
LumCAT: 1658-S	
Luminaire: 92.70.124.00	
Report No: NATA0100	Voltage(V): 34.8500
Test No: GC2019062815	Current(A): 0.2490
LampCAT: TRIDONIC SLE 9MM G7	Power (W): 8.6780
Lamp flux(lm): 1073.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 47	Width(mm): 47
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 927.51
Efficiency(%): 86.44%
Lumens(lm)/Power(W): 106.88
Central intensity(cd): 2202.188
Maximum intensity(cd): 2202.188
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=33.4
[C90/270]Total=33.4
Field angle(10%Imax): [C0/180]Total=65.9
[C90/270]Total=65.9
Maximum s/h(1/2): C0_180=0.53 C90_270=0.53
Maximum s/h(1/4): C0_180=0.60 C90_270=0.60
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 86.44%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.431%

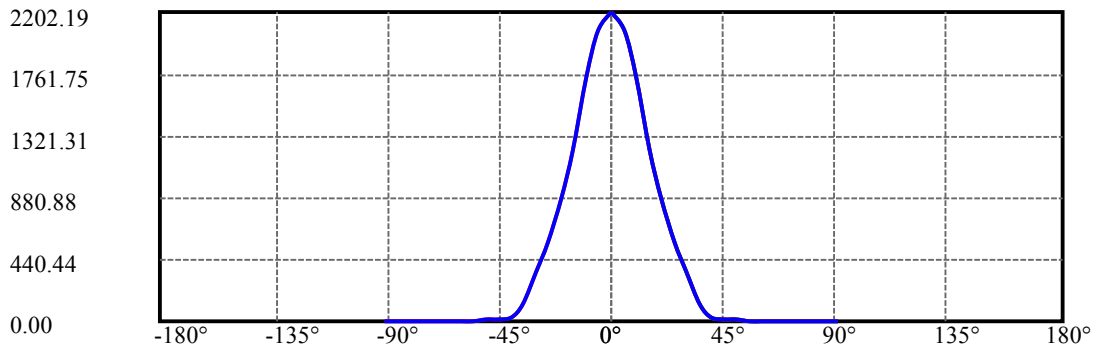
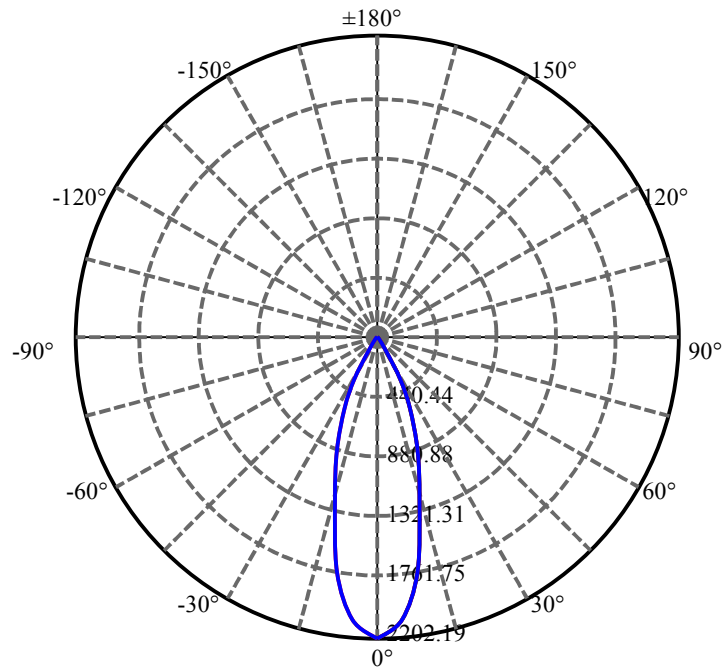
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2202.188	0.000	0	.000%	.000%
5.0	2068.031	51.049	51.049	4.758%	5.504%
10.0	1732.078	135.942	186.991	12.669%	20.160%
15.0	1216.104	174.884	361.875	16.299%	39.016%
20.0	881.346	172.859	534.735	16.110%	57.652%
25.0	565.102	151.706	686.44	14.138%	74.009%
30.0	348.968	115.676	802.117	10.781%	86.480%
35.0	129.509	70.459	872.576	6.567%	94.077%
40.0	21.762	25.238	897.814	2.352%	96.798%
45.0	9.471	5.783	903.597	.539%	97.421%
50.0	7.650	3.460	907.056	.322%	97.794%
55.0	6.476	3.071	910.128	.286%	98.126%
60.0	5.773	2.831	912.959	.264%	98.431%
65.0	5.280	2.687	915.646	.250%	98.721%
70.0	4.830	2.560	918.206	.239%	98.997%
75.0	4.570	2.457	920.664	.229%	99.261%
80.0	4.338	2.384	923.047	.222%	99.518%
85.0	4.106	2.295	925.342	.214%	99.766%
90.0	3.825	2.172	927.513	.202%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	802.12	74.75%	86.48%
0-40	897.81	83.67%	96.80%
0-60	912.96	85.08%	98.43%
0-90	925.34	86.24%	99.77%
0-120	925.34	86.24%	99.77%
0-180	927.51	86.44%	100.00%
60-90	15.21	1.42%	1.64%
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%
0-27.40	742.01	69.15%	80.00%

