
AFX

Client:

LumCAT: AUGW0612LAJMVNP

Luminaire: LED灯具

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.206

Lamp flux(lm): 1956.3

Power (W): 24.520

Number of Lamps: 1

PF: 0.993

Length(mm): 115

Width(mm): 50

Phm Type: C

Height(mm): 280

Photometric Results

Lumens(lm): 1956.28, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 79.78

Central intensity(cd): 50.524, Maximum intensity(cd): 417.510

Angle of maximum intensity: C=75.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=309.4

[C90/270]Total=178.7

Field angle(10%Imax): [C0/180]Total=348.0

[C90/270]Total=191.9

Maximum s/h(1/2): C0_180=2.77 C90_270=4.57

Maximum s/h(1/4): C0_180=2.77 C90_270=4.30

Up flux rate of lamp(%): 48.73%

Down flux rate of lamp(%): 51.27%

Up flux rate of LUM(%): 48.73%

Down flux rate of LUM(%): 51.27%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 21.349%

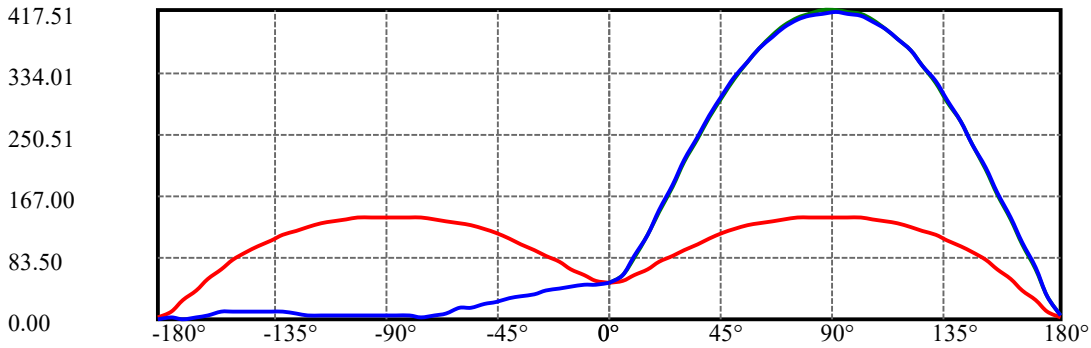
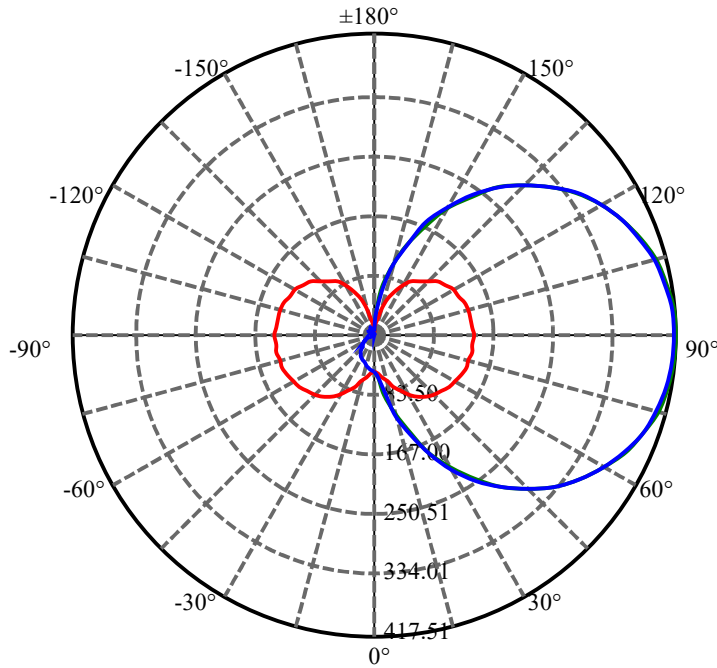
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	50.524	0.000	0	0.00%	0.00%
5.0	53.176	1.240	1.24	0.06%	0.06%
10.0	62.072	4.123	5.363	0.21%	0.27%
15.0	73.775	8.058	13.421	0.41%	0.69%
20.0	87.435	13.286	26.707	0.68%	1.37%
25.0	100.371	19.697	46.404	1.01%	2.37%
30.0	113.644	27.084	73.488	1.38%	3.76%
35.0	126.391	35.347	108.835	1.81%	5.56%
40.0	138.277	44.158	152.993	2.26%	7.82%
45.0	148.816	53.158	206.15	2.72%	10.54%
50.0	158.418	62.081	268.232	3.17%	13.71%
55.0	166.705	70.693	338.924	3.61%	17.32%
60.0	173.831	78.714	417.638	4.02%	21.35%
65.0	179.379	85.866	503.504	4.39%	25.74%
70.0	183.881	91.980	595.484	4.70%	30.44%
75.0	187.524	97.079	692.563	4.96%	35.40%
80.0	190.380	101.117	793.68	5.17%	40.57%
85.0	192.179	103.950	897.63	5.31%	45.88%
90.0	192.477	105.322	1002.952	5.38%	51.27%
95.0	191.656	105.179	1108.131	5.38%	56.64%
100.0	189.517	103.574	1211.705	5.29%	61.94%
105.0	185.955	100.466	1312.171	5.14%	67.07%
110.0	181.452	96.034	1408.205	4.91%	71.98%
115.0	175.679	90.428	1498.633	4.62%	76.61%
120.0	168.443	83.657	1582.289	4.28%	80.88%
125.0	159.446	75.791	1658.08	3.87%	84.76%
130.0	149.513	67.178	1725.258	3.43%	88.19%
135.0	137.849	58.066	1783.324	2.97%	91.16%
140.0	125.591	48.778	1832.102	2.49%	93.65%
145.0	111.792	39.606	1871.707	2.02%	95.68%
150.0	97.092	30.760	1902.467	1.57%	97.25%
155.0	81.683	22.624	1925.091	1.16%	98.41%
160.0	65.360	15.422	1940.513	0.79%	99.19%
165.0	47.827	9.328	1949.841	0.48%	99.67%
170.0	30.601	4.652	1954.494	0.24%	99.91%
175.0	13.811	1.589	1956.082	0.08%	99.99%
180.0	2.514	0.195	1956.278	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	73.49	3.76%	3.76%
0-40	152.99	7.82%	7.82%
0-60	417.64	21.35%	21.35%
0-90	1002.95	51.27%	51.27%
0-120	1582.29	80.88%	80.88%
0-180	1956.28	100.00%	100.00%
60-90	585.31	29.92%	29.92%
90-120	579.34	29.61%	29.61%
90-130	722.31	36.92%	36.92%
90-150	899.51	45.98%	45.98%
90-180	953.13	48.72%	48.72%
0-118.97	1565.02	80.00%	80.00%

