
弗格斯莱

Client:

LumCAT: CLSP32LAJUDBK

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.279

Lamp flux(lm): 2066.9

Power (W): 33.420

Number of Lamps: 1

PF: 0.997

Length(mm): 760

Width(mm): 640

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2066.94, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 61.85

Central intensity(cd): 574.904, Maximum intensity(cd): 574.904

Angle of maximum intensity: C=0.0 γ =0.0

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

[C90/270]Total=121.6

Field angle(10%Imax): [C0/180]Total=205.0

[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(%): 7.97%

Down flux rate of lamp(%): 92.03%

Up flux rate of LUM(%): 7.97%

Down flux rate of LUM(%): 92.03%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 64.321%

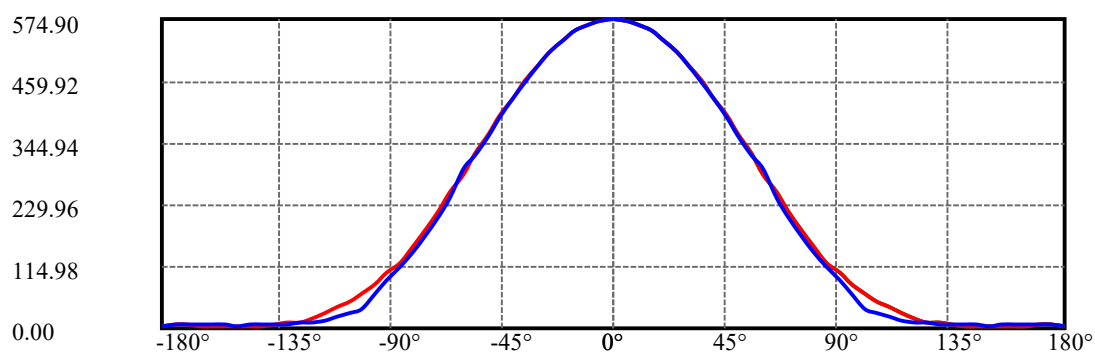
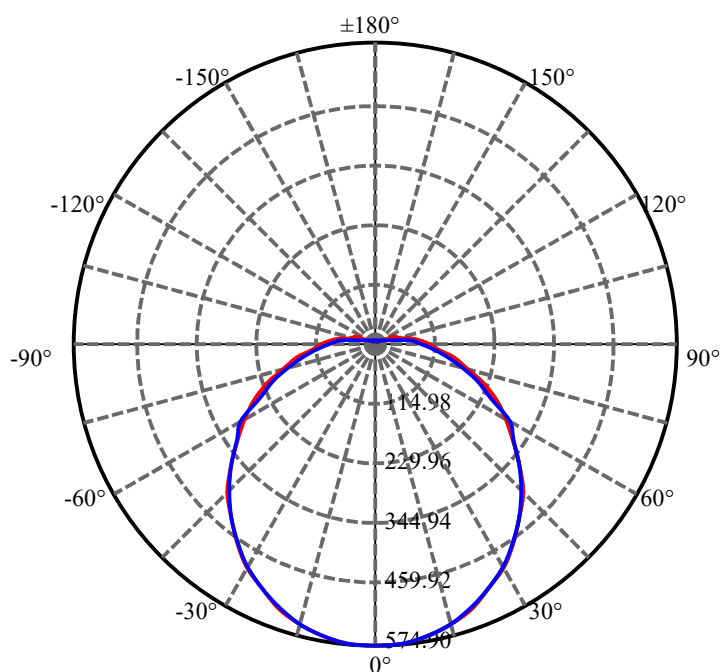
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	574.904	0.000	0	0.00%	0.00%
5.0	572.491	13.717	13.717	0.66%	0.66%
10.0	565.016	40.692	54.409	1.97%	2.63%
15.0	552.672	66.301	120.709	3.21%	5.84%
20.0	536.032	89.725	210.434	4.34%	10.18%
25.0	514.569	110.189	320.623	5.33%	15.51%
30.0	489.383	127.051	447.674	6.15%	21.66%
35.0	460.175	139.829	587.503	6.77%	28.42%
40.0	429.703	148.469	735.972	7.18%	35.61%
45.0	394.664	152.638	888.611	7.38%	42.99%
50.0	358.708	152.230	1040.84	7.36%	50.36%
55.0	322.177	148.047	1188.887	7.16%	57.52%
60.0	286.069	140.594	1329.482	6.80%	64.32%
65.0	248.343	129.917	1459.398	6.29%	70.61%
70.0	212.773	116.758	1576.156	5.65%	76.26%
