
乐达凯

Client:

LumCAT: SYDP10LAJUDBK

Luminaire: LED lamp

Report No:

Ballast type:

Test No: LCZP25010159

Voltage(V): 120.020

LampCAT:

Current(A): 0.173

Lamp flux(lm): 1214.4

Power (W): 20.630

Number of Lamps: 1

PF: 0.993

Length(mm): -240

Width(mm): -240

Phm Type: C

Height(mm): 60

Photometric Results

Lumens(lm): 1214.37, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 58.86

Central intensity(cd): 131.908, Maximum intensity(cd): 132.947

Angle of maximum intensity: C=90.0 γ =10.0

Beam Angle(50%Imax): [C0/180]Total=346.6

[C90/270]Total=344.6

Field angle(10%Imax): [C0/180]Total=N.A.

[C90/270]Total=N.A.

Maximum s/h(1/2): C0_180=1.42 C90_270=1.44

Maximum s/h(1/4): C0_180=1.57 C90_270=1.59

Up flux rate of lamp(%): 49.92%

Down flux rate of lamp(%): 50.08%

Up flux rate of LUM(%): 49.92%

Down flux rate of LUM(%): 50.08%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 30.252%

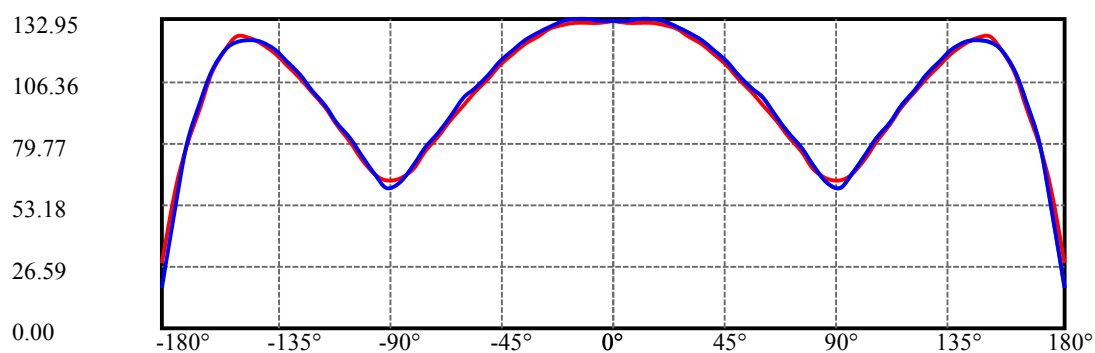
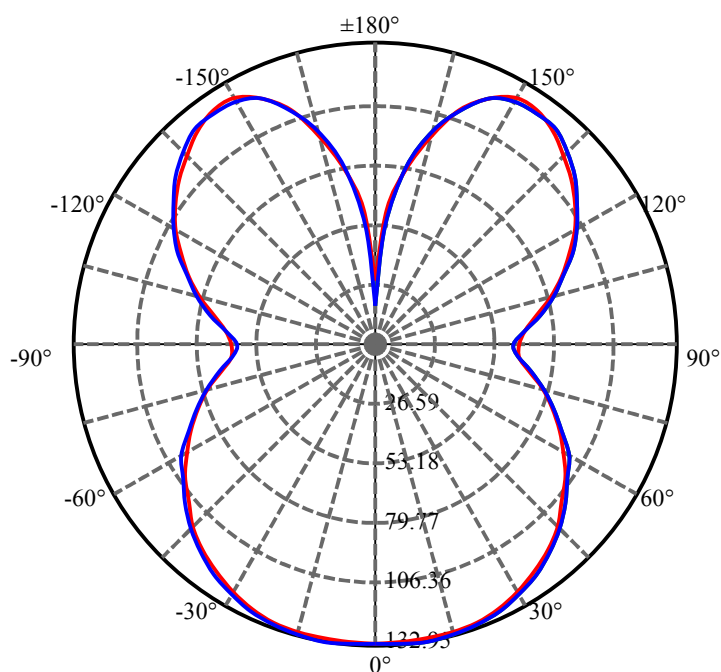
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	131.908	0.000	0	0.00%	0.00%
5.0	132.152	3.157	3.157	0.26%	0.26%
10.0	132.601	9.471	12.628	0.78%	1.04%
15.0	132.349	15.717	28.344	1.29%	2.33%
20.0	131.257	21.725	50.069	1.79%	4.12%
25.0	129.476	27.346	77.415	2.25%	6.37%
30.0	126.823	32.435	109.85	2.67%	9.05%
35.0	123.362	36.842	146.692	3.03%	12.08%
40.0	119.193	40.468	187.16	3.33%	15.41%
45.0	114.220	43.218	230.379	3.56%	18.97%
50.0	108.644	45.033	275.412	3.71%	22.68%
55.0	102.576	45.926	321.338	3.78%	26.46%
60.0	96.558	46.029	367.367	3.79%	30.25%
65.0	90.219	45.406	412.773	3.74%	33.99%
