革星

Client:
LumCAT: EVYW070418LAJMVxx
Luminaire: LED 灯具
Report No:
Ballast type:

Test No: LCZP23080305	Voltage(V): 120.000
LampCAT:	Current(A): 0.201
Lamp flux(lm): 2342.8	Power (W): 23.940
Number of Lamps: 1	PF: 0.994
Length(mm): -90	Width(mm): -90
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2342.79, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 97.86
Central intensity(cd): 4233.819, Maximum intensity(cd): 4234.911
Angle of maximum intensity: C=15.0 γ=180.0
Beam Angle(50%Imax): [C0/180]Total=N.A.
[C90/270]Total=N.A.
Field angle(10%Imax): [C0/180]Total=N.A.
[C90/270]Total=N.A.
Maximum s/h(1/2): C0_180=0.33 C90_270=0.38
Maximum s/h(1/4): C0_180=0.35 C90_270=0.38
Up flux rate of lamp(%): 50.00%
Down flux rate of lamp(%): 50.00%
Up flux rate of LUM(%): 50.00%
Down flux rate of LUM(%): 50.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 49.506%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4233.819	0.000	0	0.00%	0.00%
5.0	3573.490	93.334	93.334	3.98%	3.98%
10.0	2205.280	206.725	300.059	8.82%	12.81%
15.0	1055.785	193.444	493.503	8.26%	21.06%
20.0	632.521	139.140	632.643	5.94%	27.00%
25.0	512.874	120.131	752.774	5.13%	32.13%
30.0	432.712	119.665	872.439	5.11%	37.24%
35.0	338.721	113.599	986.038	4.85%	42.09%
40.0	198.157	89.574	1075.612	3.82%	45.91%
45.0	70.454	49.736	1125.347	2.12%	48.03%
50.0	25.580	19.405	1144.752	0.83%	48.86%
55.0	15.881	9.015	1153.767	0.38%	49.25%
60.0	10.303	6.052	1159.82	0.26%	49.51%
65.0	6.856	4.171	1163.991	0.18%	49.68%
70.0	4.761	2.942	1166.932	0.13%	49.81%
75.0	3.148	2.067	1169	0.09%	49.90%
80.0	1.798	1.323	1170.323	0.06%	49.95%
85.0	0.827	0.713	1171.037	0.03%	49.98%
90.0	0.378	0.330	1171.367	0.01%	50.00%
95.0	0.827	0.330	1171.696	0.01%	50.01%
100.0	1.798	0.713	1172.41	0.03%	50.04%
105.0	3.149	1.324	1173.733	0.06%	50.10%
110.0	4.761	2.067	1175.801	0.09%	50.19%
115.0	6.855	2.941	1178.742	0.13%	50.31%
120.0	10.302	4.171	1182.913	0.18%	50.49%
125.0	15.880	6.052	1188.964	0.26%	50.75%
130.0	25.581	9.015	1197.979	0.38%	51.13%
135.0	70.428	19.400	1217.38	0.83%	51.96%
140.0	198.181	49.735	1267.115	2.12%	54.09%
145.0	338.772	89.587	1356.701	3.82%	57.91%
150.0	432.733	113.610	1470.311	4.85%	62.76%
155.0	512.951	119.677	1589.988	5.11%	67.87%
160.0	632.584	120.145	1710.133	5.13%	73.00%
165.0	1055.626	139.132	1849.266	5.94%	78.93%
170.0	2205.419	193.443	2042.709	8.26%	87.19%
175.0	3573.839	206.742	2249.451	8.82%	96.02%
180.0	4234.131	93.342	2342.793	3.98%	100.00%