ZONAL LUMEN SUMMARY

0-10	186.99
10-20	347.74
20-30	267.38
30-40	95.70
40-50	9.24
50-60	5.90
60-70	5.25
70-80	4.84
80-90	2.29
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: —————

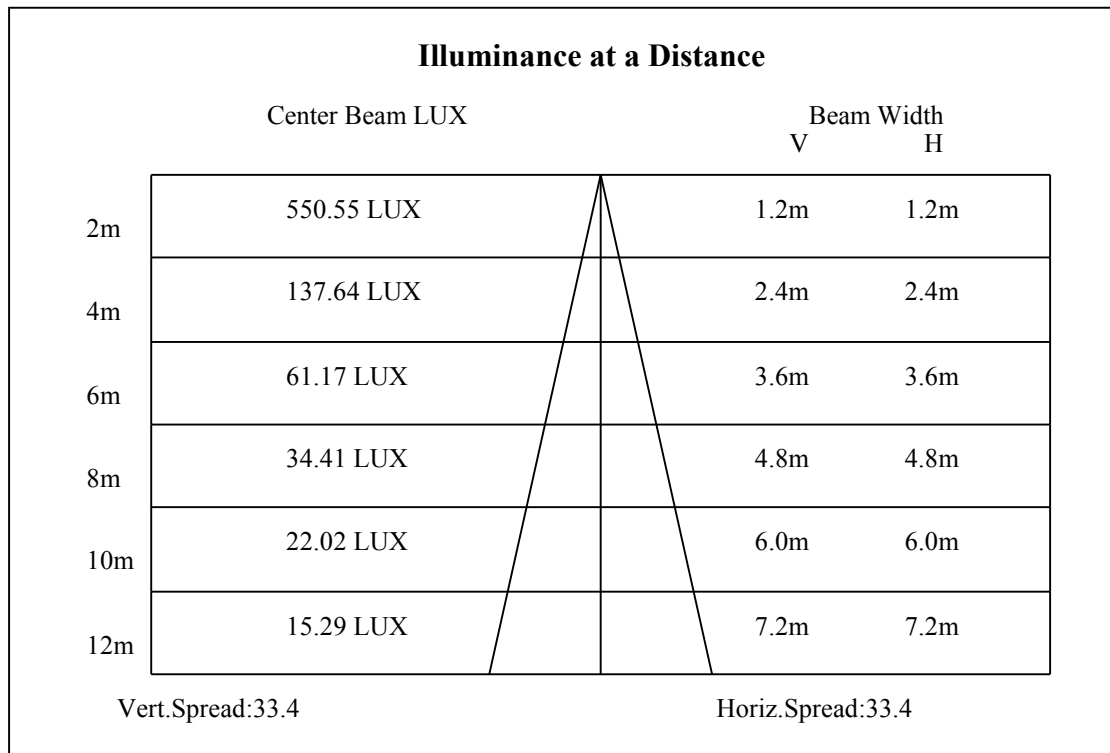
C90/C270: —————

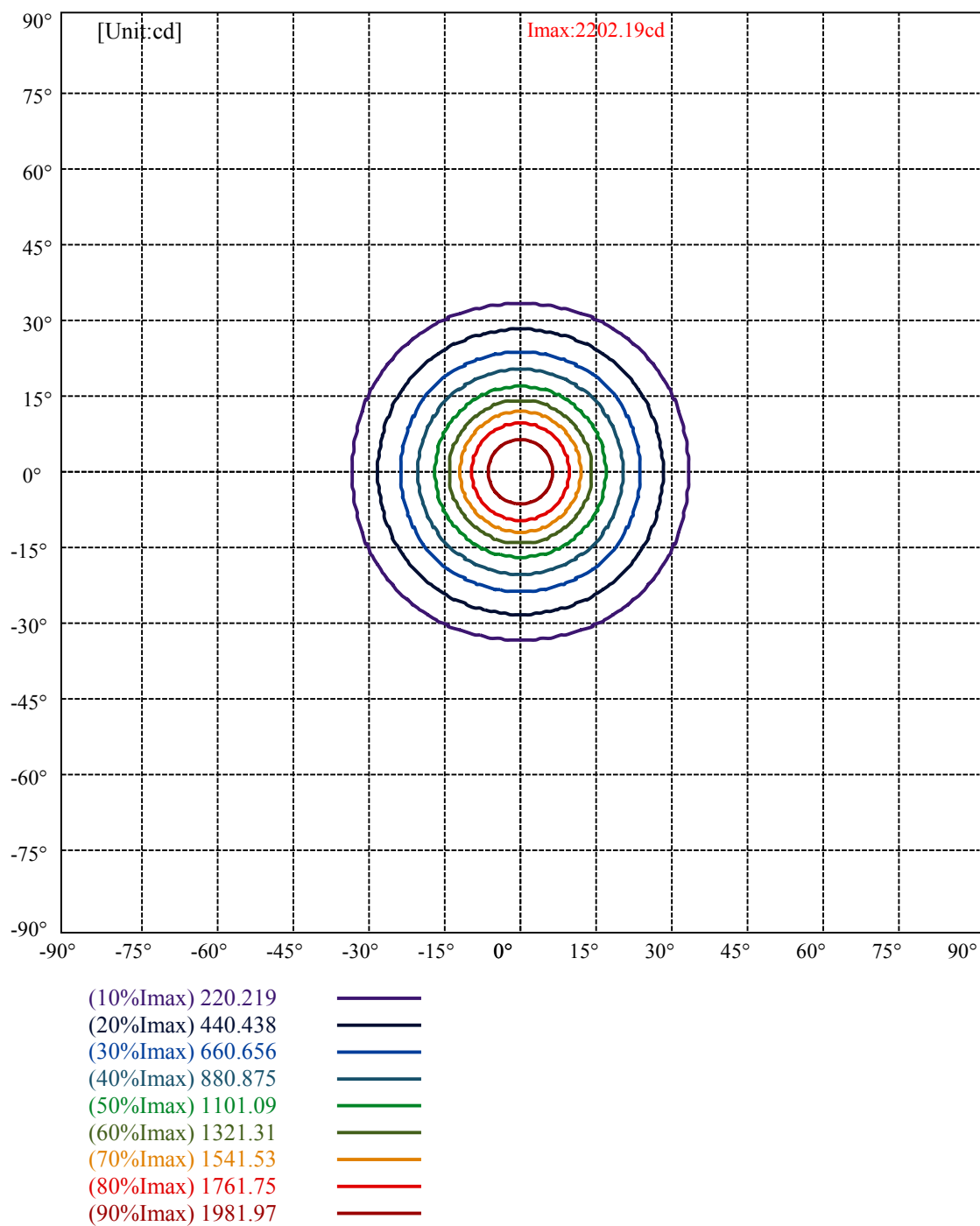
Field angle(10%Imax):C0/180Left:32.9 Right:32.9