70.0	83.715	44.041	456.815	3.63%	37.62%
75.0	76.822	41.962	498.776	3.46%	41.07%
80.0	69.769	39.224	538	3.23%	44.30%
85.0	63.051	36.090	574.091	2.97%	47.27%
90.0	61.305	34.050	608.14	2.80%	50.08%
95.0	65.876	34.823	642.963	2.87%	52.95%
100.0	73.058	37.752	680.715	3.11%	56.06%
105.0	80.962	41.212	721.927	3.39%	59.45%
110.0	88.374	44.262	766.189	3.64%	63.09%
115.0	95.522	46.564	812.752	3.83%	66.93%
120.0	101.949	48.006	860.758	3.95%	70.88%
125.0	108.291	48.596	909.354	4.00%	74.88%
130.0	113.874	48.306	957.66	3.98%	78.86%
135.0	118.496	46.954	1004.614	3.87%	82.73%
140.0	121.756	44.485	1049.099	3.66%	86.39%
145.0	123.785	40.967	1090.065	3.37%	89.76%
150.0	123.745	36.451	1126.516	3.00%	92.77%
155.0	119.154	30.739	1157.255	2.53%	95.30%
160.0	110.504	24.087	1181.342	1.98%	97.28%
165.0	97.396	17.134	1198.476	1.41%	98.69%
170.0	77.348	10.366	1208.842	0.85%	99.54%
175.0	52.681	4.652	1213.493	0.38%	99.93%
180.0	20.465	0.874	1214.367	0.07%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	109.85	9.05%	9.05%
0-40	187.16	15.41%	15.41%
0-60	367.37	30.25%	30.25%
0-90	608.14	50.08%	50.08%
0-120	860.76	70.88%	70.88%
0-180	1214.37	100.00%	100.00%
60-90	240.77	19.83%	19.83%
90-120	252.62	20.80%	20.80%
90-130	349.52	28.78%	28.78%
90-150	518.38	42.69%	42.69%
90-180	605.35	49.85%	49.85%
0-131.47	971.49	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	12.63
10-20	37.44
20-30	59.78
30-40	77.31
40-50	88.25
50-60	91.96
60-70	89.45
70-80	81.19
80-90	70.14
90-100	72.57
100-110	85.47
110-120	94.57
120-130	96.90
130-140	91.44
140-150	77.42
150-160	54.83
160-170	27.50
170-180	4.65



