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LumCAT: 3-2328-M  
Luminaire: 92.70.135.00  
Report No: Voltage(V): 34.6300  
Test No: GC2019051511 Current(A): 0.4000  
LampCAT: LUMILEDS LUXEON 1205 Power (W): 13.8520  
Lamp flux(lm): 1661.0 PF: 0.0000  
Number of Lamps: 1 Ballast type: DC  
Length(mm): 78 Width(mm): 78  
Phm Type: C Height(mm): 0

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### Photometric Results

Lumens(lm): 1436.00  
Efficiency(%): 86.45%  
Lumens(lm)/Power(W): 103.67  
Central intensity(cd): 1777.078  
Maximum intensity(cd): 1777.078  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=57.3  
                                  [C90/270]Total=57.3  
Field angle(10%Imax): [C0/180]Total=77.3  
                                  [C90/270]Total=77.3  
Maximum s/h(1/2): C0\_180=0.90 C90\_270=0.90  
Maximum s/h(1/4): C0\_180=0.86 C90\_270=0.86  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 86.45%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.857%

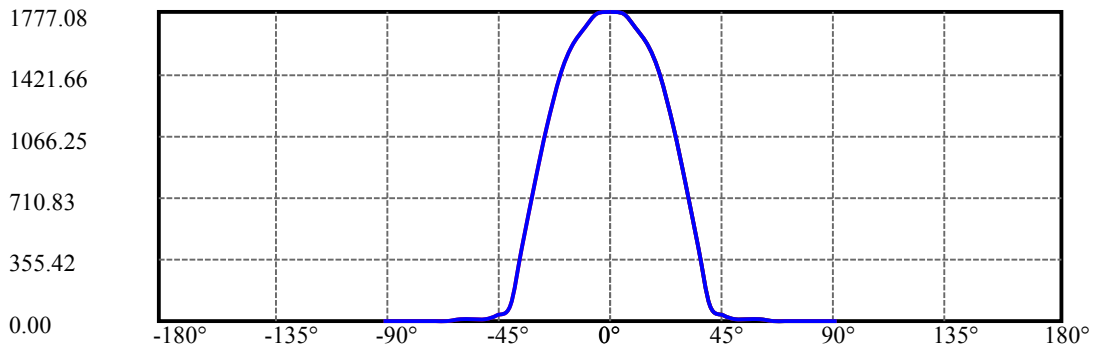
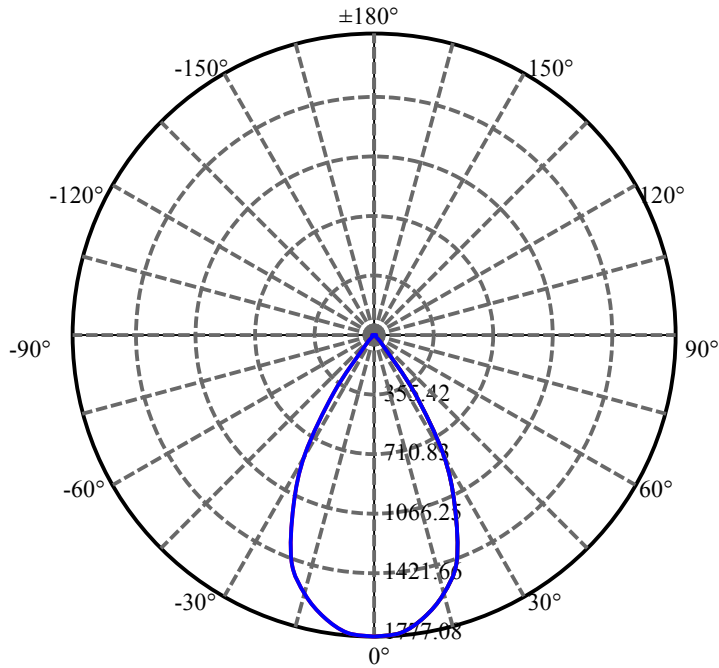
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1777.078	0.000	0	.000%	.000%
5.0	1761.609	42.304	42.304	2.547%	2.946%
10.0	1693.477	123.599	165.903	7.441%	11.553%
15.0	1576.195	193.955	359.858	11.677%	25.060%
20.0	1416.305	246.624	606.482	14.848%	42.234%
25.0	1115.156	265.504	871.986	15.985%	60.723%
30.0	805.247	243.029	1115.014	14.631%	77.647%
35.0	419.709	180.383	1295.398	10.860%	90.208%
40.0	87.483	84.621	1380.019	5.095%	96.101%
45.0	29.116	21.589	1401.608	1.300%	97.605%
50.0	15.483	9.012	1410.62	.543%	98.232%
55.0	9.204	5.368	1415.988	.323%	98.606%
60.0	6.356	3.597	1419.584	.217%	98.857%
65.0	5.238	2.819	1422.403	.170%	99.053%
70.0	5.140	2.628	1425.031	.158%	99.236%
75.0	5.112	2.680	1427.71	.161%	99.422%
80.0	5.105	2.734	1430.444	.165%	99.613%
85.0	5.098	2.772	1433.216	.167%	99.806%
90.0	5.084	2.788	1436.004	.168%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1115.01	67.13%	77.65%
0-40	1380.02	83.08%	96.10%
0-60	1419.58	85.47%	98.86%
0-90	1433.22	86.29%	99.81%
0-120	1433.22	86.29%	99.81%
0-180	1436.00	86.45%	100.00%
60-90	17.23	1.04%	1.20%
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%
0-30.94	1148.80	69.16%	80.00%