Zonal flux distribution table

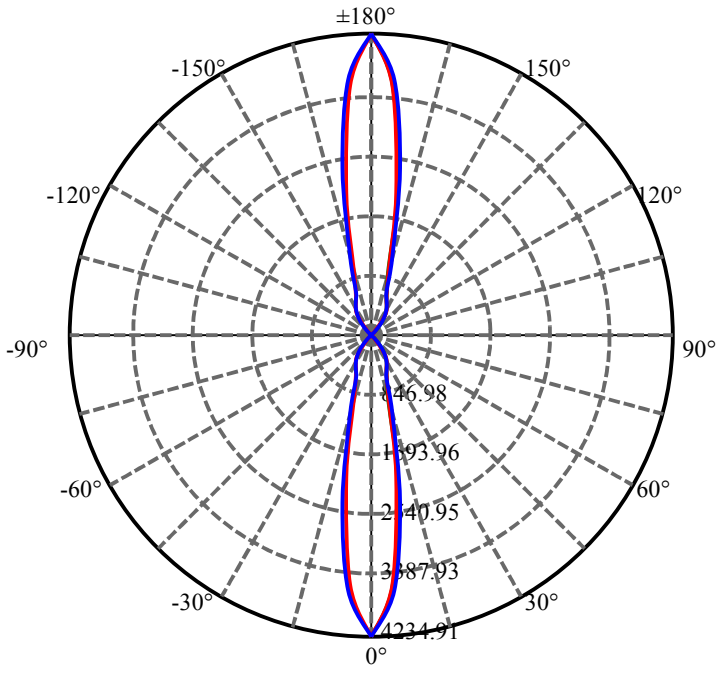
ZONAL LUMEN SUMMARY

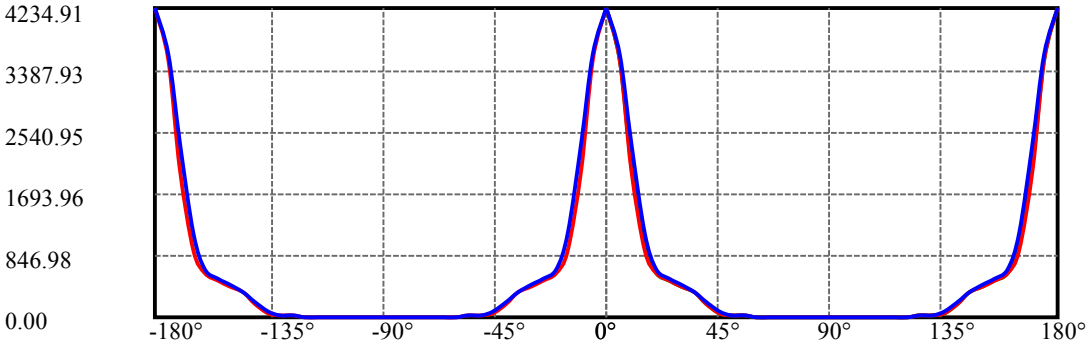
Zone	Lumens	%Lamp	%Fixt
0-30	872.44	37.24%	37.24%
0-40	1075.61	45.91%	45.91%
0-60	1159.82	49.51%	49.51%
0-90	1171.37	50.00%	50.00%
0-120	1182.91	50.49%	50.49%
0-180	2342.79	100.00%	100.00%
60-90	11.55	0.49%	0.49%
90-120	11.55	0.49%	0.49%
90-130	26.61	1.14%	1.14%
90-150	298.94	12.76%	12.76%
90-180	1078.08	46.02%	46.02%
0-165.65	1874.23	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	300.06
10-20	332.58
20-30	239.80
30-40	203.17
40-50	69.14
50-60	15.07
60-70	7.11
70-80	3.39
80-90	1.04
90-100	1.04
100-110	3.39
110-120	7.11
120-130	15.07
130-140	69.14
140-150	203.20
150-160	239.82
160-170	332.58
170-180	206.74

Light Distribution Curve [Unit:cd]





C15(Max):

