乐达凯

Client:
LumCAT: EMAF06LAJD1LB
Luminaire: LED lamp
Report No:
Ballast type:

Test No: LCZP25010158	Voltage(V): 119.970
LampCAT:	Current(A): 0.136
Lamp flux(lm): 759.5	Power (W): 15.420
Number of Lamps: 1	PF: 0.944
Length(mm): -140	Width(mm): -140
Phm Type: C	Height(mm): 20

Photometric Results

Lumens(lm): 759.46, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 49.25
Central intensity(cd): 215.585, Maximum intensity(cd): 215.585
Angle of maximum intensity: C=60.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=115.8
[C90/270]Total=118.0
Field angle(10%Imax): [C0/180]Total=174.0
[C90/270]Total=173.6
Maximum s/h(1/2): C0_180=1.26 C90_270=1.25
Maximum s/h(1/4): C0_180=1.38 C90_270=1.38
Up flux rate of lamp(%): 12.81%
Down flux rate of lamp(%): 87.19%
Up flux rate of LUM(%): 12.81%
Down flux rate of LUM(%): 87.19%
CIE Type : Semidirect lighting
Output flux ratio in π solid angle : 64.359%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	215.585	0.000	0	0.00%	0.00%
5.0	214.561	5.142	5.142	0.68%	0.68%
10.0	211.649	15.247	20.389	2.01%	2.68%
15.0	206.980	24.833	45.222	3.27%	5.95%
20.0	200.406	33.574	78.796	4.42%	10.38%
25.0	191.823	41.138	119.934	5.42%	15.79%
30.0	181.714	47.271	167.205	6.22%	22.02%
35.0	170.361	51.845	219.051	6.83%	28.84%
40.0	158.135	54.807	273.858	7.22%	36.06%
45.0	144.172	55.975	329.832	7.37%	43.43%
50.0	130.103	55.421	385.254	7.30%	50.73%
55.0	115.587	53.421	438.675	7.03%	57.76%
60.0	101.205	50.111	488.786	6.60%	64.36%
65.0	85.775	45.455	534.241	5.99%	70.34%
70.0	70.610	39.598	573.839	5.21%	75.56%
75.0	55.796	33.040	606.879	4.35%	79.91%
80.0	41.250	25.967	632.846	3.42%	83.33%
85.0	25.460	18.127	650.972	2.39%	85.71%
90.0	15.499	11.215	662.188	1.48%	87.19%
95.0	13.143	7.842	670.03	1.03%	88.22%
100.0	13.215	7.162	677.192	0.94%	89.17%
105.0	16.339	7.908	685.1	1.04%	90.21%
110.0	18.922	9.217	694.317	1.21%	91.42%
115.0	19.988	9.852	704.169	1.30%	92.72%
120.0	20.014	9.725	713.894	1.28%	94.00%
125.0	19.383	9.107	723	1.20%	95.20%
130.0	18.415	8.219	731.219	1.08%	96.28%
135.0	17.125	7.181	738.4	0.95%	97.23%
140.0	15.652	6.069	744.469	0.80%	98.03%
145.0	13.835	4.920	749.389	0.65%	98.67%
150.0	11.894	3.789	753.177	0.50%	99.17%
155.0	9.826	2.749	755.926	0.36%	99.53%
160.0	7.575	1.825	757.751	0.24%	99.77%
165.0	5.157	1.049	758.8	0.14%	99.91%
170.0	2.916	0.479	759.279	0.06%	99.98%
175.0	1.551	0.160	759.439	0.02%	100.00%
180.0	0.594	0.026	759.465	0.00%	100.00%

