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NT

Client: NT

LumCAT: 1-1754-LM

Luminaire: 92.70.492.00 LED HOLDER

Report No: 20260131-B018

Ballast type: AC

Test No: 20260131-C018

Voltage(V): 34.750

LampCAT: PHILIPS SLM 1203 L09 1313

Current(A): 0.216

Lamp flux(lm): 1207.2

Power (W): 7.506

Number of Lamps: 1

PF: 0.000

Length(mm): 45

Width(mm): 45

Phm Type: C

Height(mm): 19

Photometric Results

Lumens(lm): 1152.36, Efficiency(%): 95.46% , Luminous Efficacy(lm/W): 153.53

Central intensity(cd): 4421.756, Maximum intensity(cd): 4465.069

Angle of maximum intensity: C=180.0 γ =1.0

Beam Angle(50%Imax): [C0/180]Total=19.8

[C90/270]Total=19.4

Field angle(10%Imax): [C0/180]Total=52.8

[C90/270]Total=52.9

Maximum s/h(1/2): C0_180=0.36 C90_270=0.31

Maximum s/h(1/4): C0_180=0.36 C90_270=0.32

Up flux rate of lamp(%): 0.00%

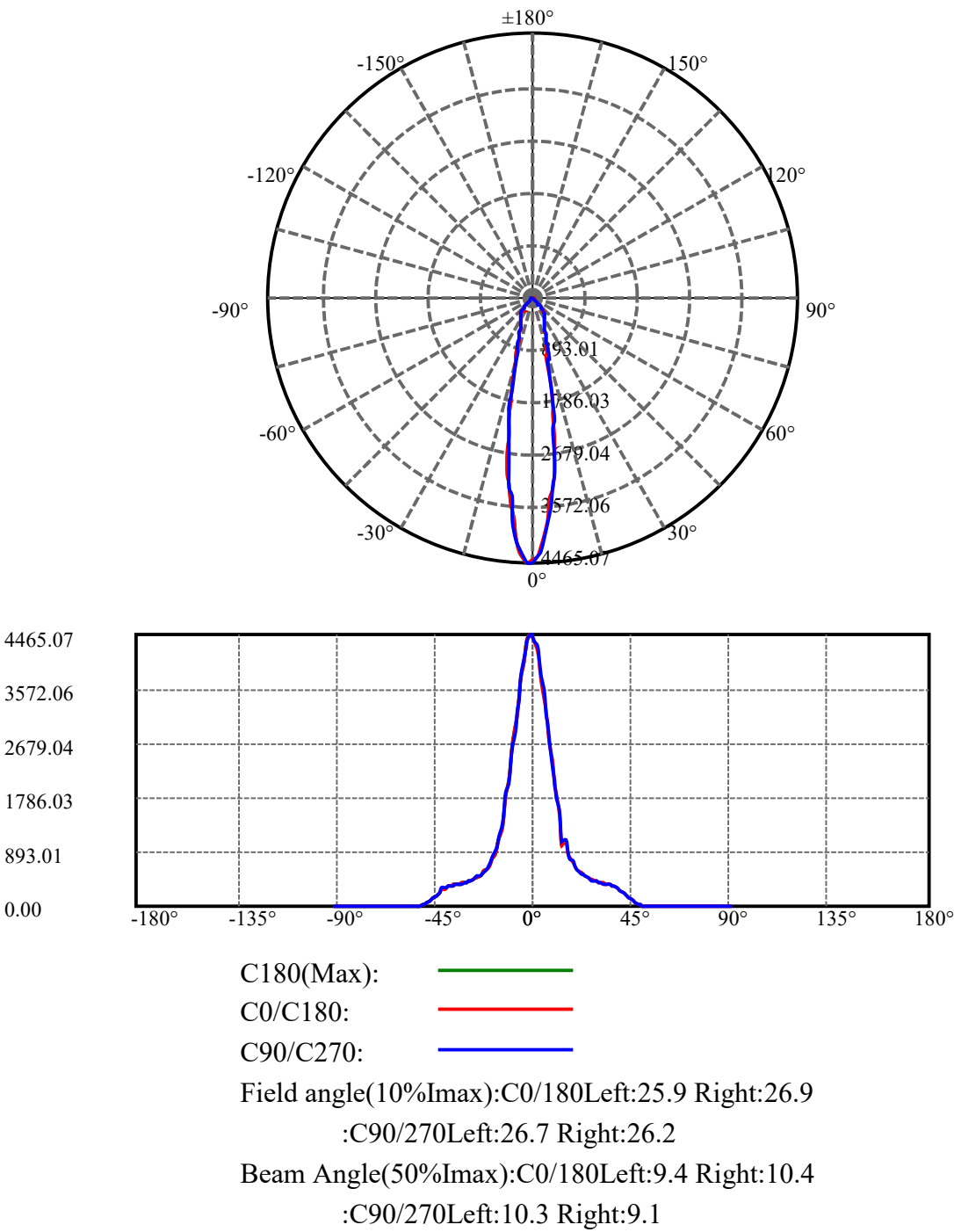
Down flux rate of lamp(%): 95.41%

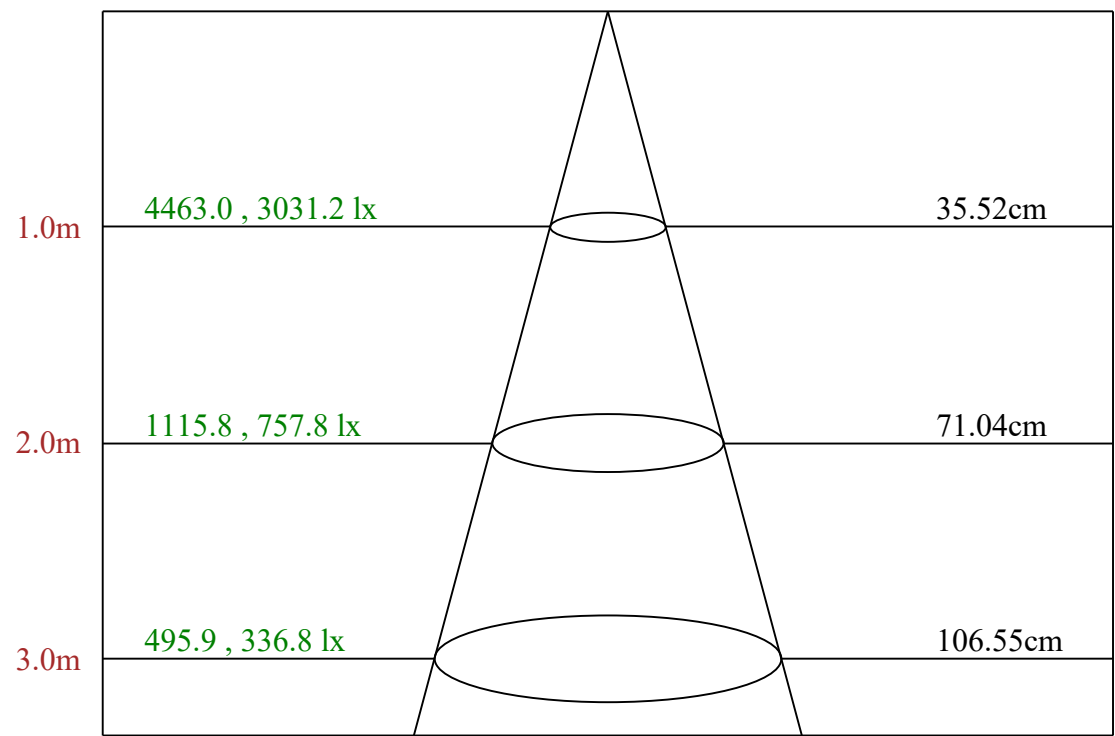
Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