ZONAL LUMEN SUMMARY

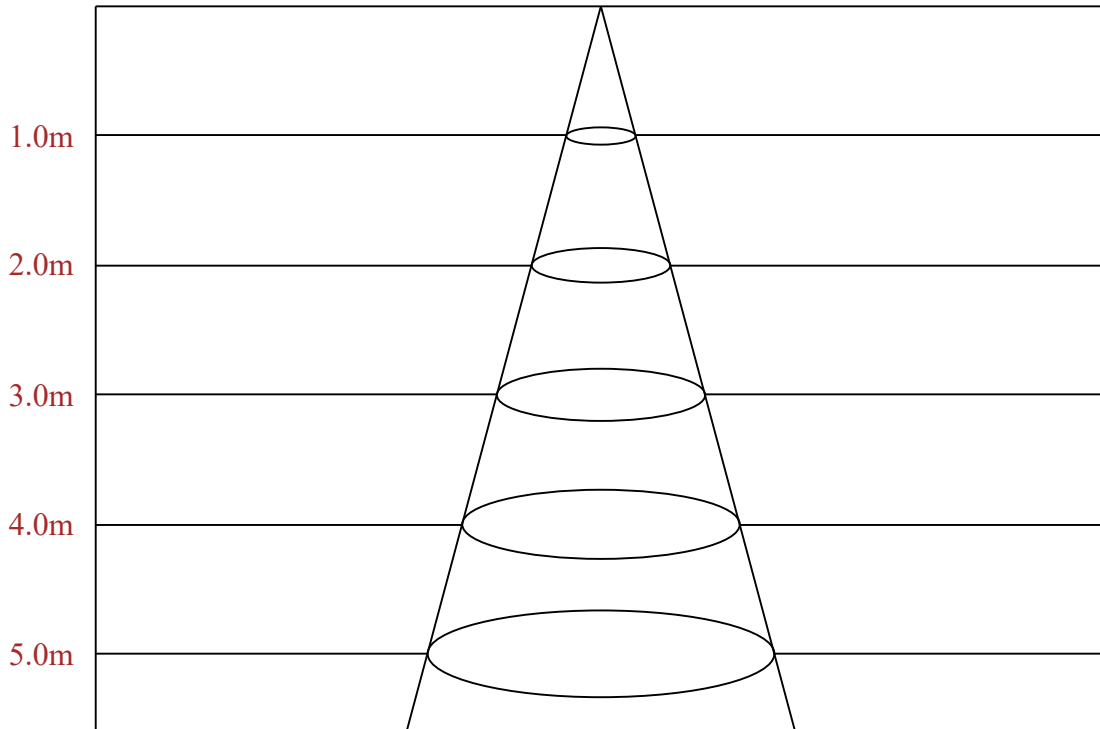
0-10	5.36
10-20	21.34
20-30	46.78
30-40	79.50
40-50	115.24
50-60	149.41
60-70	177.85
70-80	198.20
80-90	209.27
90-100	208.75
100-110	196.50
110-120	174.08
120-130	142.97
130-140	106.84
140-150	70.37
150-160	38.05
160-170	13.98
170-180	1.59



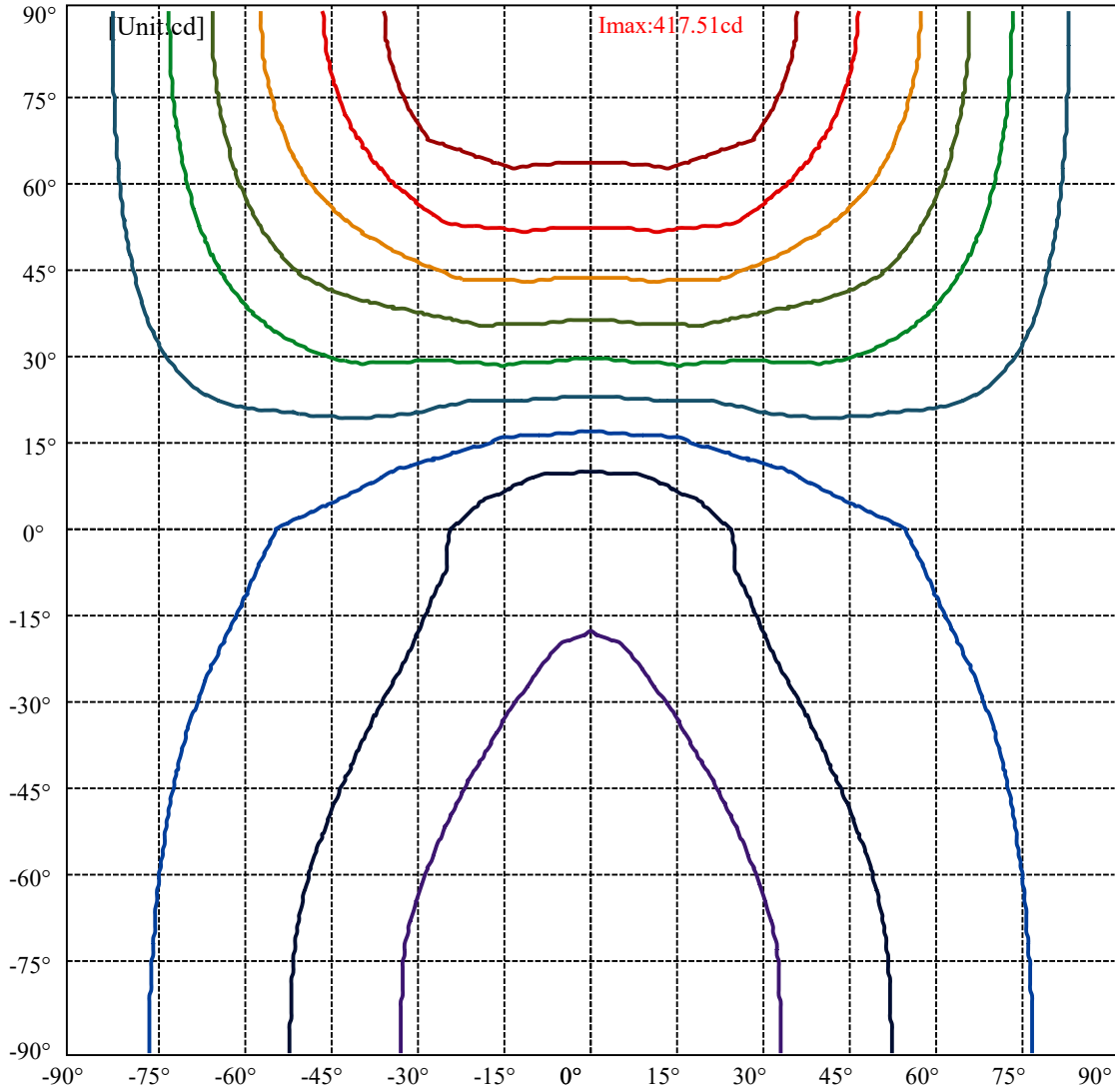
C75(Max): ———
 C0/C180: ———
 C90/C270: ———

