
AFX

Client:

LumCAT: VRNV3007LAJUDSN

Luminaire: LED 灯具

Report No:

Ballast type:

Test No:

Voltage(V): 120.010

LampCAT:

Current(A): 0.320

Lamp flux(lm): 3340.3

Power (W): 38.060

Number of Lamps: 1

PF: 0.990

Length(mm): 750

Width(mm): 140

Phm Type: C

Height(mm): 140

Photometric Results

Lumens(lm): 3340.25, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 87.76

Central intensity(cd): 393.786, Maximum intensity(cd): 394.686

Angle of maximum intensity: C=45.0 γ =5.0

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=1.31 C90_270=1.33

Maximum s/h(1/4): C0_180=1.49 C90_270=1.51

Up flux rate of lamp(%): 48.21%

Down flux rate of lamp(%): 51.79%

Up flux rate of LUM(%): 48.21%

Down flux rate of LUM(%): 51.79%

CIE Type : General diffuse lighting

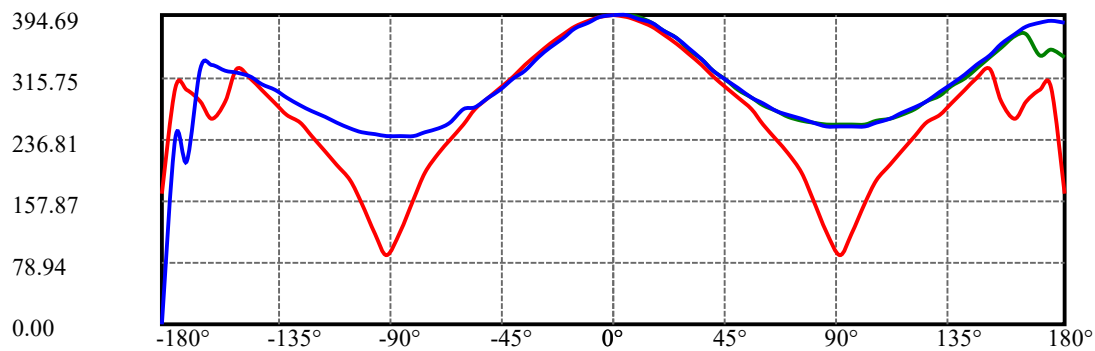
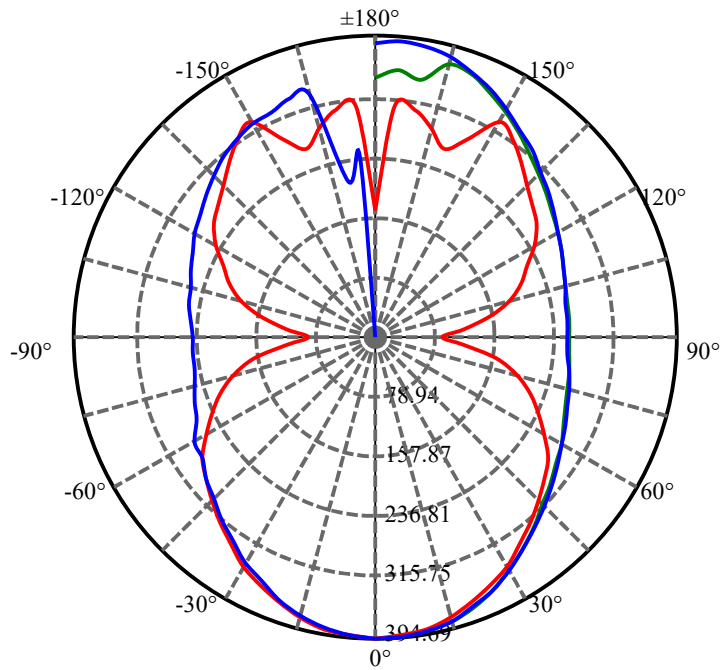
Output flux ratio in π solid angle : 30.030%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	393.786	0.000	0	0.00%	0.00%
5.0	392.590	9.401	9.401	0.28%	0.28%
10.0	387.911	27.921	37.322	0.84%	1.12%
15.0	380.614	45.588	82.91	1.36%	2.48%
20.0	371.104	61.952	144.863	1.85%	4.34%
25.0	359.169	76.592	221.455	2.29%	6.63%
30.0	345.583	89.187	310.642	2.67%	9.30%
35.0	330.950	99.624	410.266	2.98%	12.28%
40.0	317.400	108.172	518.438	3.24%	15.52%
45.0	303.442	114.954	633.392	3.44%	18.96%
50.0	290.605	120.036	753.428	3.59%	22.56%
55.0	278.482	123.739	877.167	3.70%	26.26%
60.0	266.175	125.896	1003.062	3.77%	30.03%
65.0	253.268	126.278	1129.34	3.78%	33.81%
70.0	242.004	125.406	1254.746	3.75%	37.56%
75.0	231.386	123.737	1378.483	3.70%	41.27%