Zonal flux distribution table

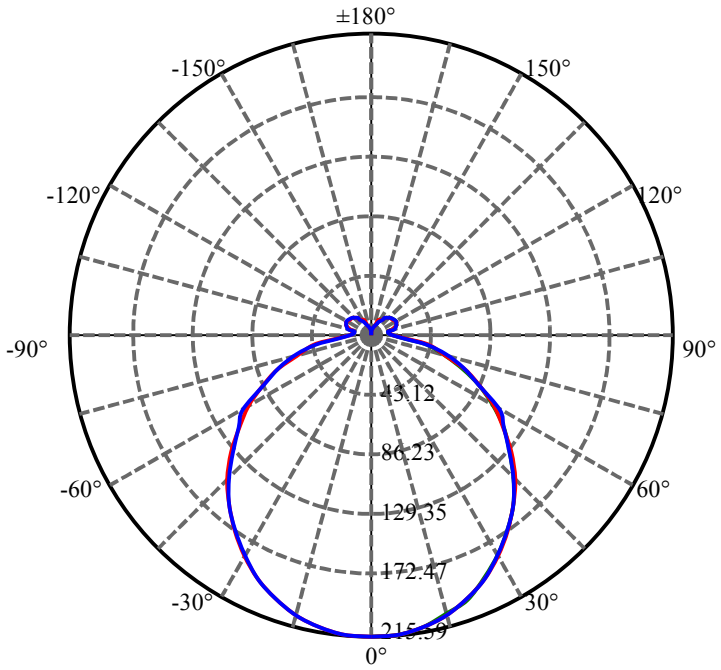
ZONAL LUMEN SUMMARY

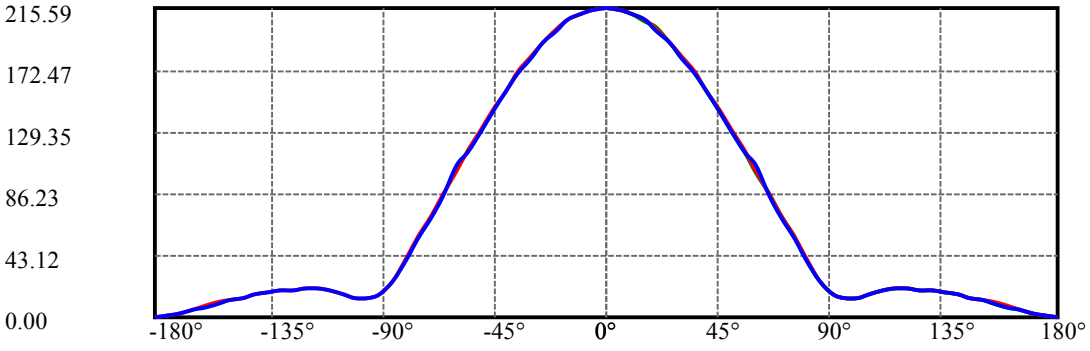
Zone	Lumens	%Lamp	%Fixt
0-30	167.21	22.02%	22.02%
0-40	273.86	36.06%	36.06%
0-60	488.79	64.36%	64.36%
0-90	662.19	87.19%	87.19%
0-120	713.89	94.00%	94.00%
0-180	759.46	100.00%	100.00%
60-90	173.40	22.83%	22.83%
90-120	51.71	6.81%	6.81%
90-130	69.03	9.09%	9.09%
90-150	90.99	11.98%	11.98%
90-180	97.25	12.81%	12.81%
0-75.13	607.57	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	20.39
10-20	58.41
20-30	88.41
30-40	106.65
40-50	111.40
50-60	103.53
60-70	85.05
70-80	59.01
80-90	29.34
90-100	15.00
100-110	17.12
110-120	19.58
120-130	17.33
130-140	13.25
140-150	8.71
150-160	4.57
160-170	1.53
170-180	0.16

Light Distribution Curve [Unit:cd]





C60(Max):