## ZONAL LUMEN SUMMARY

0-10	165.90
10-20	440.58
20-30	508.53
30-40	265.00
40-50	30.60
50-60	8.96
60-70	5.45
70-80	5.41
80-90	2.77
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: —————

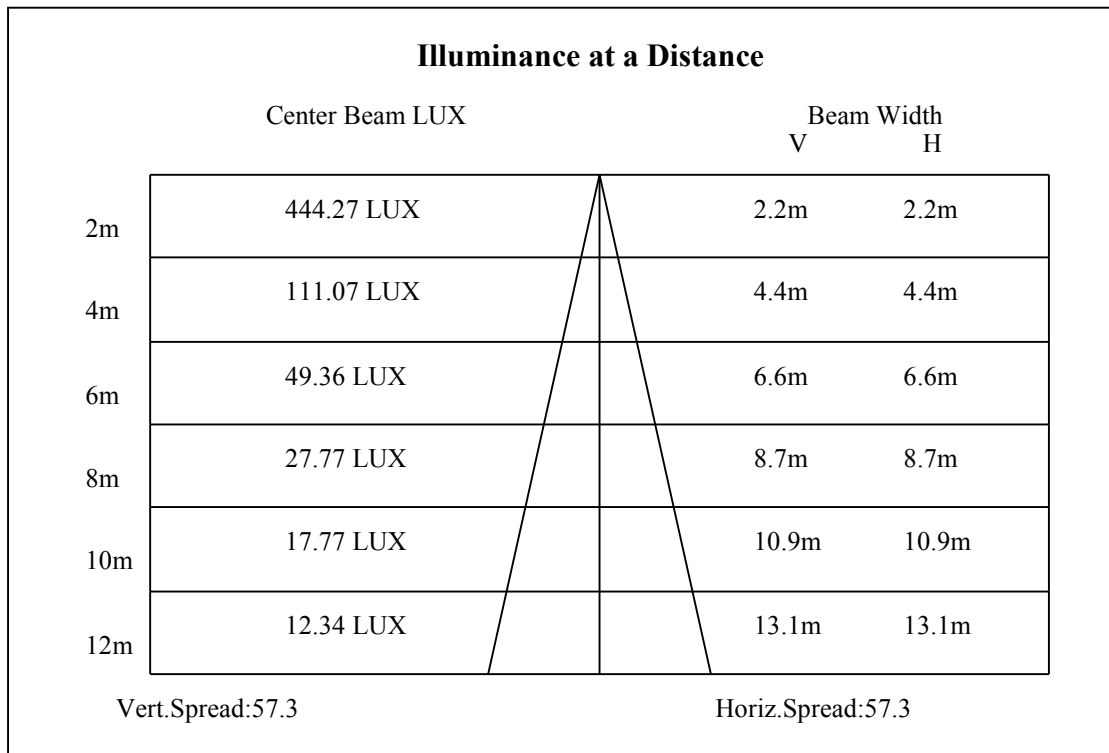
