
弗格斯莱

Client:

LumCAT: CLSP32LAJUDLB

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.281

Lamp flux(lm): 2089.1

Power (W): 33.640

Number of Lamps: 1

PF: 0.997

Length(mm): 760

Width(mm): 640

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2089.08, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 62.10

Central intensity(cd): 581.267, Maximum intensity(cd): 581.267

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(%): 7.97%

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

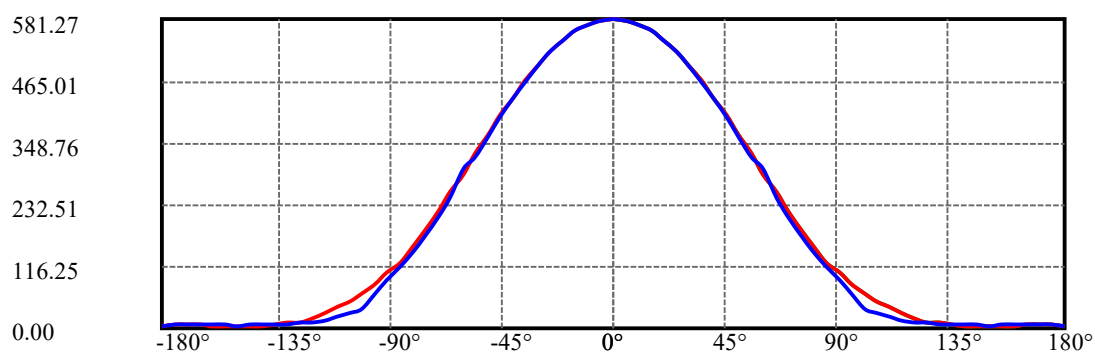
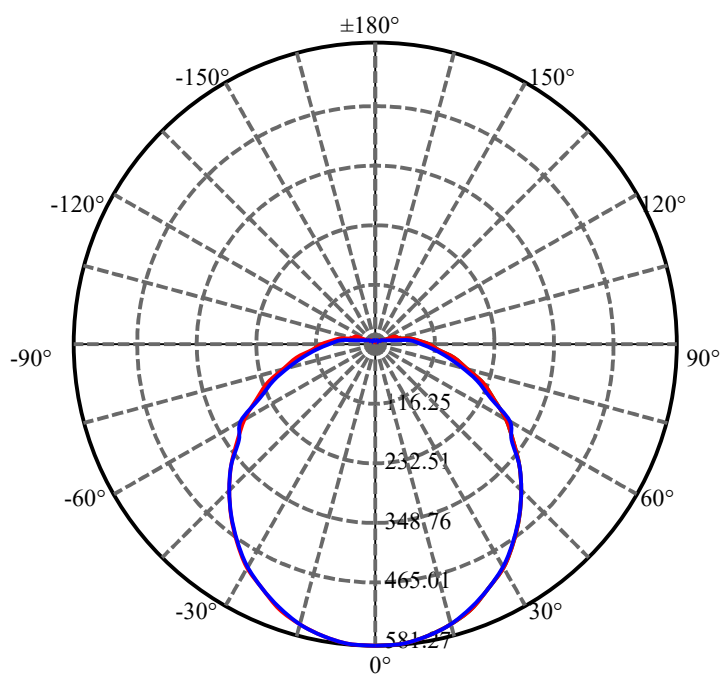
Output flux ratio in π solid angle : 64.321%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	581.267	0.000	0	0.00%	0.00%
5.0	578.623	13.866	13.866	0.66%	0.66%
10.0	570.995	41.125	54.992	1.97%	2.63%
15.0	558.767	67.017	122.008	3.21%	5.84%
20.0	541.705	90.694	212.703	4.34%	10.18%
25.0	519.936	111.347	324.049	5.33%	15.51%
30.0	494.597	128.390	452.439	6.15%	21.66%
35.0	465.119	141.325	593.764	6.76%	28.42%
40.0	434.379	150.075	743.839	7.18%	35.61%
45.0	398.881	154.285	898.124	7.39%	42.99%
50.0	362.579	153.864	1051.988	7.37%	50.36%
55.0	325.589	149.631	1201.618	7.16%	57.52%
60.0	289.135	142.092	1343.71	6.80%	64.32%
65.0	250.836	131.268	1474.978	6.28%	70.60%
70.0	215.150	117.991	1592.969	5.65%	76.25%
75.0	181.918	103.787	1696.756	4.97%	81.22%
80.0	153.056	89.630	1786.386	4.29%	85.51%
85.0	124.424	75.398	1861.784	3.61%	89.12%
90.0	97.897	60.873	1922.657	2.91%	92.03%
95.0	76.303	47.697	1970.355	2.28%	94.32%
100.0	52.871	35.100	2005.455	1.68%	96.00%
105.0	38.807	24.531	2029.985	1.17%	97.17%
110.0	27.733	17.393	2047.378	0.83%	98.00%
115.0	19.152	11.872	2059.249	0.57%	98.57%
120.0	13.638	7.971	2067.221	0.38%	98.95%
125.0	10.191	5.508	2072.729	0.26%	99.22%
130.0	7.894	3.932	2076.661	0.19%	99.41%
135.0	5.980	2.803	2079.464	0.13%	99.54%
140.0	5.138	2.059	2081.523	0.10%	99.64%
145.0	4.793	1.657	2083.18	0.08%	99.72%
150.0	4.793	1.412	2084.592	0.07%	99.79%
155.0	4.908	1.228	2085.819	0.06%	99.84%
160.0	5.253	1.066	2086.885	0.05%	99.90%
165.0	5.635	0.897	2087.782	0.04%	99.94%
170.0	6.249	0.705	2088.487	0.03%	99.97%
175.0	6.824	0.468	2088.955	0.02%	99.99%
180.0	3.488	0.123	2089.078	0.01%	100.00%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	452.44	21.66%	21.66%
0-40	743.84	35.61%	35.61%
0-60	1343.71	64.32%	64.32%
0-90	1922.66	92.03%	92.03%
0-120	2067.22	98.95%	98.95%
0-180	2089.08	100.00%	100.00%
60-90	578.95	27.71%	27.71%
90-120	144.56	6.92%	6.92%
90-130	154.00	7.37%	7.37%
90-150	161.93	7.75%	7.75%
90-180	166.30	7.96%	7.96%
0-73.77	1671.26	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	54.99
10-20	157.71
20-30	239.74
30-40	291.40
40-50	308.15
50-60	291.72
60-70	249.26
70-80	193.42
80-90	136.27
90-100	82.80
100-110	41.92
110-120	19.84
120-130	9.44
130-140	4.86
140-150	3.07
150-160	2.29
160-170	1.60
170-180	0.47