Field angle(10%Imax):C0/180Left:174.0 Right:174.0
 :C90/270Left:18.2 Right:173.7

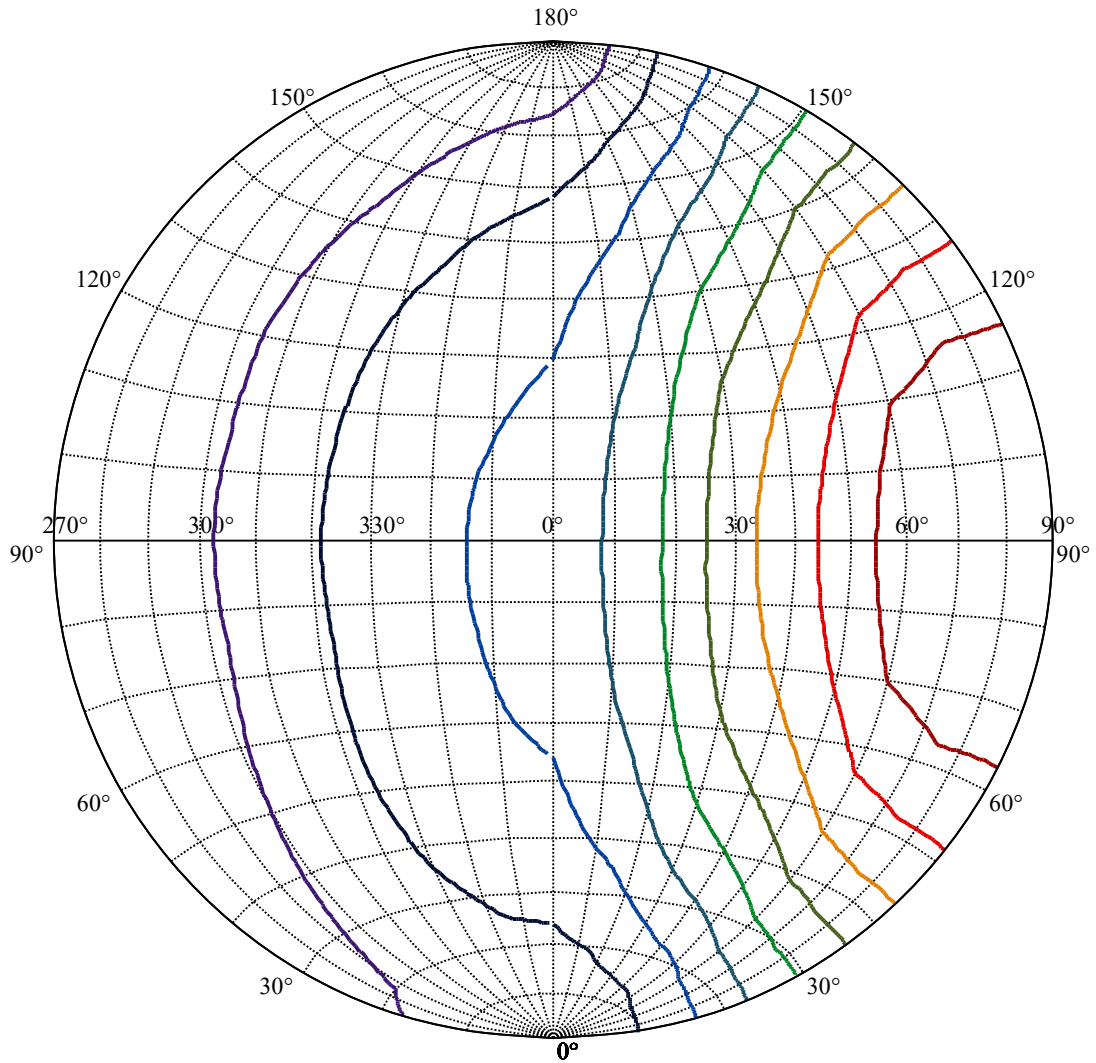
Beam Angle(50%Imax):C0/180Left:154.7 Right:154.7
 :C90/270Left:28.9 Right:149.8



Max , Ave Beam angle of C75 plane 221.66



- (10%Imax) 41.751
- (20%Imax) 83.502
- (30%Imax) 125.253
- (40%Imax) 167.004
- (50%Imax) 208.755
- (60%Imax) 250.506
- (70%Imax) 292.257
- (80%Imax) 334.008
- (90%Imax) 375.759



