
AFX

Client:

LumCAT: VRNV3007LAJUDSN

Luminaire: LED 灯具

Report No:

Ballast type:

Test No:

Voltage(V): 120.010

LampCAT:

Current(A): 0.324

Lamp flux(lm): 3232.2

Power (W): 38.510

Number of Lamps: 1

PF: 0.990

Length(mm): 750

Width(mm): 140

Phm Type: C

Height(mm): 140

Photometric Results

Lumens(lm): 3232.24, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 83.93

Central intensity(cd): 381.137, Maximum intensity(cd): 381.586

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 : 30.032%

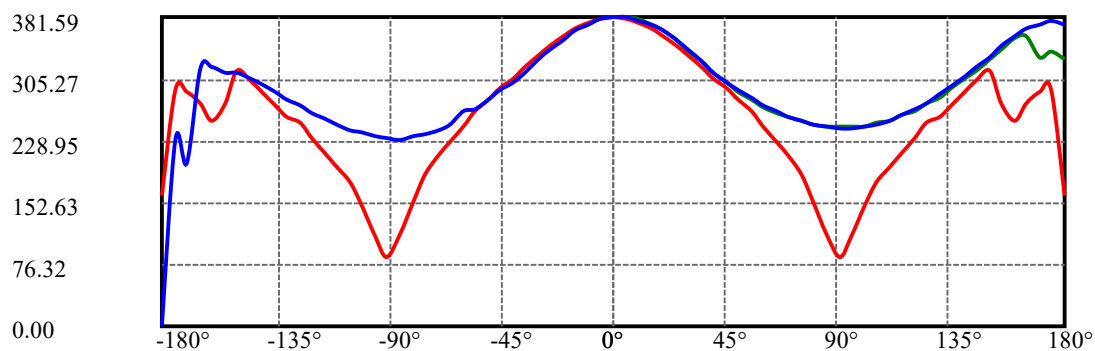
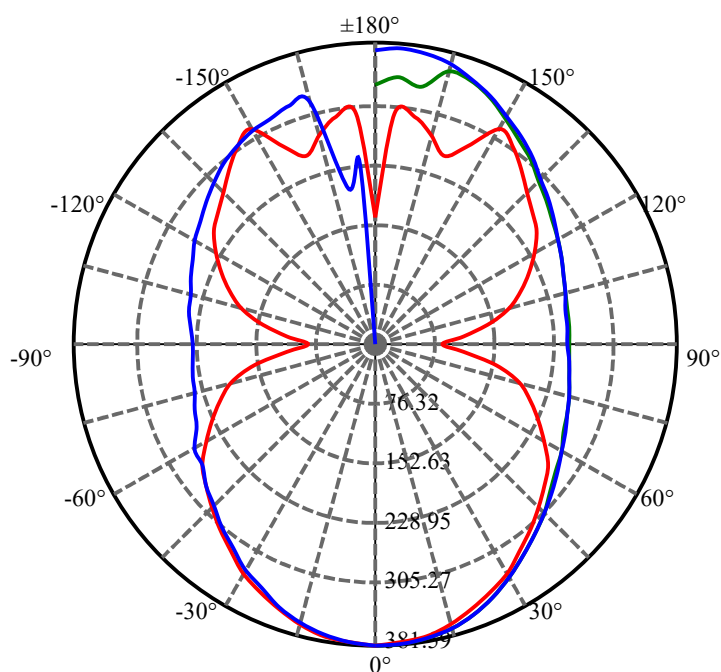
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	381.137	0.000	0	0.00%	0.00%
5.0	379.866	9.098	9.098	0.28%	0.28%
10.0	375.413	27.019	36.116	0.84%	1.12%
15.0	368.302	44.117	80.233	1.36%	2.48%
20.0	359.277	59.963	140.196	1.86%	4.34%
25.0	347.567	74.135	214.331	2.29%	6.63%
30.0	334.430	86.307	300.638	2.67%	9.30%
35.0	320.359	96.422	397.06	2.98%	12.28%
40.0	307.071	104.682	501.742	3.24%	15.52%
45.0	293.637	111.226	612.968	3.44%	18.96%
50.0	281.287	116.172	729.14	3.59%	22.56%
55.0	269.499	119.759	848.899	3.71%	26.26%
60.0	257.530	121.821	970.72	3.77%	30.03%
65.0	245.110	122.193	1092.913	3.78%	33.81%
70.0	234.145	121.350	1214.263	3.75%	37.57%
75.0	223.939	119.736	1333.999	3.70%	41.27%
80.0	212.764	116.849	1450.848	3.62%	44.89%
85.0	203.208	113.030	1563.878	3.50%	48.38%
90.0	199.450	110.251	1674.129	3.41%	51.79%
95.0	203.770	110.405	1784.534	3.42%	55.21%
100.0	211.415	112.816	1897.349	3.49%	58.70%
105.0	219.744	115.366	2012.715	3.57%	62.27%
110.0	227.629	116.936	2129.651	3.62%	65.89%
115.0	236.231	117.452	2247.104	3.63%	69.52%
120.0	244.417	116.846	2363.95	3.62%	73.14%
125.0	252.227	114.798	2478.748	3.55%	76.69%
130.0	260.909	111.573	2590.321	3.45%	80.14%
135.0	271.655	107.612	2697.933	3.33%	83.47%
140.0	280.339	102.206	2800.139	3.16%	86.63%
145.0	288.562	94.917	2895.056	2.94%	89.57%
150.0	296.295	86.124	2981.18	2.66%	92.23%
155.0	296.012	74.957	3056.137	2.32%	94.55%
160.0	297.305	62.228	3118.365	1.93%	96.48%
165.0	301.935	49.386	3167.751	1.53%	98.00%
170.0	307.397	36.145	3203.896	1.12%	99.12%
175.0	321.627	22.502	3226.398	0.70%	99.82%
180.0	166.935	5.841	3232.239	0.18%	100.00%

