
AFX

Client:

LumCAT: AUGW0720LAJMVNP

Luminaire: LED灯具

Report No:

Ballast type:

Test No: LCZP23120165

Voltage(V): 119.950

LampCAT:

Current(A): 0.265

Lamp flux(lm): 2910.7

Power (W): 31.340

Number of Lamps: 1

PF: 0.987

Length(mm): 145

Width(mm): 40

Phm Type: C

Height(mm): 470

Photometric Results

Lumens(lm): 2910.66, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 92.87

Central intensity(cd): 38.600, Maximum intensity(cd): 826.119

Angle of maximum intensity: C=90.0 γ =95.0

Beam Angle(50%Imax): [C0/180]Total=294.4

[C90/270]Total=113.1

Field angle(10%Imax): [C0/180]Total=343.0

[C90/270]Total=161.2

Maximum s/h(1/2): C0_180=3.13 C90_270=6.66

Maximum s/h(1/4): C0_180=3.05 C90_270=6.17

Up flux rate of lamp(%): 50.64%

Down flux rate of lamp(%): 49.36%

Up flux rate of LUM(%): 50.64%

Down flux rate of LUM(%): 49.36%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 18.607%

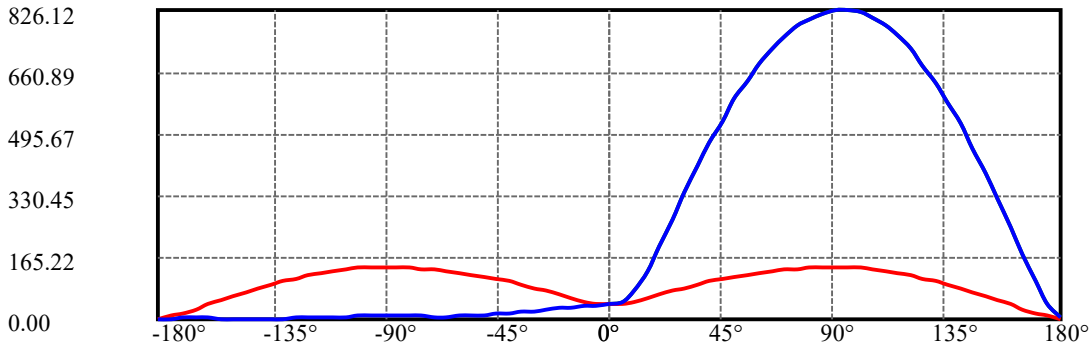
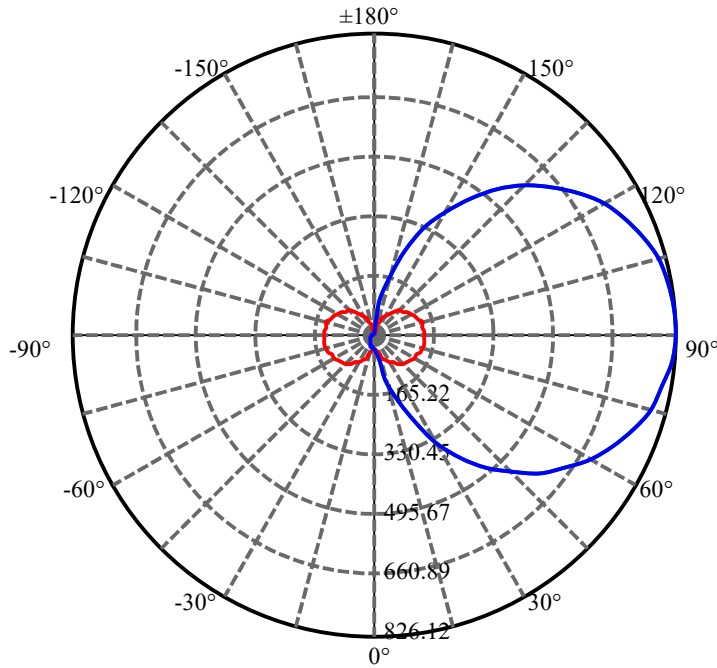
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	38.600	0.000	0	0.00%	0.00%
5.0	40.702	0.948	0.948	0.03%	0.03%
10.0	50.274	3.255	4.203	0.11%	0.14%
15.0	66.878	6.949	11.152	0.24%	0.38%
20.0	89.080	12.853	24.005	0.44%	0.82%
25.0	111.154	21.001	45.006	0.72%	1.55%
30.0	134.360	31.070	76.076	1.07%	2.61%
35.0	157.484	42.976	119.052	1.48%	4.09%
40.0	179.173	56.169	175.221	1.93%	6.02%
45.0	199.631	70.138	245.359	2.41%	8.43%
50.0	218.807	84.551	329.91	2.90%	11.33%
55.0	236.168	98.927	428.837	3.40%	14.73%
60.0	251.621	112.751	541.588	3.87%	18.61%
65.0	265.523	125.719	667.306	4.32%	22.93%
70.0	277.753	137.561	804.867	4.73%	27.65%
75.0	287.828	147.834	952.701	5.08%	32.73%
80.0	295.660	156.125	1108.827	5.36%	38.10%
85.0	301.159	162.170	1270.997	5.57%	43.67%
90.0	304.118	165.730	1436.726	5.69%	49.36%
95.0	304.489	166.641	1603.368	5.73%	55.09%
100.0	302.093	164.823	1768.191	5.66%	60.75%
105.0	296.571	160.186	1928.377	5.50%	66.25%
110.0	288.087	152.820	2081.197	5.25%	71.50%
115.0	276.566	142.974	2224.171	4.91%	76.41%
120.0	262.605	131.073	2355.244	4.50%	80.92%
125.0	246.303	117.632	2472.877	4.04%	84.96%
130.0	227.873	103.101	2575.978	3.54%	88.50%
135.0	207.530	87.979	2663.957	3.02%	91.52%
140.0	185.814	72.831	2736.788	2.50%	94.03%
145.0	162.433	58.102	2794.891	2.00%	96.02%
150.0	137.170	44.119	2839.009	1.52%	97.54%
155.0	111.443	31.462	2870.471	1.08%	98.62%
160.0	85.461	20.652	2891.123	0.71%	99.33%
165.0	59.194	11.922	2903.044	0.41%	99.74%
170.0	34.968	5.586	2908.63	0.19%	99.93%
175.0	15.438	1.803	2910.433	0.06%	99.99%
180.0	3.216	0.223	2910.656	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	76.08	2.61%	2.61%
0-40	175.22	6.02%	6.02%
0-60	541.59	18.61%	18.61%
0-90	1436.73	49.36%	49.36%
0-120	2355.24	80.92%	80.92%
0-180	2910.66	100.00%	100.00%
60-90	895.14	30.75%	30.75%
90-120	918.52	31.56%	31.56%
90-130	1139.25	39.14%	39.14%
90-150	1402.28	48.18%	48.18%
90-180	1473.71	50.63%	50.63%
0-118.98	2328.53	80.00%	80.00%