75.0	179.963	102.655	1678.811	4.97%	81.22%
80.0	151.369	88.655	1767.466	4.29%	85.51%
85.0	123.082	74.575	1842.041	3.61%	89.12%
90.0	96.938	60.243	1902.284	2.91%	92.03%
95.0	75.498	47.214	1949.499	2.28%	94.32%
100.0	52.257	34.714	1984.213	1.68%	96.00%
105.0	38.385	24.253	2008.466	1.17%	97.17%
110.0	27.502	17.222	2025.687	0.83%	98.00%
115.0	18.921	11.754	2037.442	0.57%	98.57%
120.0	13.484	7.878	2045.32	0.38%	98.95%
125.0	10.115	5.455	2050.774	0.26%	99.22%
130.0	7.740	3.882	2054.657	0.19%	99.41%
135.0	5.942	2.765	2057.421	0.13%	99.54%
140.0	5.100	2.044	2059.466	0.10%	99.64%
145.0	4.717	1.638	2061.103	0.08%	99.72%
150.0	4.678	1.383	2062.487	0.07%	99.78%
155.0	4.908	1.213	2063.7	0.06%	99.84%
160.0	5.214	1.062	2064.761	0.05%	99.89%
165.0	5.597	0.891	2065.653	0.04%	99.94%
170.0	6.211	0.700	2066.353	0.03%	99.97%
175.0	6.671	0.461	2066.814	0.02%	99.99%
180.0	3.488	0.121	2066.935	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	447.67	21.66%	21.66%
0-40	735.97	35.61%	35.61%
0-60	1329.48	64.32%	64.32%
0-90	1902.28	92.03%	92.03%
0-120	2045.32	98.95%	98.95%
0-180	2066.94	100.00%	100.00%
60-90	572.80	27.71%	27.71%
90-120	143.04	6.92%	6.92%
90-130	152.37	7.37%	7.37%
90-150	160.20	7.75%	7.75%
90-180	164.53	7.96%	7.96%
0-73.77	1653.55	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	54.41
10-20	156.03
20-30	237.24
30-40	288.30
40-50	304.87
50-60	288.64
60-70	246.67
70-80	191.31
80-90	134.82
90-100	81.93
100-110	41.47
110-120	19.63
120-130	9.34
130-140	4.81
140-150	3.02
150-160	2.27
160-170	1.59
170-180	0.46