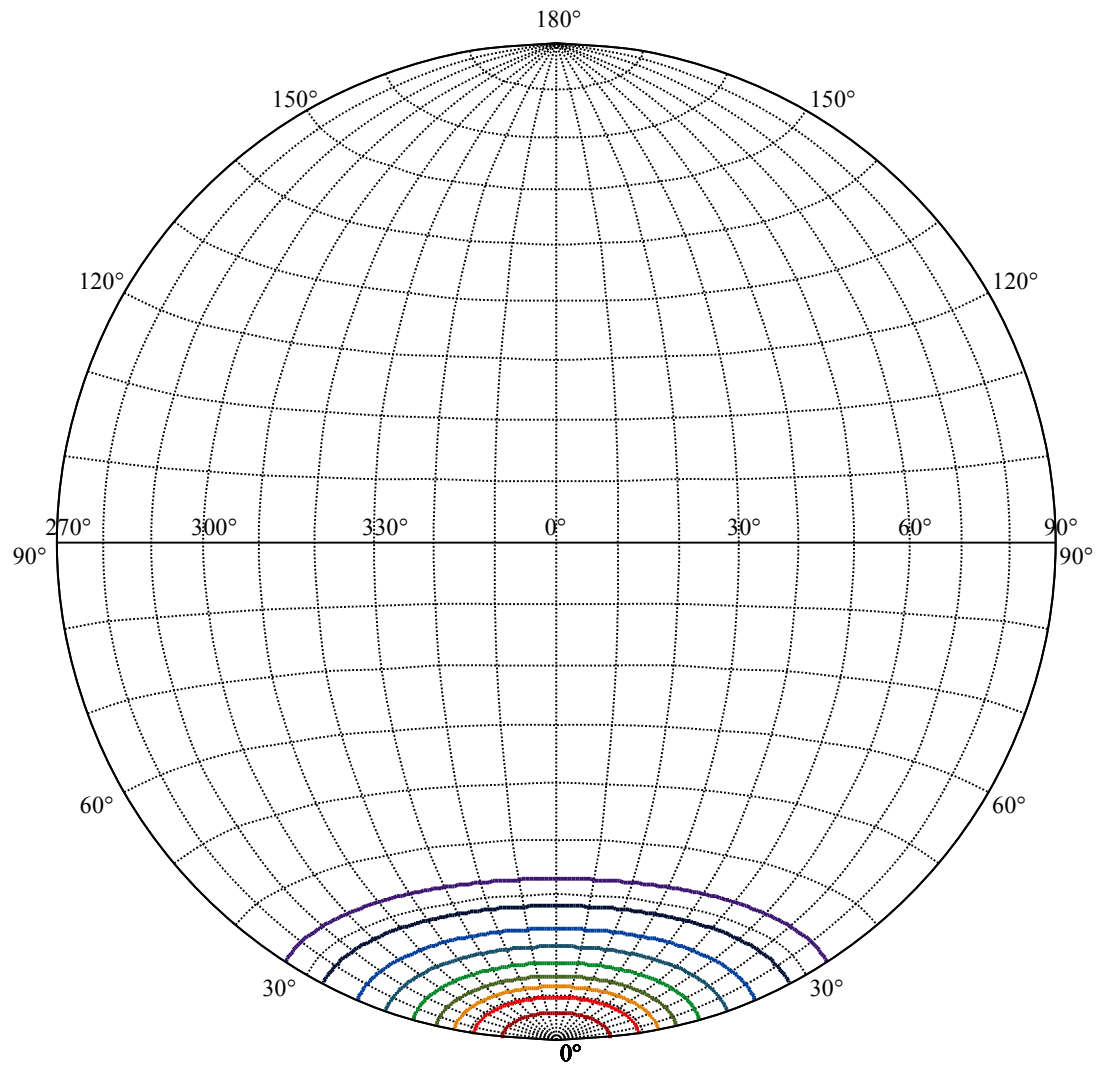
:C90/270Left:32.9 Right:32.9

Beam Angle(50%Imax):C0/180Left:16.7 Right:16.7

