
AFX

Client:

LumCAT: BAYF14LAJUDSN

Luminaire: LED Lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.020

LampCAT:

Current(A): 0.207

Lamp flux(lm): 1775.9

Power (W): 24.720

Number of Lamps: 1

PF: 0.993

Length(mm): -340

Width(mm): -340

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1775.94, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 71.84

Central intensity(cd): 657.193, Maximum intensity(cd): 657.194

Angle of maximum intensity: C=75.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=106.2

[C90/270]Total=106.2

Field angle(10%Imax): [C0/180]Total=161.0

[C90/270]Total=160.6

Maximum s/h(1/2): C0_180=1.21 C90_270=1.21

Maximum s/h(1/4): C0_180=1.33 C90_270=1.33

Up flux rate of lamp(%): 0.42%

Down flux rate of lamp(%): 99.58%

Up flux rate of LUM(%): 0.42%

Down flux rate of LUM(%): 99.58%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 78.939%

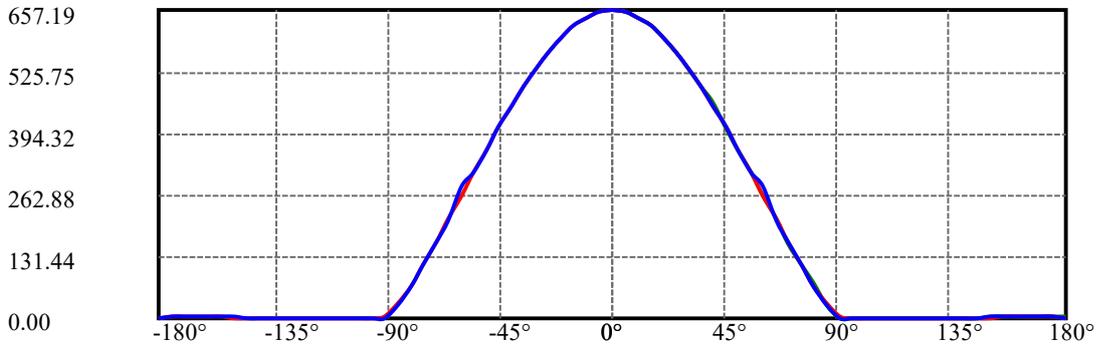
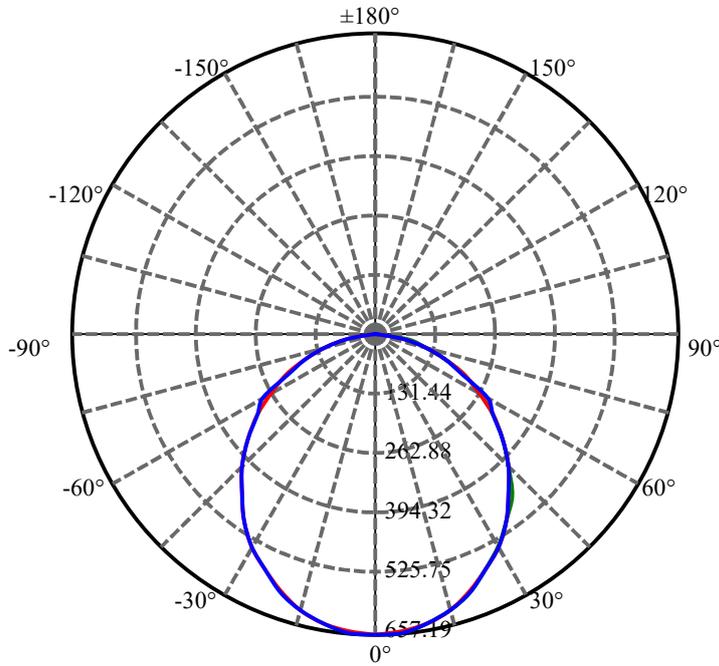
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	657.193	0.000	0	0.00%	0.00%
5.0	653.610	15.670	15.67	0.88%	0.88%
10.0	642.462	46.365	62.035	2.61%	3.49%
15.0	624.287	75.143	137.178	4.23%	7.72%
20.0	599.609	100.866	238.044	5.68%	13.40%
25.0	569.334	122.601	360.644	6.90%	20.31%
30.0	534.044	139.633	500.278	7.86%	28.17%
35.0	494.797	151.504	651.782	8.53%	36.70%
40.0	453.375	158.195	809.977	8.91%	45.61%
45.0	406.617	159.234	969.211	8.97%	54.57%
50.0	359.230	154.750	1123.962	8.71%	63.29%
55.0	310.167	145.549	1269.511	8.20%	71.48%
60.0	262.607	132.395	1401.906	7.45%	78.94%
65.0	210.965	115.126	1517.032	6.48%	85.42%
70.0	161.220	94.240	1611.272	5.31%	90.73%
75.0	113.919	71.917	1683.189	4.05%	94.78%
80.0	70.381	49.314	1732.502	2.78%	97.55%
85.0	29.912	27.252	1759.754	1.53%	99.09%
90.0	2.056	8.753	1768.508	0.49%	99.58%
95.0	0.721	0.761	1769.268	0.04%	99.62%
100.0	0.684	0.382	1769.65	0.02%	99.65%
105.0	0.669	0.362	1770.012	0.02%	99.67%
110.0	0.621	0.337	1770.349	0.02%	99.69%
115.0	0.661	0.325	1770.674	0.02%	99.70%
120.0	0.714	0.334	1771.008	0.02%	99.72%
125.0	0.774	0.344	1771.352	0.02%	99.74%
130.0	0.841	0.351	1771.703	0.02%	99.76%
135.0	0.916	0.355	1772.058	0.02%	99.78%
140.0	1.163	0.385	1772.443	0.02%	99.80%
145.0	1.619	0.464	1772.907	0.03%	99.83%
150.0	2.090	0.546	1773.453	0.03%	99.86%
155.0	2.583	0.591	1774.044	0.03%	99.89%
160.0	3.036	0.589	1774.634	0.03%	99.93%
165.0	3.387	0.529	1775.163	0.03%	99.96%
170.0	3.738	0.423	1775.586	0.02%	99.98%
175.0	4.049	0.279	1775.864	0.02%	100.00%
180.0	2.049	0.073	1775.937	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	500.28	28.17%	28.17%
0-40	809.98	45.61%	45.61%
0-60	1401.91	78.94%	78.94%
0-90	1768.51	99.58%	99.58%
0-120	1771.01	99.72%	99.72%
0-180	1775.94	100.00%	100.00%
60-90	366.60	20.64%	20.64%
90-120	2.50	0.14%	0.14%
90-130	3.20	0.18%	0.18%
90-150	4.95	0.28%	0.28%
90-180	7.36	0.41%	0.41%
0-60.82	1420.75	80.00%	80.00%