ZONAL LUMEN SUMMARY

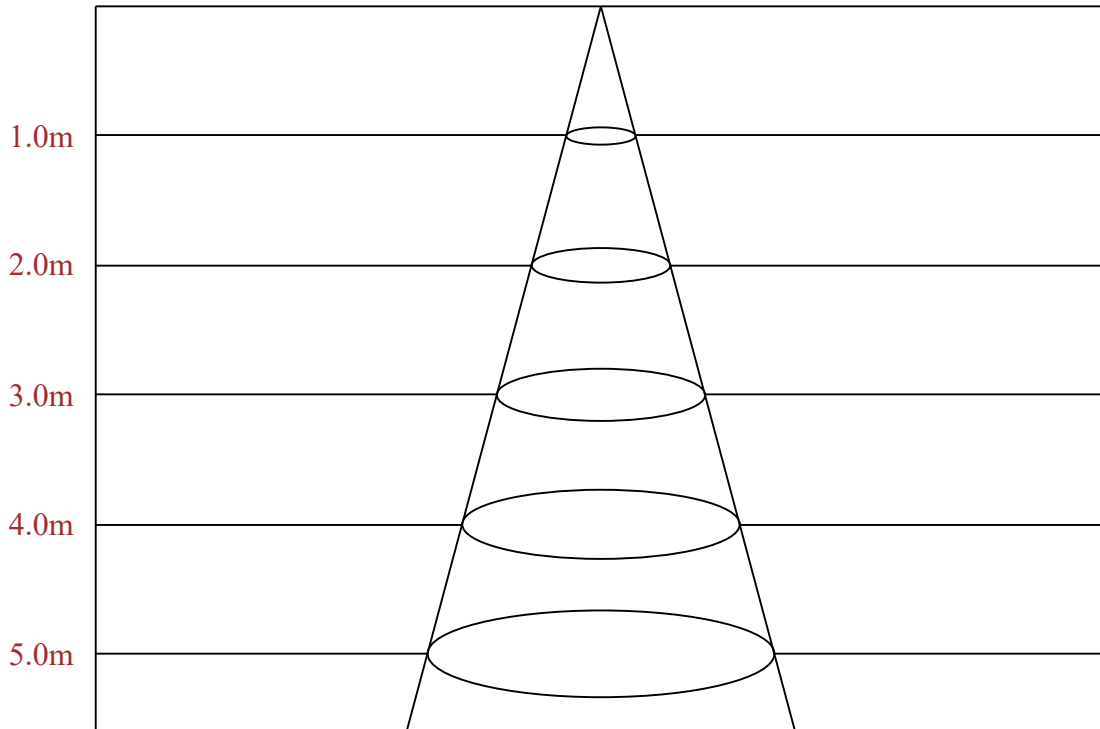
0-10	4.20
10-20	19.80
20-30	52.07
30-40	99.14
40-50	154.69
50-60	211.68
60-70	263.28
70-80	303.96
80-90	327.90
90-100	331.46
100-110	313.01