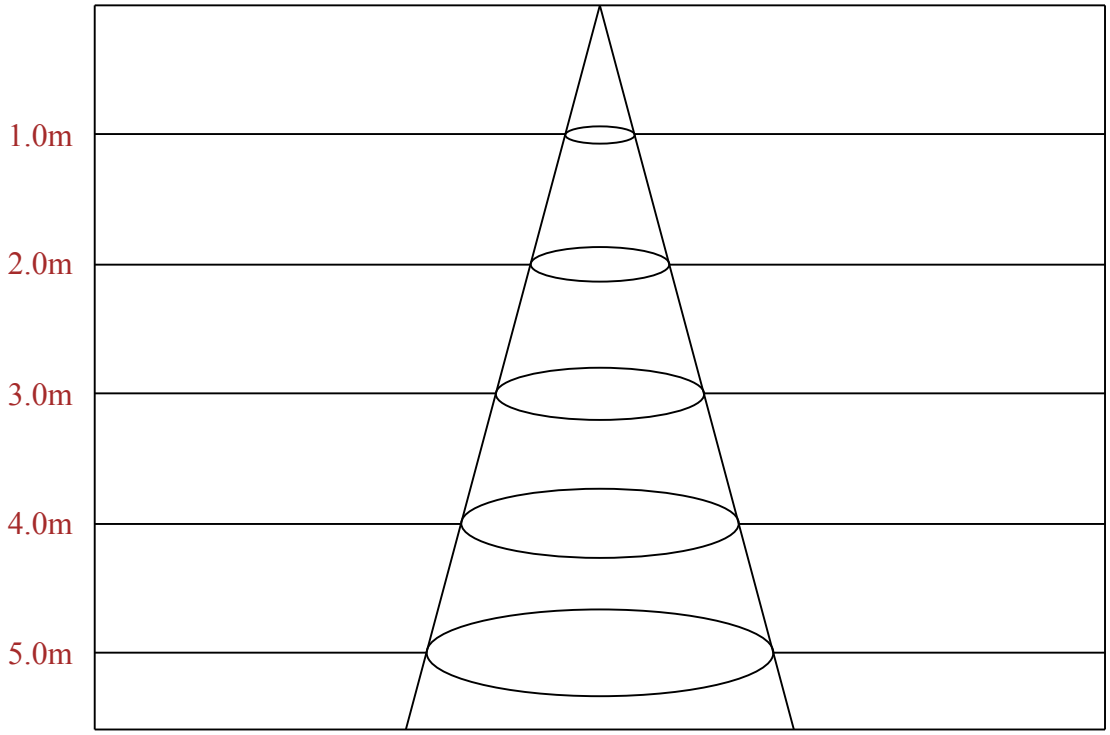
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:0.0 Right:0.0
:C90/270Left:0.0 Right:0.0

Beam Angle(50%Imax):C0/180Left:0.0 Right:0.0
:C90/270Left:0.0 Right:0.0

Lux distance Curve



Max , Ave Beam angle of C15 plane 4414.91

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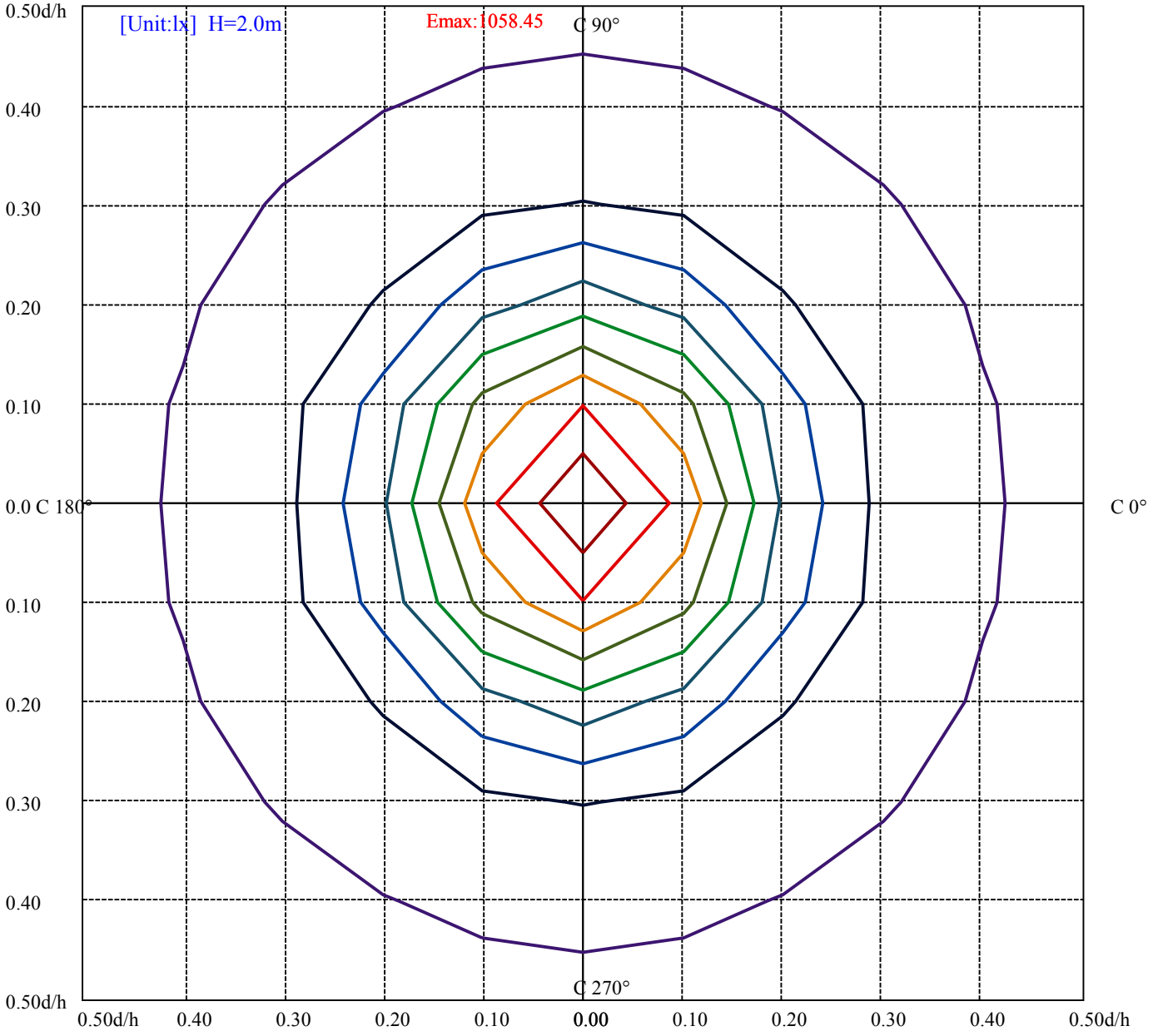
ISO illuminance diagram

