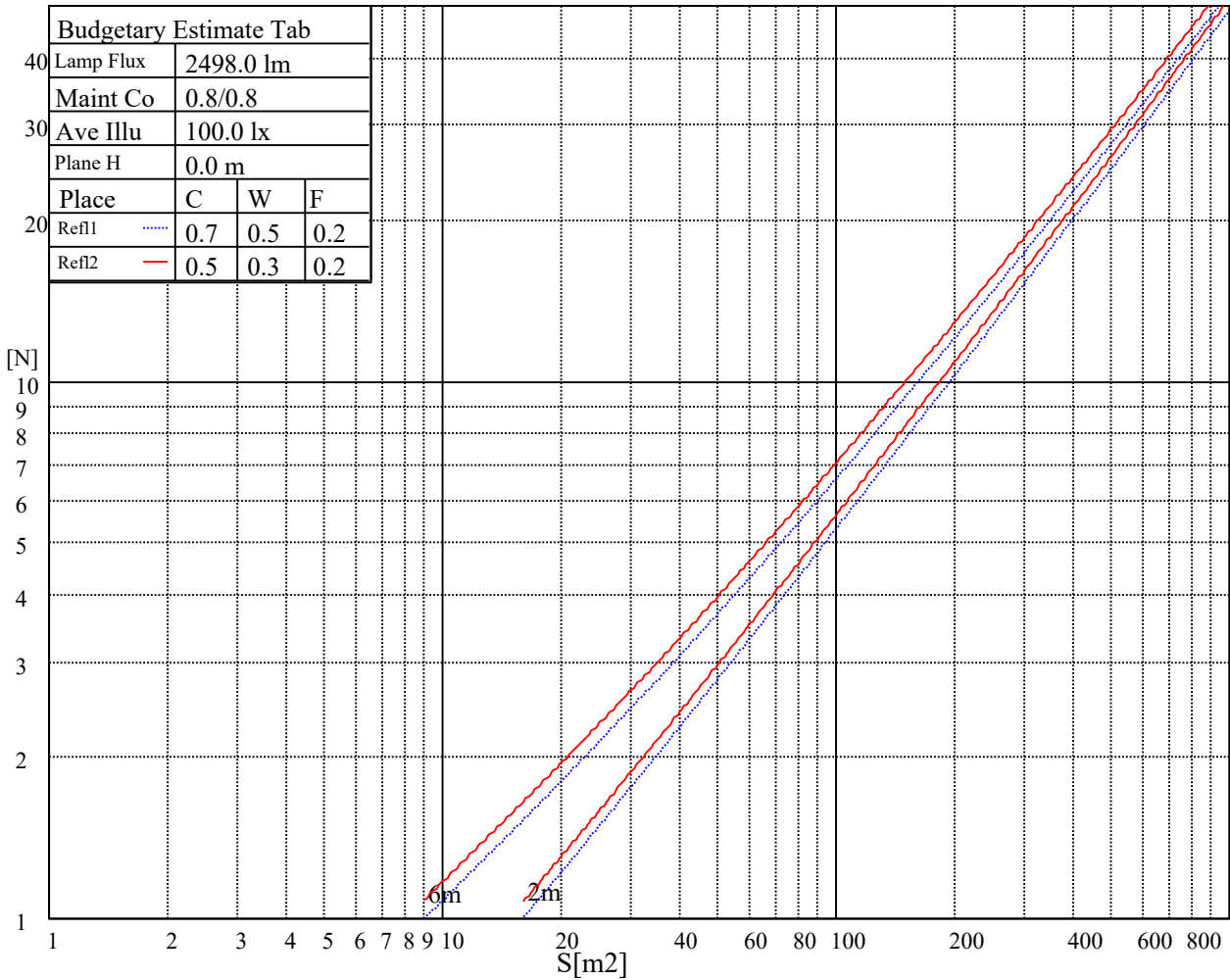
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2177	2177	2177	3542	3542	3542	10518	10518	10518