110-120	274.05
120-130	220.73
130-140	160.81
140-150	102.22
150-160	52.11
160-170	17.51
170-180	1.80



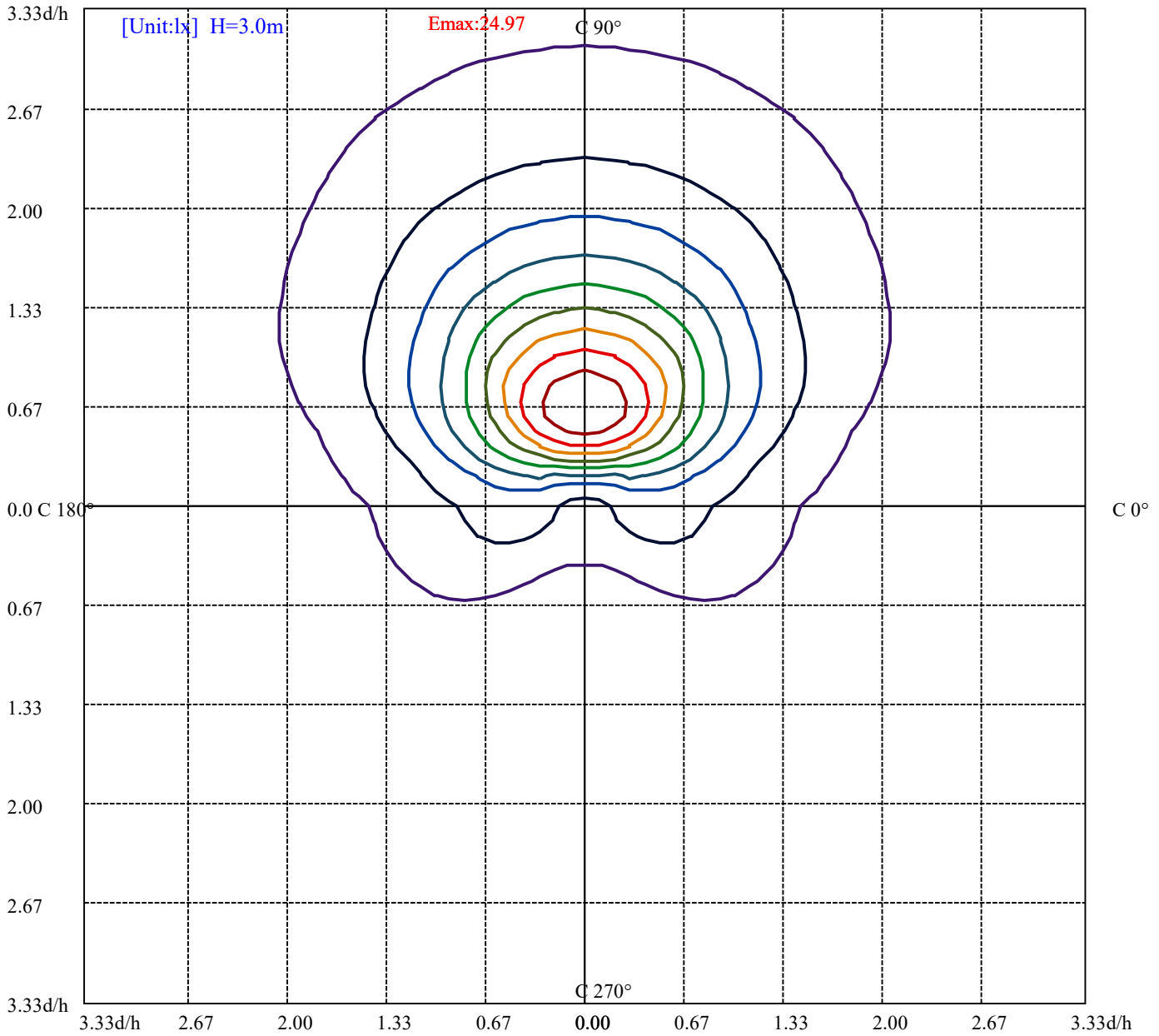
C90(Max): ———
 C0/C180: ———
 C90/C270: ———

