
FOSHAN LEDKEY LIGHTING CO.,LTD.

Client:

LumCAT: CL27P-26S-952C5-120D-WH

Luminaire: LED indoor

Report No:

Ballast type:

Test No: LCZP22060199

Voltage(V): 120.000

LampCAT:

Current(A): 0.214

Lamp flux(lm): 1799.4

Power (W): 25.540

Number of Lamps: 1

PF: 0.994

Length(mm): -400

Width(mm): -400

Phm Type: C

Height(mm): 105

Photometric Results

Lumens(lm): 1799.40, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 70.45

Central intensity(cd): 532.601, Maximum intensity(cd): 534.062

Angle of maximum intensity: C=30.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=114.8

[C90/270]Total=115.0

Field angle(10%Imax): [C0/180]Total=320.8

[C90/270]Total=315.2

Maximum s/h(1/2): C0_180=1.32 C90_270=1.32

Maximum s/h(1/4): C0_180=1.41 C90_270=1.41

Up flux rate of lamp(%): 11.79%

Down flux rate of lamp(%): 88.21%

Up flux rate of LUM(%): 11.79%

Down flux rate of LUM(%): 88.21%

CIE Type : Semidirect lighting

Output flux ratio in π solid angle : 69.820%

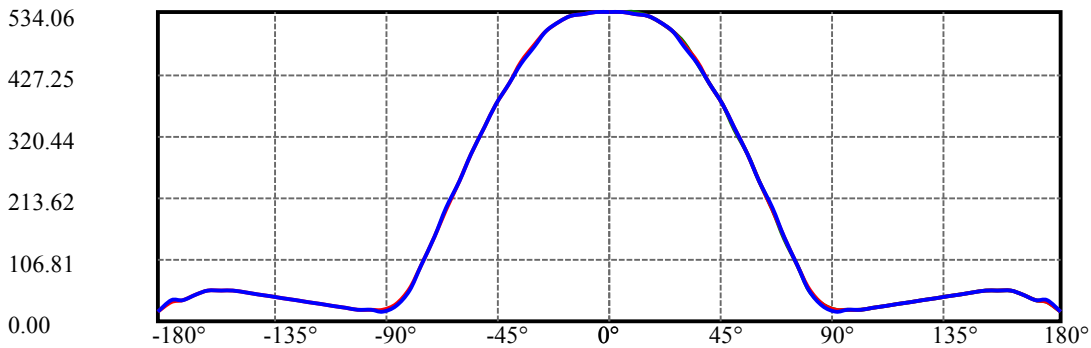
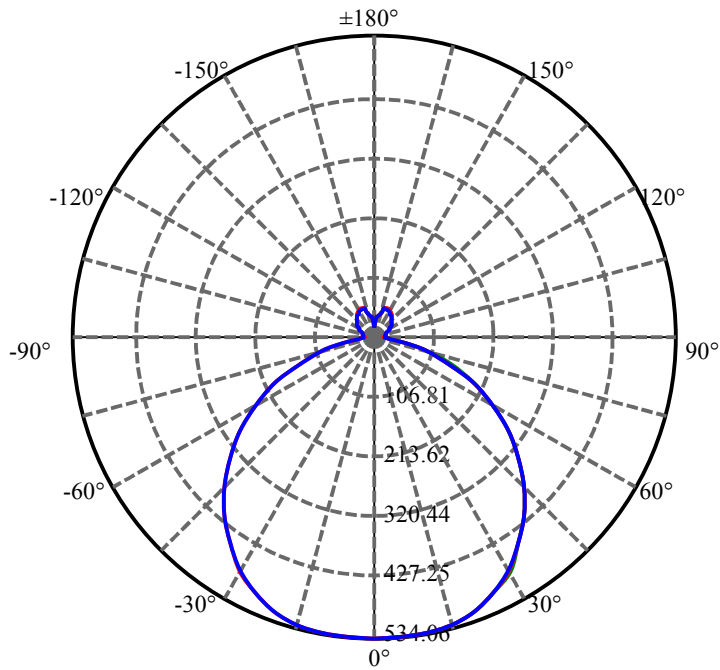
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	532.601	0.000	0	0.00%	0.00%
5.0	533.273	12.742	12.742	0.71%	0.71%
10.0	532.244	38.117	50.859	2.12%	2.83%
15.0	528.132	62.901	113.76	3.50%	6.32%
20.0	517.824	86.201	199.961	4.79%	11.11%
25.0	499.935	106.744	306.705	5.93%	17.04%
30.0	476.337	123.548	430.253	6.87%	23.91%
35.0	446.038	135.826	566.08	7.55%	31.46%
40.0	411.986	143.155	709.234	7.96%	39.42%
45.0	374.227	145.574	854.808	8.09%	47.51%
50.0	333.193	142.945	997.753	7.94%	55.45%
55.0	289.534	135.402	1133.154	7.52%	62.97%
60.0	243.429	123.193	1256.347	6.85%	69.82%
65.0	193.888	106.313	1362.659	5.91%	75.73%
70.0	144.306	85.633	1448.292	4.76%	80.49%
75.0	97.090	63.097	1511.389	3.51%	83.99%
80.0	54.420	40.540	1551.929	2.25%	86.25%
85.0	28.399	22.504	1574.433	1.25%	87.50%
90.0	18.545	12.854	1587.287	0.71%	88.21%
95.0	18.383	10.111	1597.398	0.56%	88.77%
100.0	20.246	10.496	1607.895	0.58%	89.36%
105.0	22.650	11.478	1619.372	0.64%	90.00%
110.0	25.504	12.587	1631.959	0.70%	90.69%
115.0	28.639	13.709	1645.669	0.76%	91.46%
120.0	32.131	14.773	1660.442	0.82%	92.28%
125.0	36.232	15.802	1676.244	0.88%	93.16%
130.0	40.278	16.636	1692.88	0.92%	94.08%
135.0	43.870	17.003	1709.883	0.94%	95.03%
140.0	47.306	16.882	1726.765	0.94%	95.96%
145.0	50.415	16.304	1743.069	0.91%	96.87%
150.0	53.011	15.230	1758.299	0.85%	97.72%
155.0	53.745	13.510	1771.809	0.75%	98.47%
160.0	53.133	11.209	1783.019	0.62%	99.09%
165.0	46.399	8.203	1791.221	0.46%	99.55%
170.0	37.383	4.970	1796.191	0.28%	99.82%
175.0	34.872	2.585	1798.776	0.14%	99.97%
180.0	17.432	0.625	1799.401	0.03%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	430.25	23.91%	23.91%
0-40	709.23	39.42%	39.42%
0-60	1256.35	69.82%	69.82%
0-90	1587.29	88.21%	88.21%
0-120	1660.44	92.28%	92.28%
0-180	1799.40	100.00%	100.00%
60-90	330.94	18.39%	18.39%
90-120	73.16	4.07%	4.07%
90-130	105.59	5.87%	5.87%
90-150	171.01	9.50%	9.50%
90-180	211.49	11.75%	11.75%
0-69.49	1439.52	80.00%	80.00%