80.0	219.949	120.765	1499.247	3.62%	44.88%
85.0	210.018	116.832	1616.08	3.50%	48.38%
90.0	206.035	113.919	1729.998	3.41%	51.79%
95.0	210.580	114.072	1844.07	3.42%	55.21%
100.0	218.450	116.578	1960.648	3.49%	58.70%
105.0	227.078	119.211	2079.859	3.57%	62.27%
110.0	235.375	120.878	2200.737	3.62%	65.89%
115.0	244.016	121.385	2322.122	3.63%	69.52%
120.0	252.652	120.741	2442.863	3.61%	73.13%
125.0	260.539	118.623	2561.486	3.55%	76.69%
130.0	269.670	115.285	2676.771	3.45%	80.14%
135.0	280.752	111.221	2787.991	3.33%	83.47%
140.0	289.886	105.658	2893.65	3.16%	86.63%
145.0	298.220	98.121	2991.771	2.94%	89.57%
150.0	306.291	89.018	3080.789	2.67%	92.23%
155.0	306.007	77.487	3158.276	2.32%	94.55%
160.0	307.073	64.301	3222.577	1.93%	96.48%
165.0	311.971	51.018	3273.595	1.53%	98.00%
170.0	317.730	37.353	3310.948	1.12%	99.12%
175.0	332.518	23.261	3334.209	0.70%	99.82%
180.0	172.517	6.038	3340.247	0.18%	100.00%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	310.64	9.30%	9.30%
0-40	518.44	15.52%	15.52%
0-60	1003.06	30.03%	30.03%
0-90	1730.00	51.79%	51.79%
0-120	2442.86	73.13%	73.13%
0-180	3340.25	100.00%	100.00%
60-90	726.94	21.76%	21.76%
90-120	712.86	21.34%	21.34%
90-130	946.77	28.34%	28.34%
90-150	1350.79	40.44%	40.44%
90-180	1604.21	48.03%	48.03%
0-129.80	2672.20	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	37.32
10-20	107.54
20-30	165.78
30-40	207.80
40-50	234.99
50-60	249.63
60-70	251.68
70-80	244.50
80-90	230.75
90-100	230.65
100-110	240.09
110-120	242.13
120-130	233.91
130-140	216.88
140-150	187.14
150-160	141.79
160-170	88.37
170-180	23.26