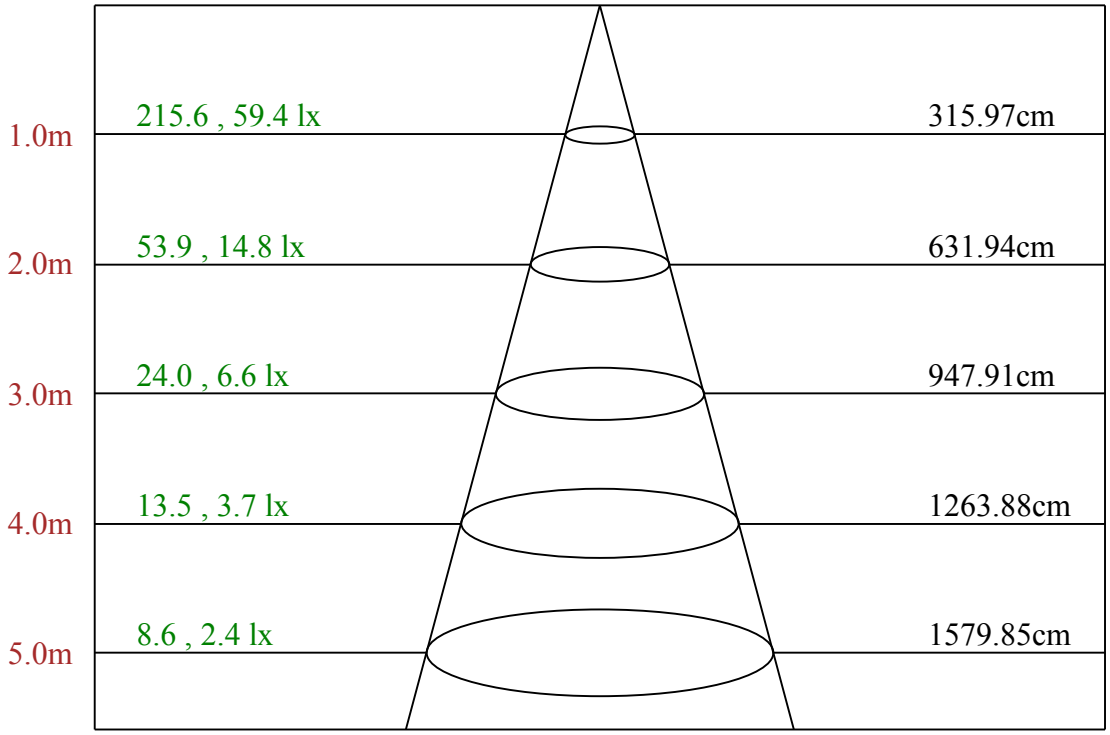
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:87.0 Right:87.0
:C90/270Left:86.8 Right:86.8

Beam Angle(50%Imax):C0/180Left:57.9 Right:57.9
:C90/270Left:59.0 Right:59.0

Lux distance Curve



Max , Ave

Beam angle of C60 plane 115.33

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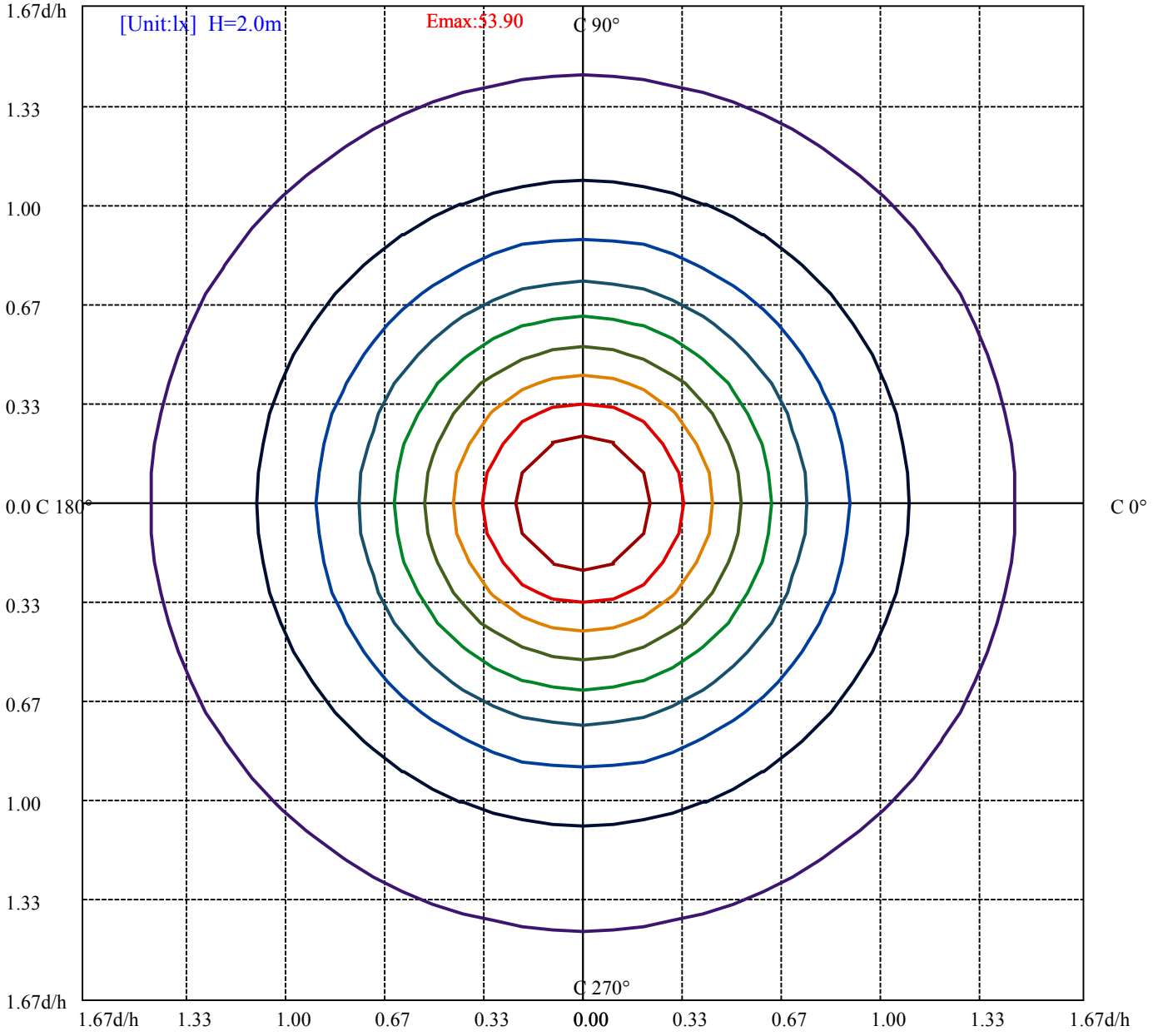
ISO illuminance diagram