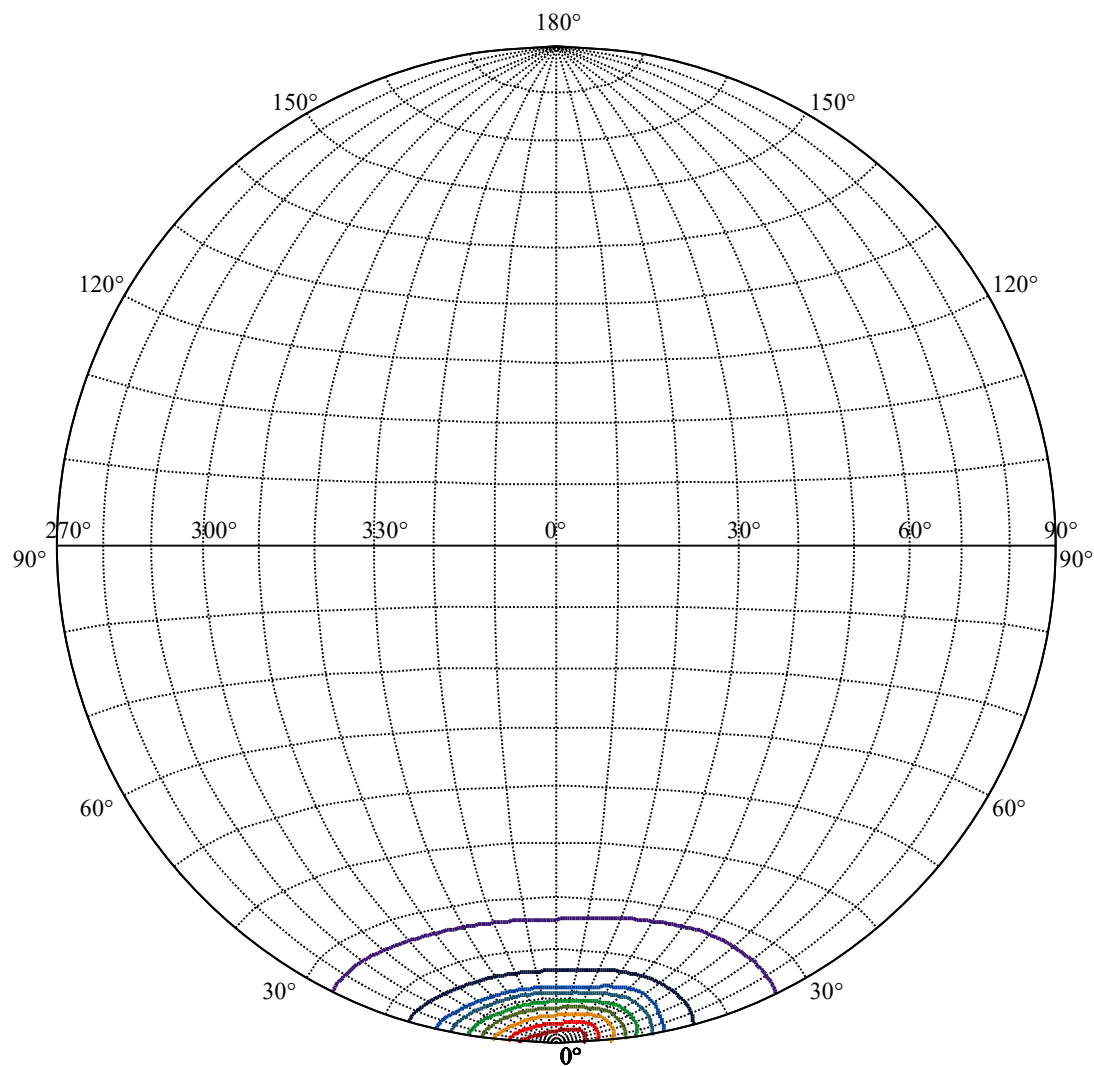
CIE Type : Direct lighting

Output flux ratio in π solid angle : 100.005%





Max , Ave Beam angle of C180 plane 20.14

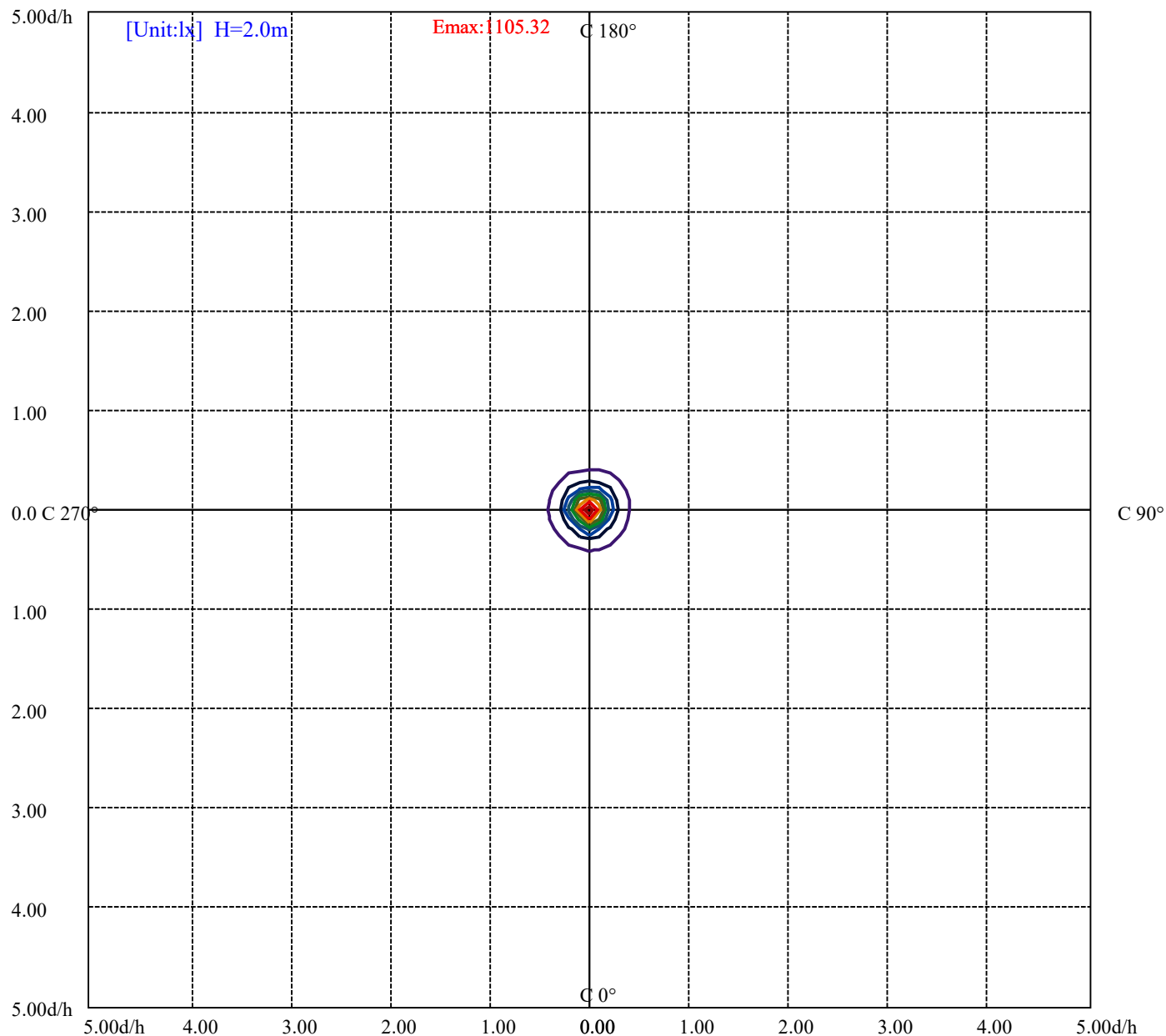


House