ZONAL LUMEN SUMMARY

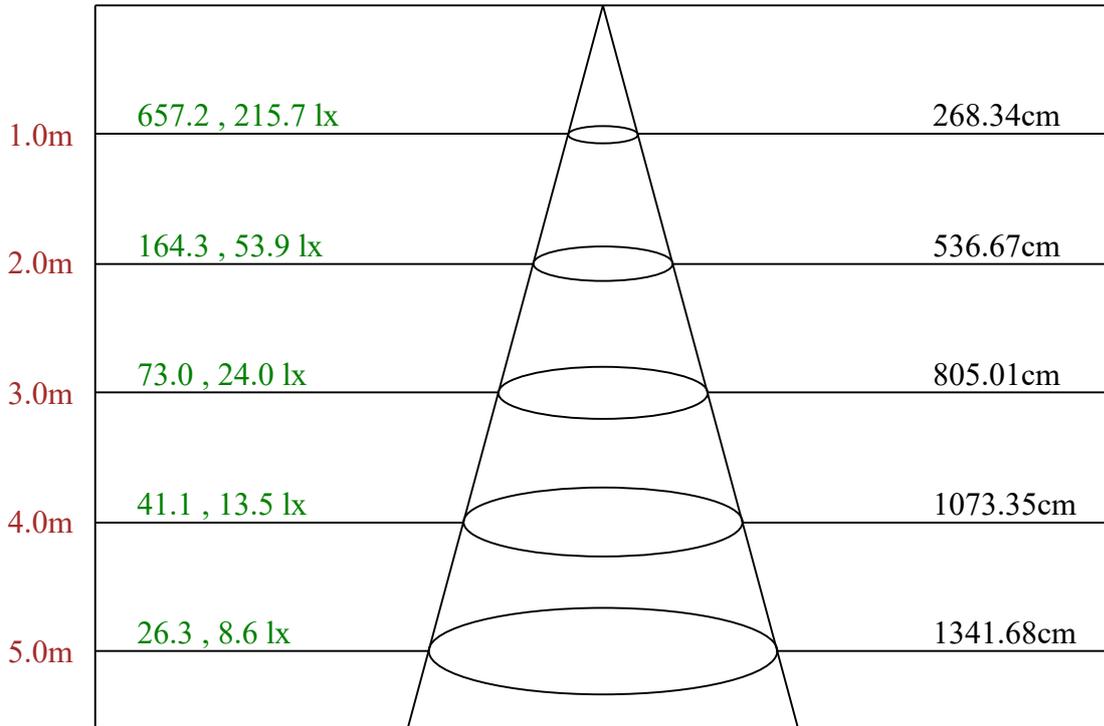
0-10	62.03
10-20	176.01
20-30	262.23
30-40	309.70
40-50	313.98
50-60	277.94
60-70	209.37
70-80	121.23
80-90	36.01
90-100	1.14
100-110	0.70
110-120	0.66
120-130	0.69
130-140	0.74
140-150	1.01
150-160	1.18
160-170	0.95
170-180	0.28