Zonal flux distribution table

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	300.64	9.30%	9.30%
0-40	501.74	15.52%	15.52%
0-60	970.72	30.03%	30.03%
0-90	1674.13	51.79%	51.79%
0-120	2363.95	73.14%	73.14%
0-180	3232.24	100.00%	100.00%
60-90	703.41	21.76%	21.76%
90-120	689.82	21.34%	21.34%
90-130	916.19	28.35%	28.35%
90-150	1307.05	40.44%	40.44%
90-180	1552.27	48.02%	48.02%
0-129.80	2585.79	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	36.12
10-20	104.08
20-30	160.44
30-40	201.10
40-50	227.40
50-60	241.58
60-70	243.54
70-80	236.59
80-90	223.28
90-100	223.22
100-110	232.30
110-120	234.30
120-130	226.37
130-140	209.82
140-150	181.04
150-160	137.18
160-170	85.53
170-180	22.50

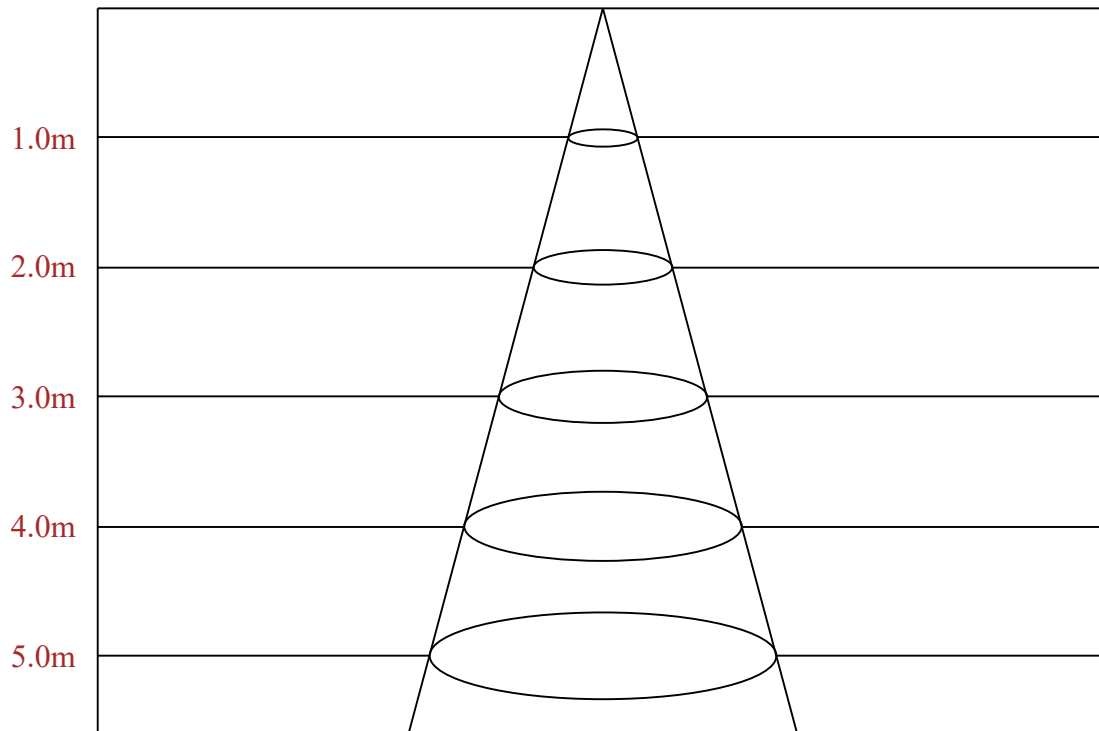
C45(Max): —————C0/C180: —————C90/C270: —————

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

:C90/270Left:0.0 Right:0.0

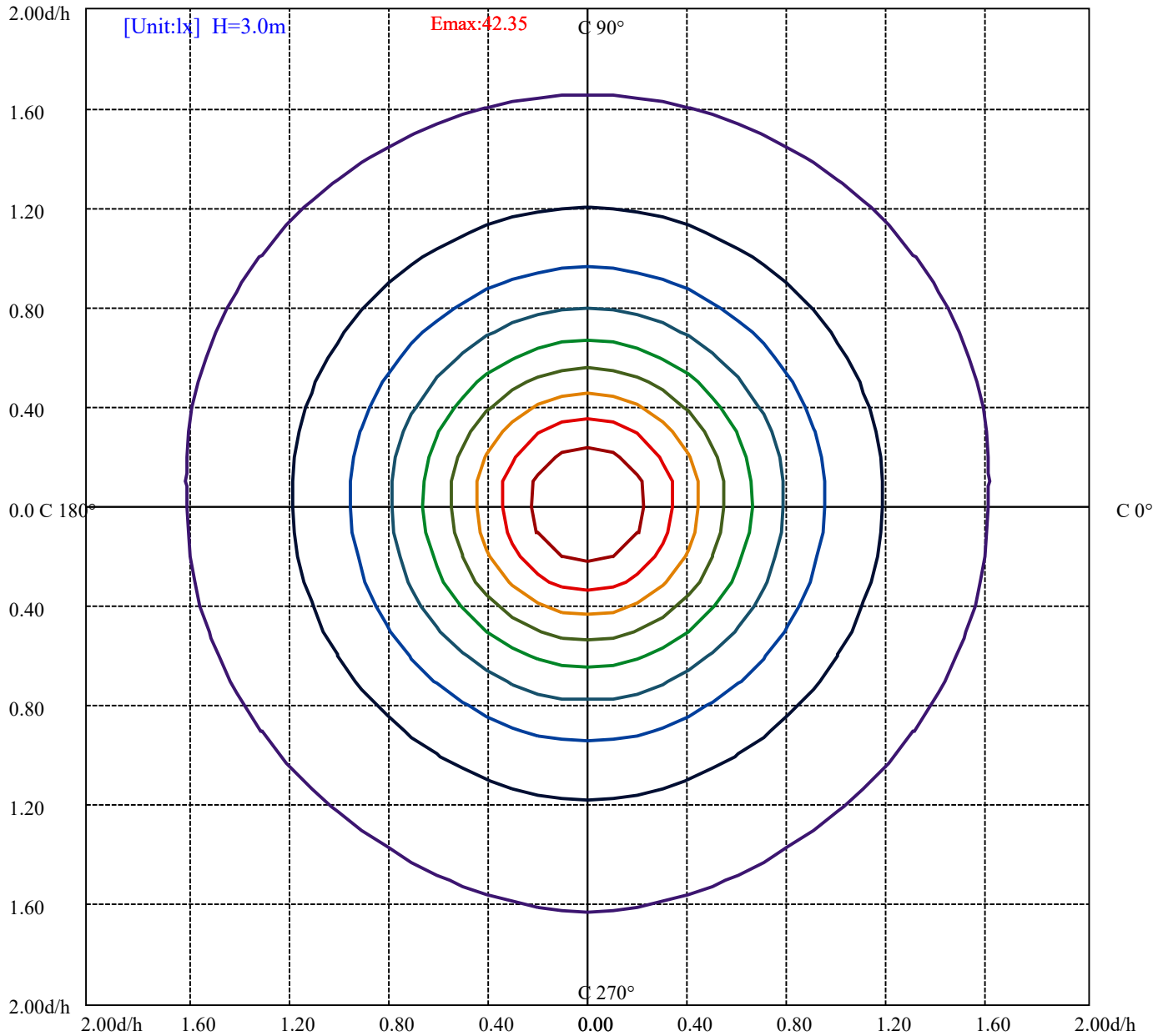
Beam Angle(50%Imax):C0/180Left:178.9 Right:178.9