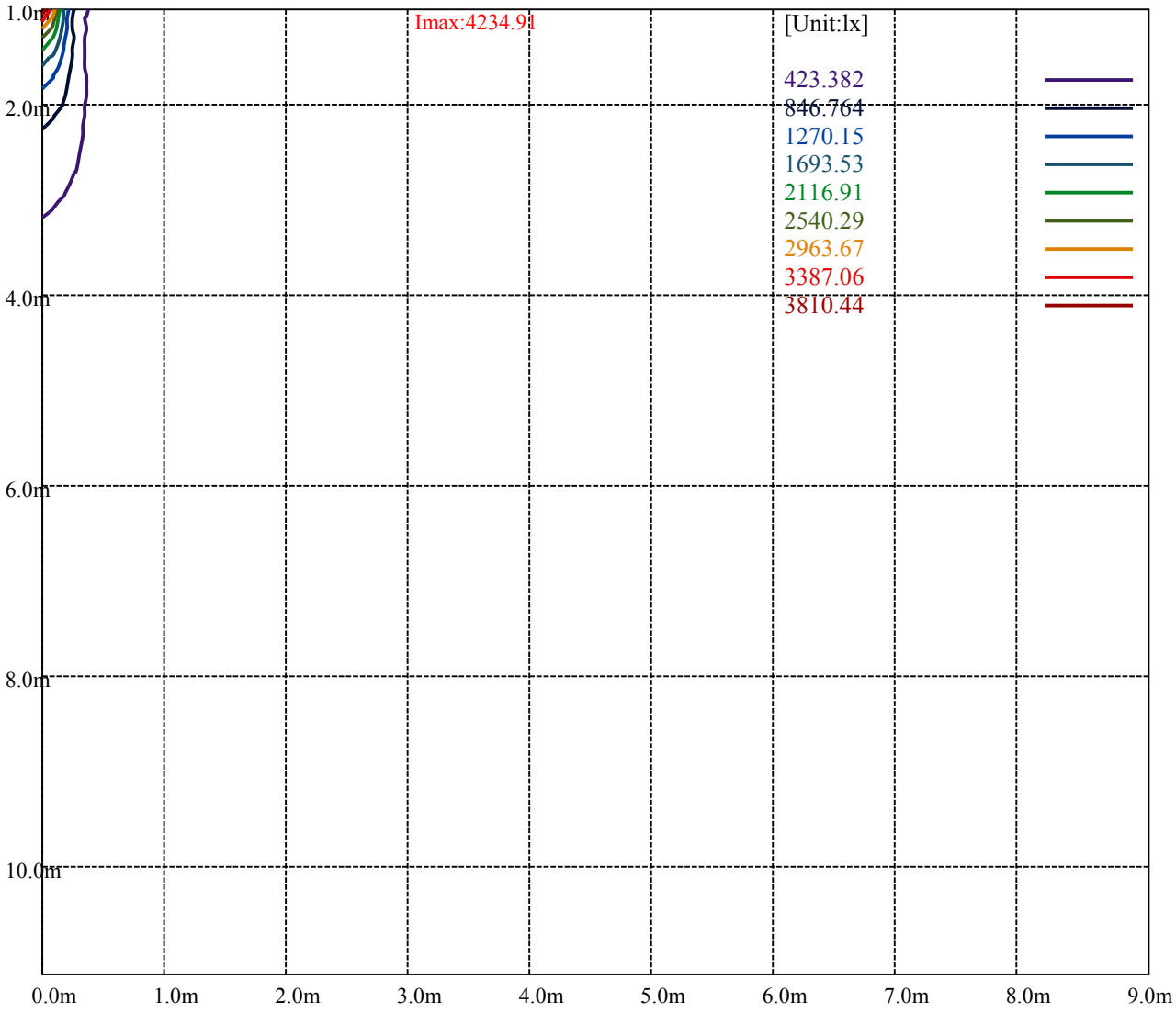


Equipment: LC-I-902 GMS-2000
Temperature(°C): 25.3

Date: 2023/9/16
Humidity(%): 61.5%

Operator: JUN WANG
Distance(m): 29.97

Space ISO Lux diagram



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Luminance Limitting Curve(no luminous side)