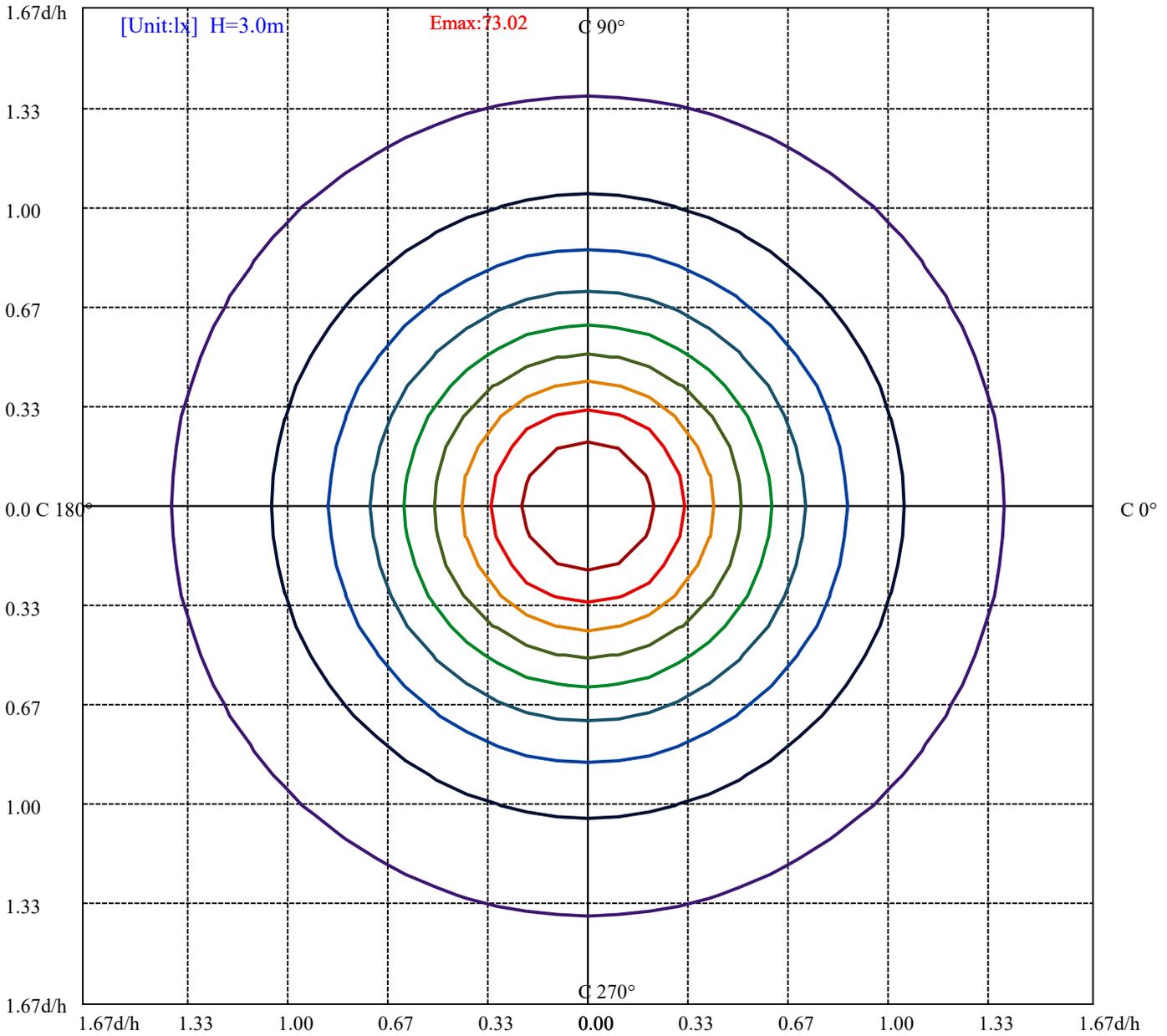
C75(Max): ———
 C0/C180: ———
 C90/C270: ———