Field angle(10%Imax):C0/180Left:261.5 Right:81.5
 :C90/270Left:84.5 Right:76.7

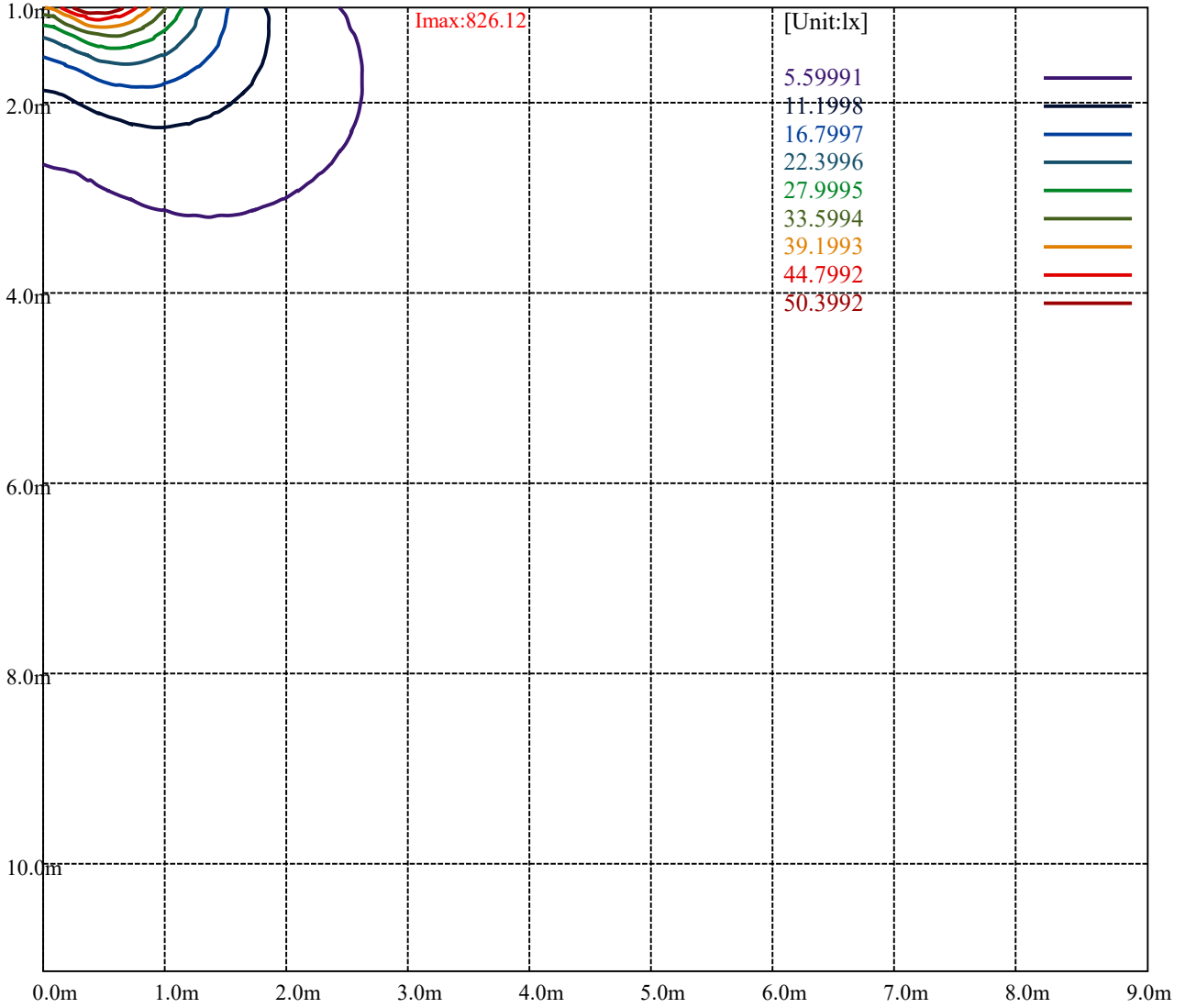
Beam Angle(50%Imax):C0/180Left:237.2 Right:57.2
 :C90/270Left:59.7 Right:53.4