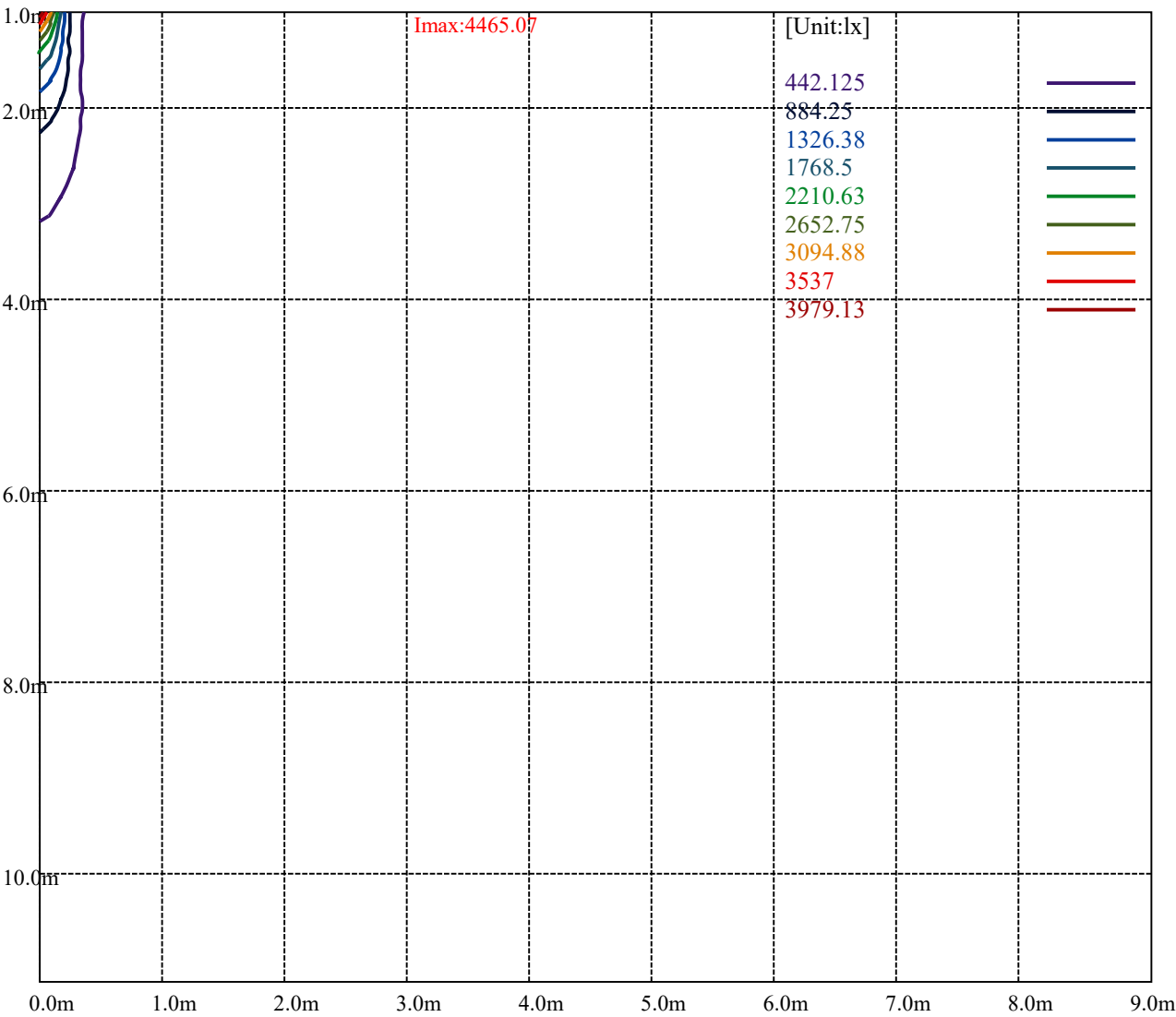
[Unit:cd]

Road

Imax:4465.07	
(10%Imax) 446.625	—
(20%Imax) 893.25	—
(30%Imax) 1339.88	—
(40%Imax) 1786.5	—
(50%Imax) 2233.13	—
(60%Imax) 2679.75	—
(70%Imax) 3126.38	—
(80%Imax) 3573	—
(90%Imax) 4019.63	—



(10%Emax)	110.5315	
(20%Emax)	221.063	
(30%Emax)	331.595	
(40%Emax)	442.125	
(50%Emax)	552.6575	
(60%Emax)	663.1875	
(70%Emax)	773.72	
(80%Emax)	884.2525	
(90%Emax)	994.7825	