C0(Max):

C0/C180:

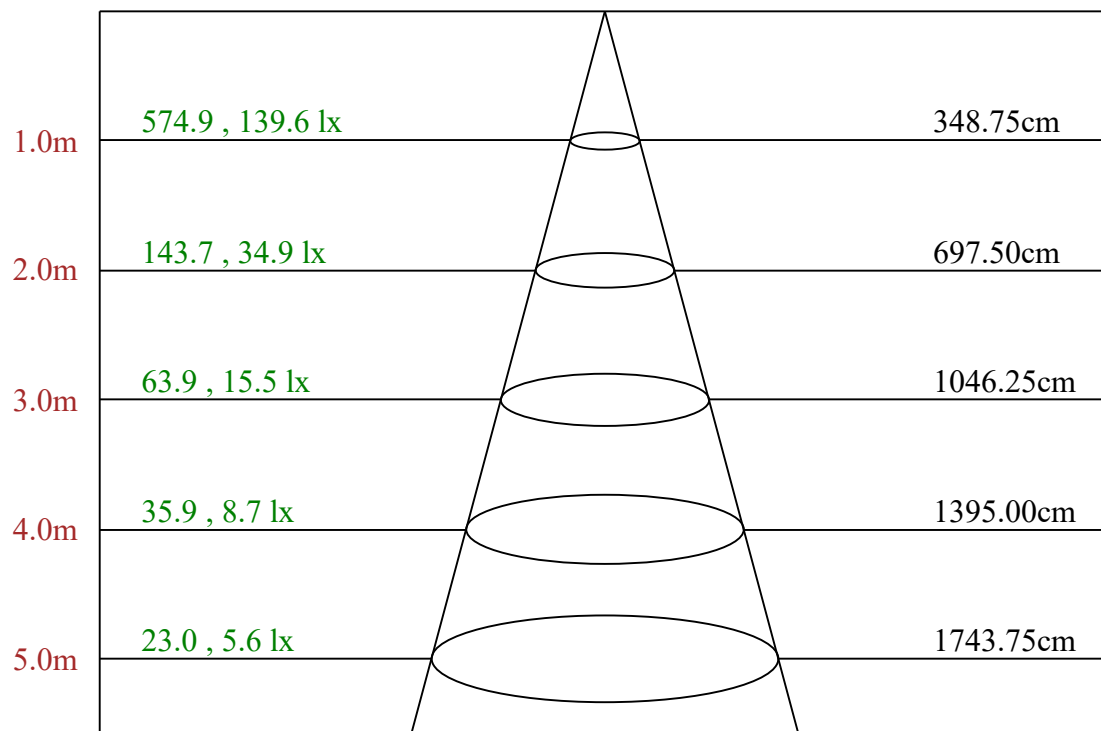
C90/C270:

Field angle(10%Imax):C0/180Left:102.5 Right:102.5

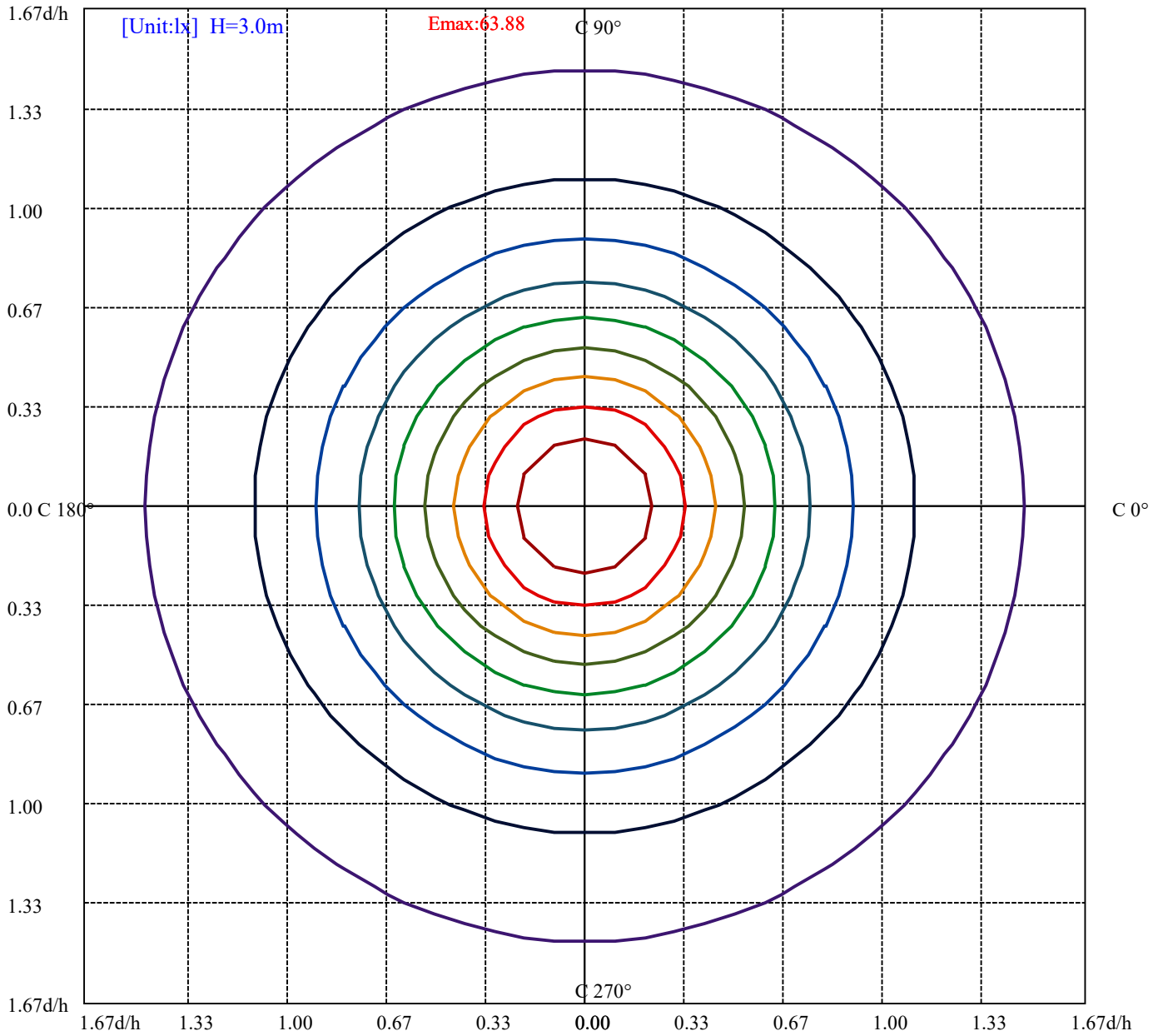
:C90/270Left:96.4 Right:96.4

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

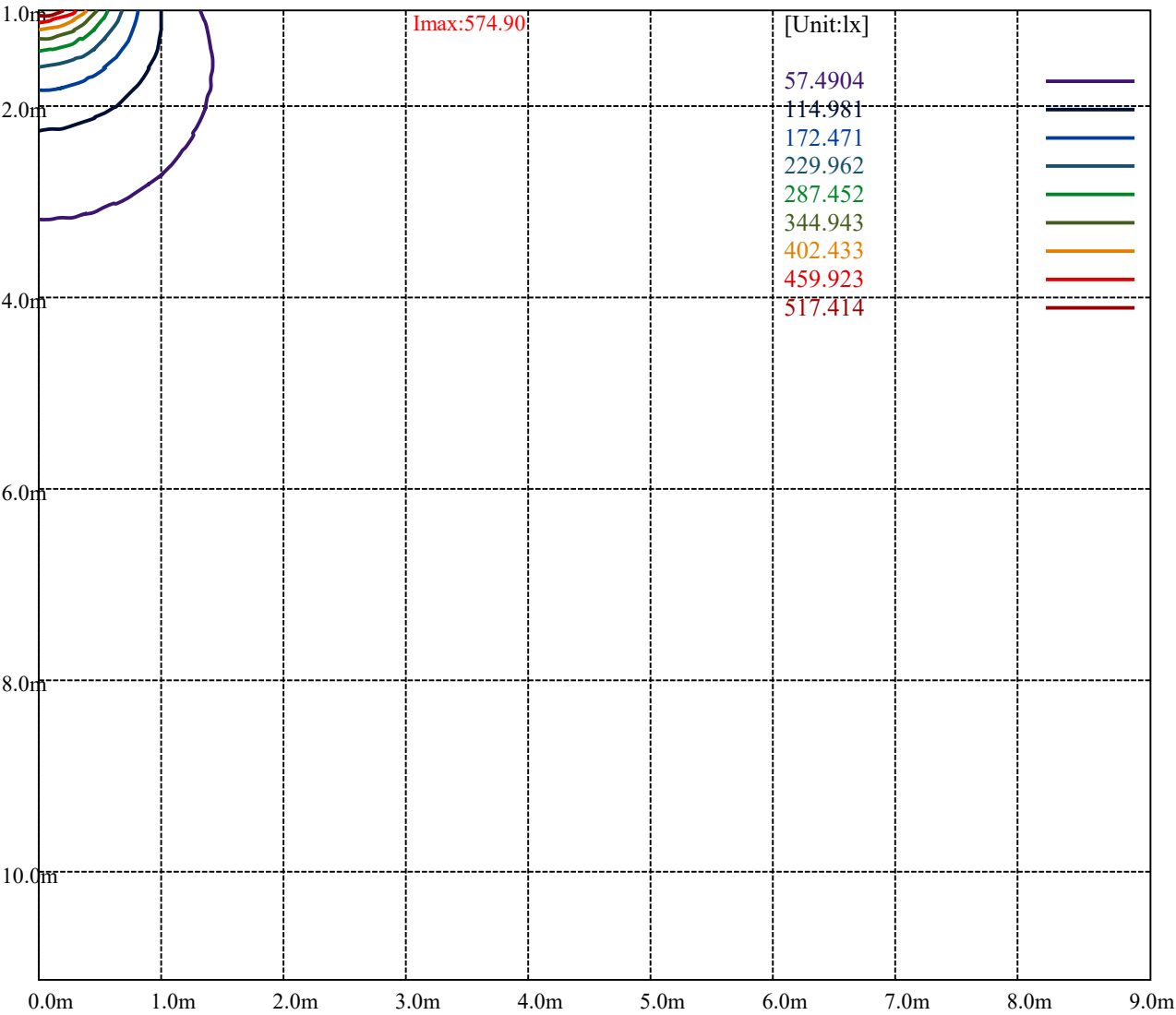
:C90/270Left:60.8 Right:60.8