Field angle(10%Imax):C0/180Left:80.5 Right:80.5
 :C90/270Left:80.3 Right:80.3

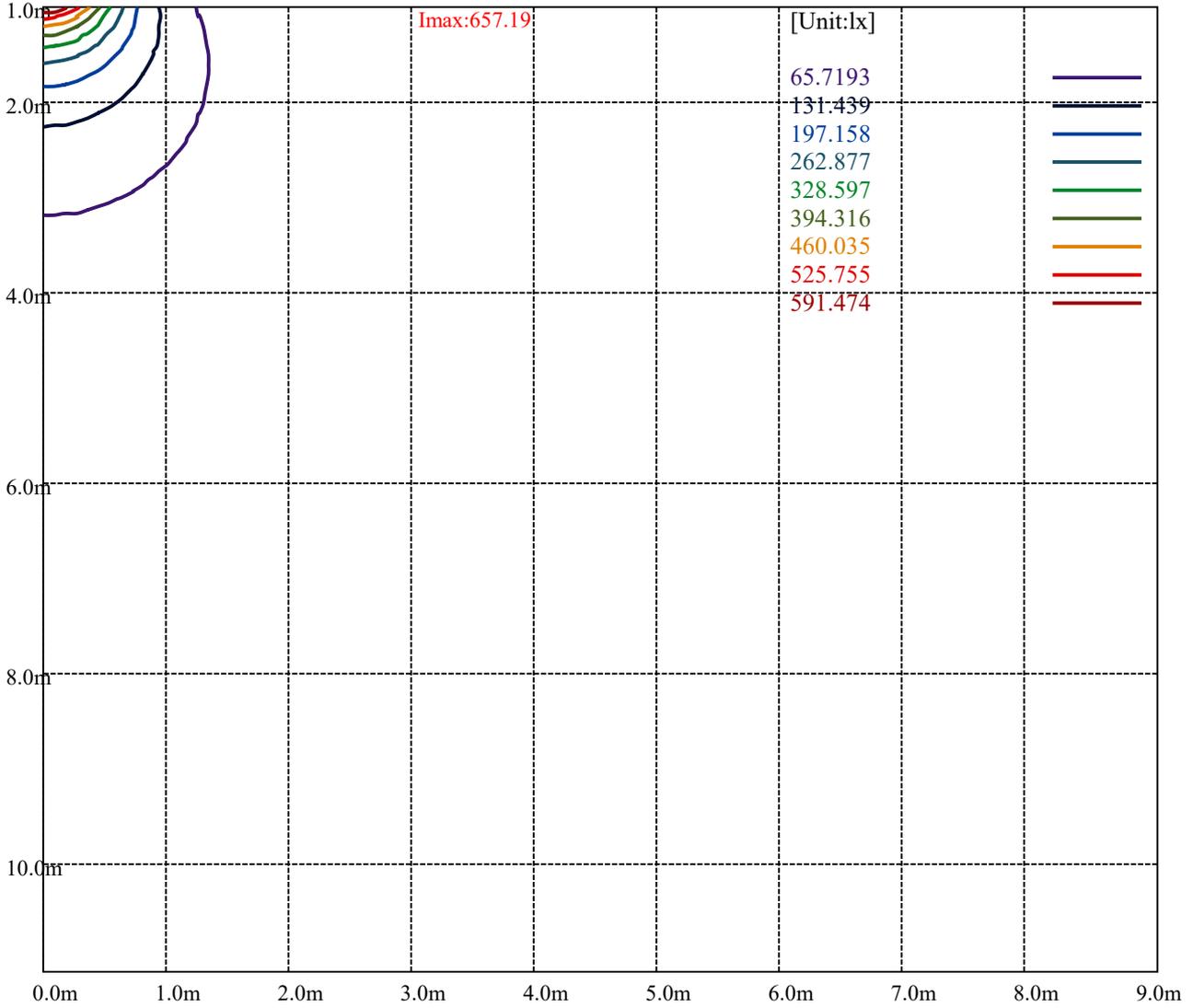
Beam Angle(50%Imax):C0/180Left:53.1 Right:53.1
 :C90/270Left:53.1 Right:53.1



Max , Ave Beam angle of C75 plane 106.60



(10%Emax) 7.302145	—
(20%Emax) 14.60433	—
(30%Emax) 21.90644	—
(40%Emax) 29.20856	—
(50%Emax) 36.51078	—
(60%Emax) 43.81289	—
(70%Emax) 51.115	—
(80%Emax) 58.41722	—
(90%Emax) 65.71933	—