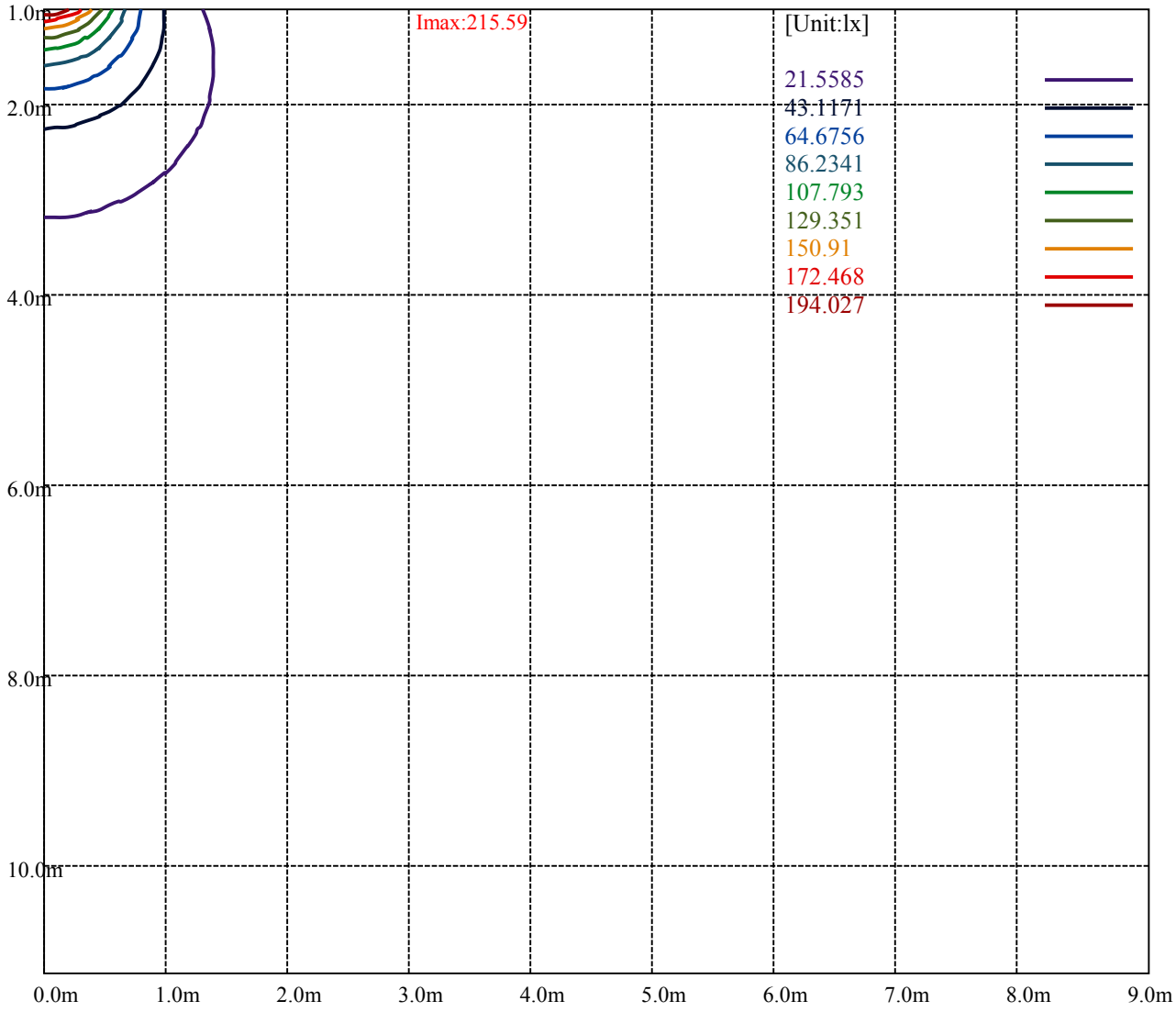


Equipment: LC-I-902 GMS-2000
Temperature(°C): 25.1

Date: 2025/2/22
Humidity(%): 51.9%

Operator: JUN WANG
Distance(m): 29.95

Space ISO Lux diagram



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Date: 2025/2/22
Humidity(%): 51.9%

Operator: JUN WANG
Distance(m): 29.95