C0(Max):

C0/C180:

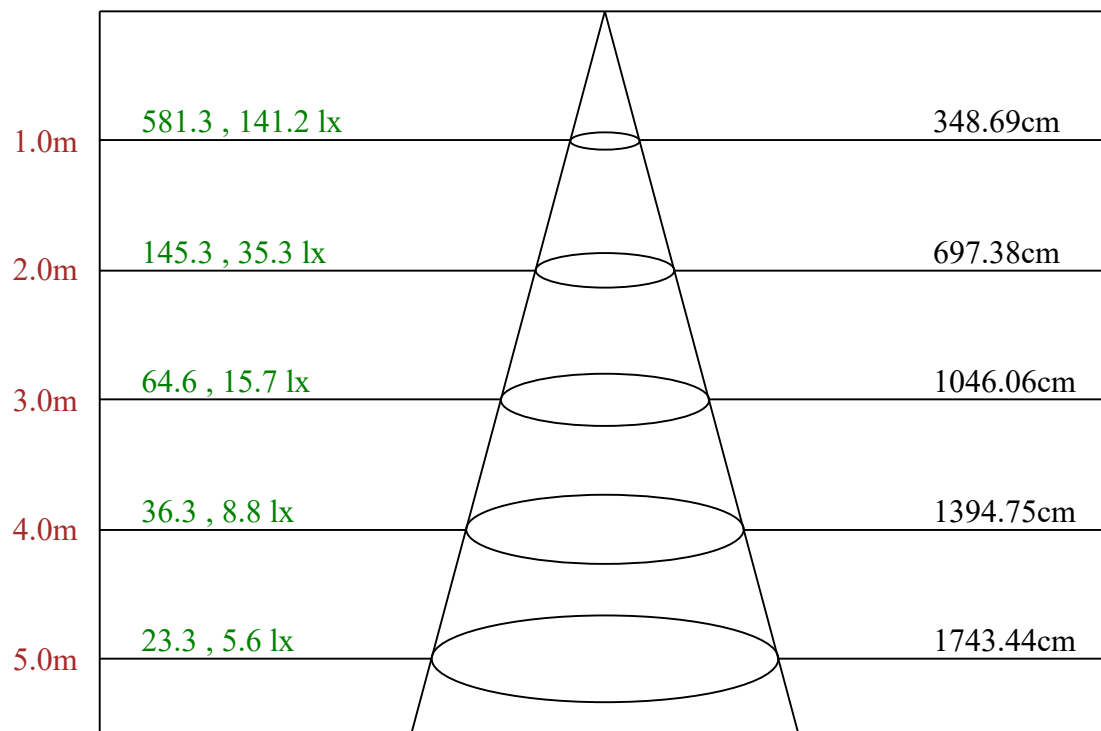
C90/C270:

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

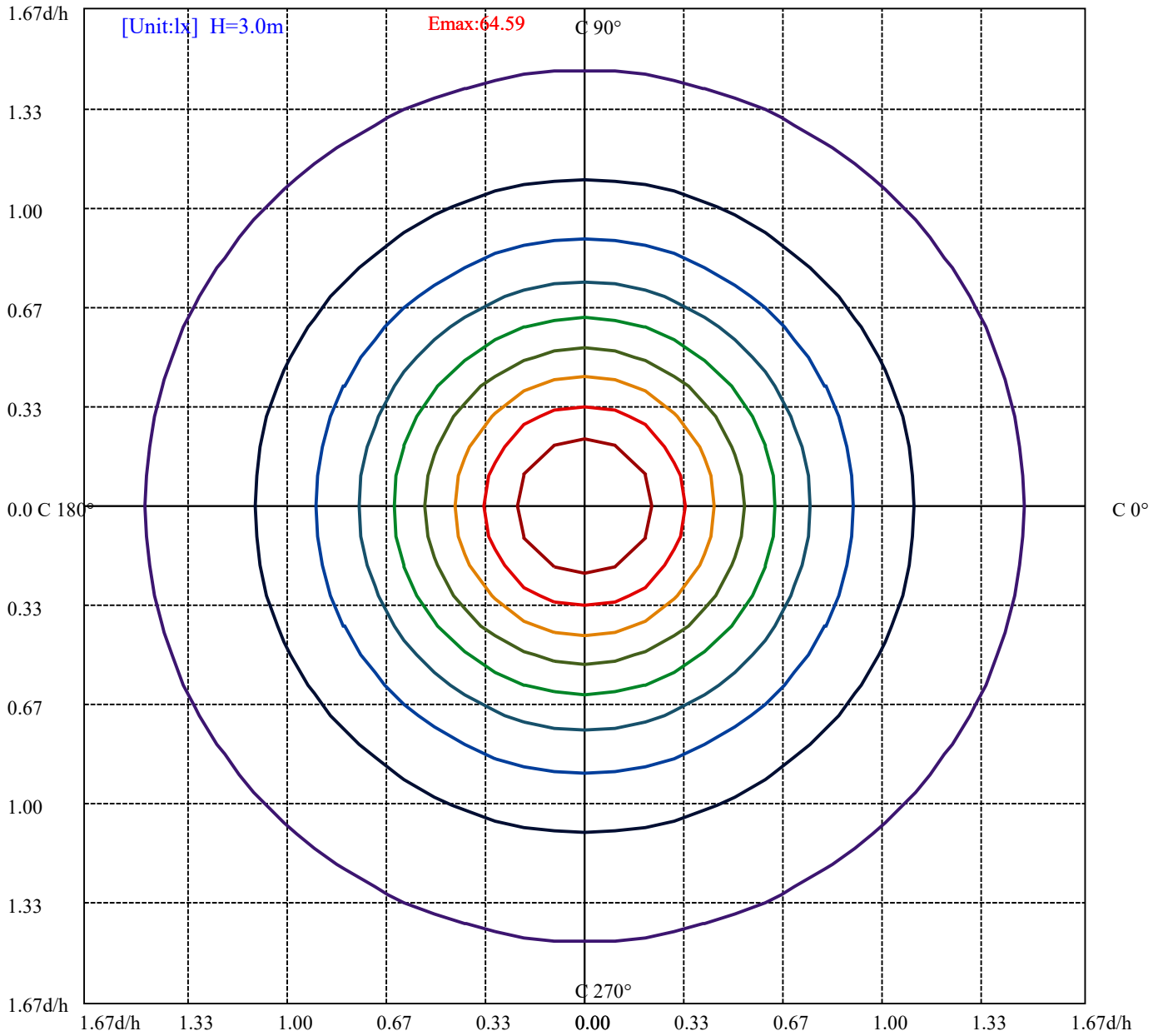
:C90/270Left:96.4 Right:96.4

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

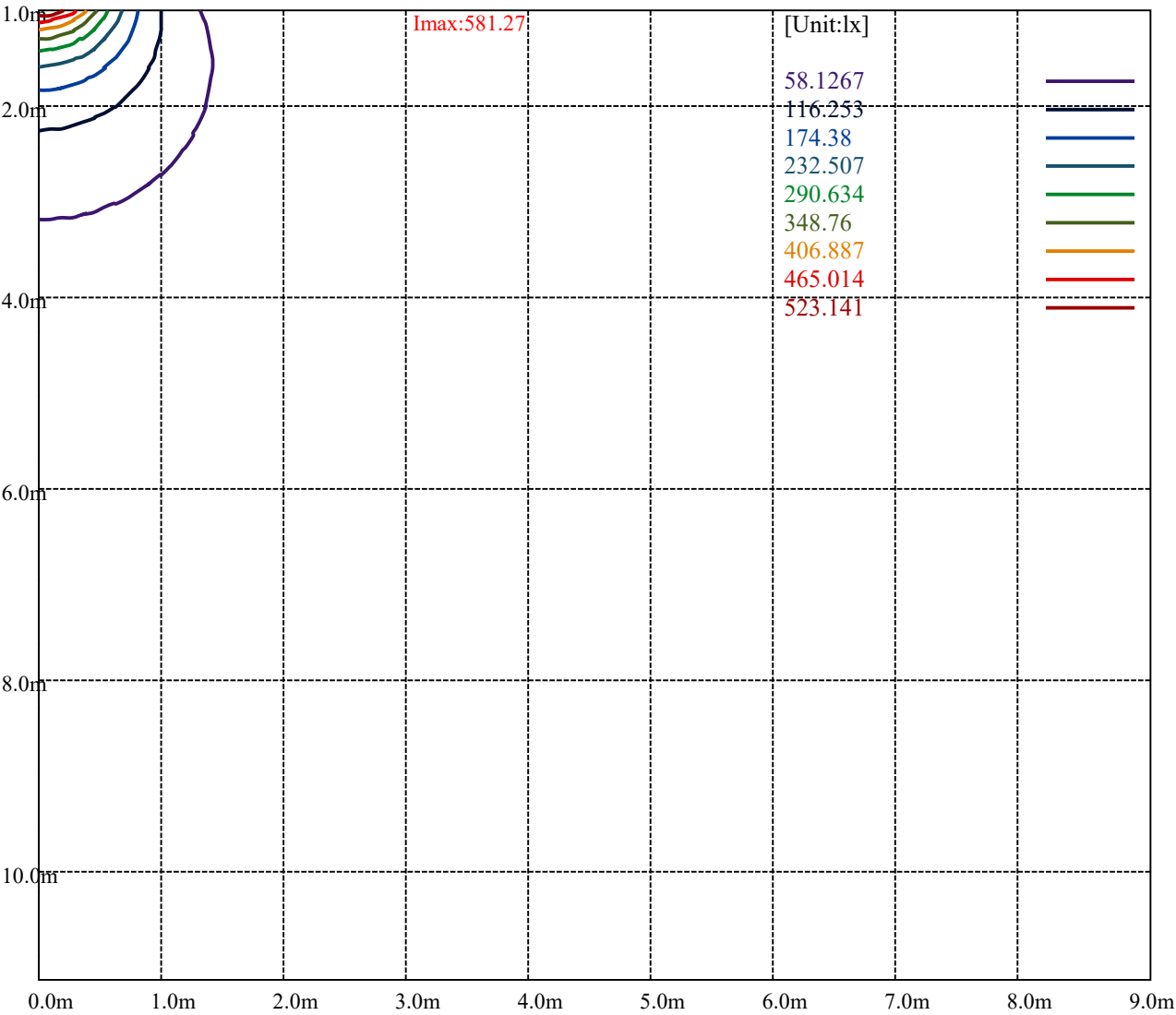
:C90/270Left:60.7 Right:60.7