Max , Ave Beam angle of C90 plane 217.23



(10%E _{max}) 2.496711	—
(20%E _{max}) 4.993433	—
(30%E _{max}) 7.490145	—
(40%E _{max}) 9.986866	—
(50%E _{max}) 12.48355	—
(60%E _{max}) 14.98033	—
(70%E _{max}) 17.477	—
(80%E _{max}) 19.97378	—
(90%E _{max}) 22.47044	—



Luminance Table

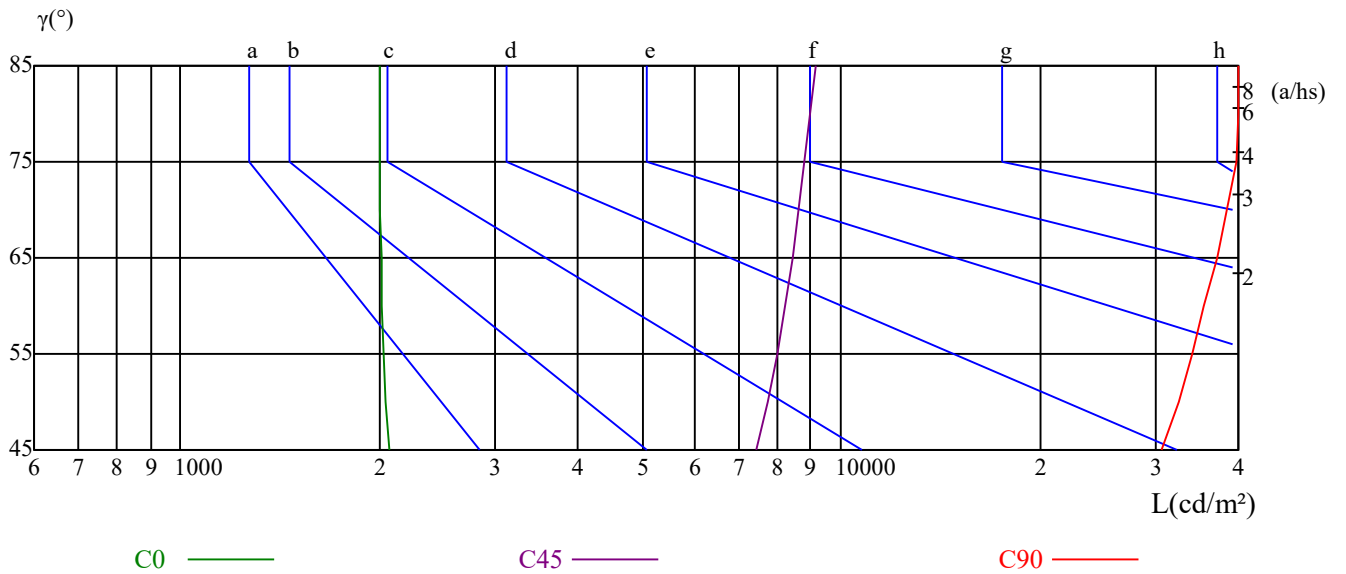
γ	45	50	55	60	65	70	75	80	85
C0	2066	2047	2034	2023	2013	2004	2002	2002	2008
C45	7440	7751	8005	8235	8448	8643	8821	8982	9135
C90	30497	32447	34003	35570	37045	38465	39828	41093	42470

