
弗格斯莱

Client:

LumCAT: CLSP32LAJUDBK

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.276

Lamp flux(lm): 1904.1

Power (W): 33.040

Number of Lamps: 1

PF: 0.997

Length(mm): 760

Width(mm): 640

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1904.06, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 57.63

Central intensity(cd): 529.596, Maximum intensity(cd): 529.596

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=119.8

[C90/270]Total=121.4

Field angle(10%Imax): [C0/180]Total=204.8

[C90/270]Total=192.8

Maximum s/h(1/2): C0_180=1.27 C90_270=1.26

Maximum s/h(1/4): C0_180=1.40 C90_270=1.39

Up flux rate of lamp(%): 7.96%

Down flux rate of lamp(%): 92.04%

Up flux rate of LUM(%): 7.96%

Down flux rate of LUM(%): 92.04%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 64.318%

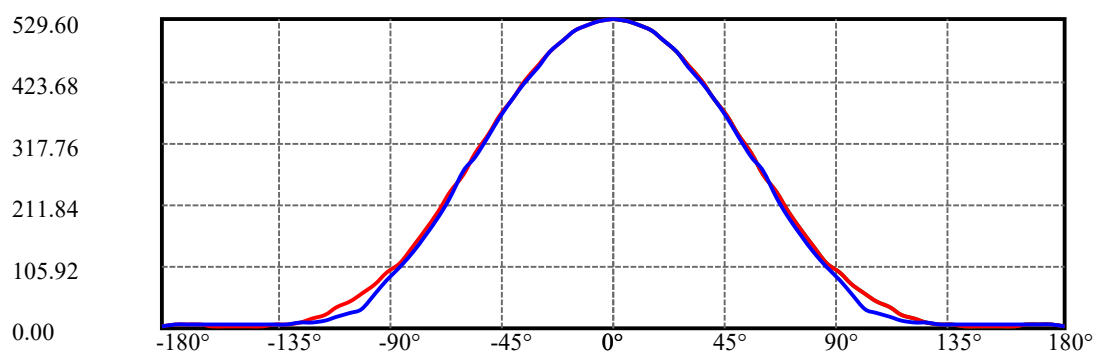
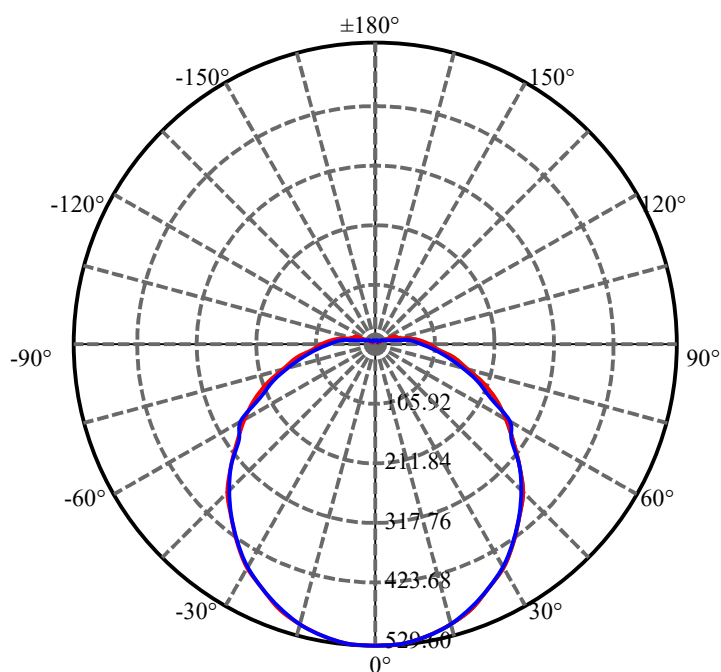
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	529.596	0.000	0	0.00%	0.00%
5.0	527.334	12.635	12.635	0.66%	0.66%
10.0	520.511	37.485	50.12	1.97%	2.63%
15.0	509.127	61.077	111.197	3.21%	5.84%
20.0	493.790	82.654	193.852	4.34%	10.18%
25.0	473.937	101.497	295.349	5.33%	15.51%
30.0	450.860	117.034	412.382	6.15%	21.66%
35.0	423.875	128.811	541.193	6.77%	28.42%
40.0	395.855	136.766	677.959	7.18%	35.61%
45.0	363.577	140.615	818.574	7.39%	42.99%
50.0	330.381	140.224	958.798	7.36%	50.36%
55.0	296.764	136.362	1095.16	7.16%	57.52%
60.0	263.492	129.501	1224.662	6.80%	64.32%
65.0	228.758	119.667	1344.329	6.28%	70.60%
70.0	196.024	107.557	1451.886	5.65%	76.25%