C90(Max): —————

C0/C180: —————

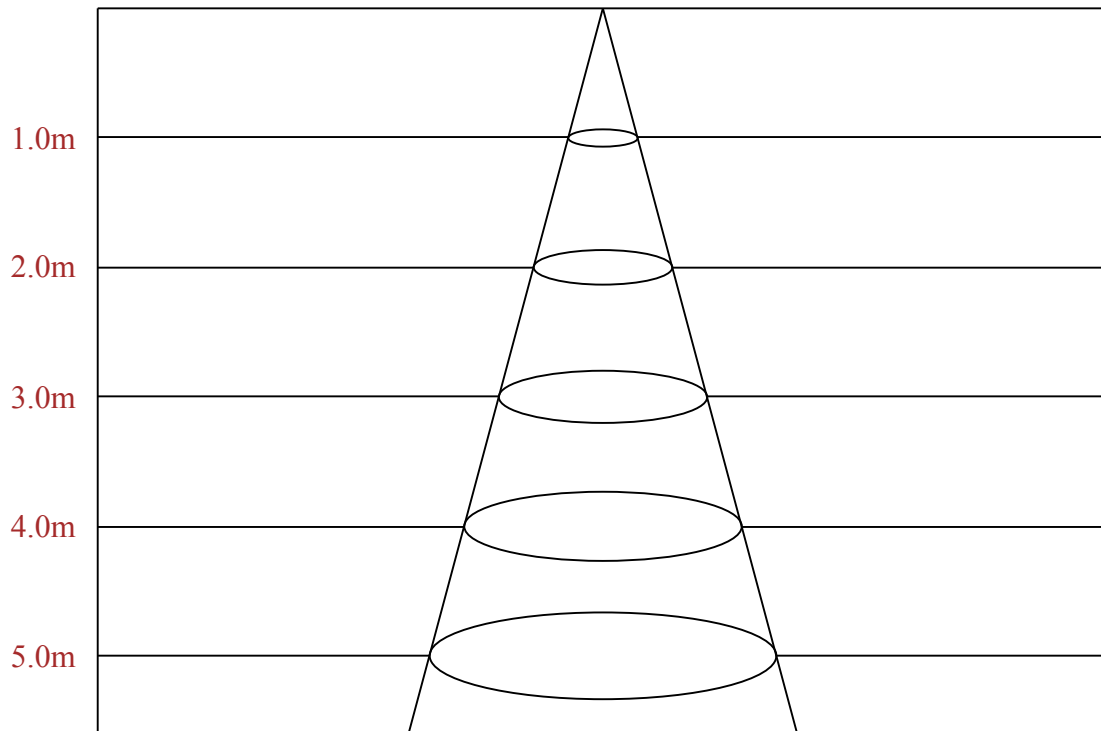
C90/C270: —————

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