Luminance Table

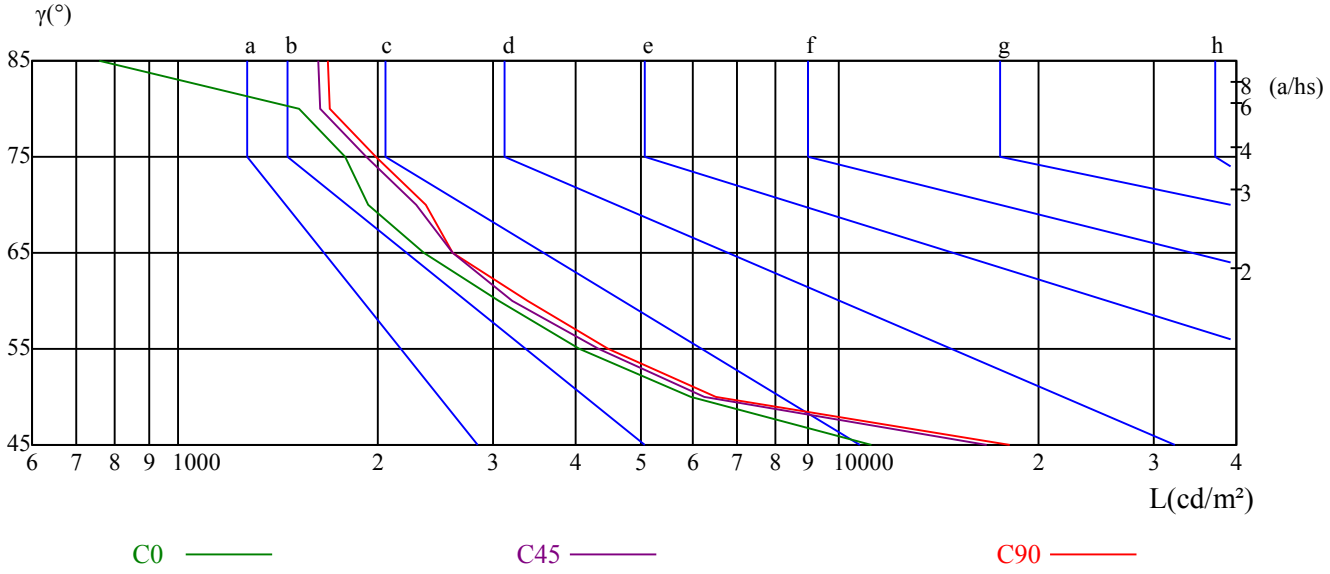
γ	45	50	55	60	65	70	75	80	85
C0	11233	5973	4039	3045	2349	1935	1790	1525	759
C45	16790	6246	4336	3198	2606	2285	1922	1637	1631
C90	18200	6521	4487	3383	2610	2365	1989	1694	1687