75.0	165.897	94.600	1546.486	4.97%	81.22%
80.0	139.525	81.722	1628.209	4.29%	85.51%
85.0	113.462	68.743	1696.951	3.61%	89.12%
90.0	89.272	55.510	1752.461	2.92%	92.04%
95.0	69.559	43.489	1795.95	2.28%	94.32%
100.0	48.237	32.008	1827.958	1.68%	96.00%
105.0	35.360	22.368	1850.327	1.17%	97.18%
110.0	25.205	15.831	1866.157	0.83%	98.01%
115.0	17.352	10.776	1876.933	0.57%	98.58%
120.0	12.336	7.217	1884.15	0.38%	98.95%
125.0	9.425	5.030	1889.18	0.26%	99.22%
130.0	7.013	3.574	1892.755	0.19%	99.41%
135.0	5.481	2.525	1895.279	0.13%	99.54%
140.0	4.601	1.867	1897.146	0.10%	99.64%
145.0	4.333	1.491	1898.637	0.08%	99.72%
150.0	4.294	1.270	1899.907	0.07%	99.78%
155.0	4.601	1.126	1901.033	0.06%	99.84%
160.0	4.908	0.997	1902.03	0.05%	99.89%
165.0	5.176	0.831	1902.861	0.04%	99.94%
170.0	5.828	0.653	1903.514	0.03%	99.97%
175.0	6.287	0.433	1903.947	0.02%	99.99%
180.0	3.105	0.112	1904.059	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	412.38	21.66%	21.66%
0-40	677.96	35.61%	35.61%
0-60	1224.66	64.32%	64.32%
0-90	1752.46	92.04%	92.04%
0-120	1884.15	98.95%	98.95%
0-180	1904.06	100.00%	100.00%
60-90	527.80	27.72%	27.72%
90-120	131.69	6.92%	6.92%
90-130	140.29	7.37%	7.37%
90-150	147.45	7.74%	7.74%
90-180	151.49	7.96%	7.96%
0-73.77	1523.25	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	50.12
10-20	143.73
20-30	218.53
30-40	265.58
40-50	280.84
50-60	265.86
60-70	227.22
70-80	176.32
80-90	124.25
90-100	75.50
100-110	38.20
110-120	17.99
120-130	8.60
130-140	4.39
140-150	2.76
150-160	2.12
160-170	1.48
170-180	0.43