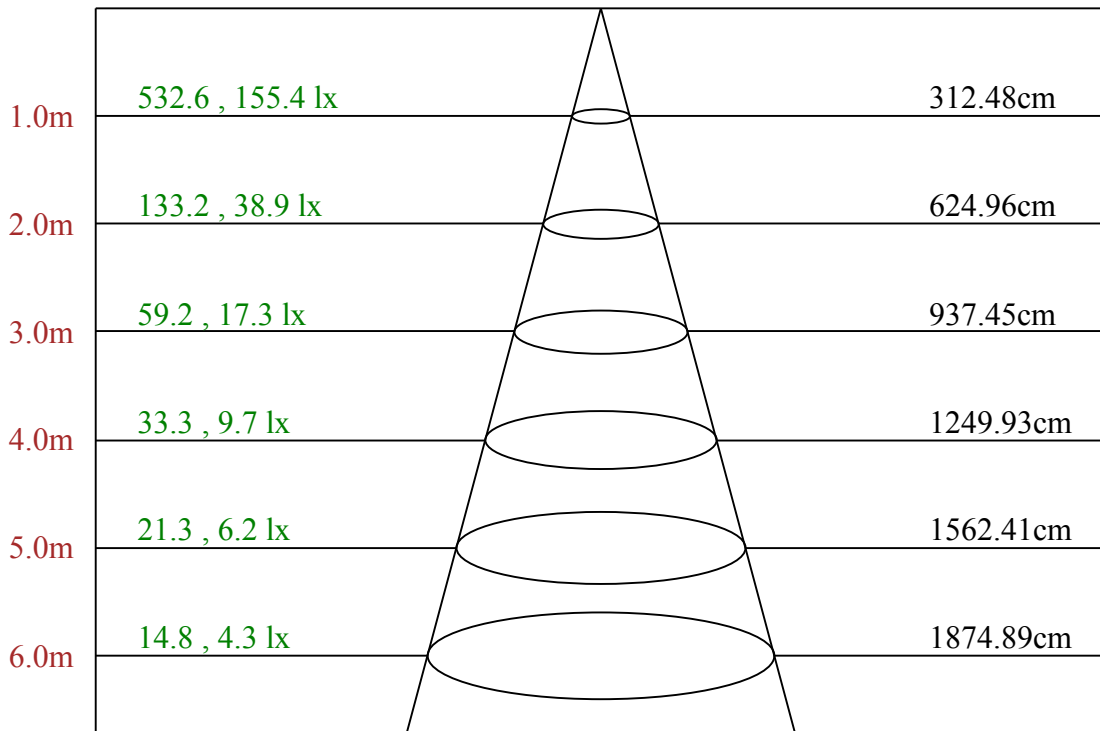
ZONAL LUMEN SUMMARY

0-10	50.86
10-20	149.10
20-30	230.29
30-40	278.98
40-50	288.52
50-60	258.59
60-70	191.95
70-80	103.64
80-90	35.36
90-100	20.61
100-110	24.06
110-120	28.48
120-130	32.44
130-140	33.89
140-150	31.53
150-160	24.72
160-170	13.17
170-180	2.58