C90/C270: —————

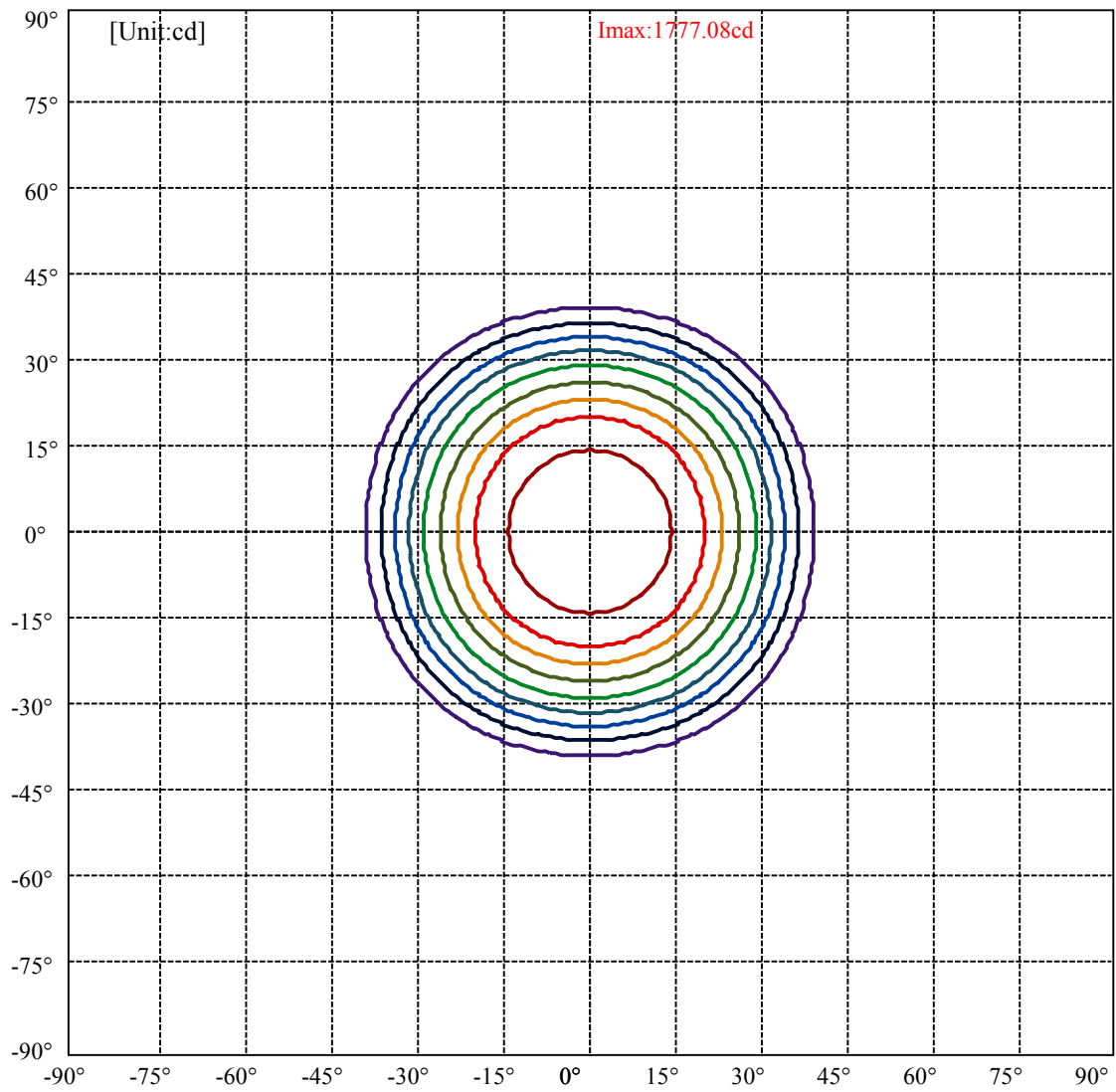
Field angle(10%Imax):C0/180Left:38.6 Right:38.6

:C90/270Left:38.6 Right:38.6

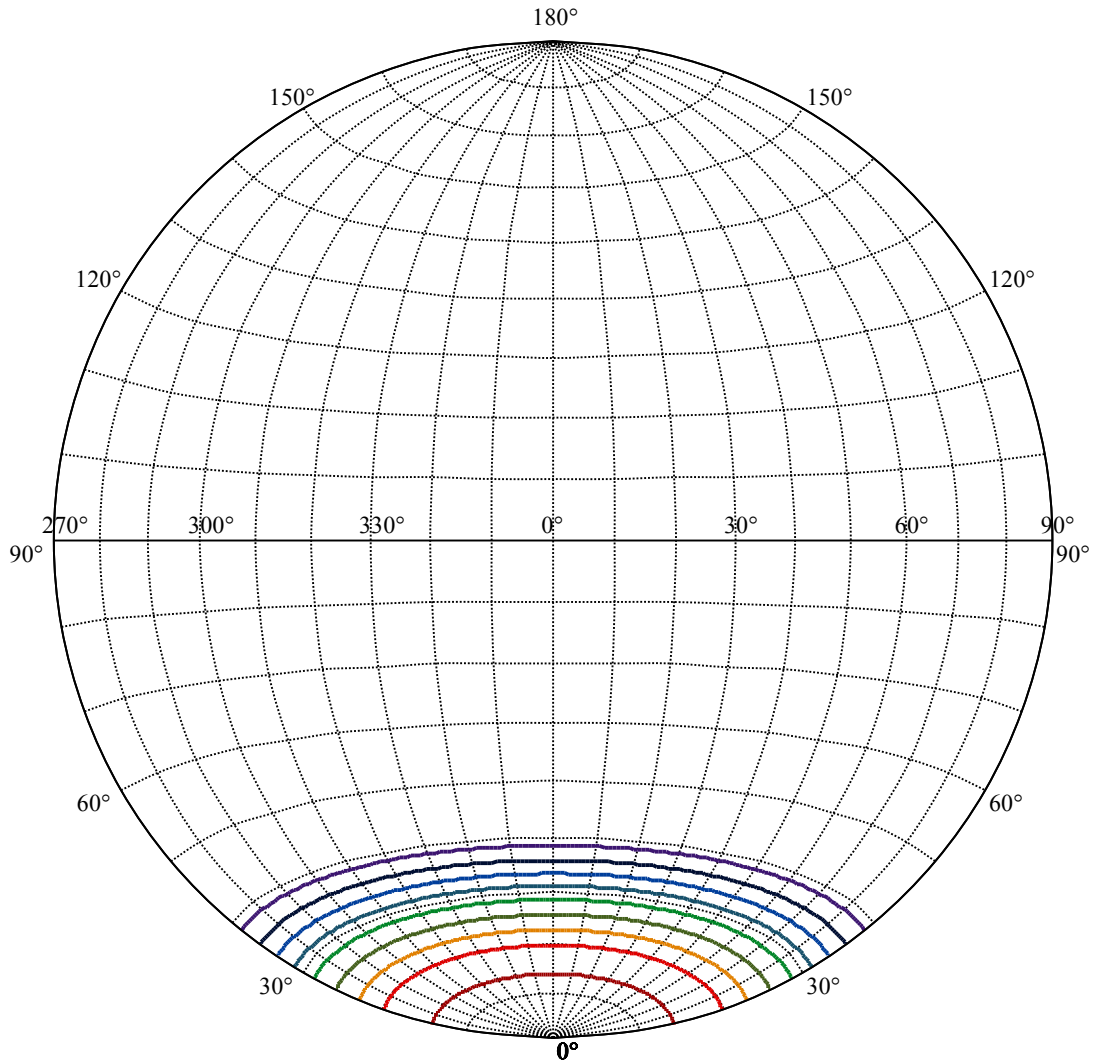
Beam Angle(50%Imax):C0/180Left:28.7 Right:28.7