:C90/270Left:0.0 Right:0.0

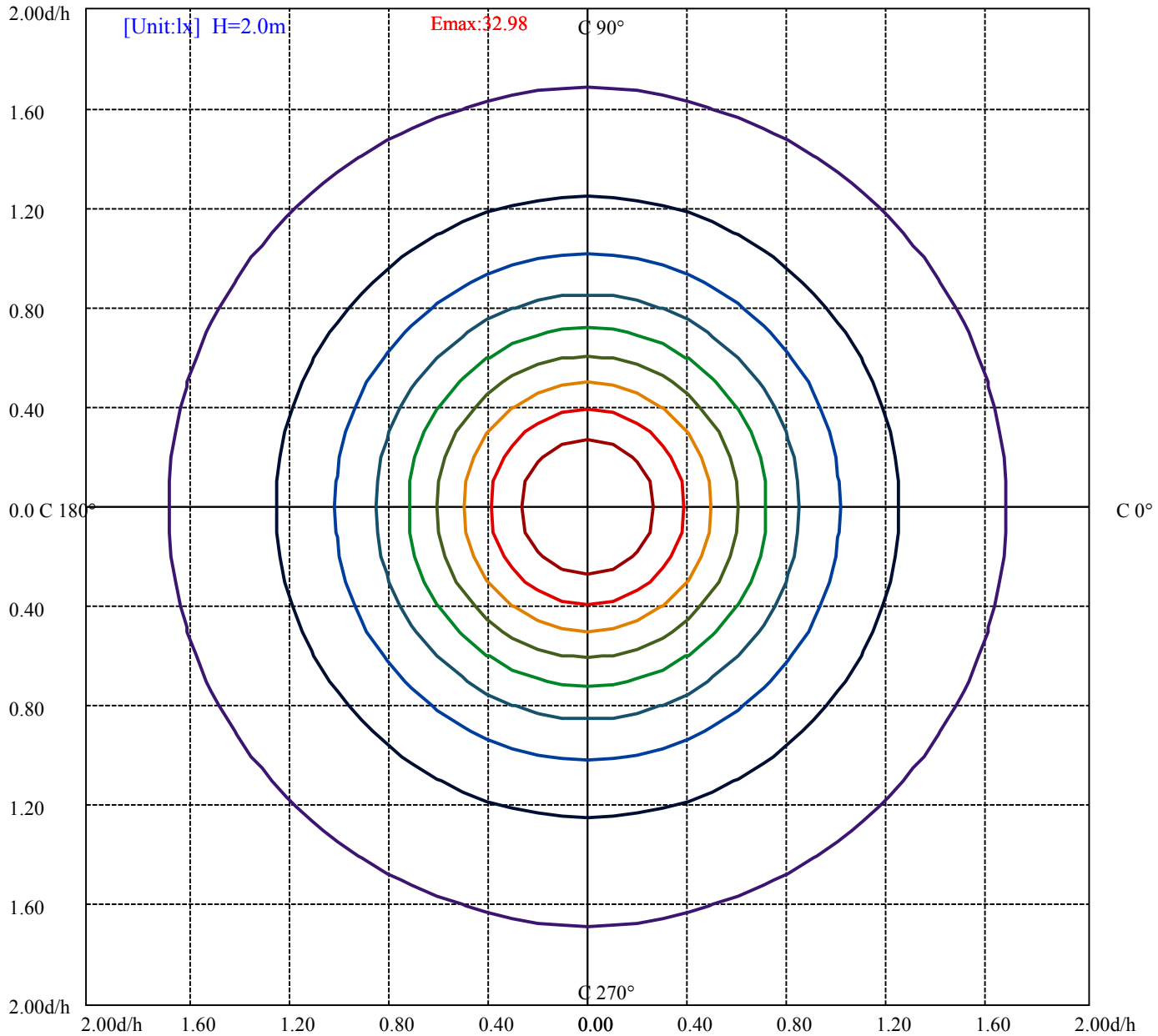
Beam Angle(50%Imax):C0/180Left:173.3 Right:173.3