Max , Ave Beam angle of C0 plane 120.33



(10%Emax) 6.387822	—
(20%Emax) 12.77567	—
(30%Emax) 19.16344	—
(40%Emax) 25.55133	—
(50%Emax) 31.93911	—
(60%Emax) 38.327	—
(70%Emax) 44.71478	—
(80%Emax) 51.10255	—
(90%Emax) 57.49044	—



Luminance Table

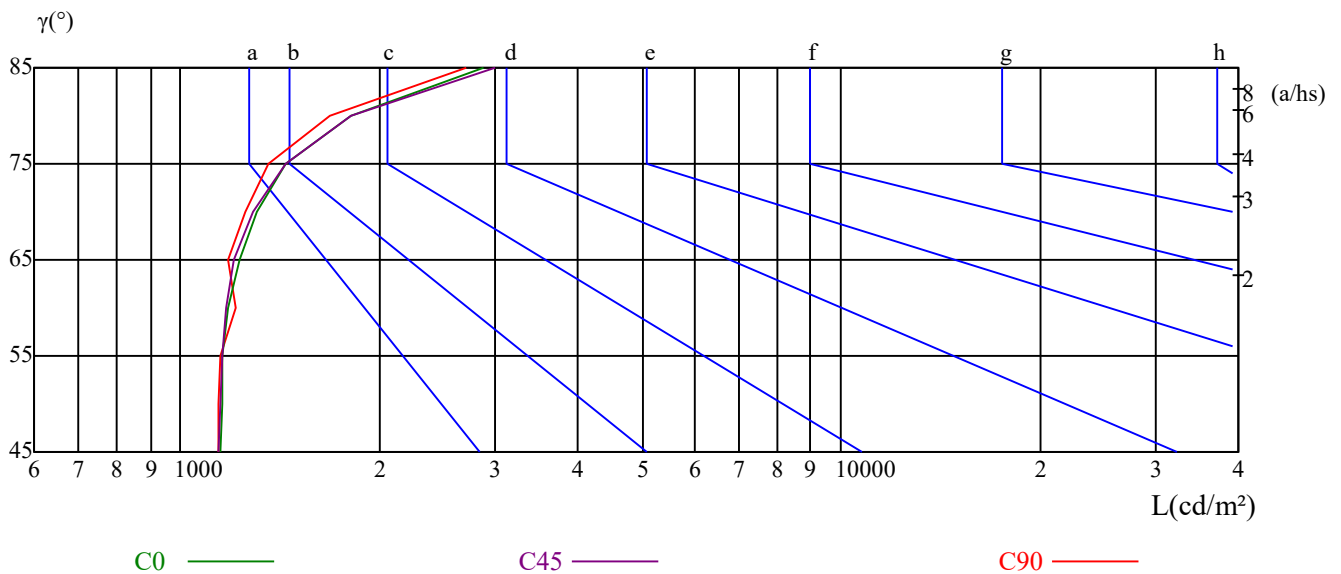
γ	45	50	55	60	65	70	75	80	85
C0	1153	1153	1161	1180	1230	1305	1443	1806	2882
C45	1144	1146	1153	1172	1207	1285	1446	1807	2997
C90	1141	1143	1146	1214	1183	1252	1354	1680	2717