:C90/270Left:28.7 Right:28.7





(10%Imax) 177.708	—
(20%Imax) 355.416	—
(30%Imax) 533.123	—
(40%Imax) 710.831	—
(50%Imax) 888.539	—
(60%Imax) 1066.25	—
(70%Imax) 1243.95	—
(80%Imax) 1421.66	—
(90%Imax) 1599.37	—



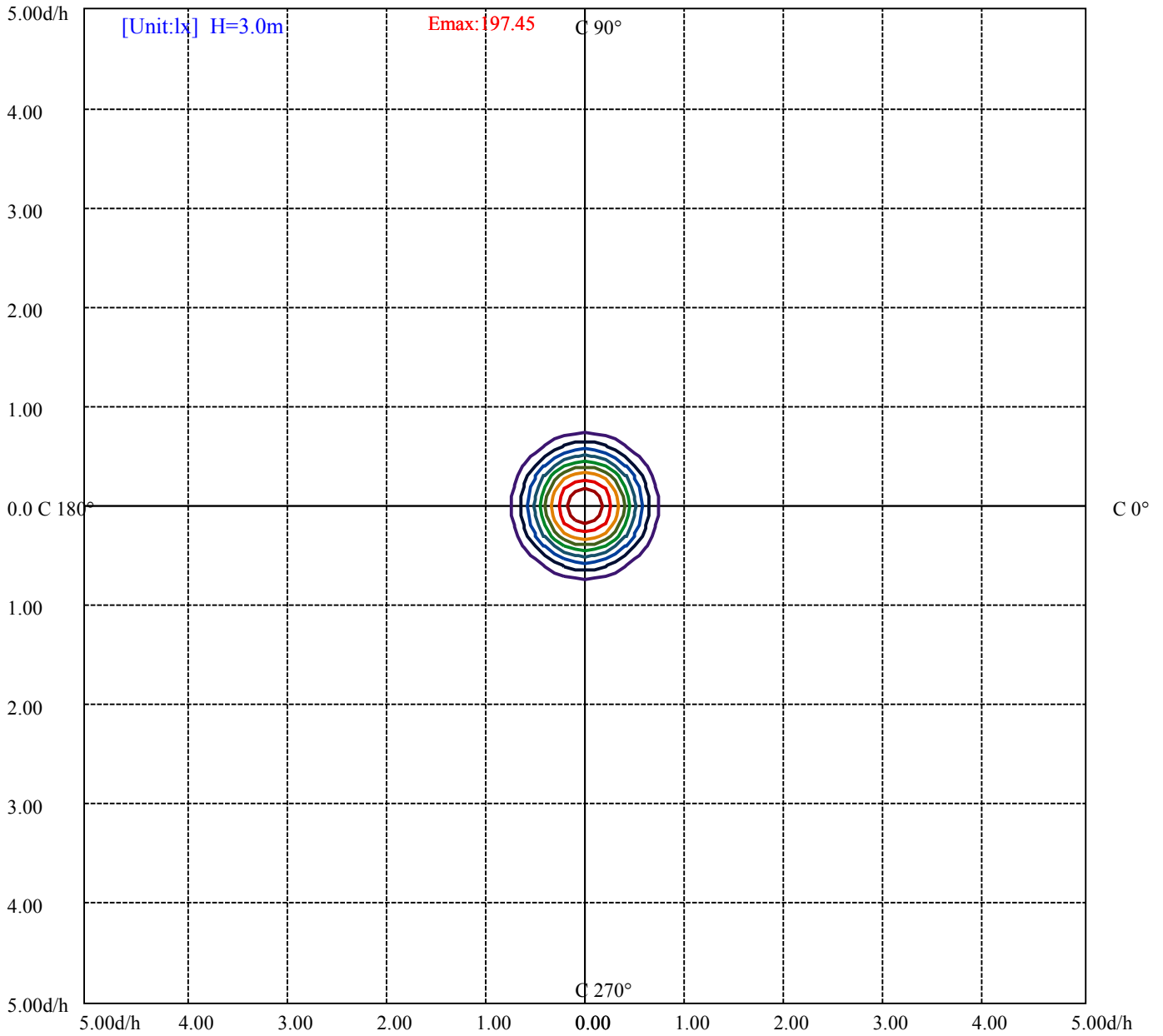
House

[Unit:cd]

Road

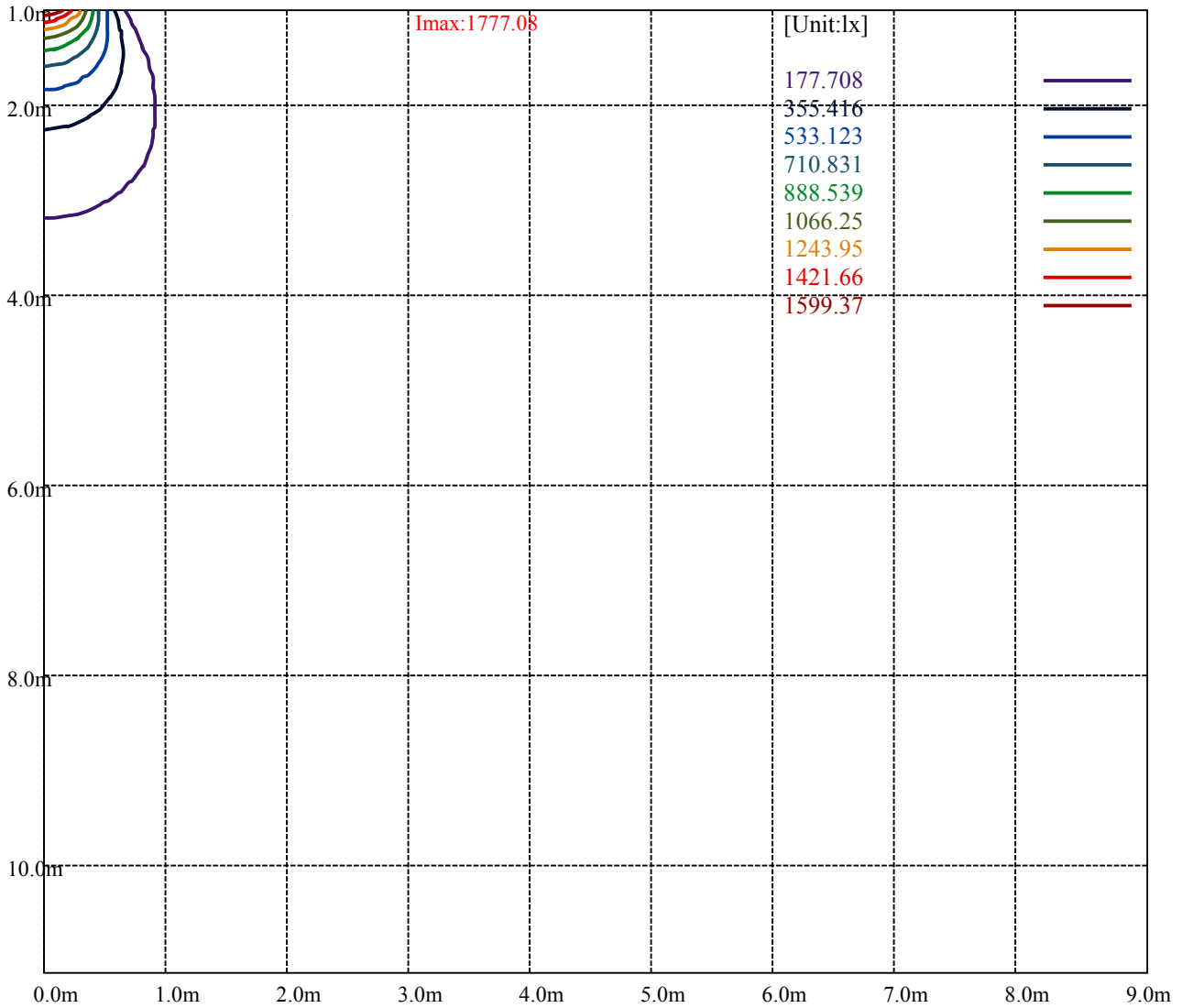
I<sub>max</sub>:1777.08

(10%I <sub>max</sub> )	177.708	—
(20%I <sub>max</sub> )	355.416	—
(30%I <sub>max</sub> )	533.123	—
(40%I <sub>max</sub> )	710.831	—
(50%I <sub>max</sub> )	888.539	—
(60%I <sub>max</sub> )	1066.25	—
(70%I <sub>max</sub> )	1243.95	—
(80%I <sub>max</sub> )	1421.66	—
(90%I <sub>max</sub> )	1599.37	—