:C90/270Left:182.3 Right:162.3

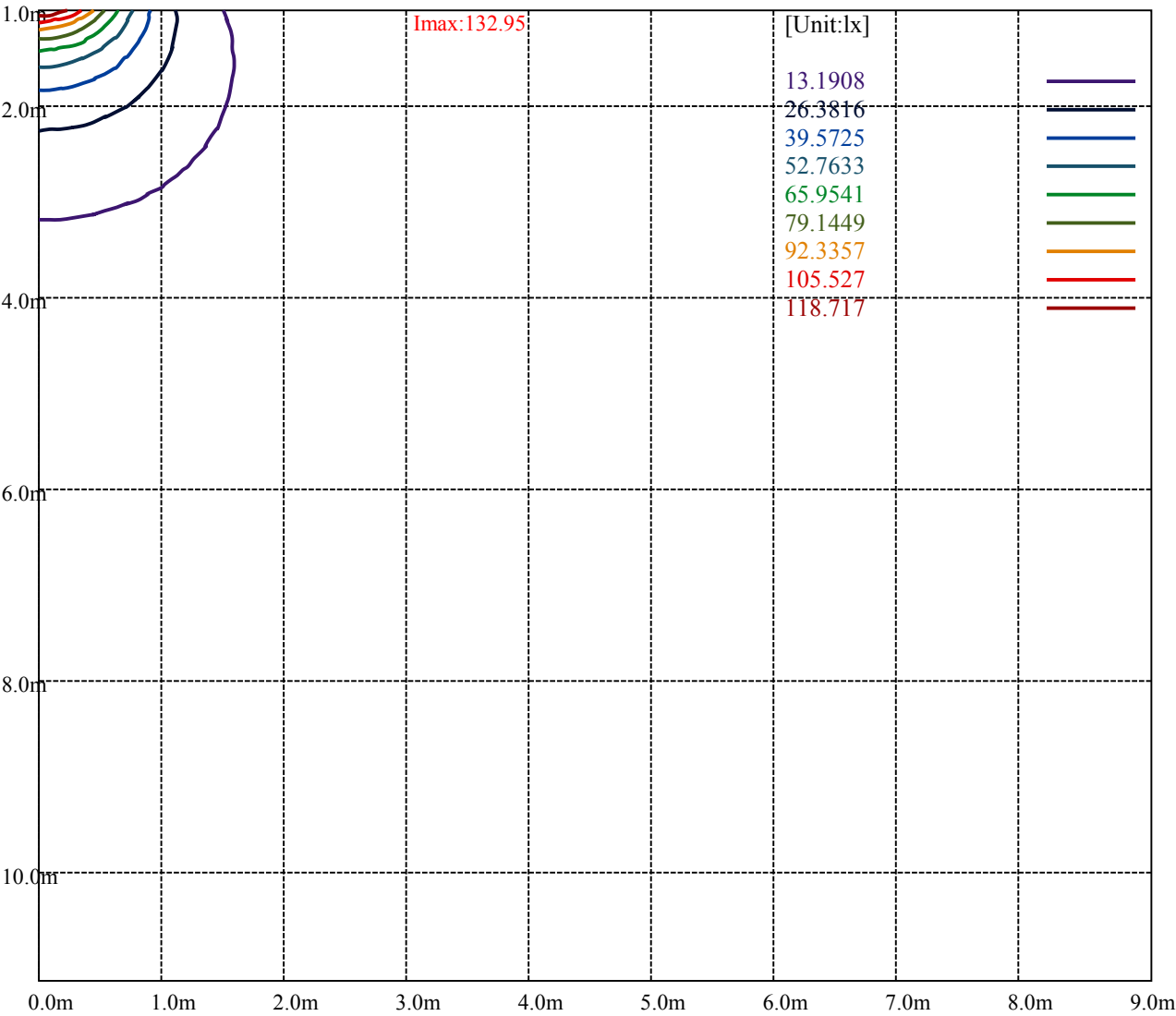


Max , Ave

Beam angle of C90 plane 254.98



(10%Emax) 3.2977	—
(20%Emax) 6.5954	—
(30%Emax) 9.893125	—
(40%Emax) 13.19083	—
(50%Emax) 16.48853	—
(60%Emax) 19.78622	—
(70%Emax) 23.08393	—