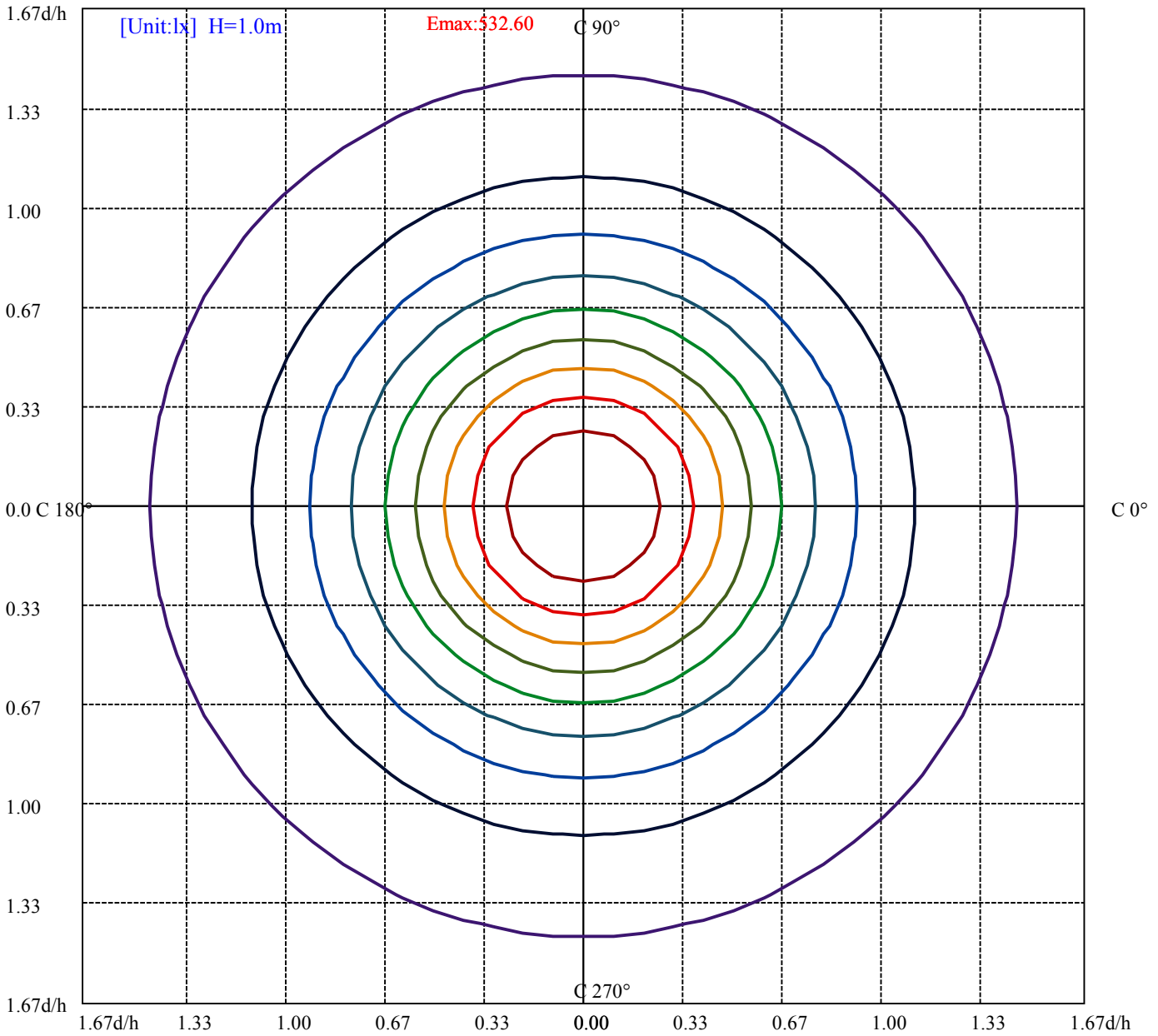


C30(Max): ———
 C0/C180: ———
 C90/C270: ———

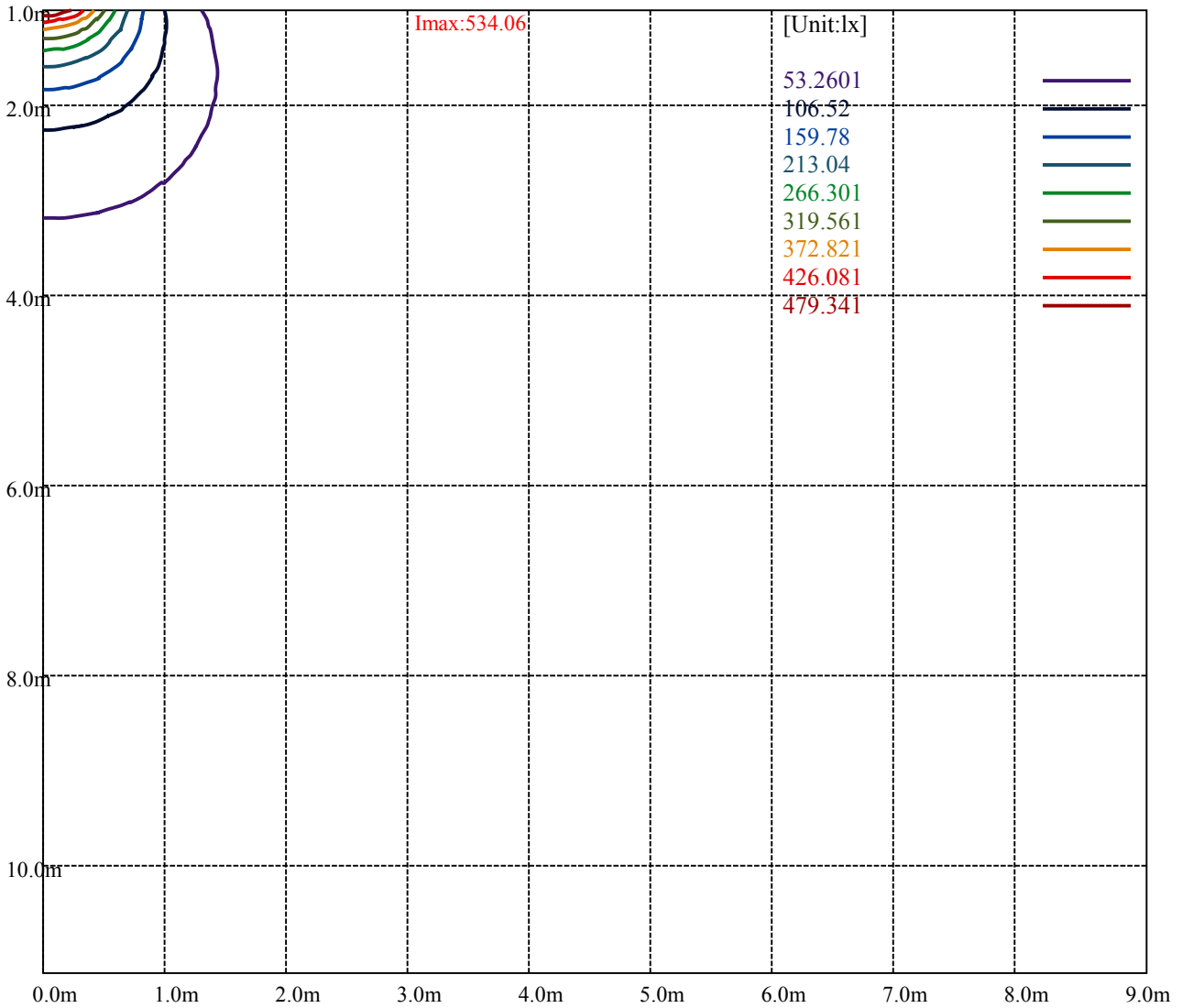
Field angle(10%Imax):C0/180Left:165.4 Right:155.4
 :C90/270Left:157.6 Right:157.6
 Beam Angle(50%Imax):C0/180Left:62.4 Right:52.4
 :C90/270Left:57.5 Right:57.5