C45(Max): —————

C0/C180: —————

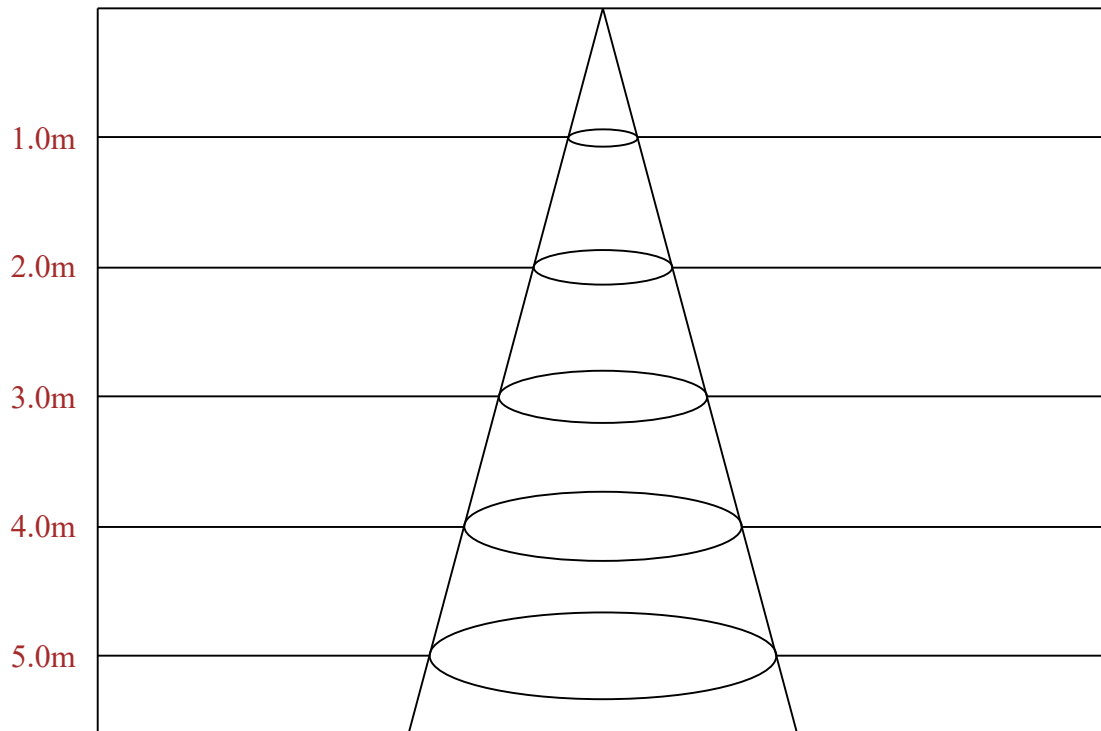
C90/C270: —————

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

:C90/270Left:0.0 Right:0.0

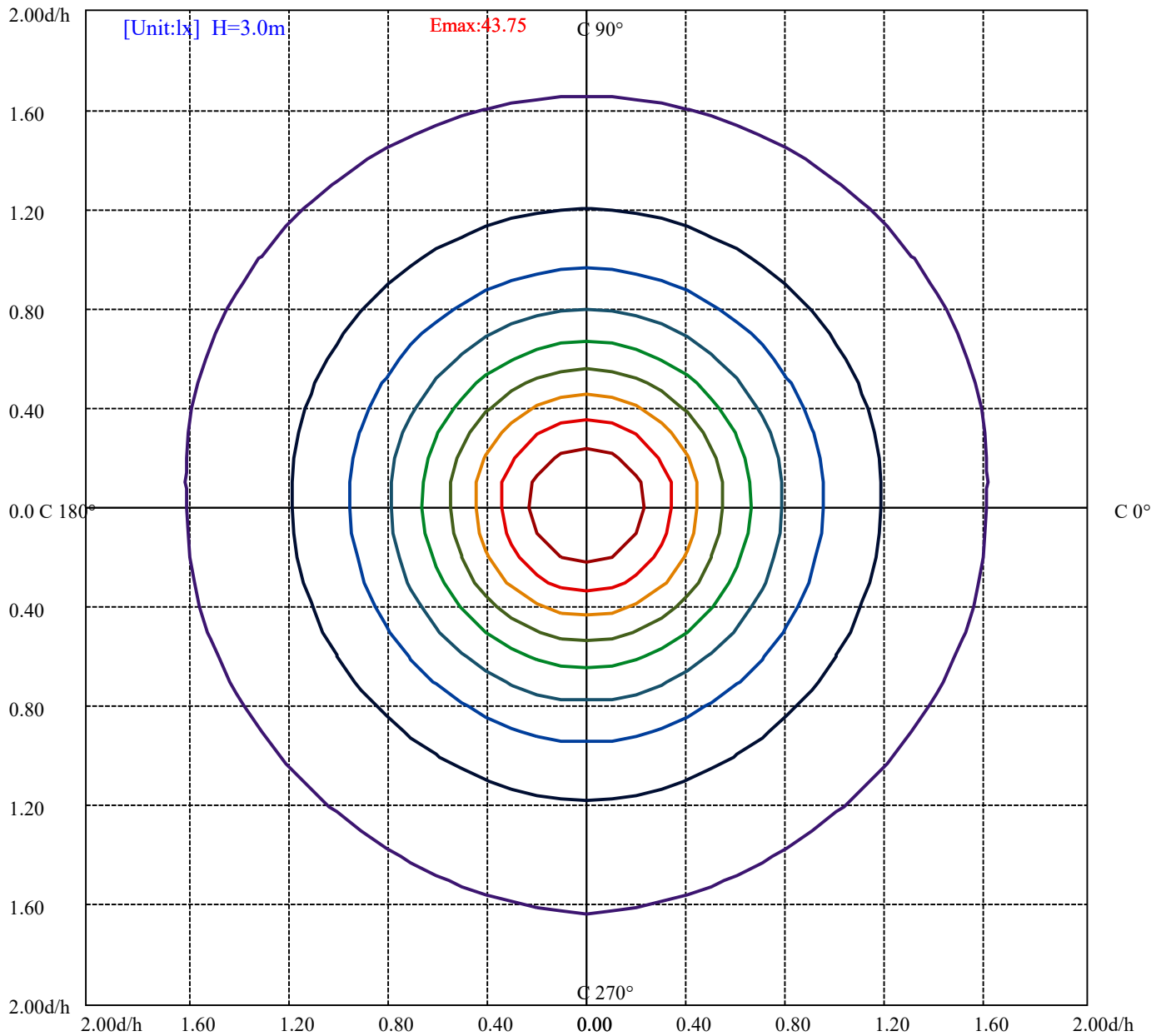
Beam Angle(50%Imax):C0/180Left:178.9 Right:178.9