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Luminance Limitting Curve(no luminous side)

Luminance Table

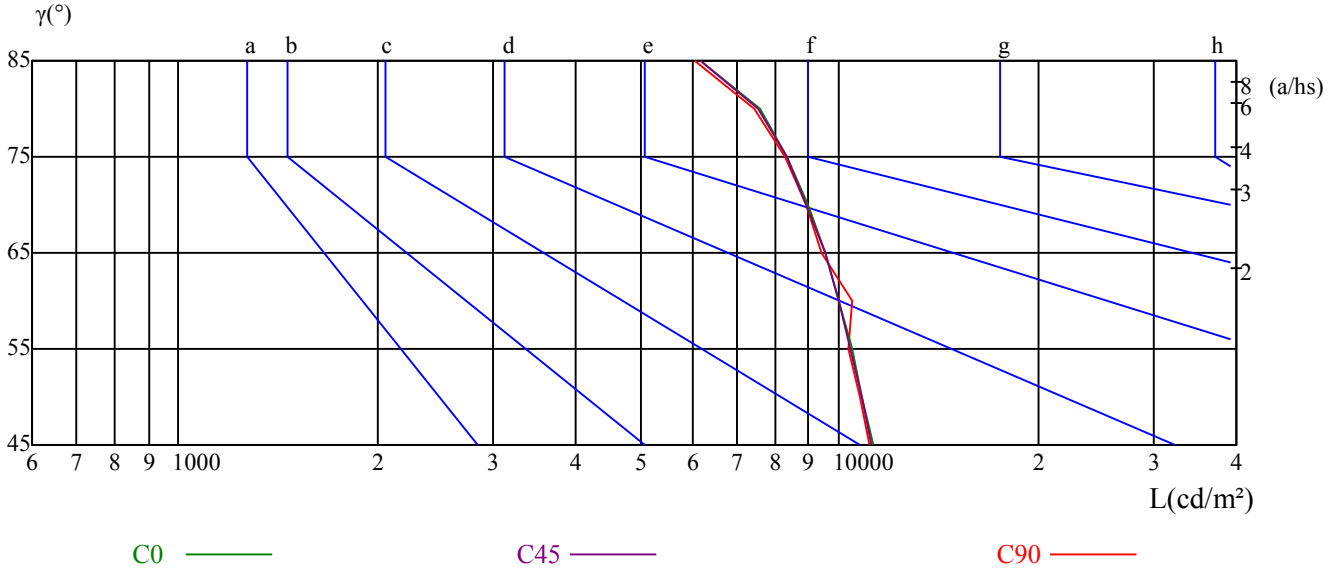
γ	45	50	55	60	65	70	75	80	85
C0	11277	10844	10460	10017	9538	8990	8350	7586	6181
C45	11225	10817	10387	9967	9520	8942	8345	7547	6173
C90	11166	10753	10327	10476	9394	8894	8277	7449	6052