Max , Ave Beam angle of C30 plane 114.76



(10%Emax) 53.2601	
(20%Emax) 106.52	
(30%Emax) 159.78	
(40%Emax) 213.04	
(50%Emax) 266.301	
(60%Emax) 319.561	
(70%Emax) 372.821	
(80%Emax) 426.081	
(90%Emax) 479.341	



Luminance Limiting Curve(no luminous side)

Luminance Table

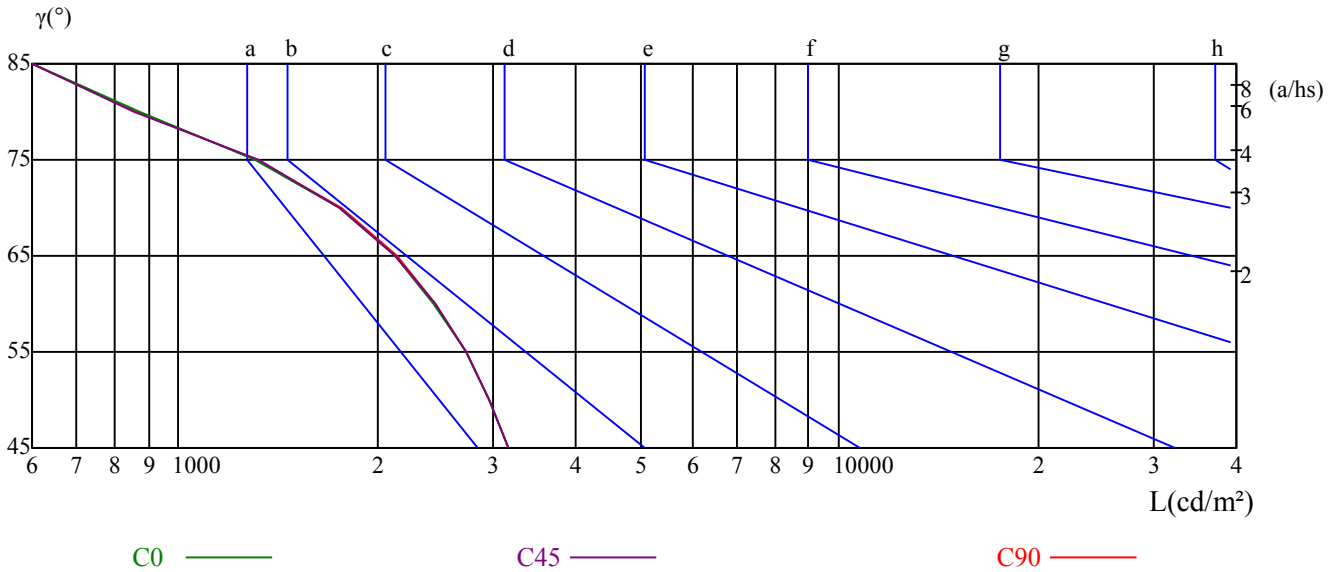
γ	45	50	55	60	65	70	75	80	85
C0	3158	2953	2720	2437	2124	1755	1307	873	545
C45	3158	2952	2724	2445	2130	1754	1320	855	536
C90	3161	2953	2725	2448	2141	1762	1317	865	529