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
52732	148515	111786	89774	263395	198767	271668	816570	619381

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	0.83	0.83	0.83	0.69	0.69	0.69	0.56	0.56	0.56	0.49
1	0.85	0.79	0.74	0.78	0.72	0.68	0.64	0.60	0.56	0.52	0.48	0.45	0.40	0.38	0.35	0.30
2	0.71	0.63	0.56	0.65	0.57	0.51	0.53	0.47	0.42	0.42	0.38	0.34	0.32	0.29	0.26	0.20
3	0.61	0.51	0.44	0.55	0.47	0.40	0.45	0.38	0.33	0.35	0.30	0.26	0.27	0.23	0.19	0.15
4	0.53	0.43	0.35	0.48	0.39	0.32	0.39	0.32	0.26	0.30	0.25	0.21	0.23	0.19	0.15	0.11
5	0.46	0.36	0.29	0.42	0.33	0.27	0.34	0.27	0.22	0.27	0.21	0.17	0.20	0.16	0.12	0.09
6	0.41	0.31	0.25	0.37	0.29	0.22	0.30	0.23	0.18	0.24	0.18	0.14	0.18	0.13	0.10	0.07
7	0.36	0.27	0.21	0.33	0.25	0.19	0.27	0.20	0.15	0.21	0.16	0.12	0.16	0.12	0.09	0.06
8	0.33	0.24	0.18	0.30	0.22	0.16	0.24	0.18	0.13	0.19	0.14	0.10	0.14	0.10	0.07	0.05
9	0.30	0.21	0.16	0.27	0.19	0.14	0.22	0.16	0.12	0.17	0.12	0.09	0.13	0.09	0.06	0.04
10	0.27	0.19	0.14	0.25	0.17	0.12	0.20	0.14	0.10	0.16	0.11	0.08	0.12	0.08	0.05	0.03