:C90/270Left:16.7 Right:16.7





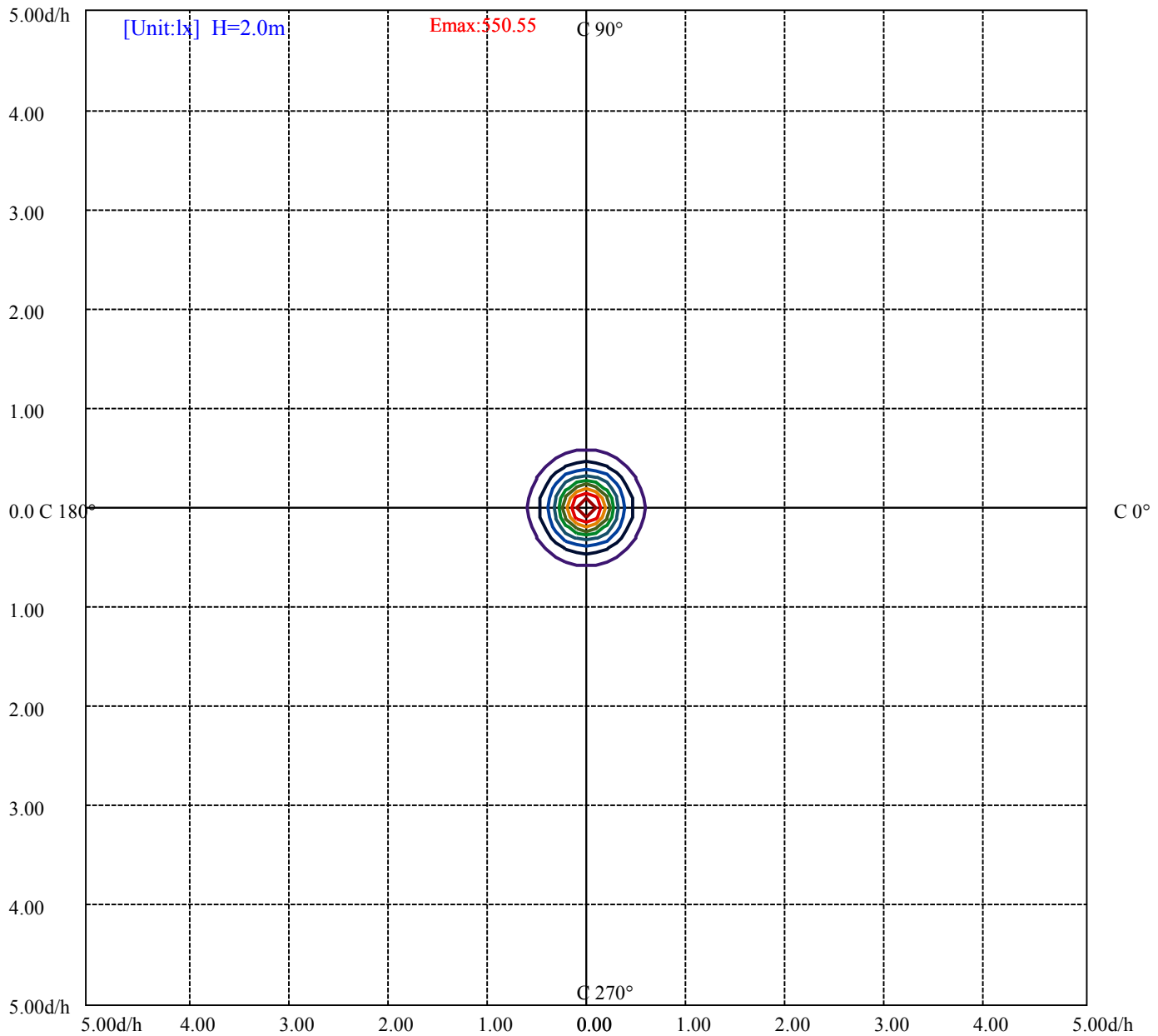


House

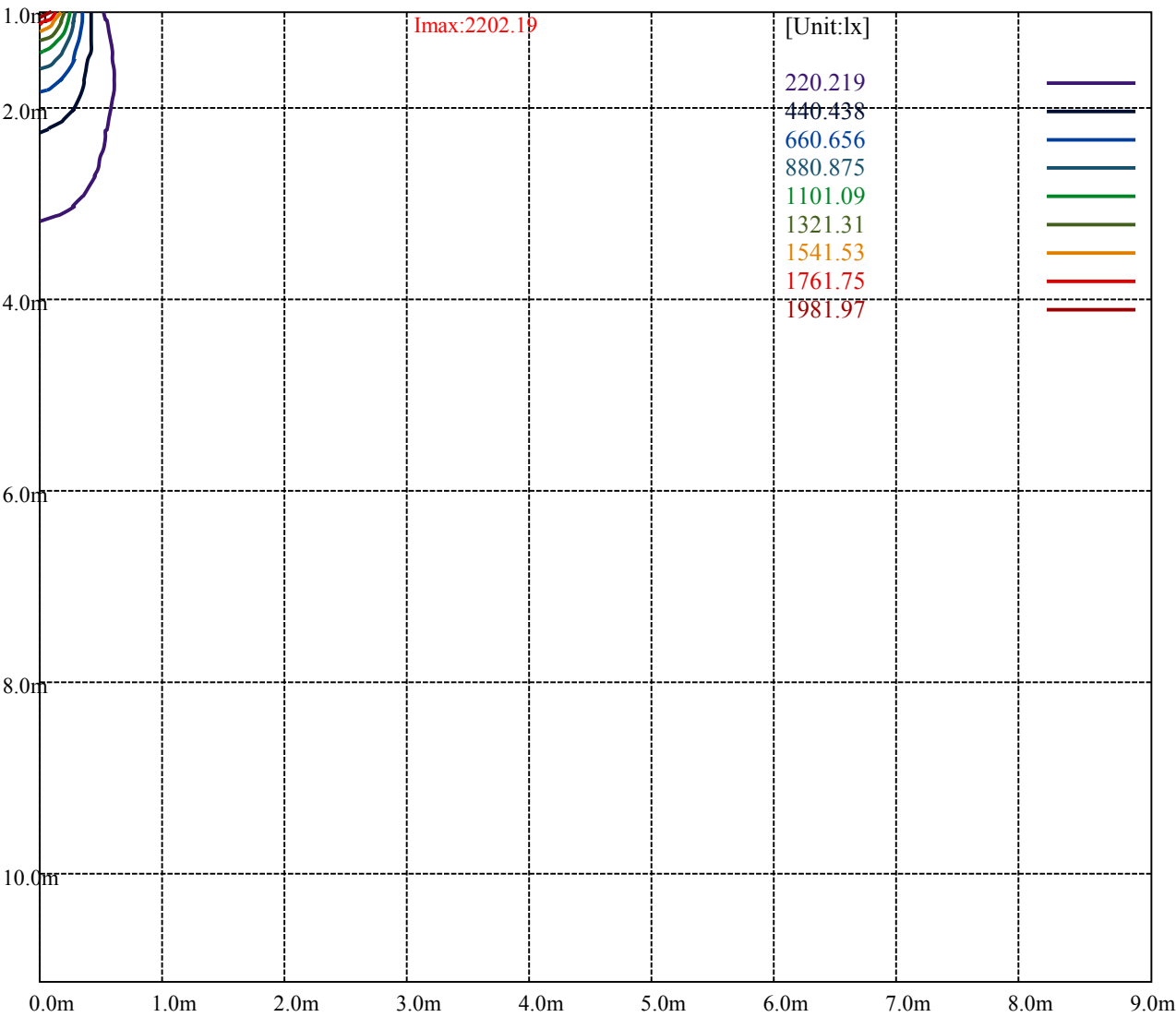
[Unit:cd]