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2349	2610	2606	1790	1989	1922	759	1687	1631

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	1.07	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	0.50
1	0.97	0.94	0.91	0.90	0.88	0.85	0.77	0.75	0.74	0.65	0.64	0.63	0.54	0.53	0.52	0.47
2	0.88	0.84	0.80	0.82	0.78	0.75	0.71	0.68	0.66	0.61	0.59	0.57	0.51	0.50	0.49	0.44
3	0.81	0.75	0.71	0.76	0.71	0.67	0.66	0.62	0.60	0.57	0.54	0.53	0.48	0.47	0.46	0.42
4	0.74	0.68	0.64	0.70	0.64	0.60	0.61	0.57	0.54	0.53	0.51	0.49	0.46	0.44	0.43	0.40
5	0.69	0.62	0.58	0.65	0.59	0.55	0.57	0.53	0.50	0.50	0.47	0.45	0.44	0.42	0.40	0.38
6	0.64	0.57	0.53	0.60	0.55	0.51	0.54	0.50	0.46	0.48	0.45	0.42	0.42	0.40	0.38	0.36
7	0.59	0.53	0.49	0.56	0.51	0.47	0.51	0.46	0.43	0.45	0.42	0.40	0.40	0.38	0.36	0.34
8	0.56	0.49	0.45	0.53	0.47	0.44	0.48	0.44	0.41	0.43	0.40	0.38	0.38	0.36	0.35	0.32
9	0.52	0.46	0.42	0.50	0.45	0.41	0.45	0.41	0.38	0.41	0.38	0.36	0.37	0.35	0.33	0.31
10	0.49	0.44	0.40	0.47	0.42	0.38	0.43	0.39	0.36	0.39	0.36	0.34	0.35	0.33	0.32	0.30

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	4233.82	4382.89	3058.93	1208.58	679.67	540.70	453.95	389.10	329.31
15.0	4233.82	4535.43	3230.46	1273.00	706.93	558.29	462.36	399.27	345.69
30.0	4233.82	4647.54	3308.00	1333.39	727.30	568.32	475.21	407.57	350.48
45.0	4233.82	4814.84	3452.81	1471.03	738.67	581.02	487.34	418.88	359.42
60.0	4233.82	4927.26	3599.84	1535.08	753.82	583.66	493.09	425.39	363.19
75.0	4233.82	5014.68	3808.31	1601.41	753.17	584.26	494.73	424.58	361.82
90.0	4233.82	5064.68	3839.91	1621.48	770.04	584.78	498.70	434.14	366.78
105.0	4233.82	4971.10	3634.55	1645.92	754.88	584.45	491.83	430.70	362.16
120.0	4233.82	4876.14	3550.21	1562.68	752.43	568.91	485.41	423.93	356.03
135.0	4233.82	4803.65	3488.86	1525.30	732.25	561.67	475.47	414.67	350.25
150.0	4233.82	4694.02	3432.27	1425.27	697.00	545.98	467.35	403.90	344.92
165.0	4233.82	4590.10	3228.63	1379.15	681.62	535.75	457.07	393.41	342.14
180.0	4233.82	2644.56	1014.87	624.92	516.28	441.32	382.37	293.09	44.64
195.0	4233.82	2550.32	984.35	632.61	519.40	448.53	384.58	278.28	43.21
210.0	4233.82	2416.44	946.02	626.29	518.25	449.73	376.83	276.69	43.04
225.0	4233.82	2418.68	945.85	635.07	530.58	461.22	382.85	272.05	42.34
240.0	4233.82	2381.29	925.80	643.12	536.09	468.39	382.40	257.07	43.00
255.0	4233.82	2300.13	910.08	659.02	543.65	468.89	389.51	255.67	43.38
270.0	4233.82	2123.93	922.55	671.80	553.91	476.25	392.97	248.88	43.98
285.0	4233.82	2079.40	921.60	657.63	552.04	466.82	389.02	246.38	43.53
300.0	4233.82	2324.29	918.52	654.25	552.40	463.39	380.81	243.16	44.04
315.0	4233.82	2336.50	925.52	652.40	543.52	460.95	382.01	251.34	44.46
330.0	4233.82	2404.65	922.18	648.74	537.94	453.94	419.99	256.46	43.79
345.0	4233.82	2461.26	956.57	650.68	528.67	451.76	379.27	284.67	44.20
360.0	4233.82	4382.89	3058.93	1208.58	679.67	540.70	453.95	389.10	329.31