(80%Emax) 26.38175	—
(90%Emax) 29.67925	—



Luminance Table

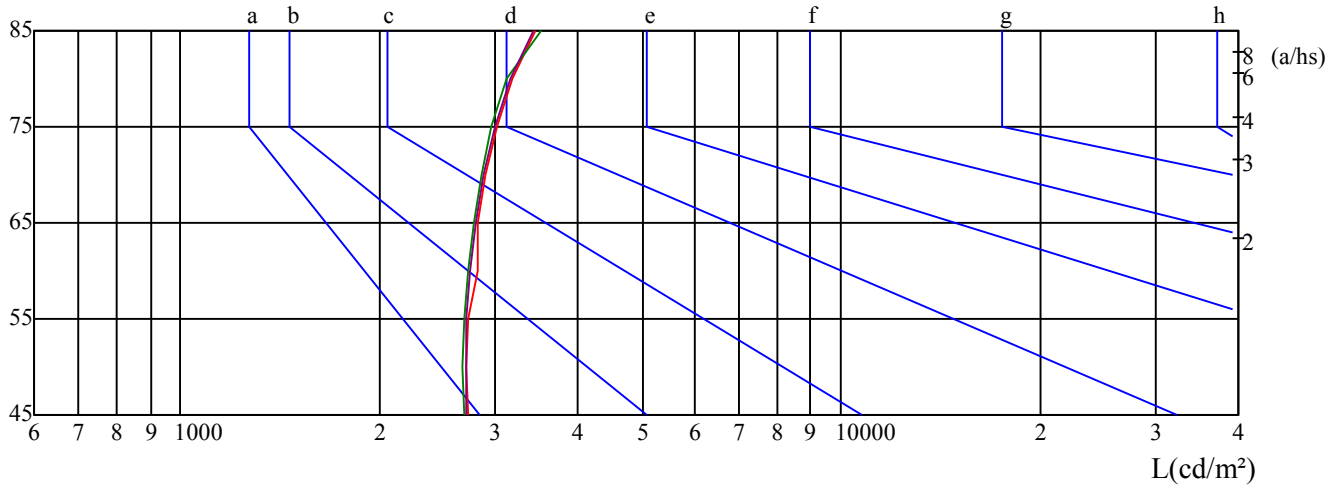
γ	45	50	55	60	65	70	75	80	85
C0	2684	2679	2698	2729	2775	2854	2961	3113	3507
C45	2705	2706	2714	2744	2803	2885	2999	3156	3434
C90	2719	2717	2727	2816	2812	2900	3019	3175	3436