House

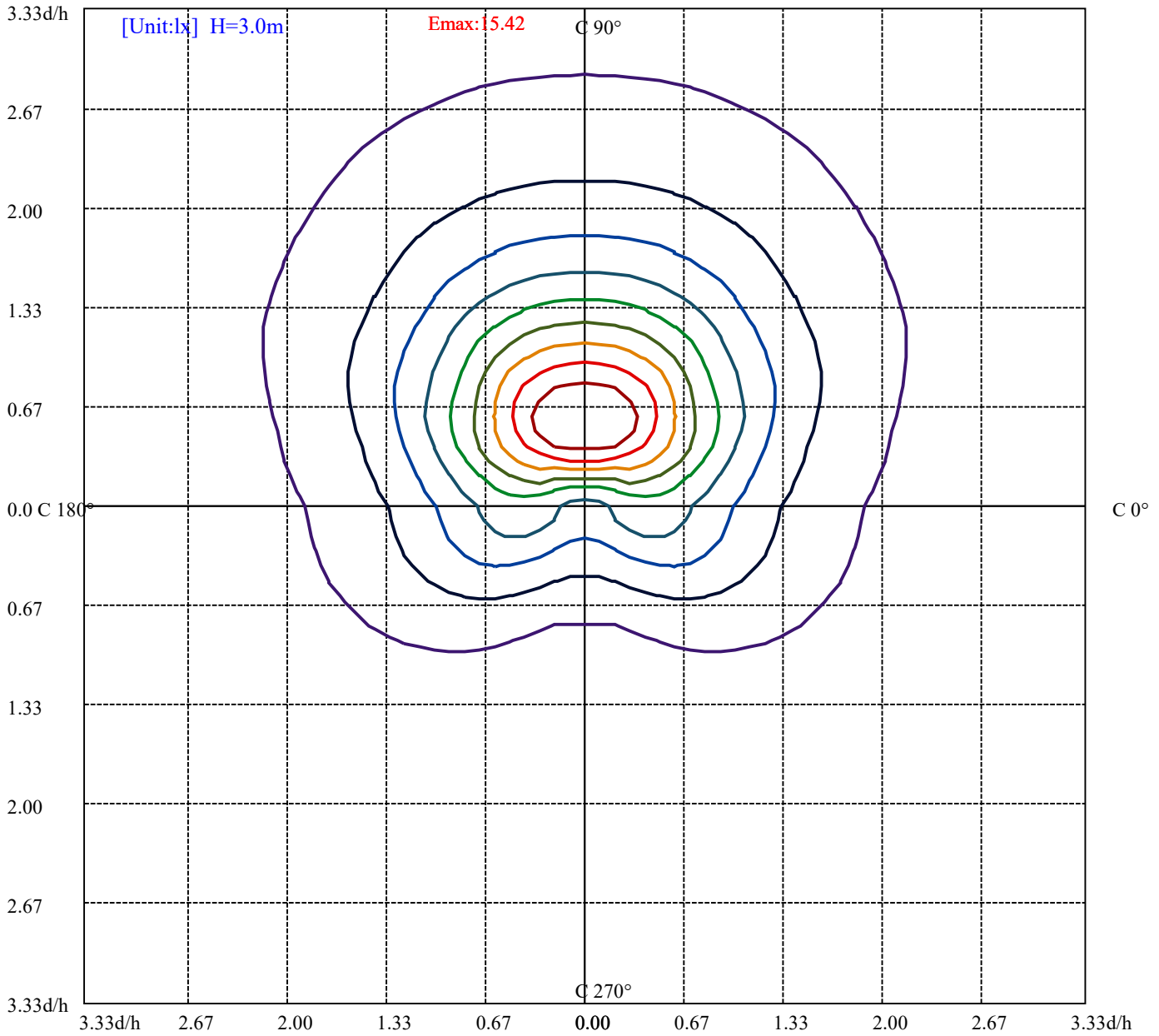
[Unit:cd]