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3646	3675	3656	2938	2959	2965	2629	2549	2583

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	1.16	1.16	1.16	1.12	1.12	1.12	1.05	1.05	1.05	0.98	0.98	0.98	0.91	0.91	0.91	0.88
1	1.01	0.97	0.93	0.98	0.94	0.91	0.92	0.88	0.86	0.86	0.83	0.81	0.80	0.78	0.77	0.74
2	0.88	0.82	0.76	0.85	0.79	0.74	0.80	0.75	0.71	0.75	0.71	0.67	0.70	0.67	0.64	0.61
3	0.77	0.69	0.63	0.75	0.68	0.62	0.70	0.64	0.59	0.66	0.61	0.57	0.62	0.58	0.54	0.52
4	0.69	0.60	0.53	0.66	0.58	0.52	0.62	0.56	0.50	0.59	0.53	0.48	0.55	0.51	0.47	0.44
5	0.61	0.52	0.46	0.59	0.51	0.45	0.56	0.49	0.43	0.53	0.47	0.42	0.50	0.45	0.40	0.38
6	0.55	0.46	0.40	0.53	0.45	0.39	0.50	0.43	0.38	0.48	0.41	0.37	0.45	0.40	0.35	0.33
7	0.50	0.41	0.35	0.48	0.40	0.35	0.46	0.39	0.33	0.43	0.37	0.32	0.41	0.36	0.31	0.29
8	0.45	0.37	0.31	0.44	0.36	0.31	0.42	0.35	0.30	0.40	0.34	0.29	0.38	0.32	0.28	0.26
9	0.42	0.33	0.28	0.40	0.33	0.28	0.38	0.32	0.27	0.37	0.30	0.26	0.35	0.29	0.25	0.23
10	0.38	0.30	0.25	0.37	0.30	0.25	0.36	0.29	0.24	0.34	0.28	0.24	0.32	0.27	0.23	0.21