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	38.60	38.52	43.14	51.38	60.97	70.64	79.56	87.88	96.71
15.0	38.60	40.94	47.25	59.11	73.05	87.67	103.34	119.00	134.49
30.0	38.60	42.92	52.44	71.38	96.76	125.32	156.78	189.12	219.35
45.0	38.60	43.01	60.10	91.51	132.00	176.45	225.03	273.80	320.77
60.0	38.60	44.45	69.61	109.31	164.01	224.65	286.12	345.94	400.73
75.0	38.60	46.60	75.43	125.57	186.40	258.95	324.71	391.21	454.27
90.0	38.60	47.85	76.83	129.82	197.11	269.08	340.30	408.81	473.11
105.0	38.60	47.11	76.08	123.93	191.88	257.86	327.31	394.13	457.59
120.0	38.60	45.00	69.31	112.00	168.32	230.58	289.97	354.64	409.66
135.0	38.60	39.68	55.74	85.44	121.62	165.55	211.55	257.31	301.15
150.0	38.60	43.76	54.91	75.73	125.38	132.84	166.84	202.03	234.92
165.0	38.60	41.61	49.09	61.41	76.56	93.26	110.05	126.93	144.73
180.0	38.60	42.89	51.13	60.38	70.39	80.14	89.56	97.89	105.12
195.0	38.60	41.63	47.60	55.22	63.09	70.62	78.33	84.99	91.57
210.0	38.60	39.75	43.36	49.00	54.82	60.46	65.92	71.21	75.79
225.0	38.60	37.97	39.23	41.84	44.63	47.33	49.85	52.37	54.53
240.0	38.60	36.31	35.49	34.67	33.75	32.84	31.74	30.64	29.54
255.0	38.60	35.81	33.95	31.72	29.48	26.88	23.72	20.56	17.58
270.0	38.60	35.52	33.46	31.22	28.97	26.17	22.99	19.91	17.01
285.0	38.60	35.52	33.55	31.50	29.07	26.64	23.37	20.47	19.81
300.0	38.60	36.00	34.70	33.50	33.31	30.99	29.69	28.39	26.91
315.0	38.60	33.61	34.52	36.60	39.02	41.26	43.51	45.59	47.09
330.0	38.60	39.43	42.93	48.46	54.54	60.43	65.78	70.94	75.45
345.0	38.60	40.97	46.72	54.39	62.78	71.09	78.66	85.87	92.26
360.0	38.60	38.52	43.14	51.38	60.97	70.64	79.56	87.88	96.71
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	104.03	111.09	117.31	122.53	126.73	129.68	132.28	133.88	135.06
15.0	149.90	164.61	178.55	190.58	202.17	212.13	220.61	227.45	232.81
30.0	250.37	279.90	307.13	332.07	354.19	373.14	388.29	400.98	410.41
45.0	365.13	406.43	444.13	476.88	506.84	532.48	553.90	570.18	581.97
60.0	456.71	504.00	549.37	589.89	625.47	655.75	680.53	699.01	712.37
75.0	513.24	567.75	617.60	659.37	698.34	732.19	759.35	780.00	794.23
90.0	530.50	588.26	636.76	682.28	722.00	755.83	783.03	802.19	816.87
105.0	516.66	571.25	620.87	663.77	704.43	736.77	763.97	784.62	798.83
120.0	464.50	515.35	561.93	603.50	640.06	671.14	694.80	715.96	728.39
135.0	342.83	381.51	415.45	447.81	476.10	500.55	520.27	535.66	546.31
150.0	268.54	300.33	329.71	356.61	380.38	401.11	418.25	430.96	440.82
165.0	160.51	177.03	192.73	206.69	220.10	231.97	241.82	249.94	256.15
180.0	112.02	117.90	123.37	127.99	131.78	134.89	137.25	138.93	139.60
195.0	96.93	102.04	106.28	109.83	112.51	114.68	116.23	117.62	118.14
210.0	79.67	83.46	86.45	88.83	90.77	92.45	94.03	95.53	96.76
225.0	56.42	58.22	59.38	60.37	61.18	62.53	64.69	66.31	67.21
240.0	28.45	27.35	26.25	25.34	24.70	26.07	27.44	28.45	29.18
255.0	14.70	11.91	9.49	7.16	6.32	7.16	7.91	8.00	8.74
270.0	14.11	11.40	8.88	8.32	6.08	7.01	7.76	8.41	8.69
285.0	14.67	11.87	9.35	7.01	6.08	6.92	7.57	8.13	8.60
300.0	25.33	24.22	22.92	21.62	20.69	21.99	23.29	24.40	25.15
315.0	48.50	49.66	50.75	51.41	51.91	52.83	54.66	56.15	56.90
330.0	79.60	83.00	86.14	88.26	90.19	91.39	92.95	94.80	95.81
345.0	97.82	102.84	107.22	110.78	113.52	115.44	116.99	118.26	118.81
360.0	104.03	111.09	117.31	122.53	126.73	129.68	132.28	133.88	135.06