Road

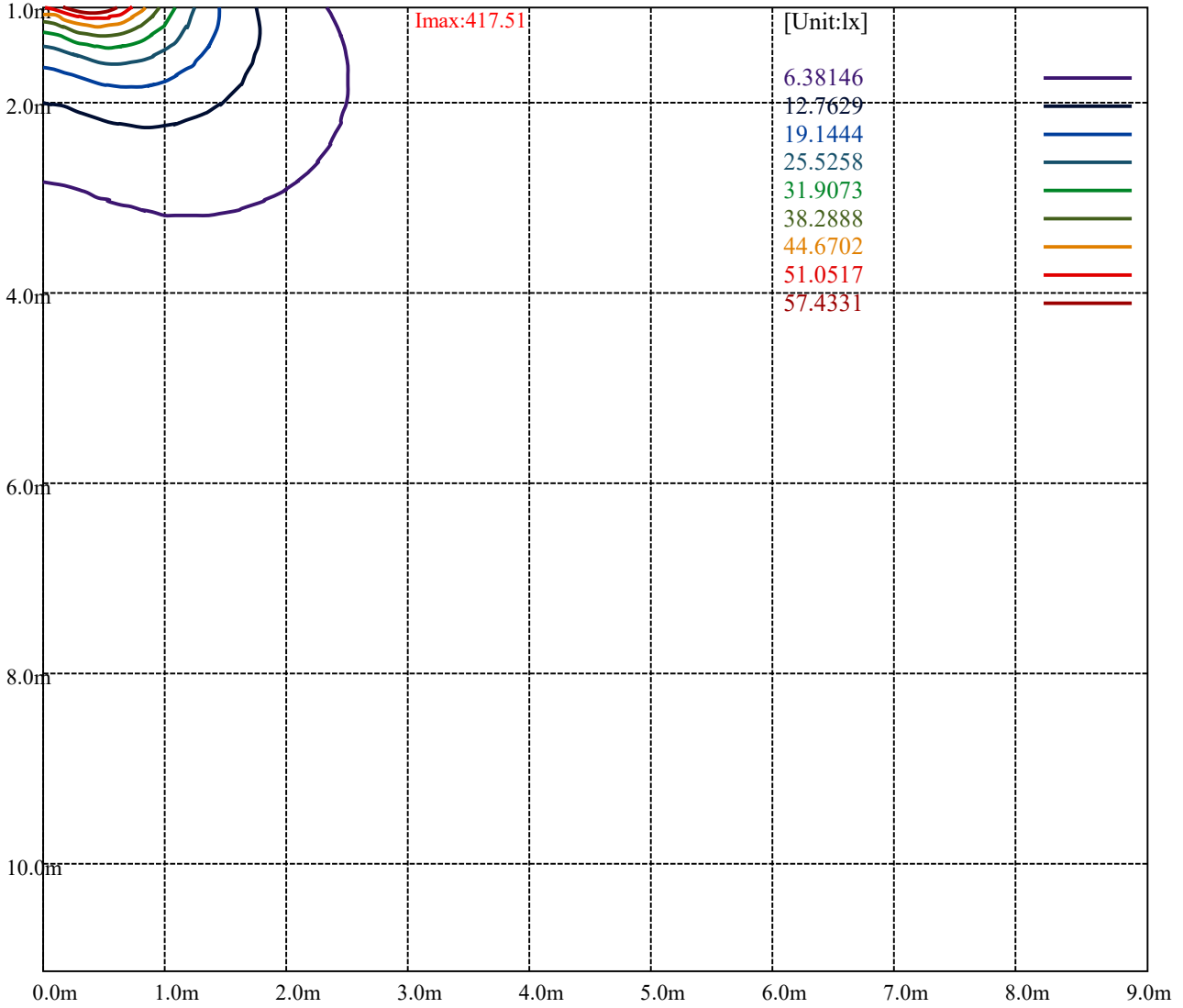
I_{max}:417.51

- (10%I_{max}) 41.751
- (20%I_{max}) 83.502
- (30%I_{max}) 125.253
- (40%I_{max}) 167.004
- (50%I_{max}) 208.755
- (60%I_{max}) 250.506
- (70%I_{max}) 292.257
- (80%I_{max}) 334.008
- (90%I_{max}) 375.759





- (10%Emax) 1.541633
- (20%Emax) 3.083266
- (30%Emax) 4.6249
- (40%Emax) 6.166522
- (50%Emax) 7.708155
- (60%Emax) 9.249789
- (70%Emax) 10.79142
- (80%Emax) 12.333
- (90%Emax) 13.87467



Luminance Table

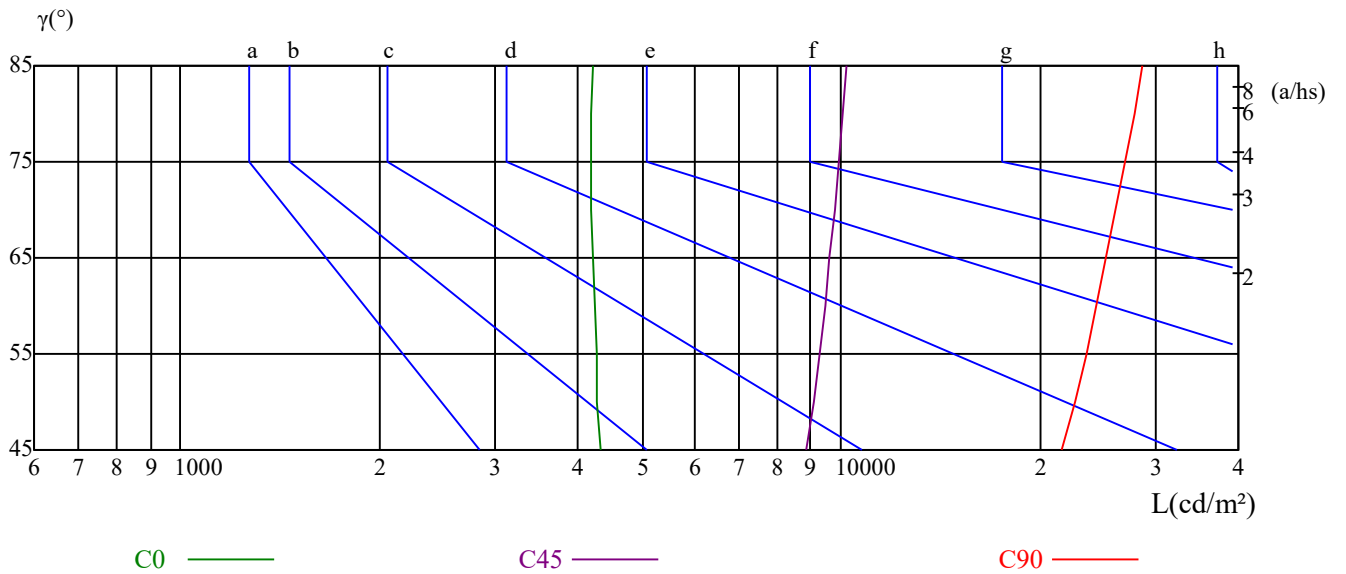
γ	45	50	55	60	65	70	75	80	85
C0	4324	4272	4256	4231	4212	4185	4178	4189	4219
C45	8851	9087	9293	9467	9619	9768	9908	10041	10185
C90	21641	22678	23578	24436	25277	26121	26926	27771	28612