Luminance Table

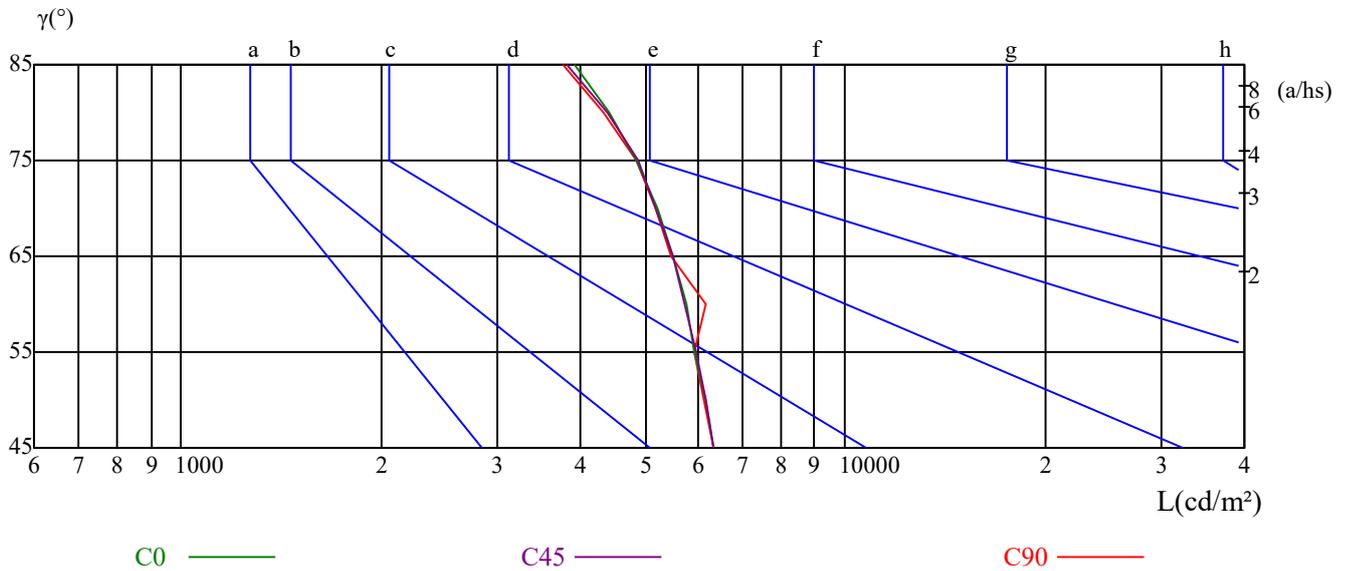
γ	45	50	55	60	65	70	75	80	85
C0	6332	6171	5949	5754	5493	5230	4865	4418	3912
C45	6345	6162	5975	5752	5507	5197	4869	4374	3812
C90	6332	6149	5949	6176	5467	5192	4862	4330	3757

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5493	5467	5507	4865	4862	4869	3912	3757	3812