:C90/270Left:0.0 Right:0.0

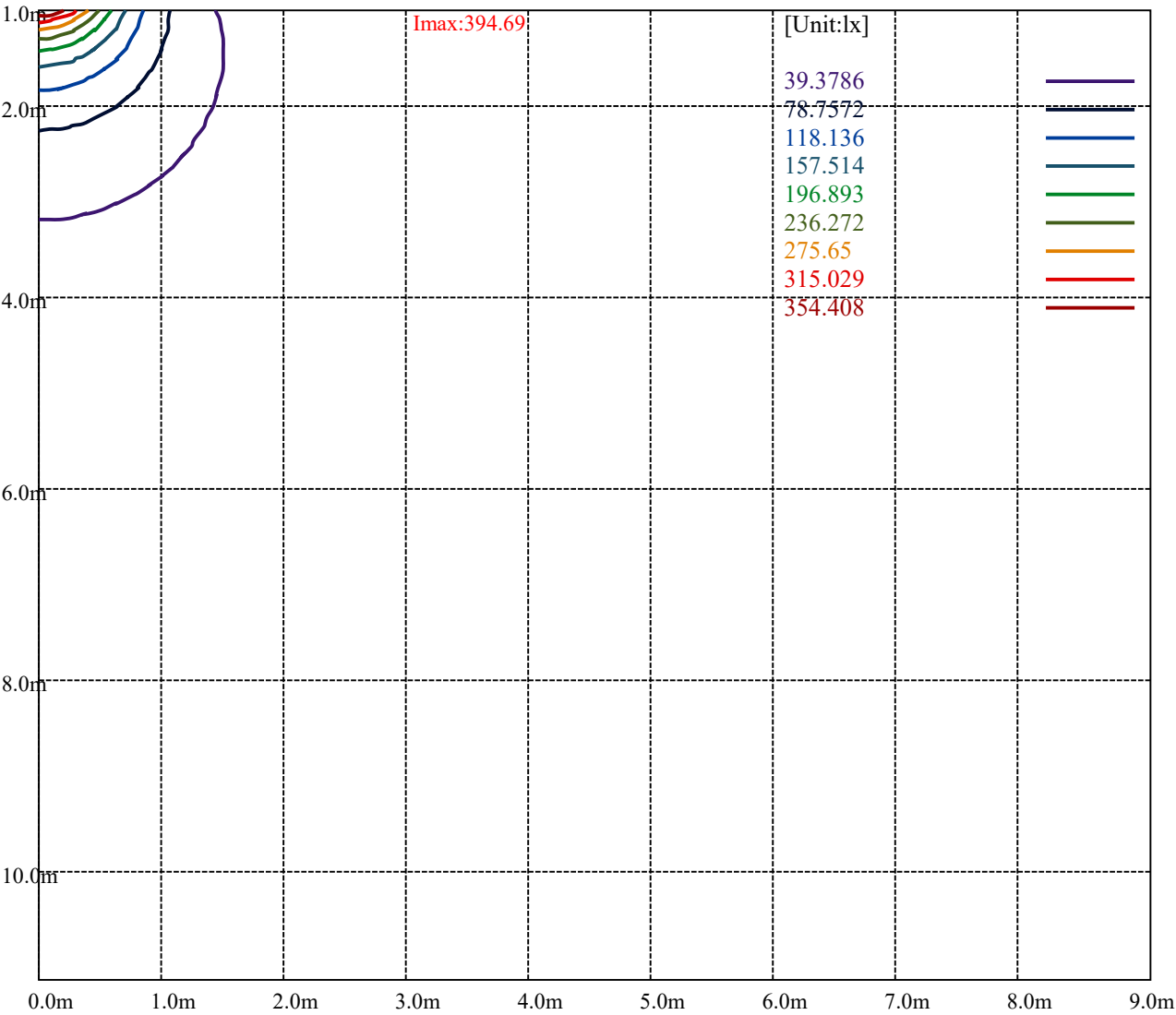


Max , Ave

Beam angle of C45 plane 258.10



(10%Emax) 4.3754	—
(20%Emax) 8.750812	—
(30%Emax) 13.12622	—
(40%Emax) 17.50167	—
(50%Emax) 21.877	—
(60%Emax) 26.25245	—
(70%Emax) 30.62778	—
(80%Emax) 35.00322	—