Luminance Table

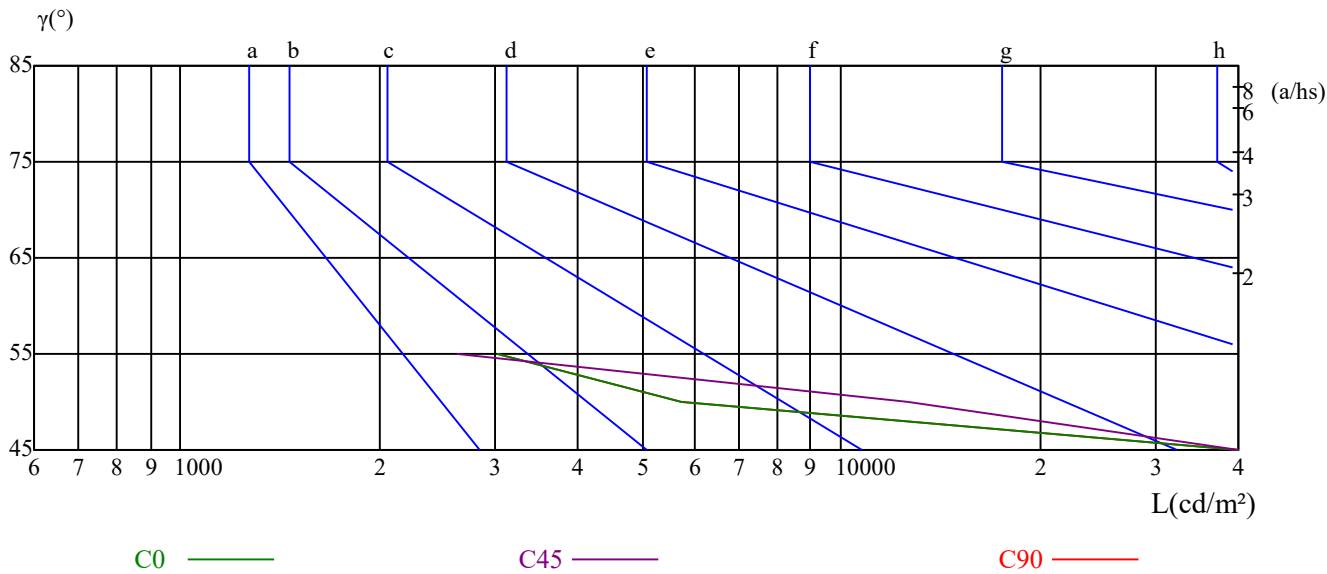
γ	45	50	55	60	65	70	75	80	85
C0	52481	5750	3021	0	0	0	0	0	0
C45	66411	12624	2614	0	0	0	0	0	0
C90	55243	5750	3021	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

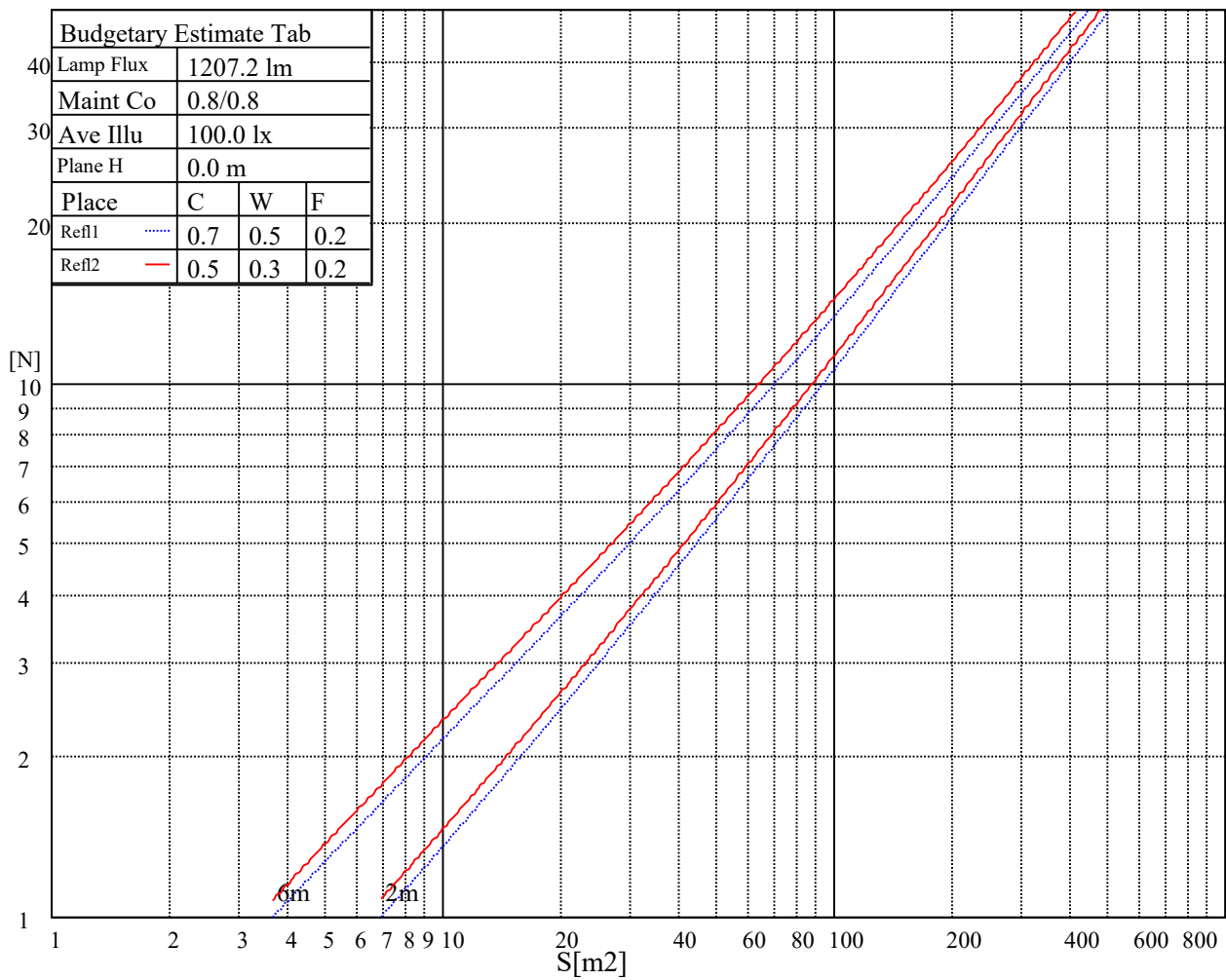
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