:C90/270Left:0.0 Right:0.0

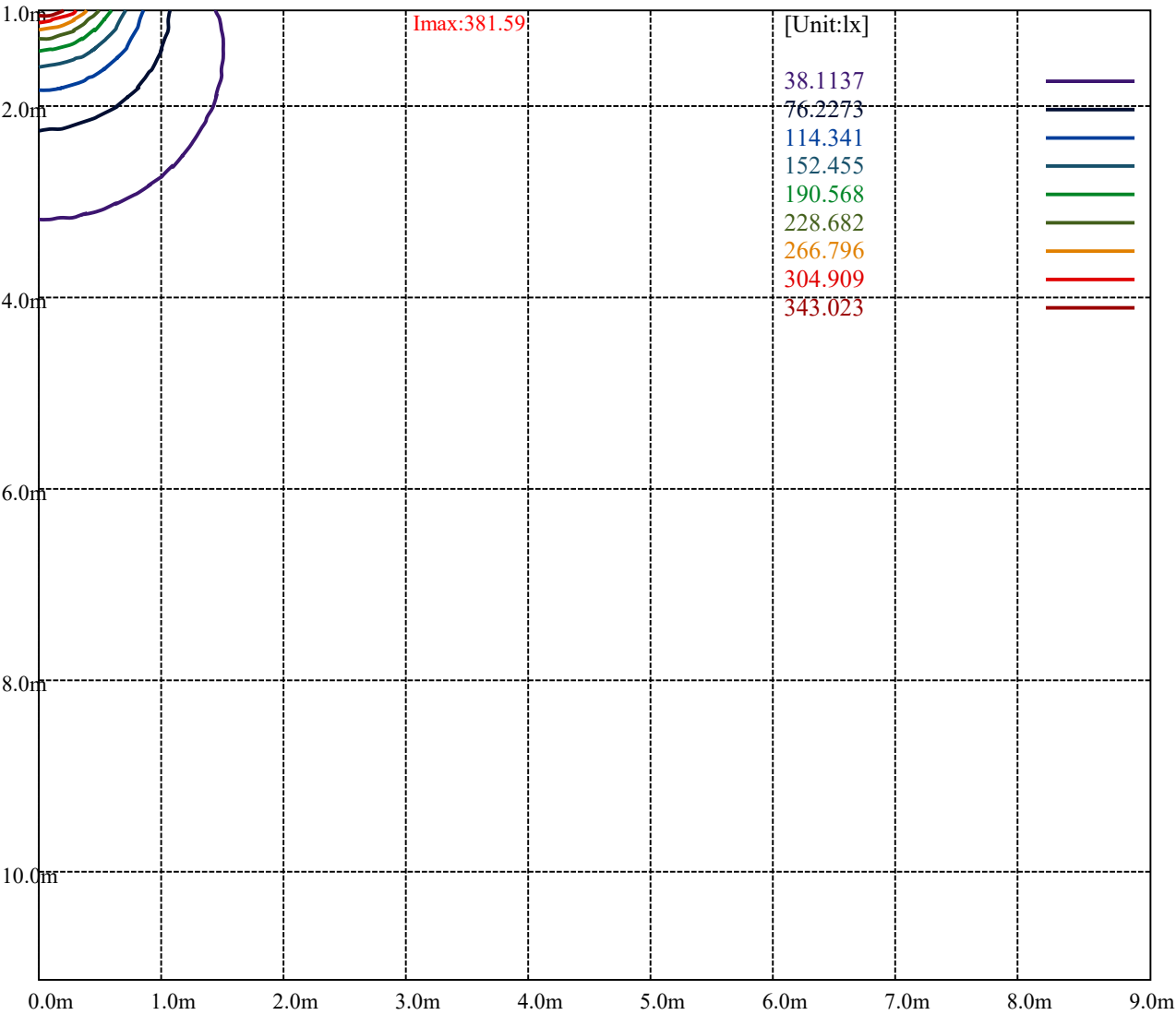


Max , Ave

Beam angle of C45 plane 258.02



(10%Emax) 4.234856	—
(20%Emax) 8.4697	—
(30%Emax) 12.70456	—
(40%Emax) 16.93945	—
(50%Emax) 21.17422	—
(60%Emax) 25.40911	—
(70%Emax) 29.644	—
(80%Emax) 33.87878	—