Road

Imax:2202.19	
(10%Imax) 220.219	
(20%Imax) 440.438	
(30%Imax) 660.656	
(40%Imax) 880.875	
(50%Imax) 1101.09	
(60%Imax) 1321.31	
(70%Imax) 1541.53	
(80%Imax) 1761.75	
(90%Imax) 1981.97	



(10%E _{max}) 55.0545	—
(20%E _{max}) 110.1093	—
(30%E _{max}) 165.1638	—
(40%E _{max}) 220.2182	—
(50%E _{max}) 275.2725	—
(60%E _{max}) 330.3275	—
(70%E _{max}) 385.3825	—
(80%E _{max}) 440.4375	—
(90%E _{max}) 495.49	—



Luminance Table

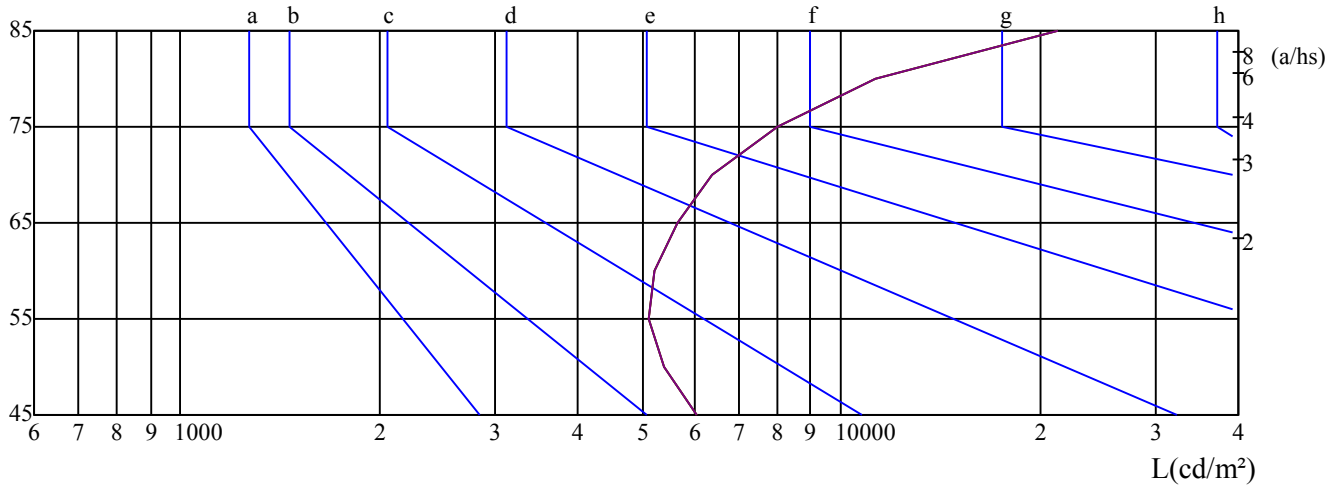
γ	45	50	55	60	65	70	75	80	85
C0	6063	5388	5111	5226	5656	6394	7994	11310	21328
C45	6063	5388	5111	5226	5656	6394	7994	11310	21328
C90	6063	5388	5111	5226	5656	6394	7994	11310	21328