(90%Emax) 39.37867	—



Luminance Limiting Curve(no luminous side)

Luminance Table

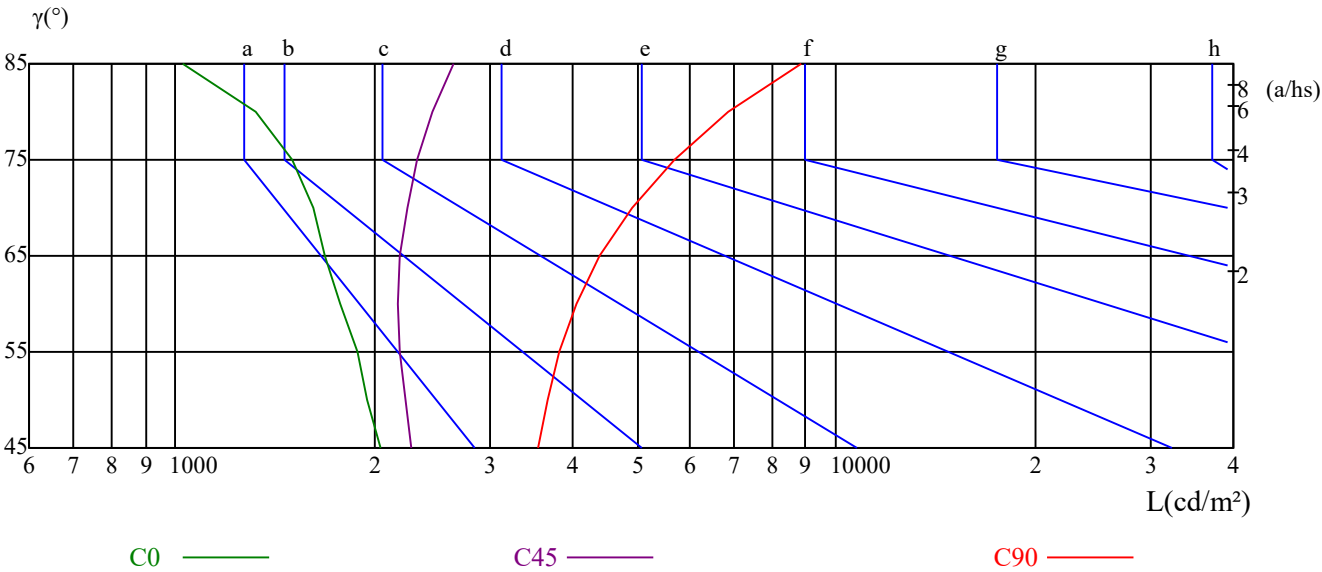
γ	45	50	55	60	65	70	75	80	85
C0	2038	1956	1881	1782	1685	1615	1507	1319	1028
C45	2277	2224	2186	2177	2192	2241	2325	2456	2633
C90	3541	3650	3807	4050	4398	4915	5694	6874	8841