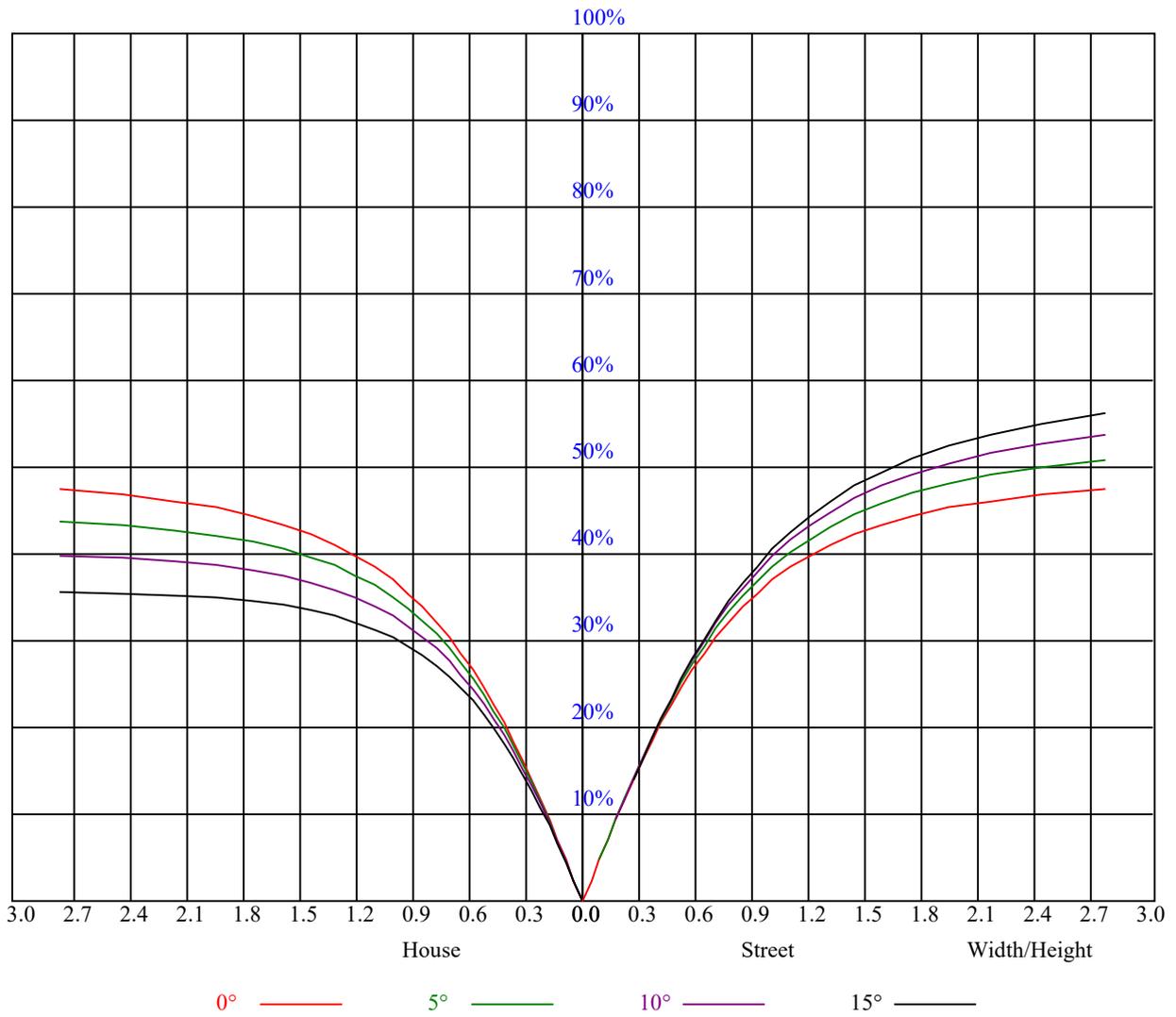
Glare Table

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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.04	1.00	0.96	1.02	0.98	0.94	0.97	0.94	0.91	0.93	0.91	0.88	0.90	0.87	0.86	0.83
2	0.91	0.84	0.78	0.89	0.82	0.77	0.85	0.80	0.75	0.82	0.77	0.73	0.79	0.75	0.72	0.70
3	0.80	0.72	0.65	0.78	0.70	0.64	0.75	0.69	0.63	0.72	0.67	0.62	0.70	0.65	0.61	0.59
4	0.71	0.62	0.55	0.69	0.61	0.55	0.67	0.60	0.54	0.64	0.58	0.53	0.62	0.57	0.52	0.50
5	0.63	0.54	0.48	0.62	0.54	0.47	0.60	0.52	0.47	0.58	0.51	0.46	0.56	0.50	0.46	0.44
6	0.57	0.48	0.42	0.56	0.48	0.41	0.54	0.47	0.41	0.52	0.46	0.41	0.51	0.45	0.40	0.38
7	0.52	0.43	0.37	0.51	0.43	0.37	0.49	0.42	0.36	0.48	0.41	0.36	0.46	0.40	0.36	0.34
8	0.47	0.39	0.33	0.46	0.38	0.33	0.45	0.38	0.33	0.44	0.37	0.32	0.43	0.37	0.32	0.30
9	0.43	0.35	0.30	0.43	0.35	0.30	0.42	0.34	0.29	0.40	0.34	0.29	0.39	0.33	0.29	0.27
10	0.40	0.32	0.27	0.39	0.32	0.27	0.38	0.31	0.27	0.37	0.31	0.27	0.37	0.31	0.26	0.25