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1230	1183	1207	1443	1354	1446	2882	2717	2997

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	1.17	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	574.90	576.72	574.90	566.73	555.83	538.58	517.69	492.26	464.10		
15.0	574.90	578.56	577.65	571.25	562.11	545.66	526.46	501.78	473.45		
30.0	574.90	580.41	578.57	573.99	562.98	548.31	529.06	507.05	479.55		
45.0	574.90	580.41	579.50	574.90	564.80	551.03	530.82	507.86	479.39		
60.0	574.90	580.43	581.35	575.83	565.69	550.03	531.60	506.73	480.01		
75.0	574.90	580.43	579.51	573.98	563.85	549.11	528.84	503.96	476.32		
90.0	574.90	578.59	577.67	571.22	561.08	545.42	524.23	498.43	471.72		
105.0	574.90	578.60	576.75	569.37	557.37	541.68	519.54	493.70	463.25		
120.0	574.90	576.75	573.06	565.68	551.83	533.38	512.15	484.47	454.94		
135.0	574.90	574.90	570.29	560.14	546.30	525.07	502.00	475.24	443.87		
150.0	574.90	573.98	567.50	555.46	523.06	519.36	493.44	464.74	435.11		
165.0	574.90	571.21	563.81	549.02	532.39	510.20	483.40	452.90	418.70		
180.0	574.90	566.73	554.02	537.67	517.69	490.44	463.19	428.68	395.08		
195.0	574.90	565.76	553.88	533.77	512.75	486.25	455.17	422.27	386.62		
210.0	574.90	564.82	550.15	531.81	507.97	480.46	450.20	415.36	380.52		
225.0	574.90	564.80	549.19	530.82	506.03	478.47	447.25	413.27	376.53		
240.0	574.90	565.69	550.03	530.68	506.73	479.09	447.76	413.67	377.74		
255.0	574.90	565.69	550.03	531.60	508.57	479.09	449.60	415.52	379.58		
270.0	574.90	565.69	550.95	532.52	509.49	481.85	451.45	417.36	384.19		
285.0	574.90	566.60	553.68	535.22	514.00	487.24	457.71	425.41	417.11		
300.0	574.90	568.44	556.45	539.84	535.22	494.62	465.09	433.72	399.57		
315.0	574.90	569.37	560.14	545.37	525.07	501.08	475.24	443.87	412.49		
330.0	574.90	572.13	564.72	551.76	534.17	512.88	486.96	457.33	424.93		
345.0	574.90	573.06	566.59	555.49	539.78	520.37	496.34	468.61	438.11		
360.0	574.90	576.72	574.90	566.73	555.83	538.58	517.69	492.26	464.10		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	433.22	398.71	361.47	324.24	288.81	248.85	214.34	181.64	143.50		
15.0	442.37	407.64	372.00	336.35	298.88	257.75	223.93	191.03	162.69		
30.0	448.37	415.36	379.60	341.09	305.33	264.99	231.98	197.14	165.04		
45.0	448.17	416.03	378.37	343.47	304.90	268.17	233.27	198.37	167.14		
60.0	448.68	414.59	377.74	339.97	299.43	260.73	222.96	190.71	157.55		
75.0	444.08	410.91	375.90	337.20	299.43	257.05	222.04	187.03	153.86		
90.0	439.47	405.38	368.53	330.75	292.06	254.28	209.14	178.74	148.33		
105.0	431.87	396.80	360.81	323.90	285.15	247.31	211.32	171.64	132.88		
120.0	422.64	387.58	351.59	312.83	275.92	239.01	205.78	173.49	143.03		
135.0	410.65	374.66	340.51	301.76	266.69	231.62	197.48	167.03	139.34		
150.0	400.86	364.75	328.65	291.62	255.51	222.19	191.63	162.01	133.31		
165.0	386.35	350.30	316.10	280.06	244.94	213.51	181.16	151.58	122.93		
180.0	359.66	322.42	286.09	249.76	217.06	185.28	148.95	123.52	100.81		
195.0	350.06	312.59	277.86	240.38	208.39	177.32	147.15	119.73	95.06		
210.0	343.84	306.25	269.57	232.90	199.89	165.96	139.37	111.86	90.77		
225.0	338.88	301.23	263.57	227.76	190.10	158.88	130.41	108.37	88.16		
240.0	341.81	300.35	263.50	225.72	189.79	156.62	129.91	105.95	82.92		
255.0	342.73	304.04	266.26	225.72	190.71	155.70	128.06	122.54	82.00		
270.0	345.50	309.56	270.87	259.81	194.40	162.15	131.75	105.03	82.00		
285.0	355.28	317.44	279.61	242.70	205.78	172.56	141.19	113.50	86.74		
300.0	364.51	327.59	288.84	252.85	215.01	179.95	146.73	121.81	95.97		
315.0	376.50	341.44	304.52	266.69	230.70	196.56	167.03	136.57	113.50		
330.0	391.60	355.50	317.54	283.29	243.48	209.22	176.82	152.75	129.61		
345.0	404.84	367.86	332.74	294.85	257.88	220.90	186.71	160.83	136.79		
360.0	433.22	398.71	361.47	324.24	288.81	248.85	214.34	181.64	143.50		