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	135.31	135.31	134.39	132.54	128.58	123.45	117.40	110.59	102.93
15.0	236.36	237.75	236.88	233.16	226.32	216.80	205.20	192.65	177.68
30.0	415.79	417.55	414.64	407.15	395.87	377.98	358.95	335.33	308.80
45.0	588.81	590.07	586.11	575.76	559.48	537.25	509.81	479.31	442.96
60.0	719.87	721.15	715.66	703.04	683.92	658.22	625.93	588.15	545.16
75.0	802.14	804.00	798.14	784.19	763.35	735.36	699.83	659.83	612.95
90.0	824.90	826.12	819.67	805.84	786.21	757.52	721.53	679.57	631.72
105.0	806.68	807.24	801.07	787.43	766.86	737.89	702.47	662.93	615.92
120.0	736.19	737.30	731.55	718.74	700.19	673.46	640.34	601.92	559.80
135.0	551.80	553.05	548.97	539.57	524.18	503.63	478.01	449.48	415.78
150.0	446.34	447.73	444.69	437.13	423.59	406.36	385.08	359.84	331.46
165.0	259.62	260.71	259.89	255.78	248.21	238.08	225.58	211.53	194.92
180.0	139.68	139.35	137.92	134.64	129.84	124.04	117.31	109.07	100.75
195.0	118.14	117.79	116.49	113.64	109.40	104.20	98.14	91.22	83.69
210.0	96.76	95.97	94.56	92.36	88.92	84.69	79.67	73.68	67.24
225.0	67.39	66.58	65.23	63.25	61.00	57.86	57.05	49.76	45.17
240.0	29.18	28.90	28.72	27.17	25.70	24.24	22.41	20.21	18.02
255.0	8.74	8.65	8.09	7.53	6.60	5.86	5.02	4.09	3.26
270.0	8.79	8.51	8.04	7.57	6.54	5.51	4.49	3.27	2.52
285.0	8.60	8.32	7.94	7.29	6.45	5.70	4.67	3.65	2.80
300.0	25.42	25.15	24.59	23.66	22.45	21.06	19.39	17.44	15.59
315.0	57.15	56.49	55.49	53.91	51.74	49.08	46.00	42.34	38.35
330.0	96.09	95.44	93.97	91.76	88.26	83.93	78.86	72.96	66.61
345.0	119.09	118.63	117.53	114.61	110.42	105.40	99.37	92.44	84.87
360.0	135.31	135.31	134.39	132.54	128.58	123.45	117.40	110.59	102.93
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	95.11	85.53	76.44	66.10	55.67	43.56	32.21	20.10	10.43
15.0	160.98	143.06	124.11	105.50	85.68	66.30	47.17	29.34	13.59
30.0	278.93	248.43	214.33	178.72	141.71	107.87	74.29	44.59	18.95
45.0	402.47	358.47	313.30	261.02	211.09	158.09	108.96	62.08	27.08
60.0	497.23	447.47	390.94	330.66	268.01	206.26	140.59	82.23	33.20
75.0	560.59	502.92	444.04	377.91	308.52	236.53	163.79	95.06	40.83
90.0	580.59	522.27	459.09	391.42	323.29	246.09	174.12	102.25	43.09
105.0	563.30	505.82	447.50	381.24	311.32	239.17	166.18	100.19	43.18
120.0	508.95	457.91	400.57	339.61	275.40	212.49	146.61	85.92	36.28
135.0	378.18	337.25	295.57	246.24	200.40	151.16	104.99	59.15	26.62
150.0	301.89	267.44	231.14	192.72	153.76	117.27	80.52	47.26	21.00
165.0	176.48	156.50	136.88	113.98	93.26	71.63	50.83	30.75	14.60
180.0	91.16	81.15	70.30	59.37	47.35	35.15	22.71	12.45	5.38
195.0	75.90	67.25	58.16	48.47	38.60	36.18	19.13	9.95	4.76
210.0	60.46	58.78	45.83	37.98	29.88	22.03	14.36	8.20	3.79
225.0	40.31	35.63	30.14	25.10	19.53	14.22	9.45	6.12	2.88
240.0	16.01	13.90	12.07	10.15	8.42	6.77	5.49	4.02	1.55
255.0	2.79	2.60	2.60	2.88	2.98	3.16	3.53	3.26	2.05
270.0	2.15	1.68	1.78	2.06	2.15	2.71	3.08	3.27	2.43
285.0	2.34	2.06	2.24	2.34	2.71	2.99	3.55	3.18	2.80
300.0	13.73	12.34	10.95	9.65	8.17	6.96	5.94	4.36	3.25
315.0	34.36	30.20	26.20	21.80	17.30	13.06	8.98	5.99	3.41
330.0	60.16	53.06	45.51	37.77	30.12	22.20	14.92	8.75	4.24
345.0	76.65	67.80	58.68	49.37	39.33	29.20	19.25	10.77	5.11
360.0	95.11	85.53	76.44	66.10	55.67	43.56	32.21	20.10	10.43

Intensity data(cd)

C/γ(°)	180.0
0.0	4.79
15.0	4.93
30.0	5.20
45.0	5.85
60.0	6.31
75.0	6.79
90.0	7.10
105.0	8.22
120.0	8.81
135.0	7.24
150.0	6.45
165.0	5.48
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	4.79