- (10%Emax) 19.74533 ————
- (20%Emax) 39.49067 ————
- (30%Emax) 59.23589 ————
- (40%Emax) 78.98122 ————
- (50%Emax) 98.72655 ————
- (60%Emax) 118.4722 ————
- (70%Emax) 138.2167 ————
- (80%Emax) 157.9622 ————
- (90%Emax) 177.7078 ————





Luminance Table

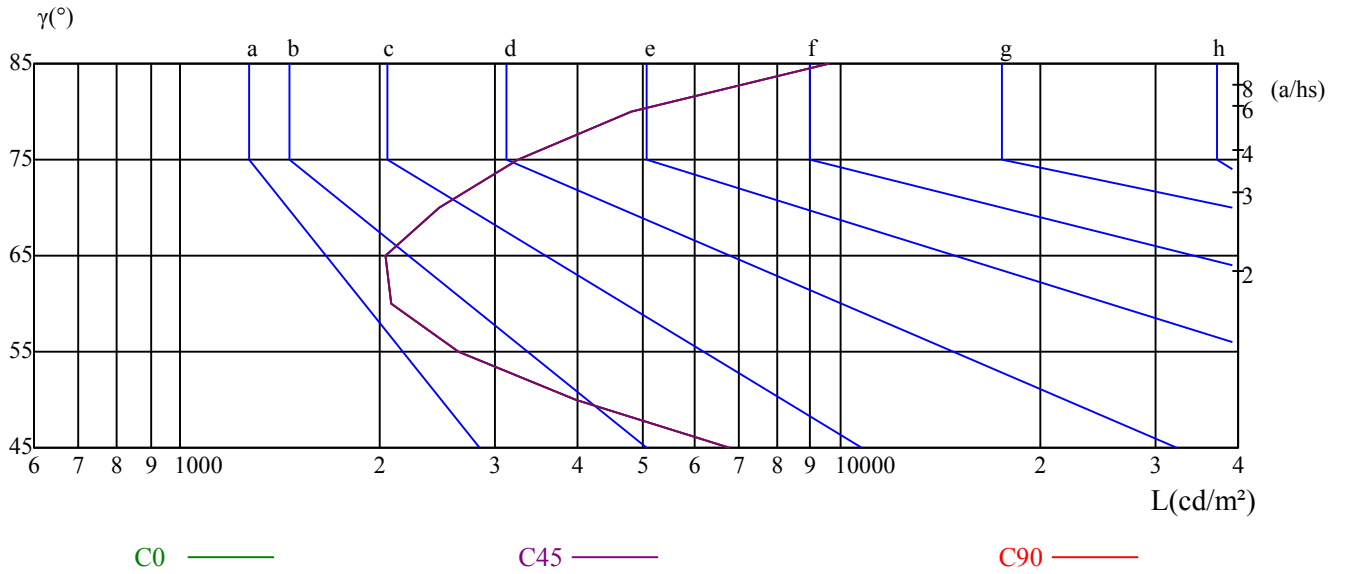
$\gamma$	45	50	55	60	65	70	75	80	85
C0	6768	3959	2637	2089	2037	2470	3246	4832	9614
C45	6768	3959	2637	2089	2037	2470	3246	4832	9614
C90	6768	3959	2637	2089	2037	2470	3246	4832	9614