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Intensity data(cd)										Appendix Page: 11 Total:12	
C/ $\gamma(^{\circ})$	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0		
0.0	128.97	112.62	93.55	73.57	59.03	41.78	27.25	18.16	13.62		
15.0	113.34	108.77	89.57	70.38	52.10	36.56	21.94	17.37	12.80		
30.0	133.87	99.03	75.19	60.52	44.01	28.42	18.34	15.59	10.09		
45.0	131.33	101.94	67.04	46.84	30.31	22.04	18.37	12.86	7.35		
60.0	126.22	96.74	58.96	40.54	28.56	21.19	15.66	11.06	7.37		
75.0	119.77	97.66	57.12	40.54	30.40	22.11	16.58	11.98	9.21		
90.0	118.85	93.05	50.67	43.30	35.01	23.95	18.43	13.82	11.06		
105.0	116.27	89.51	46.14	41.53	31.38	23.07	18.46	14.76	11.07		
120.0	91.36	79.36	45.22	34.14	21.22	18.46	14.76	12.00	10.15		
135.0	111.66	67.36	38.76	27.68	23.07	13.84	10.15	7.38	5.54		
150.0	104.61	64.80	38.88	23.14	17.59	12.96	8.33	5.55	3.70		
165.0	96.13	63.78	40.67	26.80	15.71	11.09	8.32	5.55	3.70		
180.0	77.20	53.59	38.15	24.52	17.26	12.72	9.08	5.45	4.54		
195.0	70.38	57.58	40.22	28.33	20.11	13.71	10.05	7.31	5.48		
210.0	74.27	57.77	44.01	33.01	22.92	14.67	11.00	8.25	6.42		
225.0	72.55	59.69	45.00	34.90	22.96	13.78	12.86	9.18	6.43		
240.0	69.10	54.36	50.67	28.56	20.27	11.98	7.37	6.45	5.53		
255.0	56.20	45.14	30.40	20.27	12.90	8.29	5.53	4.61	4.61		
270.0	58.96	38.70	19.35	14.74	9.21	7.37	4.61	4.61	4.61		
285.0	63.67	43.37	24.92	16.61	10.15	6.46	6.46	5.54	4.61		
300.0	71.06	57.21	42.45	28.61	15.69	11.07	9.23	8.31	7.38		
315.0	94.13	77.52	59.06	40.60	29.53	17.53	11.07	10.15	9.23		
330.0	108.32	92.58	74.99	57.40	41.66	25.92	17.59	12.04	10.18		
345.0	118.31	99.82	83.19	64.70	48.99	35.12	22.18	14.79	11.09		
360.0	128.97	112.62	93.55	73.57	59.03	41.78	27.25	18.16	13.62		
C/ $\gamma(^{\circ})$	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	8.17	6.36	4.54	4.54	4.54	4.54	4.54	5.45	6.36		
15.0	8.23	5.48	4.57	4.57	4.57	4.57	5.48	5.48	6.40		
30.0	6.42	4.58	4.58	4.58	4.58	4.58	5.50	5.50	6.42		
45.0	5.51	4.59	3.67	4.59	4.59	4.59	5.51	5.51	6.43		
60.0	5.53	4.61	4.61	4.61	4.61	5.53	5.53	6.45	6.45		
75.0	7.37	5.53	4.61	4.61	5.53	5.53	6.45	7.37	7.37		
90.0	8.29	6.45	6.45	5.53	6.45	6.45	7.37	7.37	7.37		
105.0	9.23	7.38	6.46	6.46	6.46	7.38	7.38	8.31	7.38		
120.0	7.38	7.38	6.46	5.54	6.46	7.38	7.38	8.31	7.38		
135.0	4.61	4.61	4.61	4.61	5.54	6.46	7.38	7.38	7.38		
150.0	3.70	3.70	3.70	4.63	4.63	5.55	6.48	6.48	7.41		
165.0	2.77	3.70	3.70	4.62	4.62	5.55	6.47	6.47	7.39		
180.0	3.63	2.72	2.72	3.63	3.63	4.54	5.45	6.36	6.36		
195.0	3.66	3.66	3.66	3.66	3.66	4.57	5.48	6.40	6.40		
210.0	4.58	4.58	4.58	4.58	5.50	5.50	5.50	5.50	6.42		
225.0	5.51	5.51	5.51	5.51	5.51	5.51	5.51	4.59	6.43		
240.0	4.61	4.61	4.61	4.61	5.53	5.53	4.61	4.61	6.45		
255.0	4.61	4.61	4.61	4.61	5.53	5.53	4.61	5.53	6.45		
270.0	4.61	4.61	4.61	4.61	5.53	5.53	4.61	5.53	6.45		
285.0	2.77	2.77	3.69	3.69	4.61	4.61	4.61	5.54	6.46		
300.0	6.46	5.54	4.61	3.69	2.77	3.69	4.61	6.46	6.46		
315.0	7.38	6.46	6.46	5.54	4.61	3.69	4.61	6.46	5.54		
330.0	8.33	6.48	5.55	4.63	4.63	4.63	4.63	6.48	6.48		
345.0	9.24	6.47	4.62	4.62	3.70	3.70	4.62	5.55	6.47		
360.0	8.17	6.36	4.54	4.54	4.54	4.54	4.54	5.45	6.36		

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	7.27
15.0	7.31
30.0	7.34
45.0	7.35
60.0	7.37
75.0	6.45
90.0	6.45
105.0	6.46
120.0	6.46
135.0	6.46
150.0	7.41
165.0	7.39
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	7.27