C0(Max):

C0/C180:

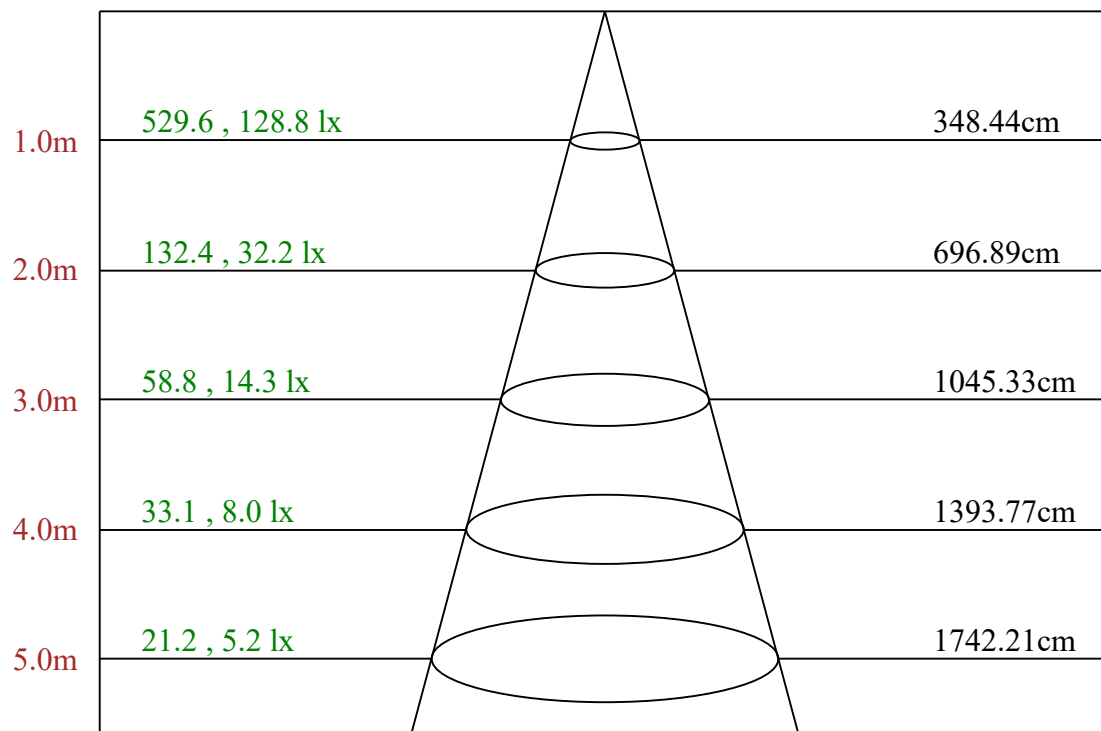
C90/C270:

Field angle(10%Imax):C0/180Left:102.4 Right:102.4

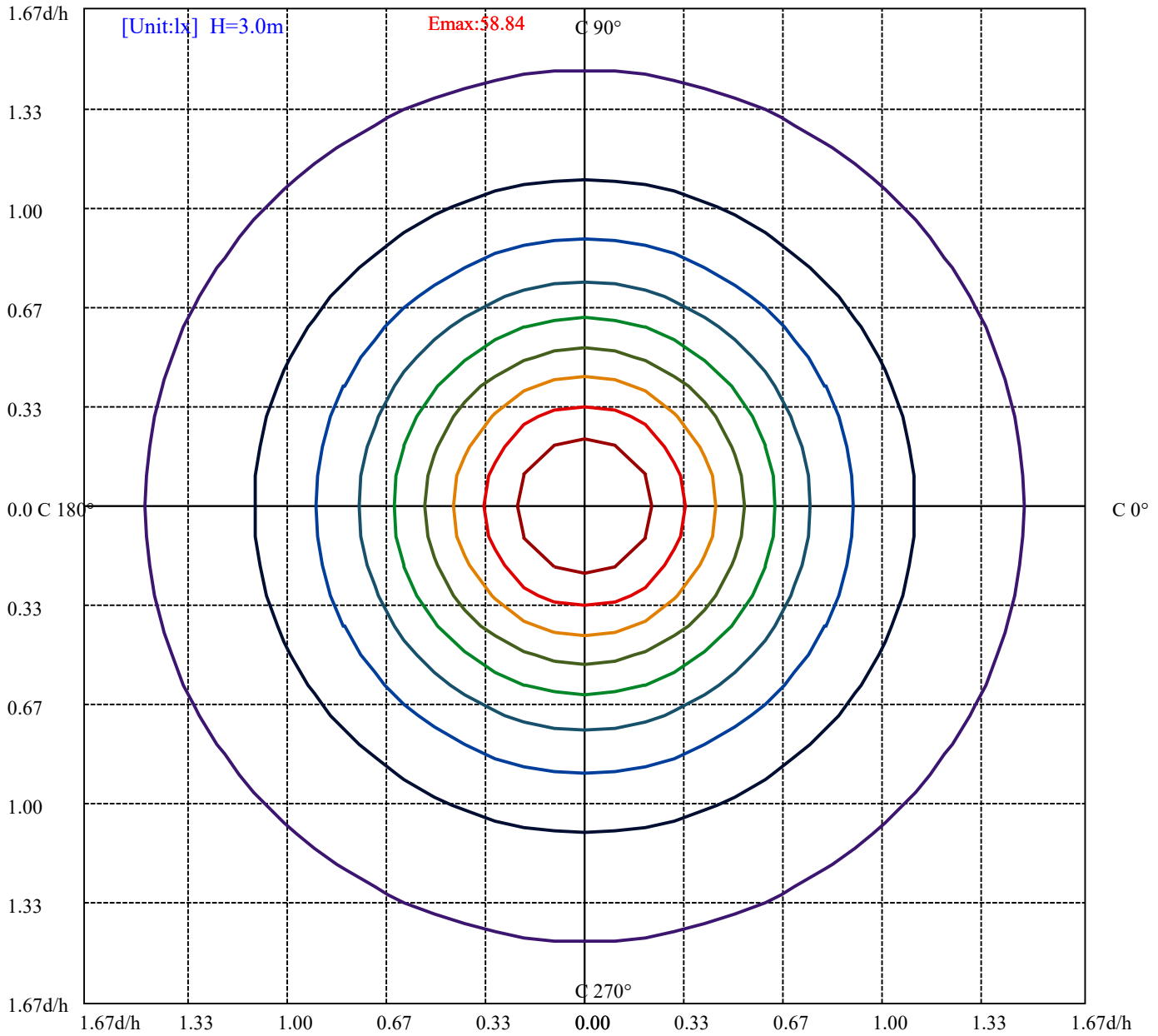
:C90/270Left:96.4 Right:96.4

Beam Angle(50%Imax):C0/180Left:59.9 Right:59.9

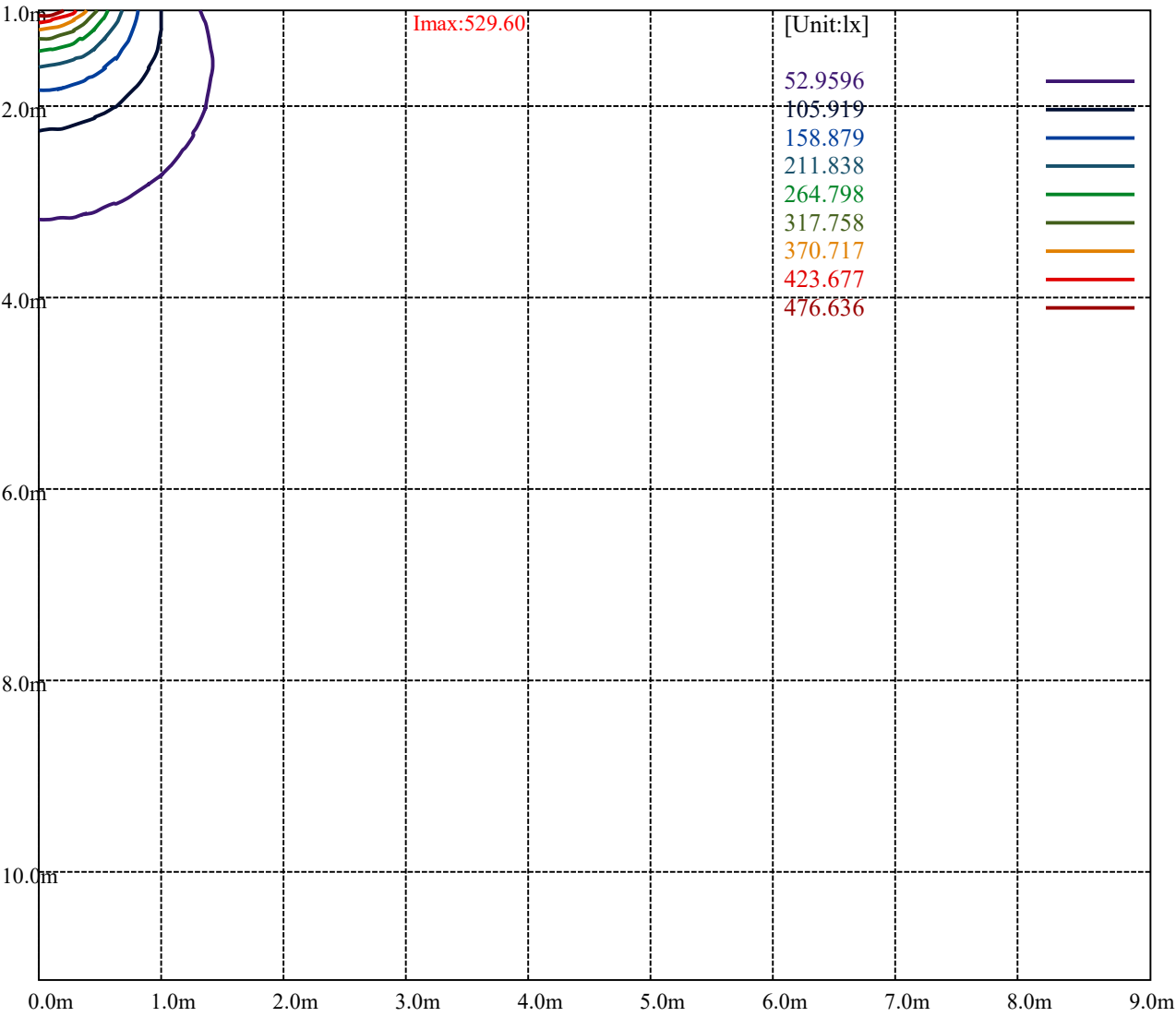
:C90/270Left:60.7 Right:60.7



Max , Ave Beam angle of C0 plane 120.29



(10%Emax) 5.8844	—
(20%Emax) 11.76878	—
(30%Emax) 17.65322	—