(90%Emax) 38.11367	—



Luminance Limiting Curve(no luminous side)

Luminance Table

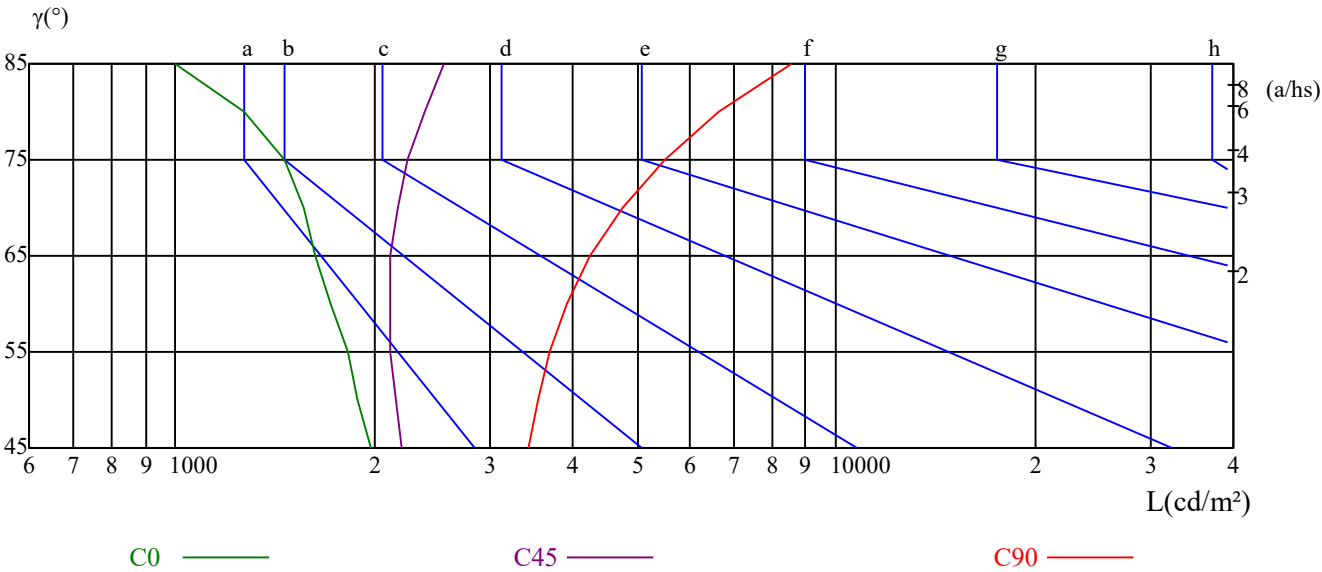
γ	45	50	55	60	65	70	75	80	85
C0	1971	1892	1823	1722	1630	1565	1458	1275	996
C45	2205	2150	2117	2107	2119	2168	2252	2378	2549
C90	3428	3530	3688	3920	4253	4748	5498	6634	8558