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	73.27	29.48	18.53	11.79	7.58	5.05	3.37	2.53	0.84
15.0	84.69	31.98	19.88	12.10	7.78	5.19	4.32	2.59	1.73
30.0	105.41	32.50	20.20	12.30	7.91	5.27	4.39	2.64	0.88
45.0	102.69	32.43	20.72	12.61	8.11	6.31	4.50	2.70	1.80
60.0	115.27	32.93	21.96	13.72	9.15	6.40	4.57	2.74	1.83
75.0	135.68	34.15	22.15	13.85	9.23	6.46	4.62	2.77	1.85
90.0	137.54	36.49	22.46	14.03	9.36	6.55	4.68	2.81	1.87
105.0	126.89	37.05	22.23	13.89	9.26	6.48	4.63	2.78	1.85
120.0	131.22	37.62	22.02	13.76	9.18	6.42	4.59	2.75	1.84
135.0	138.83	35.39	21.78	13.61	9.07	6.35	4.54	2.72	1.81
150.0	118.85	33.96	21.45	13.40	8.94	6.26	4.47	2.68	1.79
165.0	93.71	32.71	21.22	13.26	7.96	5.30	3.54	2.65	1.77
180.0	27.79	19.37	10.95	7.58	5.05	3.37	2.53	0.84	0.00
195.0	27.66	18.15	11.23	7.78	5.19	3.46	1.73	0.86	0.00
210.0	26.35	17.57	10.54	7.03	5.27	3.51	1.76	0.88	0.00
225.0	27.02	18.02	10.81	7.21	5.40	3.60	1.80	0.90	0.00
240.0	26.53	17.38	10.98	7.32	5.49	3.66	1.83	0.91	0.00
255.0	26.77	17.54	10.15	7.38	4.62	3.69	1.85	0.92	0.00
270.0	26.20	16.84	10.29	7.49	4.68	3.74	1.87	0.94	0.00
285.0	25.93	16.67	10.19	7.41	4.63	2.78	2.78	0.93	0.00
300.0	25.69	15.60	10.09	8.26	4.59	3.67	1.84	0.92	0.00
315.0	33.57	16.33	9.98	7.26	5.44	3.63	1.81	0.91	0.00
330.0	26.81	16.98	10.72	7.15	5.36	3.57	1.79	0.89	0.00
345.0	26.52	16.80	10.61	7.07	5.30	3.54	1.77	0.88	0.00
360.0	73.27	29.48	18.53	11.79	7.58	5.05	3.37	2.53	0.84

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	0.00	0.84	2.53	3.37	5.05	7.58	11.79	18.53	29.48
15.0	0.00	0.00	0.86	1.73	3.46	5.19	6.91	10.37	16.42
30.0	0.00	0.00	0.88	1.76	3.51	5.27	7.03	10.54	16.69
45.0	0.00	0.00	0.90	1.80	3.60	5.40	7.21	9.91	16.21
60.0	0.00	0.00	0.91	1.83	3.66	4.57	8.23	10.06	15.55
75.0	0.00	0.00	0.92	2.77	2.77	4.62	7.38	10.15	16.61
90.0	0.00	0.00	0.94	1.87	3.74	4.68	7.49	10.29	16.84
105.0	0.00	0.00	0.93	1.85	3.70	4.63	7.41	10.19	17.60
120.0	0.00	0.00	0.92	1.84	3.67	5.51	7.34	11.01	17.43
135.0	0.00	0.00	0.91	1.81	3.63	5.44	7.26	10.89	18.15
150.0	0.00	0.00	0.89	1.79	3.57	5.36	7.15	10.72	17.87
165.0	0.00	0.00	0.88	1.77	3.54	5.30	7.96	11.49	18.57
180.0	0.00	0.00	0.84	2.53	3.37	5.05	7.58	10.95	19.37
195.0	0.86	1.73	2.59	3.46	5.19	7.78	12.96	20.74	31.98
210.0	0.88	1.76	2.64	4.39	6.15	8.78	13.18	21.08	33.38
225.0	0.90	1.80	2.70	4.50	6.31	9.01	13.51	21.62	35.13
240.0	0.91	1.83	2.74	4.57	6.40	9.15	13.72	21.96	37.51
255.0	0.92	1.85	2.77	4.62	6.46	9.23	13.85	22.15	36.92
270.0	0.94	1.87	2.81	4.68	6.55	9.36	14.03	22.46	36.49
285.0	0.93	1.85	2.78	4.63	6.48	9.26	13.89	22.23	34.27
300.0	0.92	1.84	2.75	4.59	6.42	9.18	13.76	22.02	33.03
315.0	0.91	1.81	2.72	4.54	6.35	8.17	12.70	20.87	32.67
330.0	0.89	0.89	2.68	4.47	5.36	8.04	12.51	20.55	33.06
345.0	0.00	1.77	2.65	4.42	5.30	7.96	12.38	20.33	32.71
360.0	0.00	0.84	2.53	3.37	5.05	7.58	11.79	18.53	29.48