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5298	5987	5695	7131	9346	8537	12773	26919	24244

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



RHOC	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	1.08	1.08	1.08	0.99	0.99	0.99	0.84	0.84	0.84	0.70	0.70	0.70	0.58	0.58	0.58	0.52
1	0.89	0.84	0.80	0.82	0.78	0.74	0.69	0.66	0.63	0.57	0.55	0.52	0.46	0.44	0.42	0.37
2	0.76	0.69	0.63	0.70	0.64	0.58	0.59	0.54	0.50	0.48	0.45	0.41	0.39	0.36	0.33	0.29
3	0.66	0.58	0.51	0.61	0.53	0.47	0.51	0.45	0.40	0.42	0.37	0.34	0.33	0.30	0.27	0.23
4	0.58	0.49	0.42	0.53	0.45	0.39	0.45	0.39	0.34	0.37	0.32	0.28	0.29	0.26	0.23	0.19
5	0.51	0.42	0.36	0.47	0.39	0.33	0.40	0.33	0.29	0.33	0.28	0.24	0.26	0.22	0.19	0.16
6	0.46	0.37	0.31	0.42	0.34	0.29	0.36	0.29	0.25	0.29	0.24	0.21	0.24	0.20	0.17	0.14
7	0.41	0.33	0.27	0.38	0.30	0.25	0.32	0.26	0.21	0.27	0.22	0.18	0.22	0.18	0.15	0.12
8	0.37	0.29	0.23	0.35	0.27	0.22	0.29	0.23	0.19	0.24	0.19	0.16	0.20	0.16	0.13	0.11
9	0.34	0.26	0.21	0.31	0.24	0.19	0.27	0.21	0.17	0.22	0.18	0.14	0.18	0.14	0.12	0.09
10	0.31	0.23	0.18	0.29	0.22	0.17	0.25	0.19	0.15	0.21	0.16	0.13	0.17	0.13	0.11	0.08