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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	532.60	534.71	534.62	533.74	527.50	512.64	493.92	464.11	430.00
15.0	532.60	533.13	535.34	533.22	527.48	513.78	490.90	463.17	430.57
30.0	532.60	536.76	536.14	534.55	529.15	512.94	491.60	462.65	429.89
45.0	532.60	534.38	535.17	534.73	527.01	512.64	490.36	462.85	430.20
60.0	532.60	533.84	535.26	533.84	527.02	511.69	488.20	460.82	428.47
75.0	532.60	533.93	535.00	531.98	525.06	510.52	488.62	461.66	428.32
90.0	532.60	531.98	533.31	531.01	523.66	509.59	487.29	458.61	426.84
105.0	532.60	533.31	534.82	530.38	523.38	508.39	486.31	457.05	425.03
120.0	532.60	531.36	531.10	529.68	520.84	506.08	481.95	455.25	423.96
135.0	532.60	532.96	532.87	528.00	520.30	504.63	482.86	454.88	421.69
150.0	532.60	532.42	532.51	527.91	520.02	504.96	481.22	453.76	421.16
165.0	532.60	531.89	531.01	527.55	519.32	505.06	481.15	452.99	420.57
180.0	532.60	531.63	529.61	523.02	509.22	488.12	460.86	428.68	393.52
195.0	532.60	531.36	529.42	522.62	508.48	485.78	460.69	428.10	393.11
210.0	532.60	533.22	529.06	523.75	508.43	486.03	460.70	428.91	392.70
225.0	532.60	534.55	529.76	523.19	507.67	487.26	460.64	430.29	393.82
240.0	532.60	532.96	529.68	522.32	508.23	486.34	460.20	431.22	395.51
255.0	532.60	533.67	530.65	522.76	509.28	488.35	463.96	432.13	396.48
270.0	532.60	532.96	529.15	524.10	510.92	489.06	463.92	432.77	398.17
285.0	532.60	533.04	531.36	525.42	513.80	493.41	466.27	434.70	399.23
300.0	532.60	532.69	530.30	525.88	512.62	492.11	465.24	435.19	401.33
315.0	532.60	533.93	531.72	527.38	514.99	495.16	469.31	437.18	401.86
330.0	532.60	533.84	532.87	528.35	516.57	495.39	485.21	438.70	403.26
345.0	532.60	534.02	533.13	529.77	516.84	498.51	470.70	439.26	401.97
360.0	532.60	534.71	534.62	533.74	527.50	512.64	493.92	464.11	430.00
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	394.22	353.69	311.23	264.37	215.04	165.64	116.49	70.69	35.69
15.0	394.61	353.80	310.96	263.43	215.90	164.67	115.64	70.23	34.98
30.0	393.05	352.68	309.64	264.66	216.58	164.87	115.46	69.60	34.98
45.0	393.64	354.33	310.67	264.17	216.08	165.67	116.25	68.51	34.34
60.0	393.38	351.55	308.93	262.93	215.08	164.30	115.12	67.53	34.38
75.0	392.40	351.34	308.42	262.93	213.71	164.32	115.19	67.48	33.70
90.0	390.82	351.08	307.37	261.26	213.91	163.11	113.28	67.70	33.19
105.0	389.12	349.30	305.58	259.65	212.38	161.22	112.00	66.51	32.81
120.0	385.51	347.41	304.27	258.39	210.12	160.62	111.74	65.24	33.15
135.0	386.55	345.21	303.43	257.05	210.40	159.68	110.65	64.44	32.75
150.0	384.12	343.82	302.09	256.64	208.54	158.49	110.03	65.29	33.22
165.0	384.26	344.06	301.19	256.03	207.23	159.32	110.88	64.65	32.86
180.0	354.66	313.34	268.06	219.09	172.23	123.79	74.64	39.65	21.89
195.0	353.80	312.37	267.93	220.58	171.03	122.35	76.68	40.11	21.91
210.0	354.18	312.57	269.36	221.45	171.78	123.43	76.33	39.49	21.78
225.0	355.57	313.95	270.20	221.58	173.30	125.03	77.29	40.20	21.47
240.0	355.89	314.42	270.47	222.26	173.25	124.51	78.34	40.76	21.71
255.0	357.02	316.23	270.38	223.11	174.52	125.75	79.46	40.79	22.35
270.0	358.70	316.04	272.94	224.53	176.47	127.35	79.21	41.60	22.66
285.0	360.92	319.42	274.19	226.04	176.56	127.08	100.74	42.30	23.15
300.0	360.58	317.35	272.89	248.13	176.09	127.12	80.71	43.14	23.96
315.0	361.68	319.99	275.99	227.40	176.94	127.91	81.61	42.93	24.61
330.0	363.39	321.85	276.05	227.32	178.77	129.16	81.06	43.50	24.89
345.0	363.36	320.85	276.57	229.28	177.39	127.97	81.39	43.75	25.15
360.0	394.22	353.69	311.23	264.37	215.04	165.64	116.49	70.69	35.69