Glare Table

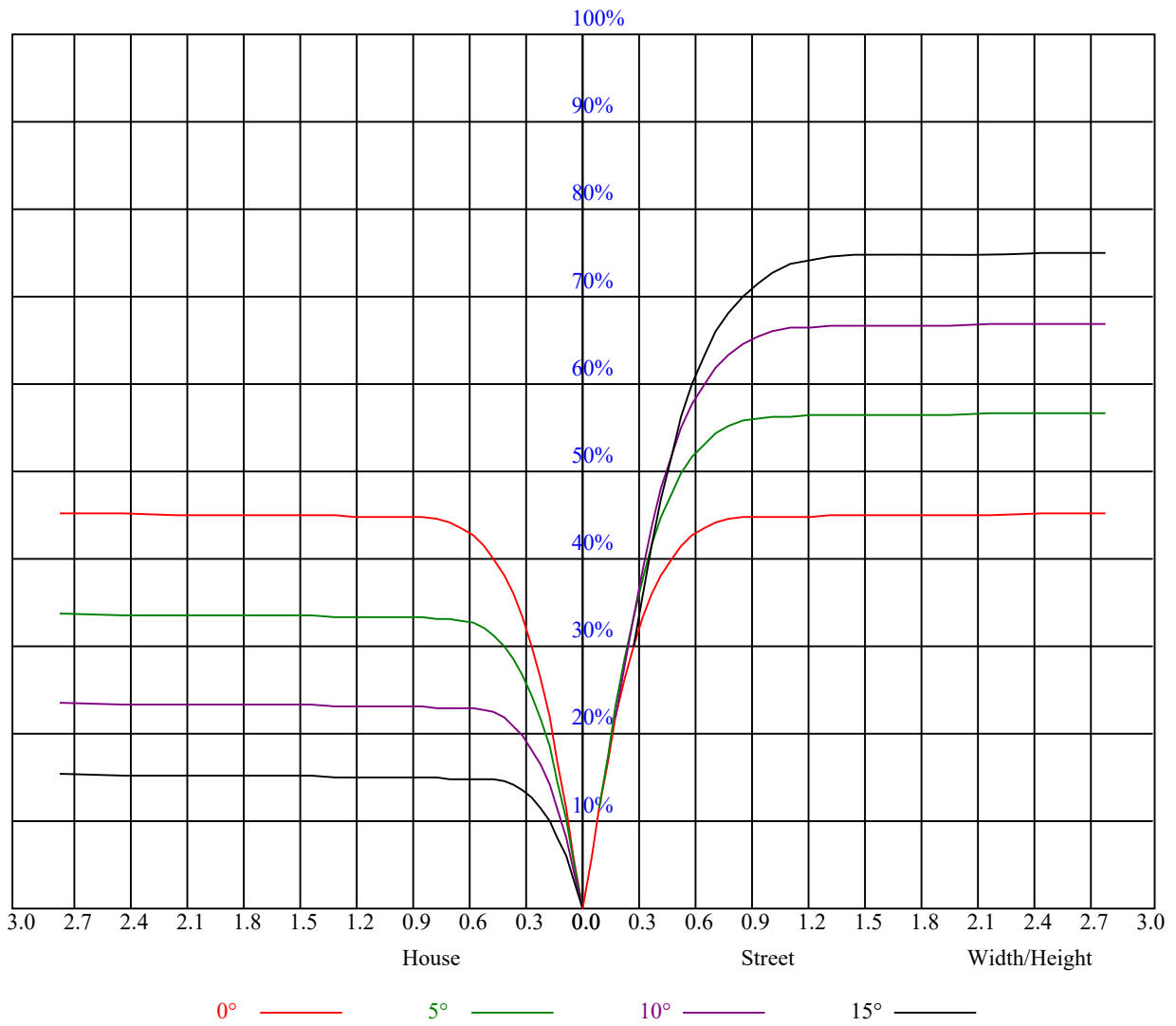
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.09	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	1.02	1.00	0.98	1.00	0.98	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.84	0.82
3	0.91	0.87	0.84	0.90	0.86	0.83	0.87	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	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
6	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.67
7	0.74	0.70	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.64
8	0.71	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.61
9	0.68	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.59
10	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.64	0.60	0.57	0.63	0.60	0.57	0.56



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	5612.45	5206.68	4265.22	3070.50	2066.82	1303.18	948.07	522.49	29.73
45.0	5617.40	5160.99	4169.42	2985.16	1993.04	1264.09	934.86	482.29	26.26
90.0	5602.54	5008.48	4027.38	2843.11	1838.88	1091.22	895.44	381.60	24.00
135.0	5607.49	5236.41	4351.66	3161.34	2088.84	1348.33	977.80	541.20	46.41
180.0	5612.45	5207.78	4188.69	2989.01	1989.74	1194.17	922.64	487.25	26.92
225.0	5617.40	5280.46	4308.16	3093.07	2076.18	1304.29	943.28	525.79	31.38
270.0	5602.54	5323.40	4425.43	3297.33	2189.04	1354.94	994.87	596.81	129.88
315.0	5607.49	5148.87	4106.66	3023.70	1917.61	1098.10	917.35	432.52	23.95
360.0	5612.45	5206.68	4265.22	3070.50	2066.82	1303.18	948.07	522.49	29.73

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	12.00	10.46	9.74	9.30	9.19	9.14	9.14	9.14	9.14
45.0	11.40	10.41	9.63	9.41	9.25	9.25	9.19	9.25	9.25
90.0	11.18	10.19	9.63	9.30	9.19	9.19	9.19	9.14	9.14
135.0	12.72	10.52	9.86	9.36	9.25	9.14	9.19	9.14	9.14
180.0	11.45	10.41	9.63	9.30	9.14	9.19	9.14	9.14	9.14
225.0	11.78	10.41	9.63	9.36	9.19	9.19	9.14	9.19	9.19
270.0	12.44	10.68	9.86	9.47	9.25	9.14	9.14	9.14	9.14
315.0	11.89	10.41	9.69	9.30	9.14	9.19	9.19	9.19	9.19
360.0	12.00	10.46	9.74	9.30	9.19	9.14	9.14	9.14	9.14

C/γ(°)	90.0
0.0	9.52
45.0	9.14
90.0	9.14
135.0	9.14
180.0	9.14
225.0	9.30
270.0	9.19
315.0	9.58
360.0	9.52