(40%Emax) 23.53756	—
(50%Emax) 29.422	—
(60%Emax) 35.30633	—
(70%Emax) 41.19078	—
(80%Emax) 47.07522	—
(90%Emax) 52.95955	—



Luminance Table

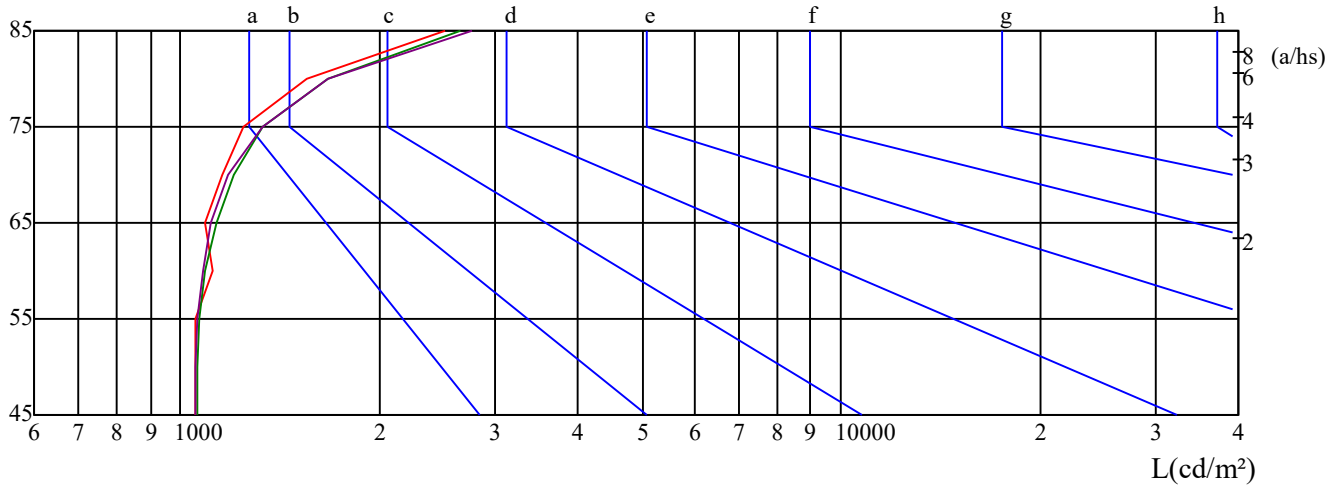
γ	45	50	55	60	65	70	75	80	85
C0	1062	1062	1070	1087	1134	1201	1328	1672	2646
C45	1054	1056	1062	1078	1111	1182	1332	1667	2762
C90	1050	1052	1055	1115	1089	1154	1247	1548	2509