Max , Ave Beam angle of C0 plane 120.32



(10%Emax) 6.458522	—
(20%Emax) 12.917	—
(30%Emax) 19.37556	—
(40%Emax) 25.83411	—
(50%Emax) 32.29267	—
(60%Emax) 38.75111	—
(70%Emax) 45.20967	—
(80%Emax) 51.66822	—
(90%Emax) 58.12678	—



Luminance Table

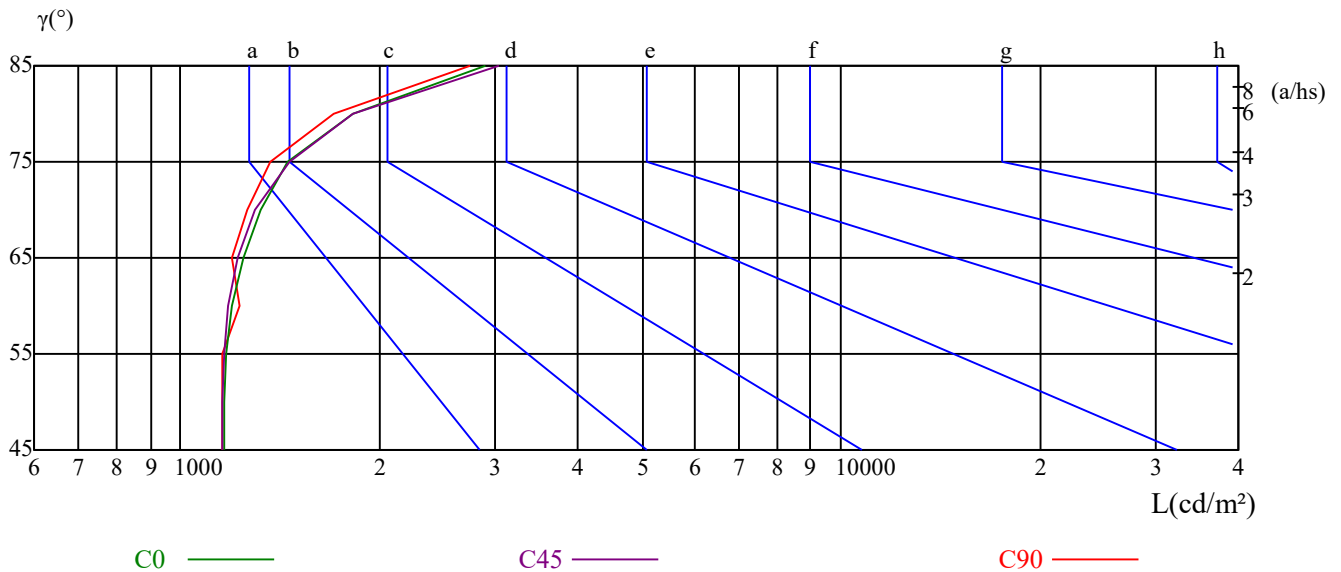
γ	45	50	55	60	65	70	75	80	85
C0	1165	1166	1172	1193	1242	1318	1457	1828	2903
C45	1156	1158	1165	1184	1219	1297	1460	1828	3034
C90	1153	1155	1157	1227	1194	1265	1368	1701	2749

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1242	1194	1219	1457	1368	1460	2903	2749	3034