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5125	5794	5511	6898	9030	8263	12378	26030	23479

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	381.14	380.25	376.69	370.48	362.48	351.82	339.38	326.05	311.84
15.0	381.14	381.14	377.57	371.34	364.22	353.53	341.06	326.82	312.57
30.0	381.14	382.03	378.46	372.21	365.07	354.36	341.86	327.58	315.08
45.0	381.14	382.04	379.34	373.05	364.96	354.17	341.58	328.10	314.62
60.0	381.14	381.14	378.44	372.15	364.96	354.17	342.48	328.10	314.62
75.0	381.14	381.14	378.44	372.15	364.96	353.27	341.58	328.10	314.62
90.0	381.14	381.14	377.54	371.25	364.06	353.27	340.69	327.20	313.72
105.0	381.14	381.14	377.55	371.27	363.20	352.44	340.78	327.33	312.98
120.0	381.14	380.24	376.66	370.40	362.35	350.72	339.09	324.77	311.35
135.0	381.14	381.14	377.53	371.23	363.12	351.40	337.89	324.37	310.86
150.0	381.14	381.14	377.51	370.25	354.82	351.19	337.58	323.97	311.26
165.0	381.14	380.22	376.58	370.19	361.08	350.14	337.37	323.69	308.19
180.0	381.14	377.58	371.36	364.26	353.60	341.16	327.83	313.62	300.29
195.0	381.14	377.57	372.23	364.22	354.42	341.95	327.71	313.46	300.99
210.0	381.14	378.46	373.10	365.07	354.36	342.76	328.47	315.08	299.91
225.0	381.14	379.34	373.05	364.06	355.07	342.48	328.10	313.72	298.44
240.0	381.14	378.44	373.05	364.06	353.27	340.69	327.20	311.92	297.54
255.0	381.14	378.44	373.05	364.96	355.07	342.48	328.10	313.72	300.23
270.0	381.14	378.44	373.05	364.96	354.17	340.69	329.00	313.72	302.03
285.0	381.14	379.34	373.07	365.89	355.13	343.47	329.12	315.67	312.98
300.0	381.14	378.45	373.08	365.03	362.35	342.67	328.35	313.14	299.72
315.0	381.14	379.33	373.93	366.72	355.91	343.29	328.88	314.46	300.04
330.0	381.14	379.32	374.78	366.62	356.63	343.93	330.32	316.71	302.19
345.0	381.14	379.31	373.84	367.46	357.43	345.58	331.90	317.31	303.63
360.0	381.14	380.25	376.69	370.48	362.48	351.82	339.38	326.05	311.84