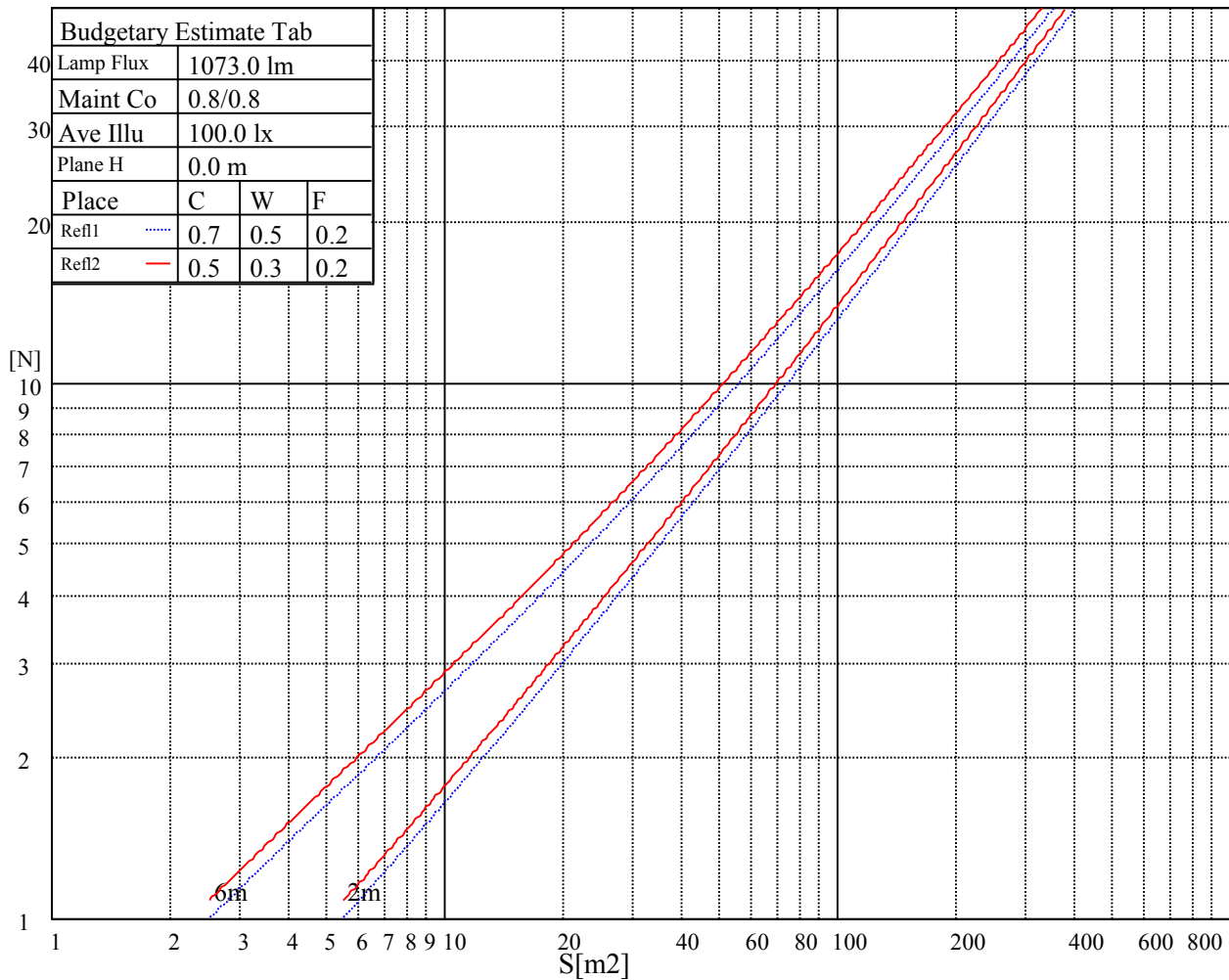
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5656	5656	5656	7994	7994	7994	21328	21328	21328