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	393.79	392.90	390.23	383.12	375.12	364.45	351.12	336.90	321.78
15.0	393.79	393.79	390.22	383.99	375.97	365.28	351.91	337.66	323.40
30.0	393.79	393.79	390.22	383.99	375.97	365.28	352.80	337.66	325.19
45.0	393.79	394.69	391.99	385.69	377.60	366.81	353.33	338.94	325.46
60.0	393.79	393.79	391.09	384.80	376.70	365.92	353.33	338.94	325.46
75.0	393.79	393.79	391.09	384.80	376.70	365.02	353.33	338.94	325.46
90.0	393.79	393.79	390.19	383.90	375.81	365.02	352.43	338.04	324.56
105.0	393.79	393.79	390.20	383.92	374.95	364.19	351.63	338.17	323.82
120.0	393.79	392.89	389.31	383.05	374.10	362.46	349.93	335.61	322.19
135.0	393.79	394.69	390.18	383.87	374.86	363.15	349.63	335.21	320.80
150.0	393.79	393.79	389.25	382.90	366.57	362.94	349.33	334.81	321.20
165.0	393.79	392.87	388.32	381.94	373.73	361.88	348.21	334.54	318.13
180.0	393.79	391.12	384.01	376.01	365.34	352.90	339.56	324.45	310.23
195.0	393.79	391.11	384.88	376.86	366.17	353.69	339.44	324.29	310.93
210.0	393.79	390.22	384.88	375.97	365.28	353.69	338.55	324.29	309.15
225.0	393.79	391.99	385.69	376.70	366.81	354.23	338.94	323.66	309.28
240.0	393.79	391.09	385.69	376.70	365.02	352.43	338.04	321.86	307.48
255.0	393.79	391.99	385.69	377.60	366.81	353.33	338.94	324.56	311.07
270.0	393.79	391.09	385.69	376.70	365.92	352.43	339.84	324.56	312.87
285.0	393.79	391.99	385.71	378.54	366.88	354.32	339.97	326.51	323.82
300.0	393.79	391.10	385.73	377.68	374.99	353.51	339.19	323.98	309.66
315.0	393.79	391.98	386.58	378.47	367.65	355.04	340.62	325.30	309.98
330.0	393.79	391.97	386.53	378.36	368.38	355.68	341.16	326.64	312.13
345.0	393.79	391.96	386.49	379.20	369.17	356.41	342.74	327.24	313.57
360.0	393.79	392.90	390.23	383.12	375.12	364.45	351.12	336.90	321.78
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	308.45	295.12	282.67	264.01	242.67	224.00	204.45	175.11	136.89
15.0	309.15	295.79	284.20	272.62	253.91	238.77	224.51	205.80	187.09
30.0	310.93	299.35	288.66	277.97	269.95	263.71	256.58	251.24	247.68
45.0	312.87	302.08	291.29	282.30	274.21	267.92	262.52	258.93	256.23
60.0	312.87	301.18	291.29	282.30	274.21	267.92	263.42	259.83	258.93
75.0	312.87	301.18	291.29	282.30	275.11	267.92	262.52	258.03	256.23
90.0	311.97	301.18	290.39	281.40	273.31	267.02	262.52	258.03	253.53
105.0	311.26	299.60	289.73	280.76	272.69	266.41	261.03	257.44	254.75
120.0	309.66	298.02	287.28	279.23	271.18	264.91	260.44	257.75	255.96
135.0	309.08	298.27	287.45	278.44	270.33	264.03	259.52	256.82	254.11
150.0	307.59	296.70	285.81	276.74	267.67	261.31	256.78	252.24	248.61
165.0	306.28	292.61	281.67	268.90	253.41	237.91	225.15	206.92	191.42
180.0	296.90	283.56	267.56	247.12	227.56	210.67	183.12	145.78	96.89
195.0	295.79	282.42	271.73	252.13	232.53	215.60	194.22	162.15	135.42
210.0	294.89	279.75	265.49	251.24	236.09	220.95	208.48	196.89	190.66
225.0	293.99	278.71	263.42	248.14	231.96	217.57	202.29	191.50	188.80
240.0	293.99	279.61	265.22	250.84	237.35	225.66	215.77	207.68	204.09
255.0	297.59	285.00	272.41	260.73	251.74	242.74	234.65	232.86	227.46
270.0	300.28	288.60	276.91	274.21	258.03	250.84	245.44	240.95	239.15
285.0	299.60	287.04	274.48	263.72	253.85	244.88	237.71	232.32	229.63
300.0	294.44	281.02	266.70	253.28	240.75	229.11	219.27	211.21	206.74
315.0	295.56	280.25	265.83	249.61	234.29	218.07	203.65	191.94	188.33
330.0	297.61	282.18	267.67	253.15	238.63	223.21	209.60	197.80	190.54
345.0	298.99	285.31	274.37	257.05	237.00	216.95	199.63	169.55	141.29
360.0	308.45	295.12	282.67	264.01	242.67	224.00	204.45	175.11	136.89