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1134	1089	1111	1328	1247	1332	2646	2509	2762

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 ———

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	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.00	1.00	1.00	0.95	0.95	0.95	0.92
1	0.99	0.94	0.89	0.96	0.91	0.87	0.90	0.86	0.82	0.85	0.81	0.79	0.80	0.77	0.75	0.72
2	0.85	0.77	0.71	0.82	0.75	0.69	0.77	0.71	0.66	0.73	0.68	0.64	0.69	0.65	0.61	0.58
3	0.74	0.65	0.58	0.72	0.64	0.57	0.68	0.61	0.55	0.64	0.58	0.53	0.60	0.55	0.51	0.48
4	0.65	0.56	0.49	0.63	0.55	0.48	0.60	0.52	0.46	0.56	0.50	0.45	0.53	0.48	0.43	0.41
5	0.58	0.49	0.42	0.56	0.48	0.41	0.53	0.46	0.40	0.50	0.44	0.39	0.48	0.42	0.37	0.35
6	0.52	0.43	0.36	0.51	0.42	0.36	0.48	0.40	0.35	0.46	0.39	0.34	0.43	0.37	0.33	0.30
7	0.47	0.38	0.32	0.46	0.37	0.31	0.44	0.36	0.30	0.41	0.35	0.30	0.39	0.33	0.29	0.27
8	0.43	0.34	0.28	0.42	0.34	0.28	0.40	0.32	0.27	0.38	0.31	0.26	0.36	0.30	0.26	0.24
9	0.39	0.31	0.25	0.38	0.30	0.25	0.37	0.29	0.24	0.35	0.28	0.24	0.33	0.28	0.23	0.21
10	0.36	0.28	0.23	0.35	0.28	0.23	0.34	0.27	0.22	0.32	0.26	0.22	0.31	0.25	0.21	0.19