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	581.27	583.08	580.36	573.09	561.29	544.94	523.14	497.71	468.65		
15.0	581.27	584.92	584.01	577.61	568.47	551.11	531.91	507.24	478.91		
30.0	581.27	586.78	585.86	580.35	570.25	554.64	535.35	513.32	485.77		
45.0	581.27	585.86	585.86	581.27	570.25	556.47	536.27	513.32	484.85		
60.0	581.27	586.79	586.79	582.19	571.13	556.40	537.05	512.18	484.54		
75.0	581.27	586.79	585.87	580.35	569.29	554.55	534.29	509.42	480.86		
90.0	581.27	584.95	584.03	577.58	566.53	550.87	529.68	503.89	476.25		
105.0	581.27	584.96	582.19	574.81	563.74	547.13	524.99	499.15	468.70		
120.0	581.27	583.11	579.42	571.12	557.28	538.83	516.68	489.00	459.48		
135.0	581.27	581.27	575.73	566.51	551.74	530.52	507.46	479.78	448.41		
150.0	581.27	579.42	572.94	561.83	528.51	524.81	498.89	469.27	439.65		
165.0	581.27	577.57	569.25	554.47	537.83	514.73	488.86	458.36	423.24		
180.0	581.27	573.09	560.38	543.12	523.14	494.99	467.74	433.23	399.62		
195.0	581.27	572.13	559.33	540.14	518.21	490.79	459.71	426.81	391.17		
210.0	581.27	572.08	556.47	538.11	514.23	485.77	456.38	420.57	385.68		
225.0	581.27	570.25	555.56	536.27	511.48	483.93	451.79	416.90	381.08		
240.0	581.27	571.13	556.40	536.13	512.18	484.54	452.30	418.22	382.29		
255.0	581.27	571.13	556.40	537.97	514.02	483.62	454.14	420.06	384.13		
270.0	581.27	572.06	557.32	538.89	514.94	487.31	455.99	421.90	387.82		
285.0	581.27	572.96	559.12	541.59	519.45	492.69	462.25	429.03	421.65		
300.0	581.27	573.89	561.89	546.21	540.67	499.15	470.55	438.26	403.20		
315.0	581.27	574.81	565.58	550.82	530.52	506.53	480.70	448.41	417.04		
330.0	581.27	578.49	570.16	558.13	539.62	518.33	492.41	462.79	429.47		
345.0	581.27	579.42	572.95	561.86	546.15	525.82	501.79	474.07	442.65		
360.0	581.27	583.08	580.36	573.09	561.29	544.94	523.14	497.71	468.65		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	437.77	403.25	365.11	327.87	291.54	251.58	216.16	183.46	144.41		
15.0	446.92	412.19	375.63	339.99	301.60	261.39	226.66	192.84	164.51		
30.0	453.63	420.57	383.84	345.27	308.54	268.14	235.08	199.27	167.13		
45.0	452.71	420.57	382.92	347.11	308.54	270.89	236.00	200.18	168.96		
60.0	453.22	419.14	382.29	343.60	303.07	263.46	225.69	192.53	159.36		
75.0	448.62	414.53	379.53	340.84	302.15	259.77	224.77	188.84	155.68		
90.0	444.01	409.93	372.16	334.39	294.78	257.01	210.95	180.55	150.15		
105.0	436.41	401.35	364.45	327.54	287.87	250.04	213.13	173.46	133.78		
120.0	427.19	392.12	355.22	316.47	278.64	241.73	208.52	175.30	144.86		
135.0	415.19	378.29	344.15	304.47	269.41	233.43	199.29	168.84	141.16		
150.0	405.41	369.31	331.36	294.34	258.24	224.92	194.37	163.83	134.21		
165.0	389.98	353.94	319.74	283.70	247.66	215.32	182.97	153.40	123.83		
180.0	363.29	326.05	288.82	252.49	218.88	187.10	150.77	125.34	101.72		
195.0	353.70	316.22	281.49	243.11	211.12	180.05	148.97	121.55	95.96		
210.0	348.03	310.38	272.73	236.00	202.02	168.04	140.50	112.95	91.83		
225.0	342.52	303.95	266.30	230.49	191.92	160.70	131.31	110.19	89.07		
240.0	345.44	303.07	266.22	227.53	191.61	158.44	130.81	106.86	83.83		
255.0	346.37	307.68	268.99	227.53	192.53	157.52	128.97	123.44	82.91		
270.0	349.13	312.28	273.59	262.54	196.21	163.97	133.57	106.86	82.91		
285.0	358.91	321.08	282.33	245.42	207.60	174.38	143.01	115.33	87.65		
300.0	369.06	330.31	292.48	255.57	216.82	181.76	148.55	122.71	97.80		
315.0	380.13	345.07	307.24	269.41	232.51	198.37	168.84	138.40	115.33		
330.0	396.15	359.13	321.18	286.01	246.21	211.96	178.64	154.57	130.51		
345.0	409.38	371.49	336.38	297.56	260.60	223.64	188.52	162.64	138.62		
360.0	437.77	403.25	365.11	327.87	291.54	251.58	216.16	183.46	144.41		