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	86.22	96.00	139.56	172.45	194.67	210.67	231.12	253.34	260.45
15.0	173.73	174.62	188.87	206.69	224.51	239.66	256.58	270.84	282.42
30.0	244.11	243.22	245.89	252.13	257.48	262.82	270.84	279.75	290.44
45.0	254.43	254.43	256.23	259.83	263.42	268.82	276.01	285.00	293.99
60.0	258.93	259.83	260.73	262.52	265.22	270.62	277.81	285.90	295.79
75.0	255.33	255.33	257.13	259.83	264.32	270.62	277.81	286.80	296.69
90.0	251.74	251.74	253.53	257.13	262.52	268.82	276.01	285.00	295.79
105.0	252.96	253.85	255.65	258.34	262.82	268.21	276.28	284.35	294.22
120.0	255.07	255.96	256.86	258.65	262.23	267.60	274.76	282.81	292.65
135.0	253.21	253.21	254.11	257.72	261.32	266.73	273.94	282.05	291.06
150.0	245.89	244.98	248.61	254.06	258.59	264.04	272.20	281.28	291.26
165.0	182.31	186.87	199.63	216.04	230.62	246.12	261.61	276.20	287.14
180.0	90.67	135.11	168.89	193.78	211.56	230.23	251.56	263.12	274.67
195.0	135.42	147.00	162.15	177.29	190.66	204.02	208.48	202.24	209.37
210.0	190.66	194.22	197.78	204.02	212.93	219.17	217.38	213.82	216.49
225.0	189.70	193.30	199.59	205.88	213.08	220.27	222.07	237.35	246.34
240.0	205.88	209.48	209.48	219.37	226.56	233.75	242.74	251.74	261.63
255.0	227.46	231.06	236.45	241.85	248.14	255.33	264.32	274.21	283.20
270.0	239.15	241.85	246.34	250.84	257.13	264.32	272.41	280.51	289.50
285.0	229.63	232.32	237.71	243.09	250.27	257.44	267.31	276.28	286.15
300.0	207.63	211.21	216.58	222.85	229.11	237.17	246.12	255.96	267.60
315.0	188.33	191.04	197.34	204.55	211.76	217.17	224.38	232.49	242.40
330.0	189.63	194.17	196.89	202.34	210.50	218.67	223.21	217.76	222.30
345.0	136.73	143.11	156.79	168.64	179.57	194.16	198.72	194.16	200.54
360.0	86.22	96.00	139.56	172.45	194.67	210.67	231.12	253.34	260.45
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	272.89	291.56	306.67	321.78	300.45	256.01	264.89	305.78	289.78
15.0	292.22	304.69	318.06	332.31	346.57	294.00	279.75	326.97	294.89
30.0	300.24	310.04	321.62	334.99	350.13	357.26	291.33	304.69	323.40
45.0	303.88	315.57	328.16	340.74	354.23	367.71	363.22	299.39	312.87
60.0	305.68	316.47	329.05	342.54	356.03	367.71	377.60	375.81	304.78
75.0	306.58	319.16	330.85	344.34	357.82	369.51	379.40	384.80	386.59
90.0	306.58	319.16	330.85	344.34	357.82	369.51	379.40	385.69	388.39
105.0	304.98	316.64	329.20	342.66	356.11	369.57	380.33	387.51	391.10
120.0	303.39	314.13	326.66	340.98	355.30	367.83	377.68	385.73	389.31
135.0	301.87	313.59	325.30	339.72	353.24	365.85	376.67	384.78	387.48
150.0	302.14	313.03	324.83	337.53	352.05	364.75	375.64	382.90	385.62
165.0	298.07	309.92	322.69	336.36	350.94	362.79	373.73	381.02	384.67
180.0	288.90	304.90	321.78	329.78	270.23	268.45	303.12	294.23	315.56
195.0	224.51	231.64	244.11	248.57	230.75	231.64	276.18	286.88	332.31
210.0	228.97	228.97	237.88	244.11	237.88	258.37	271.73	288.66	333.20
225.0	253.53	255.33	253.53	259.83	270.62	281.40	284.10	289.50	302.08
240.0	267.92	266.12	266.12	268.82	275.11	285.90	293.09	282.30	267.92
255.0	289.50	293.99	296.69	298.49	302.98	313.77	322.76	276.91	213.98
270.0	298.49	307.48	316.47	321.86	323.66	330.85	327.26	207.68	237.35
285.0	296.91	305.88	305.88	307.67	313.06	322.92	234.12	209.90	326.51
300.0	278.34	279.23	275.65	277.44	287.28	238.06	194.21	273.86	346.35
315.0	250.51	250.51	248.71	253.21	219.87	186.53	220.77	282.95	350.53
330.0	239.54	253.15	254.96	244.07	197.80	204.15	247.70	294.89	354.77
345.0	222.42	236.09	241.56	238.82	224.24	235.18	292.61	332.71	360.97
360.0	272.89	291.56	306.67	321.78	300.45	256.01	264.89	305.78	289.78

Intensity data(cd)

C/ γ (°)	180.0
0.0	333.34
15.0	321.62
30.0	296.68
45.0	296.69
60.0	284.10
75.0	302.08
90.0	383.90
105.0	386.61
120.0	383.94
135.0	383.87
150.0	383.81
165.0	383.76
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	333.34