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Intensity data(cd)										Appendix Page: 10 Total:12	
C/ γ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0		
0.0	529.60	531.41	529.60	522.33	512.34	496.89	476.91	453.29	426.95		
15.0	529.60	533.25	532.34	526.85	518.62	503.07	485.69	462.82	437.21		
30.0	529.60	535.10	534.19	528.68	519.50	505.73	487.37	467.18	442.40		
45.0	529.60	534.19	534.19	529.60	519.50	506.65	489.21	467.18	441.48		
60.0	529.60	534.20	535.12	530.52	520.39	506.57	489.07	466.97	442.10		
75.0	529.60	534.20	534.20	528.67	518.54	505.65	486.31	464.20	438.41		
90.0	529.60	533.28	532.36	525.91	516.70	501.96	482.62	459.60	433.81		
105.0	529.60	533.29	530.52	524.06	513.91	498.23	478.85	454.86	427.18		
120.0	529.60	531.44	527.75	520.37	508.38	491.77	471.47	445.64	418.88		
135.0	529.60	529.60	524.98	515.76	502.84	483.46	462.24	437.33	408.73		
150.0	529.60	528.67	522.19	512.00	482.38	478.67	454.60	428.68	399.97		
165.0	529.60	525.90	519.43	505.57	490.78	469.52	445.49	417.76	385.41		
180.0	529.60	522.33	510.52	495.08	476.91	451.47	426.04	395.15	364.27		
195.0	529.60	522.28	510.39	492.09	472.89	448.19	419.84	388.74	356.72		
210.0	529.60	521.34	507.57	490.13	468.10	443.32	415.78	382.74	351.53		
225.0	529.60	519.50	505.73	488.29	466.26	440.56	412.11	379.99	346.94		
240.0	529.60	520.39	506.57	489.07	466.97	441.18	412.62	381.31	348.15		
255.0	529.60	520.39	506.57	489.99	467.89	441.18	413.55	383.15	349.99		
270.0	529.60	521.31	507.49	490.91	468.81	443.94	415.39	384.07	353.68		
285.0	529.60	522.21	510.22	493.61	473.31	449.33	421.65	391.20	383.82		
300.0	529.60	523.14	512.07	497.30	492.69	454.86	429.03	399.50	368.13		
315.0	529.60	524.06	515.76	501.92	484.39	461.32	438.25	408.73	380.13		
330.0	529.60	526.82	520.34	508.30	491.64	472.19	449.05	421.27	391.64		
345.0	529.60	527.75	522.20	512.04	497.25	478.76	457.50	431.63	402.97		
360.0	529.60	531.41	529.60	522.33	512.34	496.89	476.91	453.29	426.95		
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	398.79	366.99	333.38	298.86	266.16	228.92	197.12	168.05	131.72		
15.0	407.94	375.93	342.09	310.07	275.32	237.82	206.72	176.53	150.01		
30.0	413.95	382.74	349.70	314.82	280.86	244.15	213.86	181.73	152.36		
45.0	413.03	383.66	348.78	315.74	280.86	246.90	214.78	182.65	153.28		
60.0	412.62	381.31	348.15	313.15	276.31	240.39	205.39	175.92	145.52		
75.0	408.94	377.62	346.31	310.39	275.39	236.71	204.47	172.23	141.84		
90.0	404.33	373.02	338.94	303.94	268.94	234.86	192.50	164.87	137.23		
105.0	397.66	365.37	332.15	298.01	262.95	227.89	194.68	158.69	121.79		
120.0	389.35	357.06	323.85	288.79	253.73	220.51	190.06	159.62	131.94		
135.0	378.28	345.07	313.70	277.71	245.42	213.13	181.76	154.08	128.25		
150.0	369.42	336.09	302.76	268.50	235.17	204.62	176.84	149.06	122.21		
165.0	355.84	322.56	291.14	257.87	226.44	195.94	167.29	139.56	113.68		
180.0	331.57	297.05	263.44	229.82	199.85	170.78	137.17	114.46	92.66		
195.0	322.88	288.12	256.11	222.27	192.08	163.73	136.29	110.68	87.81		
210.0	316.66	282.70	248.74	214.78	183.57	153.28	128.50	102.80	84.44		
225.0	312.07	277.19	242.31	210.19	175.31	145.94	120.24	100.04	81.69		
240.0	314.99	276.31	242.23	207.23	175.00	144.60	119.73	97.63	76.45		
255.0	314.99	280.00	245.92	208.15	175.92	143.68	117.89	112.37	75.52		
270.0	317.76	284.60	249.60	238.55	178.68	149.21	121.58	96.71	75.52		
285.0	327.54	292.48	257.42	223.28	190.06	158.69	130.09	104.26	79.35		
300.0	335.84	301.70	266.64	233.43	197.45	166.08	135.63	111.64	88.57		
315.0	346.91	314.62	280.48	245.42	212.21	180.84	154.08	126.40	105.18		
330.0	361.09	327.76	292.57	261.09	224.99	192.58	162.95	140.73	119.44		
345.0	373.40	339.20	305.93	271.73	237.53	203.34	171.91	147.88	126.62		
360.0	398.79	366.99	333.38	298.86	266.16	228.92	197.12	168.05	131.72		