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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	657.19	655.87	647.11	631.10	608.10	579.36	547.43	509.13	467.29
15.0	657.19	655.15	646.89	629.20	607.61	578.55	544.43	505.78	463.75
30.0	657.19	655.23	645.86	628.91	605.62	577.33	541.64	504.43	462.31
45.0	657.19	654.51	644.84	628.20	604.39	574.94	540.22	501.20	458.95
60.0	657.19	654.33	643.84	626.54	603.87	572.23	539.25	497.85	457.70
75.0	657.19	653.78	642.83	625.69	601.54	571.66	536.47	497.25	454.52
90.0	657.19	653.96	643.07	624.90	600.25	570.21	536.57	497.08	454.17
105.0	657.19	654.22	642.24	625.32	600.91	570.47	534.90	495.46	454.76
120.0	657.19	653.50	642.51	624.50	599.82	570.73	533.72	495.98	453.02
135.0	657.19	656.20	644.98	627.42	602.81	572.41	536.85	497.40	456.59
150.0	657.19	653.76	642.93	625.95	579.63	572.85	535.65	498.36	455.56
165.0	657.19	654.39	644.09	626.55	602.50	572.40	539.31	500.17	452.98
180.0	657.19	650.91	637.12	618.10	589.71	559.10	522.04	481.26	437.13
195.0	657.19	651.51	638.18	618.18	591.53	559.54	522.57	483.83	438.07
210.0	657.19	651.66	638.54	619.00	593.93	562.52	526.02	485.60	441.97
225.0	657.19	652.36	640.10	620.59	594.63	563.13	529.12	486.43	445.62
240.0	657.19	652.62	640.97	621.52	596.79	565.51	529.57	489.60	446.22
255.0	657.19	653.06	641.31	622.73	597.33	566.27	530.46	490.34	449.32
270.0	657.19	653.06	642.53	622.83	599.17	568.59	532.70	493.03	449.94
285.0	657.19	653.14	641.70	623.51	598.39	567.50	532.02	494.56	482.67
300.0	657.19	653.05	641.61	623.06	617.21	566.95	531.46	494.00	451.22
315.0	657.19	654.84	643.08	625.43	600.28	569.42	533.86	493.96	450.89
330.0	657.19	653.13	641.30	622.52	597.42	566.35	530.69	492.31	449.42
345.0	657.19	652.40	641.46	621.12	597.17	565.98	530.09	490.14	446.93
360.0	657.19	655.87	647.11	631.10	608.10	579.36	547.43	509.13	467.29

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	422.27	375.30	326.83	277.21	229.53	179.47	130.55	84.47	44.58
15.0	420.83	371.78	325.49	275.90	225.70	175.58	129.20	83.26	41.76
30.0	417.25	370.13	321.50	271.89	224.33	171.68	125.37	79.59	38.55
45.0	416.17	366.32	320.23	270.47	220.17	169.96	123.78	75.90	37.14
60.0	412.35	365.03	316.09	266.27	218.32	168.40	119.82	74.48	33.97
75.0	411.08	361.54	314.86	265.05	214.70	164.70	116.41	73.33	33.12
90.0	408.74	361.25	312.32	265.09	211.93	164.52	115.95	70.79	30.85
105.0	406.76	361.74	310.05	262.77	212.25	162.18	113.82	68.80	30.89
120.0	407.54	359.89	311.08	260.91	212.91	162.83	114.65	69.62	29.81
135.0	408.45	363.12	313.98	263.67	213.00	162.96	116.82	69.40	31.13
150.0	409.78	362.28	313.25	265.57	212.47	164.89	116.49	71.25	31.06
165.0	410.95	365.39	314.22	266.40	215.96	165.70	117.25	71.96	33.54
180.0	390.78	344.96	292.77	245.19	192.03	145.33	98.09	54.84	17.34
195.0	393.82	343.52	296.25	245.96	195.67	146.17	98.99	57.76	17.95
210.0	395.74	347.56	298.21	247.71	199.79	147.68	102.71	58.98	20.79
225.0	399.52	351.64	302.06	251.85	201.37	151.70	104.18	62.38	23.72
240.0	400.52	352.57	303.28	255.60	205.14	155.31	107.55	63.45	24.74
255.0	401.30	355.97	306.61	256.61	206.08	156.35	110.85	98.19	26.30
270.0	404.25	356.48	307.28	295.67	207.61	157.96	112.53	65.76	28.60
285.0	404.69	359.30	307.98	260.43	210.09	160.29	112.38	67.99	28.55
300.0	405.74	358.27	309.28	259.29	209.13	159.41	113.84	67.19	29.72
315.0	405.19	357.42	308.37	258.43	210.65	160.88	112.93	68.14	28.68
330.0	403.82	356.41	307.56	257.53	207.51	157.93	110.25	66.10	28.71
345.0	401.28	353.64	304.46	257.09	206.83	157.38	109.65	65.54	26.40
360.0	422.27	375.30	326.83	277.21	229.53	179.47	130.55	84.47	44.58

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Intensity data(cd)