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4670	4732	4716	6479	6605	6561	16265	15938	15929

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

 $\gamma(^{\circ})$ 

C0 ———

C45 ———

C90 ———

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	1.07	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	0.90	0.85	0.80	0.82	0.78	0.74	0.69	0.66	0.63	0.57	0.54	0.52	0.45	0.44	0.42	0.37
2	0.77	0.69	0.63	0.71	0.64	0.59	0.59	0.54	0.50	0.48	0.45	0.41	0.38	0.36	0.33	0.29
3	0.67	0.58	0.52	0.61	0.54	0.48	0.51	0.45	0.41	0.42	0.38	0.34	0.33	0.30	0.27	0.23
4	0.58	0.50	0.43	0.54	0.46	0.40	0.45	0.39	0.34	0.37	0.32	0.28	0.29	0.26	0.23	0.19
5	0.52	0.43	0.36	0.48	0.40	0.34	0.40	0.34	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	0.35	0.29	0.36	0.29	0.25	0.29	0.24	0.21	0.23	0.20	0.17	0.14
7	0.41	0.33	0.27	0.38	0.31	0.25	0.32	0.26	0.22	0.27	0.22	0.18	0.21	0.18	0.15	0.12
8	0.37	0.29	0.24	0.35	0.27	0.22	0.29	0.23	0.19	0.24	0.19	0.16	0.19	0.16	0.13	0.11
9	0.34	0.26	0.21	0.32	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	0.24	0.19	0.29	0.22	0.17	0.25	0.19	0.15	0.20	0.16	0.13	0.17	0.13	0.10	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	131.91	130.95	131.30	132.00	132.08	131.47	129.82	127.30	123.83
15.0	131.91	131.21	131.64	132.08	131.82	130.85	129.10	126.38	122.69
30.0	131.91	131.38	131.73	132.00	131.64	130.49	128.46	125.54	121.47
45.0	131.91	131.82	132.18	132.26	131.46	130.13	127.81	124.78	120.69
60.0	131.91	131.91	132.27	132.27	131.55	129.94	127.52	124.21	119.91
75.0	131.91	132.09	132.45	132.36	131.28	129.39	126.88	123.64	119.33
90.0	131.91	132.45	132.90	132.36	131.37	129.38	126.67	123.24	118.91
105.0	131.91	132.63	133.09	132.72	131.37	129.10	126.30	123.04	118.60
120.0	131.91	132.82	133.18	132.82	131.18	129.28	126.28	122.56	118.11
135.0	131.91	132.18	132.81	132.27	131.00	128.64	125.65	121.57	117.40
150.0	131.91	133.10	133.65	133.01	129.81	129.26	126.33	122.31	117.74
165.0	131.91	133.01	133.28	132.82	131.36	129.44	126.23	122.11	116.90
180.0	131.91	132.26	132.08	130.43	128.69	125.74	121.92	117.31	112.18
195.0	131.91	132.35	131.91	130.77	128.57	125.59	122.16	117.68	112.68
210.0	131.91	132.26	132.09	130.85	128.99	126.16	122.44	118.37	113.15
225.0	131.91	132.35	132.18	131.20	129.41	126.92	123.62	119.53	114.81
240.0	131.91	132.27	132.45	131.82	130.30	127.88	124.65	120.89	116.33
255.0	131.91	132.18	132.45	132.00	130.92	128.76	126.07	122.56	118.43
270.0	131.91	132.36	132.99	132.90	132.09	130.28	127.66	124.41	120.17
285.0	131.91	132.27	133.18	133.18	132.54	131.09	128.92	125.84	124.67
300.0	131.91	132.18	133.18	133.72	133.36	131.64	129.64	126.73	123.01
315.0	131.91	131.36	132.72	133.18	132.72	131.64	129.46	126.65	123.02
330.0	131.91	132.18	133.37	133.65	133.37	132.37	130.26	127.34	123.68
345.0	131.91	132.09	133.37	133.74	133.28	132.00	129.89	126.69	122.94
360.0	131.91	130.95	131.30	132.00	132.08	131.47	129.82	127.30	123.83
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	119.66	114.88	109.40	103.49	97.15	91.15	84.81	77.86	70.82
15.0	118.38	113.38	107.67	101.52	95.37	89.14	82.64	75.70	68.76
30.0	117.05	111.74	105.99	99.53	93.34	87.23	80.68	73.61	66.35
45.0	115.88	110.53	104.39	97.97	91.92	85.59	78.74	71.61	64.40
60.0	114.89	109.52	103.34	96.80	90.63	84.18	77.46	70.12	62.95
75.0	114.12	108.37	102.17	95.61	89.59	83.12	76.11	68.83	61.64
90.0	113.67	107.71	101.48	95.16	89.02	82.52	75.75	68.08	61.12
105.0	113.53	107.55	101.04	94.79	88.72	82.11	75.14	67.72	60.75
120.0	112.93	107.40	100.68	94.60	88.51	81.71	74.62	67.45	60.64
135.0	112.33	106.43	100.09	94.01	87.85	80.87	73.98	66.63	60.11
150.0	112.44	106.59	100.46	94.25	87.94	81.08	73.77	66.46	59.88
165.0	112.32	106.55	100.05	93.83	87.42	80.74	73.14	66.09	59.04
180.0	106.71	100.02	94.28	88.03	81.42	74.38	66.91	59.35	57.44
195.0	107.05	100.91	94.50	88.52	81.67	74.82	67.45	59.81	56.38
210.0	108.02	102.01	95.64	89.44	82.98	75.91	68.56	60.96	56.27
225.0	109.46	103.58	97.26	91.29	84.70	78.02	70.81	63.15	57.27
240.0	111.58	105.76	99.40	93.31	87.13	80.33	73.16	66.00	59.55
255.0	113.40	107.83	101.81	95.52	89.68	83.12	76.11	74.04	61.64
270.0	115.66	110.24	104.37	102.47	91.91	85.68	78.91	71.87	64.55
285.0	117.33	111.99	106.20	100.13	94.16	88.00	81.57	74.33	67.27
300.0	118.56	113.48	107.85	101.50	95.87	89.78	83.34	76.26	69.00
315.0	118.67	113.60	107.97	101.90	96.19	90.21	83.77	76.79	69.44
330.0	119.20	114.17	108.42	102.38	96.62	90.41	83.73	76.70	69.75
345.0	118.45	113.23	107.38	101.33	95.48	89.07	82.57	75.06	68.20
360.0	119.66	114.88	109.40	103.49	97.15	91.15	84.81	77.86	70.82