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	298.51	285.19	273.64	254.98	234.55	216.78	198.12	168.80	132.38
15.0	299.21	285.85	274.28	263.59	245.78	230.64	217.28	199.47	180.77
30.0	301.70	290.98	280.27	269.56	261.53	255.28	249.03	243.68	240.11
45.0	302.93	292.14	282.26	273.27	265.18	258.89	254.39	250.80	248.10
60.0	302.93	291.25	281.36	273.27	265.18	259.78	255.29	251.69	250.80
75.0	302.03	291.25	282.26	273.27	266.08	259.78	254.39	249.90	248.10
90.0	302.03	291.25	281.36	272.37	264.28	257.99	253.49	249.00	245.40
105.0	301.32	289.66	280.70	271.73	263.66	257.38	252.90	248.41	245.72
120.0	299.72	288.09	278.25	269.30	262.14	255.88	252.30	248.72	247.83
135.0	299.14	288.33	278.42	269.41	261.30	255.89	251.39	248.68	245.98
150.0	297.65	287.67	276.78	267.70	259.54	253.18	248.65	244.11	240.48
165.0	296.34	283.57	272.63	260.78	245.28	230.69	217.92	200.60	185.10
180.0	286.96	274.52	259.42	238.99	220.33	204.34	176.80	141.26	94.17
195.0	285.85	273.39	262.70	243.11	224.41	208.38	187.90	156.73	130.90
210.0	285.63	271.35	257.96	243.68	229.40	214.22	201.73	191.01	184.77
225.0	284.05	269.67	254.39	240.01	224.73	210.34	195.06	185.17	183.38
240.0	284.05	270.57	256.19	242.70	230.12	218.43	208.55	201.36	197.76
255.0	288.55	275.96	263.38	252.59	243.60	234.61	227.42	224.73	219.33
270.0	290.35	279.56	267.87	265.18	249.90	242.70	237.31	233.72	231.02
285.0	289.66	278.01	265.45	254.69	245.72	236.75	229.58	224.20	221.51
300.0	285.41	271.98	257.67	245.14	232.62	220.99	212.04	203.99	200.41
315.0	286.53	271.21	256.79	241.48	227.06	210.84	197.33	185.61	182.01
330.0	287.67	273.15	258.63	245.02	230.50	215.98	202.37	190.57	184.22
345.0	289.04	276.28	265.34	248.92	229.78	209.72	193.30	164.13	136.77
360.0	298.51	285.19	273.64	254.98	234.55	216.78	198.12	168.80	132.38