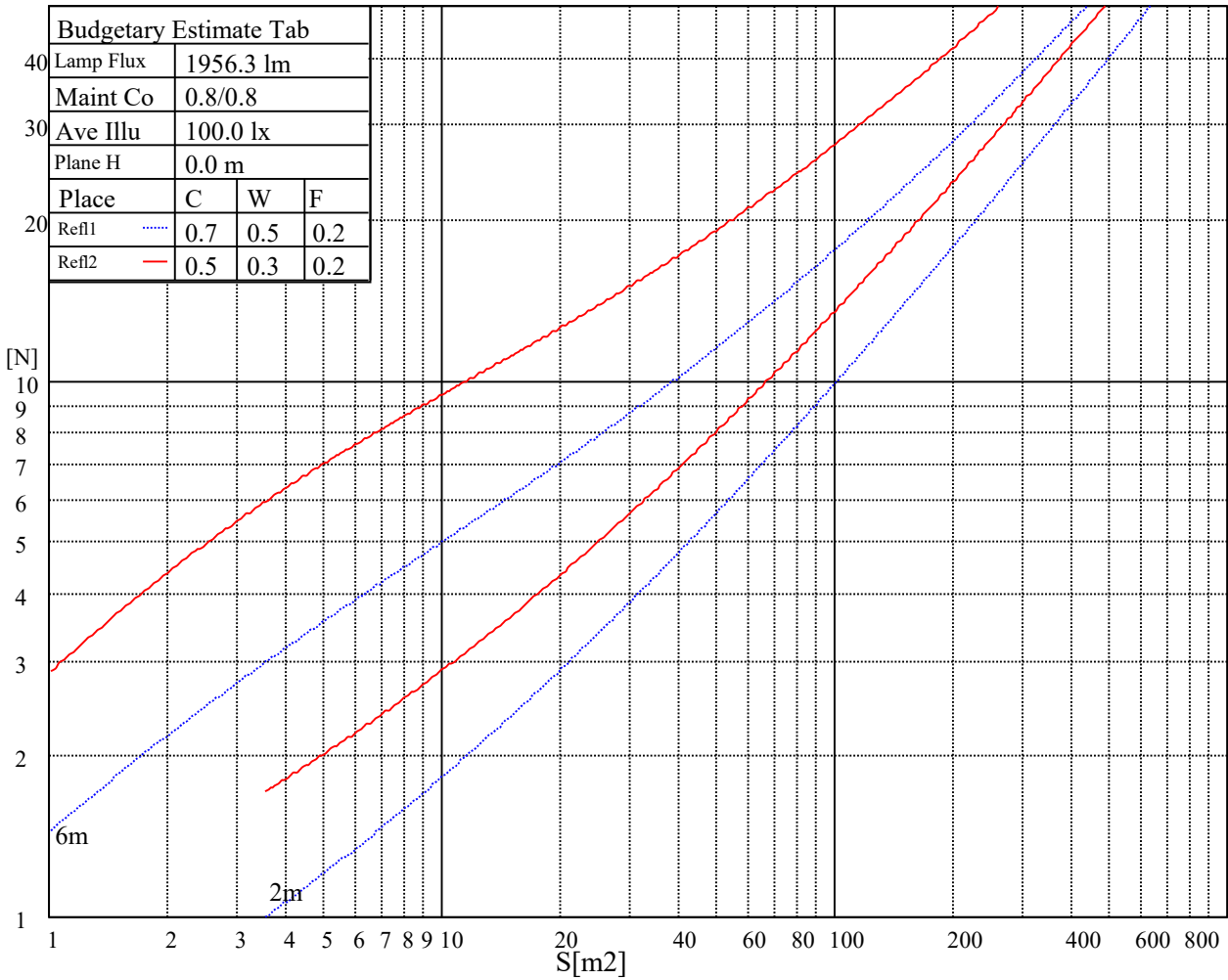
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
54797	80330	77280	91491	137032	132494	274255	417014	404316

Glare Table

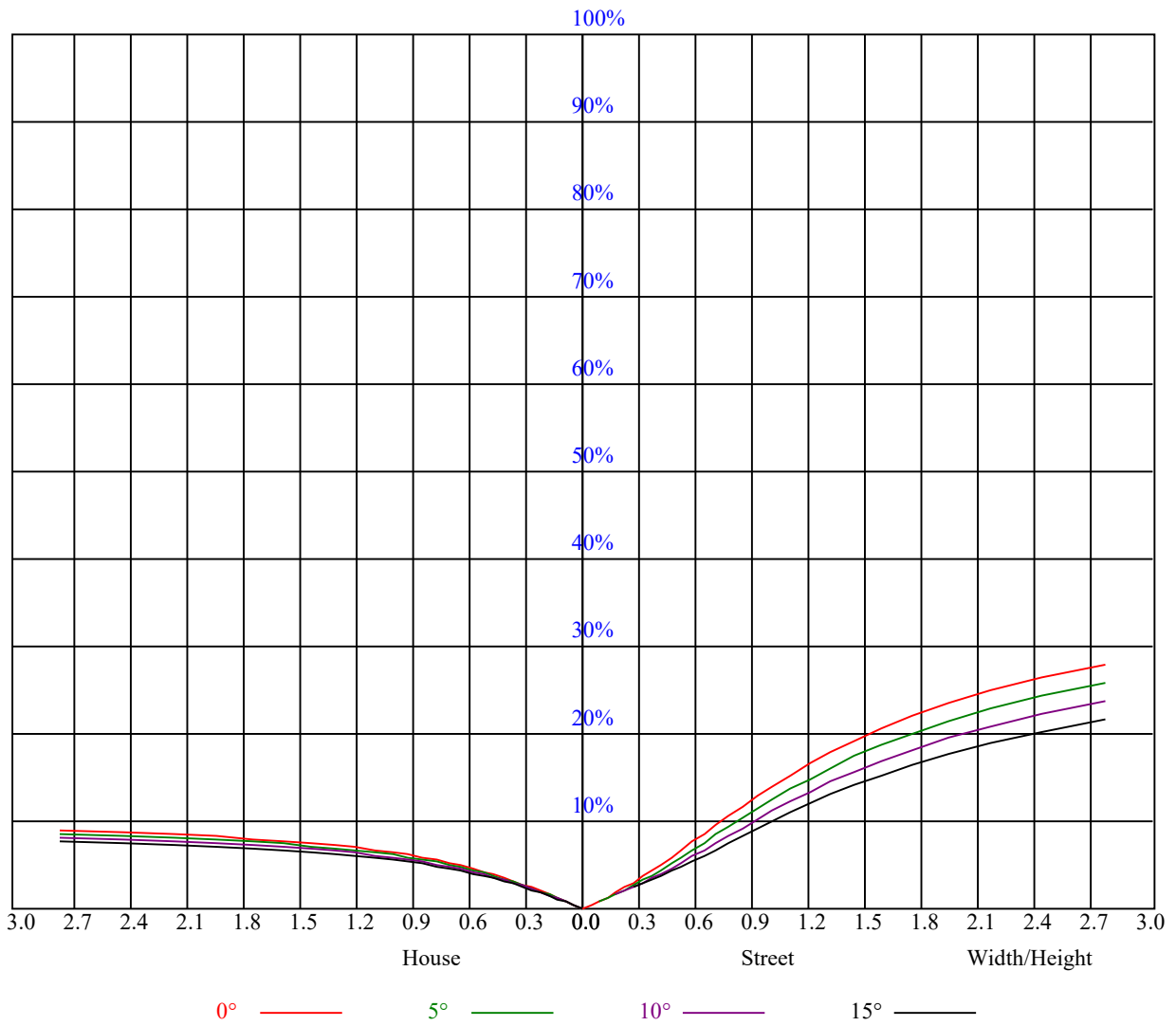
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.07	1.07	1.07	0.99	0.99	0.99	0.84	0.84	0.84	0.70	0.70	0.70	0.57	0.57	0.57	0.51
1	0.86	0.80	0.75	0.79	0.74	0.69	0.66	0.61	0.58	0.53	0.50	0.47	0.42	0.40	0.38	0.32
2	0.72	0.64	0.57	0.66	0.59	0.52	0.54	0.49	0.44	0.44	0.39	0.35	0.34	0.31	0.28	0.23
3	0.62	0.52	0.45	0.56	0.48	0.41	0.46	0.40	0.34	0.37	0.32	0.28	0.28	0.25	0.21	0.17
4	0.53	0.44	0.36	0.49	0.40	0.33	0.40	0.33	0.28	0.32	0.27	0.22	0.24	0.20	0.17	0.13
5	0.47	0.37	0.30	0.43	0.34	0.28	0.35	0.28	0.23	0.28	0.23	0.18	0.21	0.17	0.14	0.10
6	0.42	0.32	0.25	0.38	0.29	0.23	0.31	0.24	0.19	0.25	0.20	0.15	0.19	0.15	0.11	0.08
7	0.37	0.28	0.22	0.34	0.26	0.20	0.28	0.21	0.16	0.22	0.17	0.13	0.17	0.13	0.10	0.07
8	0.33	0.25	0.19	0.31	0.23	0.17	0.25	0.19	0.14	0.20	0.15	0.11	0.16	0.11	0.08	0.06
9	0.30	0.22	0.16	0.28	0.20	0.15	0.23	0.17	0.12	0.18	0.13	0.10	0.14	0.10	0.07	0.05
10	0.28	0.20	0.14	0.25	0.18	0.13	0.21	0.15	0.11	0.17	0.12	0.09	0.13	0.09	0.06	0.04