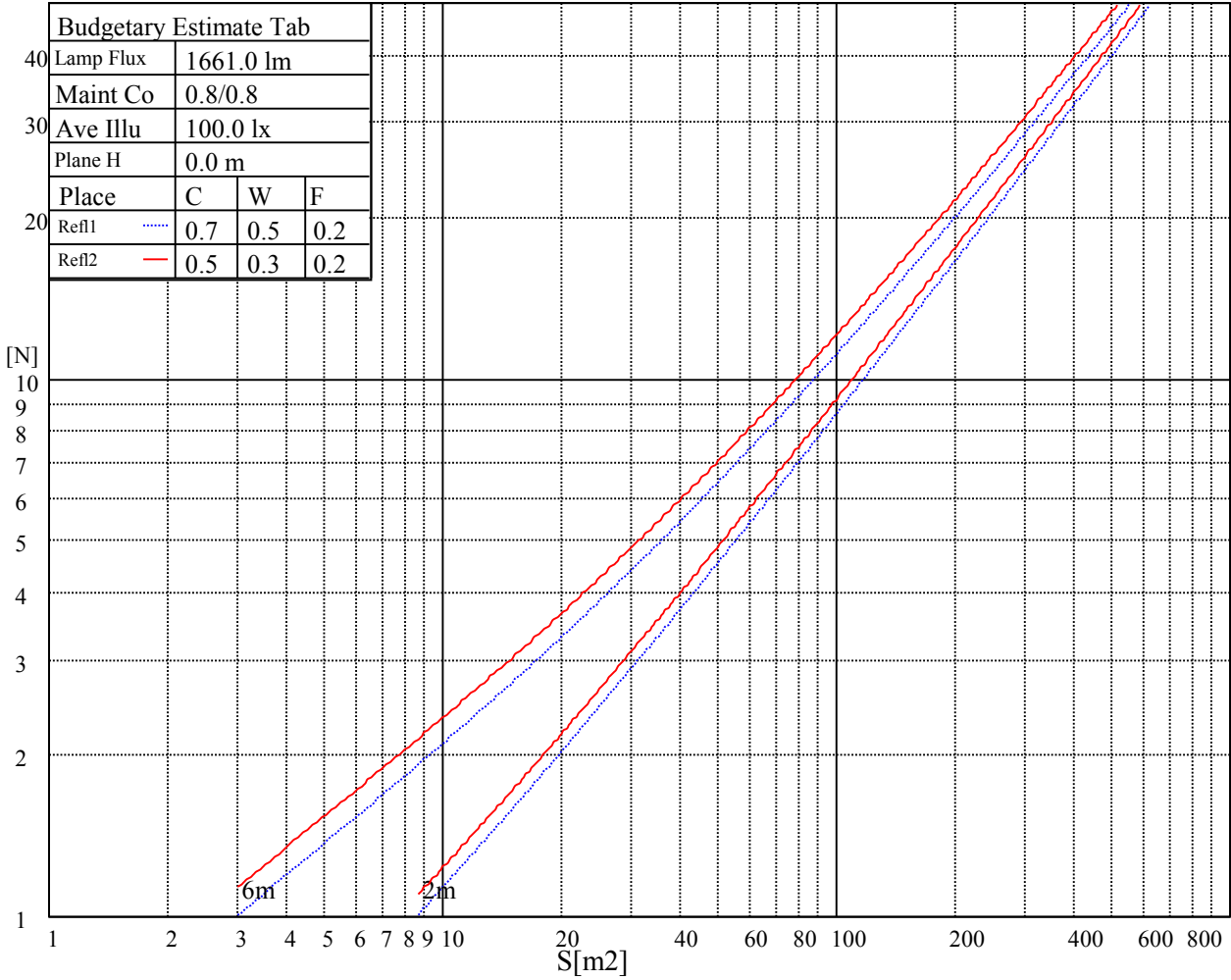
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2037	2037	2037	3246	3246	3246	9614	9614	9614