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Intensity data(cd)										Appendix Page: 11 Total:12	
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0		
0.0	119.00	103.56	86.30	67.22	53.60	38.15	24.53	17.26	11.81		
15.0	104.27	100.61	82.32	64.94	48.48	33.84	20.12	15.55	11.89		
30.0	122.99	90.87	69.76	55.99	40.39	25.70	16.52	14.69	10.10		
45.0	121.16	94.54	61.50	43.14	27.54	20.19	16.52	11.93	7.34		
60.0	116.97	89.34	54.34	36.84	25.79	19.34	14.74	10.13	7.37		
75.0	110.52	90.26	52.50	37.76	27.63	20.26	14.74	11.05	8.29		
90.0	109.60	85.66	46.97	40.53	32.24	22.10	17.50	12.89	10.13		
105.0	107.03	82.12	42.44	37.83	28.60	21.22	17.53	13.84	10.15		
120.0	83.96	72.89	42.44	31.37	19.38	16.61	13.84	11.07	9.23		
135.0	102.41	61.82	35.98	25.83	21.22	12.92	9.23	7.38	5.54		
150.0	96.29	60.18	35.18	21.29	16.67	12.04	7.41	5.56	3.70		
165.0	88.73	59.15	37.89	24.95	14.79	10.17	7.39	5.55	3.70		
180.0	71.76	49.05	34.52	22.71	16.35	10.90	8.18	5.45	3.63		
195.0	64.94	53.05	37.50	26.53	18.29	12.81	9.15	6.40	4.57		
210.0	67.92	53.23	40.39	30.29	21.11	12.85	10.10	7.34	5.51		
225.0	67.00	55.07	42.22	32.12	21.11	12.85	11.01	8.26	5.51		
240.0	63.55	49.74	46.97	25.79	18.42	11.05	6.45	5.53	4.61		
255.0	51.58	41.45	28.55	19.34	11.97	7.37	4.61	4.61	3.68		
270.0	54.34	35.92	18.42	13.82	8.29	6.45	4.61	4.61	3.68		
285.0	58.13	39.67	23.07	14.76	9.23	6.46	6.46	5.54	3.69		
300.0	65.51	52.59	38.75	25.83	14.76	10.15	9.23	7.38	6.46		
315.0	86.73	71.97	54.44	37.83	26.76	16.61	10.15	9.23	8.30		
330.0	99.07	85.18	68.51	52.77	37.96	24.07	15.74	11.11	9.26		
345.0	109.06	91.50	76.71	59.15	44.36	32.35	20.33	13.86	10.17		
360.0	119.00	103.56	86.30	67.22	53.60	38.15	24.53	17.26	11.81		
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	8.18	5.45	4.54	4.54	4.54	4.54	4.54	4.54	5.45		
15.0	7.32	5.49	4.57	3.66	3.66	4.57	4.57	5.49	5.49		
30.0	5.51	4.59	3.67	3.67	3.67	4.59	4.59	5.51	6.42		
45.0	4.59	3.67	3.67	3.67	4.59	4.59	4.59	5.51	6.42		
60.0	5.53	4.61	3.68	4.61	4.61	4.61	5.53	6.45	6.45		
75.0	6.45	5.53	4.61	4.61	4.61	5.53	5.53	6.45	6.45		
90.0	8.29	6.45	5.53	5.53	5.53	6.45	6.45	7.37	6.45		
105.0	8.30	6.46	5.54	5.54	6.46	6.46	7.38	7.38	7.38		
120.0	7.38	6.46	5.54	5.54	6.46	6.46	7.38	7.38	7.38		
135.0	4.61	3.69	3.69	4.61	5.54	6.46	6.46	6.46	6.46		
150.0	2.78	2.78	3.70	3.70	4.63	5.56	5.56	6.48	6.48		
165.0	2.77	2.77	3.70	3.70	4.62	5.55	5.55	6.47	6.47		
180.0	3.63	2.73	2.73	3.63	3.63	3.63	5.45	6.36	6.36		
195.0	3.66	2.74	3.66	3.66	3.66	3.66	5.49	5.49	6.40		
210.0	4.59	4.59	4.59	4.59	4.59	5.51	4.59	5.51	6.42		
225.0	4.59	4.59	4.59	4.59	5.51	4.59	4.59	4.59	6.42		
240.0	4.61	4.61	4.61	4.61	5.53	5.53	4.61	4.61	6.45		
255.0	3.68	3.68	4.61	4.61	5.53	5.53	4.61	5.53	6.45		
270.0	3.68	3.68	4.61	4.61	4.61	4.61	4.61	5.53	6.45		
285.0	2.77	2.77	2.77	3.69	4.61	4.61	4.61	5.54	6.46		
300.0	5.54	4.61	3.69	2.77	2.77	3.69	4.61	5.54	5.54		
315.0	7.38	6.46	5.54	4.61	3.69	3.69	4.61	5.54	5.54		
330.0	7.41	6.48	5.56	4.63	3.70	3.70	4.63	5.56	5.56		
345.0	8.32	5.55	4.62	3.70	3.70	3.70	3.70	4.62	5.55		
360.0	8.18	5.45	4.54	4.54	4.54	4.54	4.54	4.54	5.45		

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	6.36
15.0	6.40
30.0	6.42
45.0	6.42
60.0	6.45
75.0	6.45
90.0	5.53
105.0	5.54
120.0	5.54
135.0	6.46
150.0	6.48
165.0	6.47
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	6.36