Glare Table

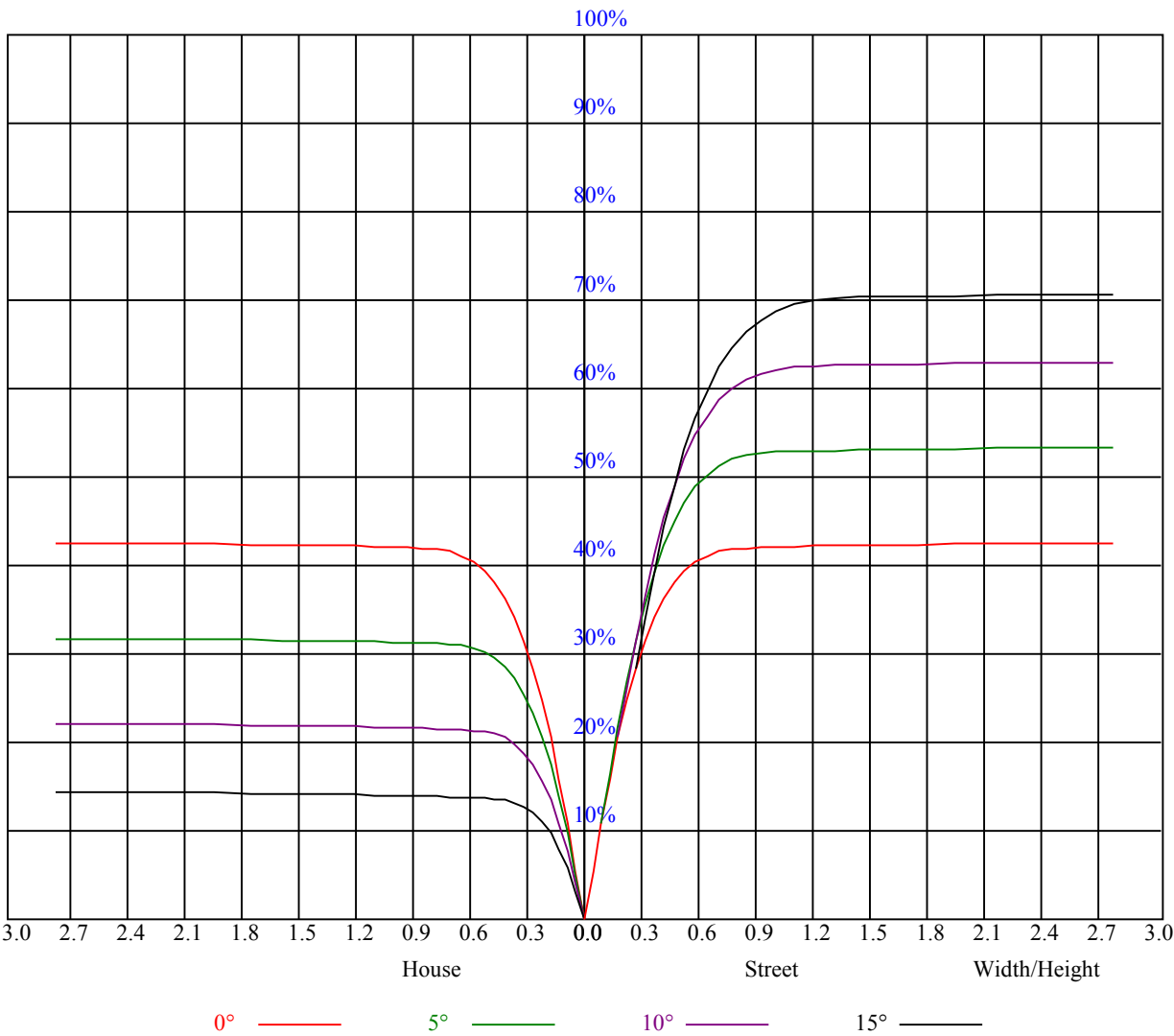
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