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
13258	13059	13233	14017	13895	14010	19031	18634	19007

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 Limitting Curve



Utilization factor table for indoor luminaire

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	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.16	1.16	1.16	1.12	1.12	1.12	1.04	1.04	1.04	0.97	0.97	0.97	0.90	0.90	0.90	0.87
1	0.99	0.95	0.91	0.96	0.92	0.88	0.89	0.86	0.83	0.83	0.80	0.78	0.78	0.75	0.73	0.70
2	0.86	0.79	0.73	0.83	0.76	0.71	0.77	0.72	0.67	0.72	0.68	0.64	0.67	0.64	0.61	0.58
3	0.75	0.67	0.60	0.73	0.65	0.59	0.68	0.61	0.56	0.63	0.58	0.53	0.59	0.55	0.51	0.48
4	0.66	0.57	0.50	0.64	0.56	0.49	0.60	0.53	0.47	0.56	0.50	0.45	0.53	0.48	0.43	0.41
5	0.59	0.50	0.43	0.57	0.49	0.42	0.54	0.46	0.41	0.50	0.44	0.39	0.47	0.42	0.38	0.35
6	0.53	0.44	0.38	0.51	0.43	0.37	0.48	0.41	0.36	0.45	0.39	0.34	0.43	0.37	0.33	0.31
7	0.48	0.39	0.33	0.47	0.38	0.32	0.44	0.37	0.31	0.41	0.35	0.30	0.39	0.33	0.29	0.27
8	0.44	0.35	0.29	0.42	0.34	0.29	0.40	0.33	0.28	0.38	0.32	0.27	0.36	0.30	0.26	0.24
9	0.40	0.32	0.26	0.39	0.31	0.26	0.37	0.30	0.25	0.35	0.29	0.24	0.33	0.28	0.24	0.22
10	0.37	0.29	0.24	0.36	0.28	0.23	0.34	0.27	0.23	0.32	0.26	0.22	0.31	0.25	0.21	0.20

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	215.59	215.15	212.87	208.39	202.77	194.79	185.14	174.08	161.62
15.0	215.59	215.14	212.58	208.60	202.59	194.72	184.90	174.47	161.47
30.0	215.59	215.05	212.65	208.38	202.87	194.95	185.26	174.14	161.96
45.0	215.59	215.23	212.90	208.70	202.80	194.67	185.46	173.76	162.14
60.0	215.59	215.05	212.63	208.50	202.86	194.34	184.93	173.90	161.53
75.0	215.59	214.96	212.71	208.49	202.47	194.38	185.03	173.35	161.58
90.0	215.59	215.04	212.52	208.56	202.16	194.50	184.14	173.42	161.08
105.0	215.59	214.95	212.61	208.46	202.32	194.11	184.36	173.08	161.26
120.0	215.59	215.04	212.51	208.09	201.94	194.35	184.41	173.39	160.92
135.0	215.59	215.59	212.86	208.87	202.80	194.63	184.66	173.50	161.80
150.0	215.59	215.04	212.50	208.42	196.46	194.28	184.22	173.70	161.46
165.0	215.59	215.13	212.50	208.33	202.25	194.18	184.84	173.96	160.26
180.0	215.59	214.01	210.67	205.58	198.74	189.26	179.26	167.68	154.87
195.0	215.59	214.08	210.46	205.59	198.52	189.59	178.98	167.48	154.57
210.0	215.59	213.98	210.60	205.62	198.24	189.79	178.85	167.74	154.84
225.0	215.59	214.07	210.85	205.49	198.60	189.58	179.12	167.32	154.45
240.0	215.59	214.06	210.66	205.55	198.64	189.05	179.01	167.18	154.36
255.0	215.59	213.88	210.64	205.43	198.15	188.90	178.38	166.52	153.58
270.0	215.59	213.96	210.63	205.32	198.02	189.19	178.56	166.58	153.69
285.0	215.59	213.96	210.62	205.39	198.08	188.78	178.05	166.77	162.97
300.0	215.59	213.96	210.53	205.19	203.48	188.57	177.82	165.80	153.42
315.0	215.59	214.22	210.87	205.79	198.08	189.28	178.58	166.70	153.73
330.0	215.59	213.95	210.60	205.43	198.54	188.93	178.32	167.08	153.58
345.0	215.59	213.95	210.60	205.34	198.35	188.92	178.85	167.06	154.09
360.0	215.59	215.15	212.87	208.39	202.77	194.79	185.14	174.08	161.62