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	50.52	48.81	53.95	60.80	71.08	80.50	89.92	99.33	107.90
15.0	50.52	52.30	58.50	70.02	84.21	98.39	112.57	126.75	140.05
30.0	50.52	53.18	63.82	81.55	101.93	121.43	143.59	165.75	186.14
45.0	50.52	55.03	71.27	93.83	119.99	147.96	175.93	203.90	229.16
60.0	50.52	56.84	76.69	103.75	132.62	166.01	196.68	227.36	256.23
75.0	50.52	58.79	83.59	111.15	144.22	178.21	211.28	243.43	270.99
90.0	50.52	59.71	84.51	114.83	146.98	182.80	214.04	245.27	274.67
105.0	50.52	60.63	82.68	114.83	146.06	180.05	214.04	245.27	274.67
120.0	50.52	59.71	80.84	108.40	137.79	169.03	201.18	230.57	259.05
135.0	50.52	53.05	69.05	90.10	112.84	136.41	160.83	185.25	207.15
150.0	50.52	56.95	70.73	86.35	119.42	124.01	143.30	161.68	180.05
165.0	50.52	56.04	65.22	76.24	88.19	101.05	112.07	124.01	135.04
180.0	50.52	55.66	64.23	72.79	82.21	89.92	98.48	105.33	112.18
195.0	50.52	55.84	62.05	70.02	77.12	85.09	91.30	97.50	102.82
210.0	50.52	54.07	58.50	62.93	68.25	73.57	78.00	82.43	85.98
225.0	50.52	52.33	54.13	56.84	59.55	61.35	63.15	64.96	65.86
240.0	50.52	49.62	49.62	49.62	48.72	47.82	46.91	45.11	43.31
255.0	50.52	48.69	46.85	45.01	42.26	38.58	34.91	31.23	27.56
270.0	50.52	47.77	45.93	43.17	40.42	37.66	34.91	31.23	27.56
285.0	50.52	47.77	45.93	43.17	41.34	38.58	35.83	32.15	31.23
300.0	50.52	48.69	46.85	45.93	45.93	45.93	45.93	45.93	45.93
315.0	50.52	44.63	45.47	48.00	51.37	53.89	57.26	59.79	63.15
330.0	50.52	49.61	53.28	57.87	64.30	70.73	77.16	82.68	89.11
345.0	50.52	50.52	56.04	63.38	71.65	79.92	88.19	96.45	102.88
360.0	50.52	48.81	53.95	60.80	71.08	80.50	89.92	99.33	107.90
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	114.75	120.74	126.74	131.88	135.30	137.87	139.58	140.44	141.30
15.0	152.46	163.98	174.62	183.48	190.57	196.78	201.21	203.87	206.53
30.0	205.64	223.37	237.55	251.73	263.26	273.01	280.10	285.42	288.96
45.0	253.52	276.08	295.93	313.07	327.50	339.23	348.25	354.57	358.18
60.0	283.29	306.75	329.31	348.25	363.59	378.03	387.95	394.27	398.78
75.0	300.39	323.35	346.32	365.61	382.14	395.92	406.03	413.38	417.05
90.0	302.22	327.03	348.15	366.53	382.14	395.00	404.19	410.62	413.38
105.0	301.31	327.03	348.15	367.45	383.98	396.84	406.95	413.38	417.05
120.0	284.77	308.65	329.78	346.32	362.85	374.79	383.98	390.41	395.00
135.0	227.36	245.88	262.72	277.04	288.83	298.93	306.51	311.56	314.93
150.0	196.58	212.20	225.98	237.92	247.11	255.37	261.81	265.48	268.24
165.0	143.30	152.49	159.84	165.35	170.86	174.54	177.29	179.13	180.05
180.0	117.32	121.60	125.88	128.45	131.02	131.88	132.73	133.59	133.59
195.0	107.25	110.80	113.46	116.12	117.00	117.89	118.78	119.66	119.66
210.0	88.64	90.41	92.18	93.07	93.96	93.96	93.96	94.84	95.73
225.0	66.76	66.76	66.76	65.86	64.96	64.06	64.06	64.96	64.96
240.0	41.50	38.80	36.09	34.28	31.58	28.87	28.87	28.87	28.87
255.0	23.88	20.21	15.62	11.94	8.27	4.59	4.59	4.59	4.59
270.0	23.88	20.21	15.62	15.62	8.27	4.59	3.67	4.59	4.59
285.0	24.80	21.13	17.45	13.78	10.10	7.35	5.51	6.43	7.35
300.0	45.01	45.01	44.09	43.17	42.26	41.34	40.42	42.26	43.17
315.0	64.84	67.37	68.21	69.05	69.89	69.89	69.89	70.73	72.42
330.0	92.78	97.37	101.05	102.88	104.72	105.64	106.56	107.48	108.40
345.0	109.32	114.83	119.42	123.09	124.93	126.77	127.69	128.61	129.52
360.0	114.75	120.74	126.74	131.88	135.30	137.87	139.58	140.44	141.30