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	83.51	92.40	135.04	167.02	188.35	204.34	223.00	245.21	252.31
15.0	168.31	168.31	182.55	200.36	217.28	231.53	248.45	262.70	272.49
30.0	236.54	235.64	238.32	243.68	249.03	255.28	262.42	271.35	281.17
45.0	246.30	246.30	248.10	250.80	255.29	260.68	266.98	275.07	284.05
60.0	250.80	250.80	252.59	254.39	257.09	261.58	268.77	276.86	285.85
75.0	247.20	247.20	249.00	251.69	255.29	261.58	268.77	277.76	286.75
90.0	243.60	243.60	245.40	249.00	254.39	259.78	266.98	275.96	285.85
105.0	244.82	245.72	246.62	249.31	253.79	260.07	267.24	275.32	285.18
120.0	246.93	247.83	248.72	250.51	253.20	258.56	265.72	273.77	282.72
135.0	245.08	245.08	245.98	249.59	252.29	258.60	264.90	273.01	282.02
150.0	237.76	236.85	240.48	245.92	250.46	255.91	263.17	272.24	282.22
165.0	176.89	180.54	193.30	209.72	223.39	237.98	253.48	267.16	277.19
180.0	87.95	131.49	163.47	186.57	204.34	223.00	243.43	254.98	265.64
195.0	130.90	142.48	156.73	170.98	184.33	197.69	202.14	195.91	203.04
210.0	184.77	188.34	191.91	198.16	206.19	212.44	210.65	207.08	209.76
225.0	183.38	186.97	193.27	199.56	205.85	213.94	214.84	229.22	238.21
240.0	198.66	202.25	203.15	212.14	218.43	226.52	234.61	243.60	253.49
255.0	220.23	223.83	229.22	233.72	240.01	247.20	255.29	265.18	274.17
270.0	231.92	233.72	238.21	242.70	248.10	255.29	263.38	271.47	279.56
285.0	221.51	225.09	229.58	234.96	242.13	249.31	258.28	268.14	277.11
300.0	201.30	203.99	209.36	215.62	220.99	229.04	237.99	247.83	259.46
315.0	182.01	185.61	191.02	198.23	204.53	209.94	217.15	225.26	234.27
330.0	184.22	187.85	190.57	196.01	204.18	211.44	215.98	210.53	215.07
345.0	132.21	138.60	151.36	163.21	174.16	187.83	192.39	187.83	194.22
360.0	83.51	92.40	135.04	167.02	188.35	204.34	223.00	245.21	252.31
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	263.86	281.63	295.85	310.95	290.52	246.98	256.76	295.85	279.86
15.0	282.29	293.87	307.22	321.47	334.83	284.96	270.71	316.13	284.96
30.0	290.98	299.91	312.41	324.90	339.18	346.33	282.06	295.45	313.30
45.0	293.94	305.63	317.31	329.90	342.48	355.07	351.47	290.35	302.93
60.0	295.74	306.53	318.21	330.80	344.28	355.97	365.86	363.16	294.84
75.0	296.64	308.33	320.01	332.60	346.08	357.77	366.75	372.15	373.95
90.0	296.64	308.33	320.01	332.60	346.08	357.77	366.75	373.05	375.74
105.0	295.04	305.81	318.36	330.92	344.37	356.92	367.68	374.86	378.45
120.0	293.46	304.19	315.82	330.14	343.56	356.09	365.03	373.08	376.66
135.0	291.93	303.65	314.46	328.88	342.39	354.11	364.92	372.13	374.83
150.0	293.11	302.19	313.98	326.69	340.30	353.01	362.99	370.25	372.97
165.0	288.13	299.99	312.75	325.52	339.19	351.05	361.99	368.37	372.02
180.0	279.86	294.96	310.95	318.95	261.20	260.31	293.18	284.30	304.73
195.0	217.28	223.52	235.98	240.44	222.63	224.41	267.15	276.95	321.47
210.0	222.26	222.26	230.29	236.54	231.18	250.82	263.31	280.27	323.12
225.0	245.40	246.30	245.40	250.80	261.58	272.37	275.07	280.46	292.14
240.0	259.78	257.99	257.99	259.78	266.08	276.86	283.16	273.27	258.89
255.0	279.56	284.05	287.65	289.45	293.04	303.83	312.82	267.87	206.75
270.0	288.55	297.54	306.53	311.92	313.72	320.01	316.42	200.46	229.22
285.0	286.97	295.94	295.94	297.73	303.12	312.98	226.89	202.67	316.57
300.0	269.30	270.20	266.62	268.41	278.25	230.83	187.88	264.83	334.61
315.0	242.38	242.38	241.48	245.08	212.64	181.11	213.54	273.91	338.79
330.0	231.40	245.02	246.83	235.94	190.57	197.83	240.48	285.85	343.02
345.0	215.19	227.95	233.42	230.69	217.01	227.95	283.57	321.87	349.22
360.0	263.86	281.63	295.85	310.95	290.52	246.98	256.76	295.85	279.86

Intensity data(cd)

C/ γ (°)	180.0
0.0	322.50
15.0	310.79
30.0	287.41
45.0	286.75
60.0	275.07
75.0	292.14
90.0	372.15
105.0	373.96
120.0	372.19
135.0	371.23
150.0	371.15
165.0	371.11
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	322.50