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	148.90	134.16	120.38	105.38	90.20	74.76	59.49	44.40	28.60
15.0	148.73	134.67	120.08	105.05	89.84	75.07	59.25	45.01	29.09
30.0	148.44	134.39	119.71	105.57	90.09	74.89	59.50	44.65	29.71
45.0	148.73	134.70	119.14	105.11	90.54	74.36	59.97	45.05	29.41
60.0	148.00	134.01	119.94	104.25	89.91	74.58	59.43	44.55	29.13
75.0	147.38	133.99	119.25	104.42	89.42	74.14	59.76	44.30	29.57
90.0	147.48	133.42	118.92	104.77	88.92	74.50	59.55	44.77	29.28
105.0	147.81	133.74	119.21	104.50	89.43	74.18	60.01	44.49	29.78
120.0	147.46	133.45	118.91	104.18	90.08	74.90	59.90	45.00	29.55
135.0	147.84	134.41	119.90	105.12	90.15	74.92	59.95	45.80	30.20
150.0	148.04	134.08	119.67	105.71	90.02	75.61	60.56	45.69	30.01
165.0	148.02	134.77	120.35	105.57	90.61	75.37	61.13	45.44	30.66
180.0	141.27	126.96	112.31	97.40	82.30	67.21	52.21	37.99	22.46
195.0	140.86	126.54	112.66	97.09	82.59	67.47	52.53	37.49	22.02
210.0	141.14	126.83	112.24	97.30	82.18	66.97	52.83	37.89	22.23
225.0	141.31	126.38	112.35	97.51	82.32	67.04	52.29	37.27	21.72
240.0	140.56	126.39	111.69	96.72	81.57	67.14	52.35	37.29	21.69
255.0	139.83	126.26	111.70	96.69	81.51	66.41	51.58	48.26	21.30
270.0	139.82	125.50	110.81	107.30	80.99	65.95	51.17	36.13	20.72
285.0	139.33	125.16	110.36	95.47	81.22	65.33	51.26	36.19	20.85
300.0	138.96	125.41	110.68	95.78	80.78	65.60	51.41	35.51	20.96
315.0	139.76	125.43	110.74	95.78	81.35	66.12	51.06	35.83	20.68
330.0	140.25	125.92	111.24	96.19	81.05	65.82	50.77	35.27	20.85
345.0	140.22	125.89	111.83	96.05	81.54	66.30	51.15	35.73	20.59
360.0	148.90	134.16	120.38	105.38	90.20	74.76	59.49	44.40	28.60