Glare Table

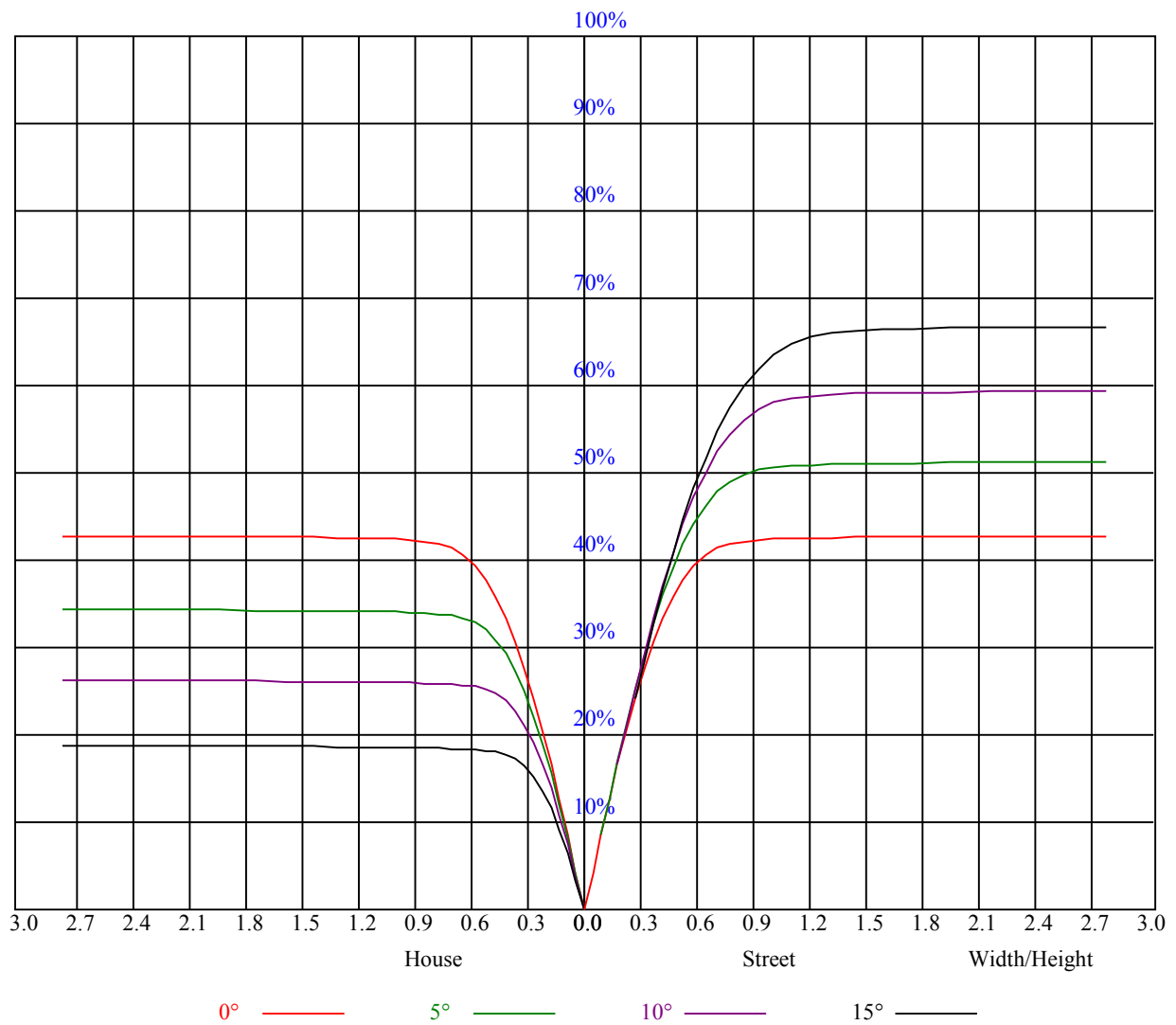
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.03	1.03	1.03	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.86
1	0.96	0.94	0.92	0.94	0.92	0.90	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81
2	0.89	0.86	0.83	0.88	0.85	0.82	0.85	0.83	0.80	0.83	0.81	0.79	0.80	0.79	0.77	0.76
3	0.84	0.80	0.76	0.83	0.79	0.76	0.80	0.77	0.74	0.78	0.76	0.73	0.76	0.74	0.72	0.71
4	0.79	0.74	0.71	0.78	0.73	0.70	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.66
5	0.74	0.69	0.66	0.73	0.69	0.65	0.72	0.68	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.62
6	0.70	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.65	0.62	0.60	0.59
7	0.66	0.61	0.57	0.65	0.61	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.55
8	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.53	0.59	0.56	0.53	0.52
9	0.59	0.54	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.57	0.53	0.50	0.56	0.53	0.50	0.49
10	0.56	0.51	0.48	0.56	0.51	0.48	0.55	0.51	0.48	0.54	0.50	0.48	0.54	0.50	0.47	0.46



## 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	1774.69	1761.19	1693.13	1570.50	1392.19	1090.13	767.25	342.56	56.14
45.0	1778.06	1770.19	1711.13	1590.19	1459.69	1169.44	838.13	475.88	88.09
90.0	1778.06	1765.69	1699.31	1577.25	1415.81	1114.76	779.85	415.01	73.74
135.0	1777.50	1773.00	1725.19	1615.50	1455.75	1187.44	892.13	536.06	189.79
180.0	1774.69	1757.81	1687.50	1581.19	1430.44	1090.58	863.04	493.37	107.78
225.0	1778.06	1750.50	1663.31	1545.75	1384.88	1085.29	755.44	369.73	61.88
270.0	1778.06	1758.94	1686.94	1573.31	1433.25	1137.38	810.56	431.44	68.29
315.0	1777.50	1755.56	1681.31	1555.88	1358.44	1046.25	735.58	293.63	54.17
360.0	1774.69	1761.19	1693.13	1570.50	1392.19	1090.13	767.25	342.56	56.14
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	23.79	13.39	8.49	5.96	5.18	5.12	5.12	5.06	5.06
45.0	27.79	14.85	9.17	6.41	5.23	5.18	5.12	5.18	5.12
90.0	28.29	14.96	9.06	6.24	5.23	5.18	5.12	5.12	5.12
135.0	40.67	20.03	11.03	7.26	5.40	5.12	5.12	5.06	5.12
180.0	37.35	18.56	10.35	6.92	5.29	5.12	5.12	5.06	5.06
225.0	25.37	14.23	8.55	6.02	5.18	5.12	5.12	5.12	5.12
270.0	26.27	14.63	8.83	6.19	5.23	5.18	5.12	5.12	5.12
315.0	23.40	13.22	8.16	5.85	5.18	5.12	5.06	5.12	5.06
360.0	23.79	13.39	8.49	5.96	5.18	5.12	5.12	5.06	5.06
C/ $\gamma$ (°)	90.0								
0.0	5.06								
45.0	5.12								
90.0	5.06								
135.0	5.12								
180.0	5.06								
225.0	5.06								
270.0	5.12								
315.0	5.06								
360.0	5.06								