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Appendix Page: 11 Total:12

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	21.89	19.17	20.66	22.77	25.41	28.31	31.83	36.31	40.00
15.0	22.08	19.43	20.94	23.15	25.62	28.53	31.98	36.04	39.84
30.0	21.87	19.48	20.99	23.29	25.77	28.78	32.14	35.60	40.20
45.0	21.47	19.52	20.94	23.16	25.73	28.66	32.12	35.76	40.20
60.0	21.09	19.32	20.83	22.95	25.52	28.54	31.90	35.71	40.23
75.0	20.93	19.07	20.57	22.70	25.18	28.20	31.75	36.09	40.08
90.0	20.44	18.76	20.27	22.39	24.96	27.97	31.51	35.49	39.83
105.0	20.31	18.45	19.86	22.08	24.74	27.76	31.30	35.29	39.73
120.0	19.62	18.12	19.62	21.75	24.49	27.67	30.76	34.65	39.16
135.0	19.47	17.70	19.12	21.42	24.08	27.17	30.45	33.99	38.95
150.0	18.87	17.10	18.69	20.91	23.56	26.67	30.12	34.37	38.98
165.0	18.15	16.56	18.15	20.28	22.94	26.13	29.93	34.36	38.17
180.0	16.09	17.76	20.05	22.68	25.76	29.36	33.23	37.45	40.53
195.0	15.81	17.40	19.61	22.53	25.35	28.80	32.86	36.93	39.66
210.0	15.58	17.09	19.48	22.31	25.50	28.69	32.23	36.13	40.20
225.0	15.44	16.95	19.34	22.18	25.47	28.93	32.12	36.12	40.38
240.0	15.51	17.10	19.41	22.24	25.52	28.71	30.66	36.60	40.50
255.0	15.70	17.38	19.78	21.19	25.54	28.82	32.90	36.80	40.79
270.0	15.75	17.79	20.00	22.92	25.93	29.21	32.92	36.99	40.71
285.0	16.67	18.45	20.57	23.32	26.34	29.26	33.08	37.16	41.15
300.0	17.24	18.92	21.04	23.87	26.78	29.70	33.06	37.22	41.19
315.0	17.88	19.47	21.51	24.25	27.00	30.18	33.11	37.53	41.69
330.0	18.43	19.93	22.15	24.45	27.29	30.39	34.28	38.18	42.43
345.0	18.77	20.28	22.32	24.80	27.63	30.91	34.89	38.79	42.07
360.0	21.89	19.17	20.66	22.77	25.41	28.31	31.83	36.31	40.00
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	43.26	46.95	50.73	54.16	55.92	56.62	52.13	40.18	33.41
15.0	43.99	47.70	51.15	54.06	55.65	56.71	52.83	41.43	33.83
30.0	44.36	47.64	51.27	54.01	55.08	56.23	52.68	41.35	34.27
45.0	44.28	47.65	51.47	54.13	54.93	55.46	52.44	41.71	34.70
60.0	43.78	47.32	51.22	53.97	54.86	54.77	52.29	42.09	34.92
75.0	43.81	47.44	50.90	54.01	55.51	54.89	52.14	42.12	34.67
90.0	43.81	47.61	50.45	54.16	55.31	55.14	51.86	41.51	34.87
105.0	43.81	47.53	50.28	53.38	55.42	55.42	51.43	41.59	34.94
120.0	43.67	47.29	50.03	52.86	54.72	54.63	50.83	41.28	34.56
135.0	43.46	47.00	49.92	52.67	53.82	54.08	50.37	40.89	34.08
150.0	43.14	46.69	49.52	52.00	53.07	53.24	49.61	40.13	33.49
165.0	41.98	45.70	48.89	51.45	53.05	52.78	49.33	39.59	33.12
180.0	44.13	47.91	50.90	53.10	53.01	51.17	40.71	32.88	35.17
195.0	43.82	47.53	50.53	52.65	52.47	50.71	45.23	32.51	35.07
210.0	43.56	46.93	49.94	51.36	51.98	50.12	39.93	32.94	35.06
225.0	41.97	46.94	49.52	51.56	51.65	50.23	40.02	32.92	35.05
240.0	43.42	46.61	49.27	50.87	51.31	50.42	39.61	33.05	35.00
255.0	43.90	46.64	49.84	51.26	52.32	50.72	40.61	32.99	35.12
270.0	43.90	46.91	49.30	51.42	52.04	50.62	40.80	32.92	35.14
285.0	44.25	47.09	49.22	52.05	51.88	50.90	40.35	33.17	35.65
300.0	44.73	47.29	50.12	52.42	52.24	51.62	40.57	33.59	35.80
315.0	45.32	47.71	51.16	53.82	53.64	52.22	41.51	34.43	36.20
330.0	45.27	48.19	51.74	55.10	54.39	52.62	42.61	35.44	36.41
345.0	45.25	49.06	52.60	55.79	55.62	53.84	43.66	36.49	36.40
360.0	43.26	46.95	50.73	54.16	55.92	56.62	52.13	40.18	33.41

Intensity data(cd)

C/γ(°)	180.0
0.0	33.85
15.0	34.54
30.0	34.53
45.0	34.52
60.0	34.65
75.0	35.03
90.0	35.14
105.0	35.38
120.0	35.45
135.0	35.32
150.0	35.17
165.0	34.80
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	33.85