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	16.58	13.60	12.72	15.36	18.25	19.83	20.09	19.65	18.95
15.0	16.45	13.53	12.65	15.39	18.39	19.81	20.07	19.72	19.01
30.0	16.28	13.43	12.72	15.56	18.50	19.74	20.10	19.57	18.68
45.0	16.45	13.32	12.51	15.55	18.41	19.75	19.84	19.40	18.59
60.0	16.67	13.27	12.37	15.24	18.11	19.54	19.81	19.27	18.56
75.0	16.45	13.12	12.31	14.92	17.97	19.41	19.59	19.23	18.51
90.0	16.58	13.06	12.07	14.77	17.84	19.28	19.55	19.28	18.56
105.0	16.51	13.08	12.09	14.53	17.42	19.22	19.58	19.31	18.59
120.0	16.81	13.01	12.11	14.28	17.35	19.16	19.61	19.34	18.70
135.0	16.60	13.06	12.24	14.24	17.41	19.14	19.77	19.50	18.77
150.0	16.68	13.24	12.24	14.41	17.50	19.31	19.85	19.58	18.68
165.0	16.96	13.33	12.15	14.51	17.60	19.05	19.59	19.23	18.50
180.0	14.48	13.07	13.51	16.76	19.04	19.74	19.65	18.86	17.72
195.0	14.33	13.00	13.88	17.33	19.54	20.16	19.98	19.01	17.77
210.0	14.41	13.07	14.05	17.88	20.19	20.72	20.37	19.39	18.23
225.0	14.48	13.05	14.21	17.97	20.29	20.83	20.74	19.40	18.23
240.0	14.43	13.00	12.91	17.93	20.35	20.80	20.44	19.36	18.11
255.0	14.38	12.94	14.38	18.15	20.31	20.76	20.31	19.41	18.24
270.0	14.41	13.06	14.23	18.02	20.18	20.81	20.18	19.46	18.20
285.0	14.35	12.99	14.26	18.05	20.03	20.57	20.21	19.31	18.14
300.0	14.28	13.01	14.37	17.89	20.06	20.60	20.24	19.52	18.25
315.0	14.42	13.06	14.42	17.87	19.95	20.50	20.23	19.41	18.32
330.0	14.51	13.05	14.41	17.86	19.76	20.49	20.31	19.49	18.31
345.0	14.51	13.06	14.33	17.69	19.68	20.50	20.23	19.50	18.32
360.0	16.58	13.60	12.72	15.36	18.25	19.83	20.09	19.65	18.95

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	17.72	16.50	14.92	13.07	11.06	8.69	6.41	3.51	1.67
15.0	17.77	16.36	15.03	13.09	11.23	8.84	6.37	3.45	1.95
30.0	17.70	16.36	14.94	13.07	11.03	8.80	6.31	3.56	2.05
45.0	17.61	16.18	14.75	13.14	10.99	8.58	5.99	3.66	1.97
60.0	17.48	16.14	14.52	12.91	10.85	8.43	5.92	3.76	1.97
75.0	17.34	15.91	14.11	12.22	10.33	8.45	5.75	3.68	1.98
90.0	17.48	16.13	14.23	12.34	10.00	7.75	5.59	3.51	1.98
105.0	17.60	16.24	14.53	12.36	10.47	7.49	5.59	3.34	1.80
120.0	17.62	16.26	14.55	12.38	10.48	7.50	5.60	3.61	1.81
135.0	17.69	16.23	14.42	12.61	10.16	7.98	5.90	3.63	1.72
150.0	17.32	15.96	14.32	12.15	10.24	8.34	5.98	3.63	1.72
165.0	17.32	15.96	14.42	12.52	10.61	8.43	6.17	3.90	1.72
180.0	16.50	14.74	13.07	11.14	9.13	6.76	4.65	2.28	1.23
195.0	16.36	14.59	12.73	10.96	9.02	8.40	4.51	2.48	1.24
210.0	16.81	16.36	12.81	11.03	8.98	6.85	4.45	2.40	1.25
225.0	16.45	14.84	13.05	11.08	9.03	6.79	4.56	2.32	1.25
240.0	16.67	15.06	13.36	11.29	9.23	6.90	4.39	2.24	1.25
255.0	16.71	15.10	13.39	11.32	9.17	6.83	4.58	2.34	1.26
270.0	16.76	15.05	13.33	11.26	9.10	6.85	4.50	2.25	1.26
285.0	16.78	15.16	13.18	11.19	9.11	6.68	4.42	2.17	1.17
300.0	16.72	15.00	13.01	11.02	8.76	6.42	4.07	2.17	1.26
315.0	16.87	15.24	13.06	11.06	8.89	6.53	3.90	2.09	1.27
330.0	16.86	15.14	13.05	11.06	8.88	6.71	3.90	1.99	1.27
345.0	16.87	15.15	13.24	11.16	9.07	6.80	4.26	2.00	1.18
360.0	17.72	16.50	14.92	13.07	11.06	8.69	6.41	3.51	1.67

Intensity data(cd)

C/γ(°)	180.0
0.0	1.23
15.0	1.24
30.0	1.16
45.0	1.25
60.0	1.17
75.0	1.17
90.0	1.17
105.0	1.17
120.0	1.17
135.0	1.09
150.0	1.18
165.0	1.27
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	1.23