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	73.27	329.31	389.10	453.95	540.70	679.67	1208.58	3058.93	4382.89
15.0	25.93	43.21	278.28	370.75	441.62	516.80	636.07	935.09	2405.99
30.0	26.35	43.04	252.10	412.84	446.22	528.79	637.71	906.49	2363.74
45.0	33.33	44.14	249.53	379.24	457.61	539.59	647.68	918.83	2319.59
60.0	25.62	43.91	242.43	379.65	461.99	550.73	652.27	915.74	2317.26
75.0	25.84	43.38	245.52	387.66	465.19	550.11	655.33	918.39	2072.14
90.0	26.20	43.98	248.88	392.97	476.25	553.91	671.80	922.55	2123.93
105.0	26.86	43.53	256.57	390.87	470.53	545.55	661.33	913.27	2308.18
120.0	26.61	43.13	257.85	383.56	469.81	537.72	645.07	928.61	2388.52
135.0	27.22	42.65	274.03	385.64	464.58	534.44	639.70	952.75	2436.31
150.0	26.81	43.79	281.48	383.35	457.52	527.22	637.13	962.39	2458.26
165.0	28.29	44.20	284.67	393.41	458.83	531.33	647.14	1006.96	2608.90
180.0	27.79	44.64	293.09	382.37	441.32	516.28	624.92	1014.87	2644.56
195.0	91.61	334.45	384.58	446.80	523.72	666.31	1348.18	3156.14	4487.04
210.0	116.83	339.06	397.03	459.40	536.69	685.14	1401.03	3373.88	4614.16
225.0	137.82	347.71	411.67	472.03	557.60	726.96	1514.27	3463.62	4768.90
240.0	130.82	354.95	422.65	483.94	567.19	750.16	1557.95	3539.47	4861.39
255.0	126.45	360.89	429.20	490.12	582.42	752.25	1640.18	3621.87	4953.76
270.0	137.54	366.78	434.14	498.70	584.78	770.04	1621.48	3839.91	5064.68
285.0	136.16	363.08	426.07	496.46	586.31	755.81	1607.02	3821.64	5032.23
300.0	115.62	364.29	426.69	494.59	585.43	756.10	1539.74	3610.77	4942.21
315.0	103.44	362.04	421.93	490.89	585.26	744.05	1481.75	3477.97	4849.93
330.0	107.23	356.54	414.62	483.43	578.15	739.89	1356.47	3365.25	4727.97
345.0	86.64	353.63	408.44	472.98	571.11	723.17	1302.24	3304.66	4639.61
360.0	73.27	329.31	389.10	453.95	540.70	679.67	1208.58	3058.93	4382.89

Intensity data(cd)

C/γ(°)	180.0
0.0	4233.82
15.0	4138.75
30.0	4161.79
45.0	4203.19
60.0	4221.01
75.0	4219.05
90.0	4233.82
105.0	4248.64
120.0	4246.67
135.0	4264.67
150.0	4307.09
165.0	4331.07
180.0	4233.82
195.0	4138.75
210.0	4161.79
225.0	4203.19
240.0	4221.01
255.0	4219.05
270.0	4233.82
285.0	4248.64
300.0	4246.67
315.0	4264.67
330.0	4307.09
345.0	4331.07
360.0	4233.82