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	142.15	141.30	141.30	139.58	137.87	135.30	131.88	126.74	121.60
15.0	206.53	205.64	203.87	199.44	195.00	188.80	180.82	171.96	161.32
30.0	288.96	288.07	284.53	279.21	272.12	262.37	249.96	236.66	220.71
45.0	359.98	359.08	354.57	348.25	339.23	326.60	312.16	295.02	274.27
60.0	400.58	398.78	393.36	386.15	378.03	363.59	349.16	328.40	307.65
75.0	417.97	416.13	412.46	405.11	394.09	383.06	365.61	345.40	322.43
90.0	414.30	412.46	408.78	401.43	391.33	378.47	361.93	342.64	320.60
105.0	417.05	415.21	410.62	402.35	390.41	376.63	359.18	338.97	315.08
120.0	394.09	393.17	388.57	380.31	370.20	356.42	338.97	320.60	297.63
135.0	315.77	313.25	309.88	303.14	293.88	283.78	269.46	253.46	234.94
150.0	268.24	266.40	262.72	257.21	249.86	240.68	228.73	214.04	199.34
165.0	180.05	179.13	176.37	173.62	169.03	163.51	157.08	148.82	138.71
180.0	132.73	132.73	131.02	129.31	126.74	122.46	118.17	112.18	106.19
195.0	119.66	118.78	117.00	115.23	112.57	109.91	104.59	99.27	93.96
210.0	94.84	93.96	93.07	90.41	88.64	85.09	81.55	77.12	71.80
225.0	64.96	64.06	62.25	60.45	58.64	56.84	55.94	50.52	47.82
240.0	28.87	27.97	27.07	25.26	24.36	23.46	23.46	21.65	21.65
255.0	4.59	4.59	4.59	4.59	5.51	6.43	7.35	8.27	10.10
270.0	4.59	4.59	4.59	4.59	4.59	5.51	6.43	7.35	9.19
285.0	7.35	8.27	8.27	8.27	9.19	10.10	11.02	11.94	13.78
300.0	44.09	44.09	43.17	42.26	42.26	42.26	42.26	41.34	39.50
315.0	73.26	73.26	72.42	71.58	70.73	69.05	67.37	64.00	59.79
330.0	109.32	109.32	108.40	107.48	104.72	102.88	99.21	94.62	90.02
345.0	129.52	129.52	129.52	127.69	125.85	123.09	120.34	115.75	110.23
360.0	142.15	141.30	141.30	139.58	137.87	135.30	131.88	126.74	121.60

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	114.75	107.04	97.62	89.06	77.07	64.23	47.95	34.25	17.13
15.0	148.91	137.39	124.09	109.03	93.96	78.89	60.27	39.89	20.39
30.0	202.98	183.48	163.98	140.05	119.66	96.62	74.46	47.86	23.93
45.0	253.52	229.16	203.00	175.03	145.26	118.19	88.42	58.64	27.97
60.0	282.39	255.33	225.55	196.68	164.20	130.82	99.24	65.86	28.87
75.0	296.71	270.07	239.76	207.61	172.70	138.71	104.72	69.81	31.23
90.0	294.88	267.32	237.00	205.77	171.78	136.87	102.88	70.73	31.23
105.0	289.36	261.81	230.57	198.42	164.43	129.52	99.21	66.14	30.31
120.0	271.91	244.35	215.87	183.72	152.49	120.34	88.19	56.95	28.48
135.0	214.73	191.99	169.25	143.99	118.73	94.31	69.89	44.63	18.53
150.0	180.97	162.59	144.22	124.01	102.88	81.76	60.63	38.58	16.54
165.0	128.61	117.58	104.72	91.86	78.08	64.30	45.93	30.31	11.94
180.0	98.48	90.77	82.21	71.08	59.09	45.39	31.68	16.27	4.28
195.0	86.87	78.89	70.91	61.16	50.52	47.86	26.59	12.41	2.66
210.0	66.48	63.82	52.30	45.21	38.11	30.14	18.61	7.98	0.89
225.0	43.31	39.70	34.28	29.77	26.16	19.85	10.83	3.61	0.90
240.0	20.75	19.85	18.04	16.24	14.44	9.92	4.51	0.90	0.90
255.0	11.02	11.02	11.02	10.10	9.19	4.59	0.92	0.92	0.92
270.0	10.10	11.02	11.02	11.02	9.19	4.59	1.84	0.92	1.84
285.0	13.78	13.78	13.78	13.78	12.86	10.10	5.51	3.67	2.76
300.0	35.83	33.07	30.31	27.56	24.80	19.29	13.78	8.27	4.59
315.0	55.58	50.52	45.47	41.26	35.37	28.63	21.05	12.63	5.89
330.0	83.59	78.08	70.73	61.55	53.28	42.26	31.23	19.29	8.27
345.0	102.88	95.54	87.27	76.24	66.14	51.44	39.50	23.88	11.02
360.0	114.75	107.04	97.62	89.06	77.07	64.23	47.95	34.25	17.13

Intensity data(cd)

C/γ(°)	180.0
0.0	3.43
15.0	5.32
30.0	5.32
45.0	5.41
60.0	5.41
75.0	6.43
90.0	6.43
105.0	5.51
120.0	5.51
135.0	4.21
150.0	4.59
165.0	2.76
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	3.43