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	63.78	60.74	65.87	73.08	80.64	88.03	95.15	101.93	108.10
15.0	61.48	59.63	65.51	73.24	80.88	88.09	95.29	102.05	108.37
30.0	59.89	59.19	66.26	73.52	81.30	88.74	95.81	102.54	108.46
45.0	58.96	59.85	67.16	74.91	82.65	89.87	96.99	103.58	109.73
60.0	58.39	61.43	69.04	76.48	84.45	91.43	98.60	104.95	110.51
75.0	58.50	63.08	70.63	78.35	85.90	93.18	99.92	106.66	112.32
90.0	59.14	65.10	72.86	80.45	87.58	95.16	101.57	107.89	113.76
105.0	59.84	66.90	74.15	82.39	89.00	96.24	102.85	109.09	114.53
120.0	60.73	67.63	75.53	83.16	90.42	96.96	103.49	109.76	115.20
135.0	60.92	67.99	75.25	82.95	90.30	97.37	104.08	109.88	115.23
150.0	60.52	67.74	75.78	84.01	91.87	99.27	105.49	111.34	116.73
165.0	59.32	66.55	74.24	82.29	90.44	98.04	104.81	110.40	115.89
180.0	63.61	71.86	79.34	87.16	94.72	101.49	107.84	112.88	117.74
195.0	61.91	69.64	77.55	84.75	92.12	98.89	105.39	111.27	116.45
210.0	60.07	67.86	75.73	83.43	90.77	97.76	104.22	109.88	115.19
225.0	59.76	66.71	75.08	82.39	89.78	96.90	97.88	108.66	114.27
240.0	59.46	66.63	68.06	82.30	89.28	96.36	102.89	109.07	114.27
255.0	60.20	66.58	74.40	82.13	89.14	96.68	102.97	109.17	114.75
270.0	62.12	66.99	75.30	82.34	89.93	96.97	103.74	109.52	115.48
285.0	63.65	67.72	75.32	82.93	90.44	97.14	103.75	109.91	115.52
300.0	64.91	68.45	75.26	82.89	90.33	97.32	103.67	109.85	115.84
315.0	65.09	67.90	75.25	82.77	89.66	97.10	103.26	109.33	114.86
330.0	65.09	67.65	75.05	82.73	89.95	97.08	103.84	109.97	115.00
345.0	63.99	67.19	74.79	82.48	89.43	96.48	103.26	109.39	114.79
360.0	63.78	60.74	65.87	73.08	80.64	88.03	95.15	101.93	108.10
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	113.75	118.35	121.74	124.35	121.92	115.83	105.32	89.50	61.00
15.0	113.38	117.33	119.88	121.90	120.40	113.82	105.03	88.96	58.05
30.0	112.98	116.16	117.84	118.55	117.66	112.36	104.31	89.71	56.36
45.0	114.45	117.21	118.19	117.84	115.97	110.89	101.80	85.86	59.50
60.0	115.34	117.85	119.28	118.57	115.61	110.60	98.60	81.40	57.22
75.0	117.53	119.96	120.68	120.50	117.89	108.73	93.81	75.57	50.50
90.0	118.73	122.34	123.15	122.88	117.73	104.73	86.22	70.51	46.32
105.0	119.41	122.85	124.48	122.58	115.25	102.76	85.83	67.54	47.98
120.0	120.02	124.19	126.37	125.10	117.93	104.67	88.60	69.81	48.57
135.0	119.85	123.84	126.38	126.65	118.49	105.53	91.47	72.35	51.77
150.0	120.76	124.23	126.88	128.62	119.29	106.50	95.07	76.97	56.68
165.0	120.10	123.40	126.42	128.06	122.39	110.03	99.87	78.82	60.14
180.0	122.00	125.65	128.35	126.61	117.31	103.15	84.03	67.26	57.96
195.0	120.67	124.62	127.87	127.87	119.44	115.66	86.59	69.99	57.70
210.0	119.96	120.23	126.60	126.95	120.67	109.79	93.51	74.93	56.71
225.0	119.17	123.36	126.03	125.14	123.18	114.27	98.60	80.87	59.85
240.0	119.46	123.49	125.64	126.27	124.74	118.92	104.86	83.46	61.43
255.0	119.60	123.82	126.34	126.70	124.54	118.88	107.65	86.53	61.91
270.0	120.08	124.23	124.69	123.60	120.98	115.75	108.25	87.49	56.97
285.0	120.50	123.22	124.12	122.58	117.60	112.17	104.75	82.75	49.34
300.0	119.83	121.83	122.38	121.74	117.75	109.85	102.31	74.90	39.94
315.0	118.49	120.58	121.30	120.67	117.31	109.15	98.46	70.26	35.81
330.0	118.84	121.40	122.31	122.49	117.47	109.42	96.71	67.83	34.74
345.0	119.00	122.02	123.94	123.67	118.18	108.66	95.84	63.07	37.90
360.0	113.75	118.35	121.74	124.35	121.92	115.83	105.32	89.50	61.00

Intensity data(cd)

C/ γ (°)	180.0
0.0	56.31
15.0	46.72
30.0	45.03
45.0	43.38
60.0	41.55
75.0	37.92
90.0	34.13
105.0	28.97
120.0	29.96
135.0	36.81
150.0	42.51
165.0	47.88
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	56.31