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	7.70	0.53	0.35	0.35	0.27	0.35	0.53	0.71	0.80
15.0	6.93	0.53	0.44	0.36	0.27	0.44	0.53	0.71	0.89
30.0	4.64	0.54	0.45	0.36	0.36	0.45	0.45	0.71	0.80
45.0	3.76	0.45	0.36	0.45	0.27	0.36	0.45	0.72	0.89
60.0	2.06	0.45	0.45	0.36	0.27	0.27	0.45	0.72	0.99
75.0	1.80	0.45	0.45	0.45	0.27	0.27	0.54	0.72	0.90
90.0	1.53	0.45	0.45	0.54	0.27	0.27	0.54	0.72	0.99
105.0	0.99	0.45	0.45	0.45	0.36	0.45	0.45	0.72	0.90
120.0	1.17	0.45	0.45	0.36	0.45	0.45	0.45	0.72	0.90
135.0	1.00	0.45	0.45	0.45	0.45	0.45	0.63	0.81	0.90
150.0	1.08	0.45	0.45	0.36	0.45	0.45	0.63	0.81	0.90
165.0	1.72	0.45	0.45	0.45	0.36	0.45	0.63	0.81	0.99
180.0	1.15	1.15	0.97	1.06	1.06	1.15	1.15	1.06	0.88
195.0	1.24	1.07	0.98	0.98	1.07	1.16	1.16	0.98	0.89
210.0	1.25	0.98	0.98	0.98	0.98	1.16	1.07	0.80	0.80
225.0	1.25	0.98	0.98	0.98	0.98	0.98	0.89	0.81	0.72
240.0	1.25	0.90	0.99	0.90	0.81	0.90	0.81	0.81	0.72
255.0	1.17	0.99	0.99	0.81	0.72	0.81	0.81	0.72	0.72
270.0	1.26	0.90	0.90	0.90	0.81	0.72	0.81	0.81	0.72
285.0	1.26	0.90	0.81	0.90	0.81	0.72	0.72	0.72	0.81
300.0	1.35	0.90	0.90	0.90	0.90	0.90	0.81	0.63	0.72
315.0	1.27	1.00	0.90	0.90	0.90	0.90	0.81	0.81	0.72
330.0	1.26	0.90	0.90	0.90	0.90	0.90	0.90	0.72	0.81
345.0	1.27	0.99	0.90	0.90	0.90	0.90	0.90	0.81	0.81
360.0	7.70	0.53	0.35	0.35	0.27	0.35	0.53	0.71	0.80
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.97	1.33	1.95	2.30	2.92	3.45	3.71	3.98	3.98
15.0	0.89	1.24	1.95	2.40	2.93	3.38	3.82	4.00	4.09
30.0	1.07	1.43	2.05	2.32	3.03	3.48	3.75	3.93	4.10
45.0	0.98	1.43	1.97	2.51	3.04	3.58	3.85	3.94	4.12
60.0	1.08	1.52	2.06	2.51	3.05	3.58	3.85	4.03	4.12
75.0	1.17	1.44	2.06	2.51	3.05	3.50	3.86	4.04	4.22
90.0	1.08	1.44	2.07	2.61	3.06	3.51	3.78	4.05	4.23
105.0	1.08	1.44	2.07	2.52	2.97	3.60	3.87	3.96	4.23
120.0	1.17	1.44	2.07	2.52	3.06	3.51	3.87	4.05	4.23
135.0	1.09	1.45	1.99	2.44	3.08	3.53	3.89	4.07	4.16
150.0	0.99	1.44	1.99	2.53	3.07	3.52	3.79	3.97	4.06
165.0	0.99	1.36	1.99	2.35	2.98	3.44	3.80	3.98	4.16
180.0	0.80	0.97	1.24	1.77	2.21	2.65	3.01	3.63	3.98
195.0	0.89	1.07	1.33	1.78	2.22	2.22	3.02	3.55	4.00
210.0	0.80	0.80	1.25	1.78	2.23	2.68	2.94	3.48	3.93
225.0	0.72	0.89	1.25	1.88	2.15	2.68	2.95	3.49	3.94
240.0	0.81	0.90	1.25	1.70	2.06	2.60	2.96	3.50	3.94
255.0	0.72	0.90	1.17	1.71	2.15	2.60	2.87	3.41	3.86
270.0	0.72	0.81	1.17	1.71	2.07	2.52	2.97	3.42	3.96
285.0	0.81	0.90	1.17	1.71	2.07	2.52	2.97	3.42	3.96
300.0	0.72	0.90	1.17	1.62	2.07	2.61	2.88	3.42	3.96
315.0	0.81	0.90	1.18	1.63	2.17	2.53	2.90	3.53	3.98
330.0	0.81	0.99	1.17	1.63	2.17	2.53	2.98	3.43	3.97
345.0	0.81	0.90	1.27	1.72	2.17	2.62	2.98	3.44	3.98
360.0	0.97	1.33	1.95	2.30	2.92	3.45	3.71	3.98	3.98

Intensity data(cd)

C/ γ (°)	180.0
0.0	3.98
15.0	4.00
30.0	4.10
45.0	4.03
60.0	4.12
75.0	4.13
90.0	4.05
105.0	4.14
120.0	4.14
135.0	4.16
150.0	4.15
165.0	4.16
180.0	0.00
195.0	0.00
210.0	0.00
225.0	0.00
240.0	0.00
255.0	0.00
270.0	0.00
285.0	0.00
300.0	0.00
315.0	0.00
330.0	0.00
345.0	0.00
360.0	3.98