 $\gamma(^{\circ})$ 



RHOC	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	0.93	0.94	0.93	0.91	0.91	0.90	0.88	0.88	0.87	0.86	0.85	0.84	0.83	0.82
2	0.91	0.88	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.80	0.82	0.80	0.79	0.77
3	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.78	0.76	0.75	0.73
4	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.70
5	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.72	0.70	0.68	0.66
6	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.67	0.65	0.69	0.67	0.64	0.63
7	0.70	0.66	0.63	0.70	0.65	0.63	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61
8	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.58
9	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.55
10	0.62	0.58	0.55	0.61	0.57	0.55	0.61	0.57	0.54	0.60	0.57	0.54	0.60	0.56	0.54	0.53



Intensity data(cd)

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C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	2202.19	2108.25	1814.63	1364.63	951.19	611.44	379.13	154.41	23.51
45.0	2203.31	2080.13	1740.94	1281.94	873.00	563.63	353.25	128.08	20.19
90.0	2192.06	2008.69	1594.13	1119.54	758.87	469.18	279.84	84.94	17.83
135.0	2211.19	2044.13	1711.13	1262.25	904.50	570.94	351.00	133.59	20.59
180.0	2202.19	2031.75	1672.31	1100.81	847.35	534.66	322.59	114.69	19.13
225.0	2203.31	2060.44	1724.06	1105.09	853.20	579.77	357.53	132.64	21.09
270.0	2192.06	2117.25	1842.19	1382.63	969.19	617.06	387.56	158.34	31.11
315.0	2211.19	2093.63	1757.25	1111.95	893.48	574.14	360.84	129.38	20.64
360.0	2202.19	2108.25	1814.63	1364.63	951.19	611.44	379.13	154.41	23.51
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	9.73	7.71	6.36	5.57	5.12	4.73	4.56	4.33	4.11
45.0	9.34	7.37	6.19	5.68	5.29	4.78	4.50	4.39	4.05
90.0	9.79	8.38	7.09	6.13	5.57	5.01	4.73	4.44	4.16
135.0	9.06	7.31	6.19	5.51	5.06	4.73	4.44	4.22	3.99
180.0	8.83	7.26	6.19	5.51	5.06	4.73	4.44	4.16	3.99
225.0	8.89	7.14	6.19	5.63	5.23	4.73	4.50	4.28	4.05
270.0	10.91	8.66	7.48	6.69	5.85	5.23	4.95	4.61	4.39
315.0	9.23	7.37	6.13	5.46	5.06	4.73	4.44	4.28	4.11
360.0	9.73	7.71	6.36	5.57	5.12	4.73	4.56	4.33	4.11
C/γ(°)	90.0								
0.0	3.94								
45.0	3.83								
90.0	3.77								
135.0	3.77								
180.0	3.77								
225.0	3.83								
270.0	3.83								
315.0	3.88								
360.0	3.94								