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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	130.79	113.53	94.46	74.47	59.03	41.78	27.25	18.16	13.62
15.0	114.24	109.67	90.48	71.29	53.01	36.56	21.93	17.36	12.80
30.0	134.99	100.09	76.22	61.52	45.00	28.47	18.37	15.61	11.02
45.0	132.23	103.76	67.95	46.83	30.30	22.04	18.37	12.86	8.26
60.0	128.04	97.65	59.88	40.53	28.56	21.19	15.66	11.05	7.37
75.0	120.68	98.57	58.03	41.45	30.40	22.11	16.58	11.98	9.21
90.0	119.75	93.96	51.59	44.22	35.01	23.95	19.34	14.74	11.05
105.0	118.10	90.42	47.05	41.52	31.37	23.99	19.38	14.76	11.99
120.0	92.26	80.27	46.13	34.14	22.14	18.45	14.76	11.99	10.15
135.0	112.56	67.35	38.75	27.68	23.07	14.76	10.15	7.38	5.54
150.0	105.52	65.72	38.87	23.14	18.51	12.96	8.33	5.55	3.70
165.0	97.03	64.69	41.59	27.72	15.71	12.01	8.32	5.54	3.70
180.0	78.11	53.59	38.15	24.52	17.26	12.72	9.08	6.36	4.54
195.0	71.29	58.49	40.21	29.25	20.11	13.71	10.05	7.31	5.48
210.0	75.30	58.77	44.08	33.06	22.96	14.69	11.02	8.26	6.43
225.0	73.46	60.61	45.91	34.89	23.88	13.77	12.86	9.18	6.43
240.0	70.01	54.35	51.59	28.56	20.27	11.98	7.37	6.45	5.53
255.0	57.11	46.06	31.32	21.19	12.90	8.29	5.53	4.61	4.61
270.0	58.96	39.61	20.27	14.74	9.21	7.37	4.61	4.61	4.61
285.0	63.66	43.36	24.91	16.61	10.15	7.38	6.46	5.54	4.61
300.0	71.04	58.13	42.44	28.60	16.61	11.99	10.15	8.30	7.38
315.0	95.03	78.42	59.97	41.52	29.52	17.53	11.99	10.15	9.23
330.0	109.22	93.48	74.97	58.31	41.65	25.92	17.59	12.03	10.18
345.0	120.13	100.73	84.09	65.61	48.98	36.04	22.18	14.79	12.01
360.0	130.79	113.53	94.46	74.47	59.03	41.78	27.25	18.16	13.62
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	8.17	6.36	5.45	4.54	4.54	4.54	5.45	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	6.43	4.59	4.59	4.59	4.59	4.59	5.51	5.51	6.43
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	5.53	5.53	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	8.30	7.38
120.0	8.30	7.38	6.46	5.54	6.46	7.38	7.38	8.30	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	7.40
165.0	2.77	3.70	3.70	4.62	4.62	5.54	6.47	6.47	7.39
180.0	3.63	2.72	2.72	3.63	3.63	4.54	5.45	6.36	7.27
195.0	3.66	3.66	3.66	3.66	3.66	4.57	5.48	6.40	6.40
210.0	4.59	4.59	4.59	4.59	5.51	5.51	5.51	5.51	6.43
225.0	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51	6.43
240.0	4.61	4.61	4.61	5.53	5.53	5.53	4.61	4.61	7.37
255.0	4.61	4.61	4.61	4.61	5.53	5.53	4.61	5.53	7.37
270.0	4.61	4.61	4.61	4.61	5.53	5.53	4.61	5.53	7.37
285.0	2.77	2.77	3.69	3.69	4.61	5.54	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	7.40	5.55	5.55	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	5.54	6.47
360.0	8.17	6.36	5.45	4.54	4.54	4.54	5.45	5.45	6.36

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	7.27
15.0	7.31
30.0	7.35
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	7.40
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