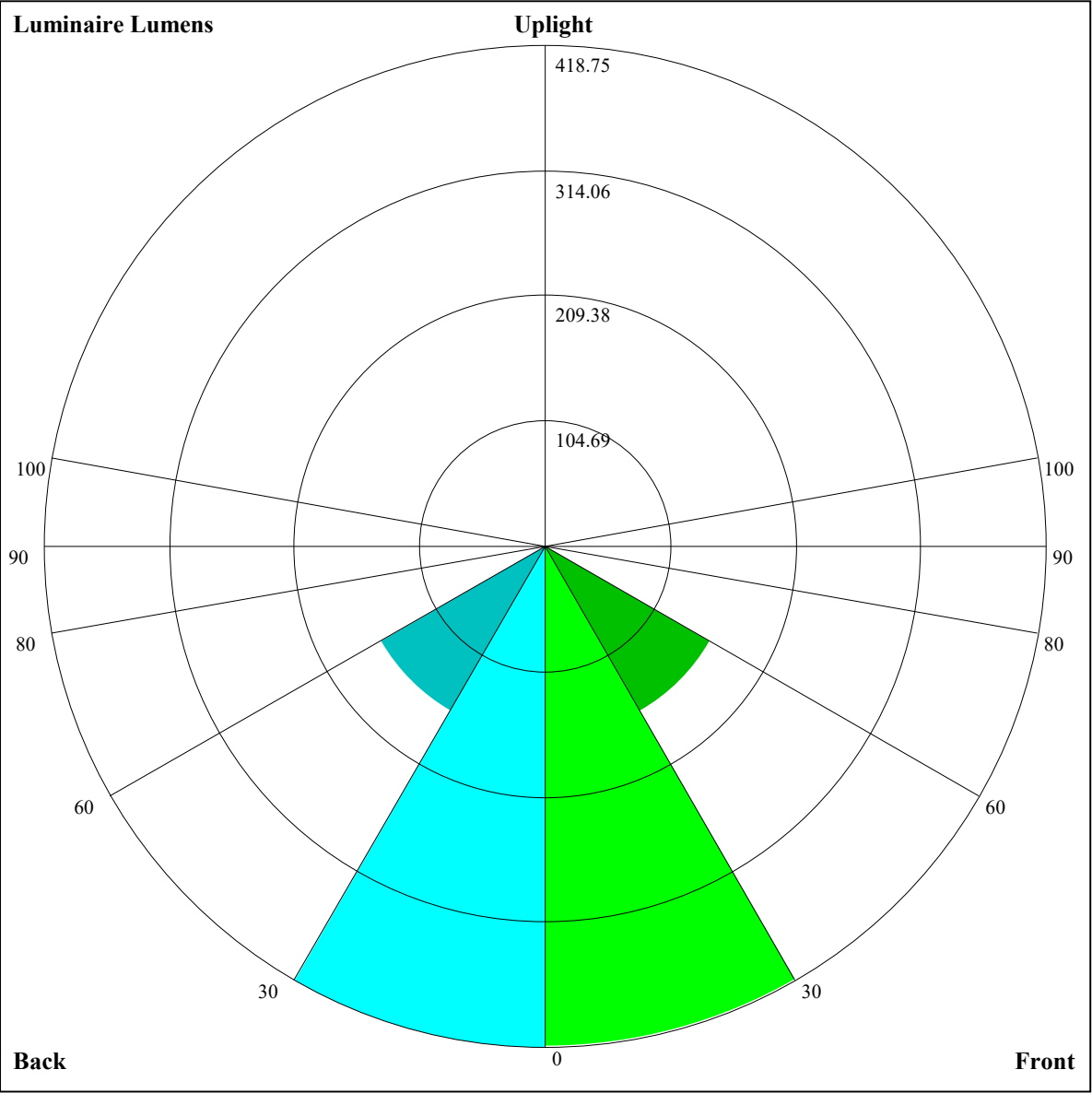


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	21.42	22.42	21.79	22.73	23.05	21.41	22.40	21.77	22.71	23.03
	3H	21.22	22.10	21.61	22.44	22.79	21.20	22.08	21.59	22.42	22.77
	4H	21.12	21.93	21.52	22.29	22.65	21.10	21.91	21.50	22.27	22.64
	6H	21.03	21.77	21.45	22.15	22.55	21.01	21.75	21.43	22.13	22.53
	8H	20.95	21.66	21.38	22.05	22.46	20.94	21.64	21.36	22.03	22.44
	12H	20.88	21.55	21.31	21.95	22.37	20.87	21.53	21.29	21.93	22.35
4H	2H	21.12	21.93	21.52	22.29	22.66	21.10	21.92	21.50	22.27	22.64
	3H	20.88	21.55	21.31	21.95	22.37	20.86	21.54	21.29	21.93	22.35
	4H	20.80	21.38	21.24	21.81	22.26	20.78	21.36	21.22	21.79	22.24
	6H	20.66	21.17	21.13	21.62	22.07	20.64	21.15	21.11	21.60	22.06
	8H	20.60	21.07	21.08	21.53	22.00	20.58	21.05	21.06	21.51	21.98
	12H	20.54	20.98	21.03	21.43	21.95	20.52	20.96	21.01	21.41	21.93
8H	4H	20.60	21.07	21.08	21.53	22.00	20.58	21.05	21.06	21.51	21.98
	6H	20.44	20.82	20.94	21.30	21.81	20.42	20.80	20.92	21.28	21.80
	8H	20.42	20.74	20.95	21.26	21.76	20.40	20.72	20.93	21.25	21.74
	12H	20.36	20.61	20.90	21.13	21.65	20.34	20.59	20.88	21.11	21.63
12H	4H	20.54	20.98	21.03	21.43	21.95	20.52	20.96	21.01	21.41	21.93
	6H	20.42	20.74	20.95	21.26	21.76	20.40	20.72	20.93	21.25	21.74
	8H	20.36	20.61	20.90	21.13	21.65	20.34	20.59	20.88	21.11	21.63
Variation with the observer position at spacings:											
S = 1.0H		3.6/-18.9					3.6/-19.5				
S = 1.5H		5.1/-30.9					5.0/-32.3				
S = 2.0H		7.1/-35.1					7.0/-37.3				
Standard tables:		BK0					BK0				
Uncorrected UGR		2.3					2.3				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.14	1.14	1.14	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	0.97	0.97	0.97	0.95
1	1.06	1.04	1.02	1.04	1.02	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90
2	1.00	0.96	0.93	0.98	0.95	0.92	0.95	0.93	0.90	0.92	0.90	0.88	0.90	0.88	0.87	0.85
3	0.94	0.90	0.86	0.93	0.89	0.86	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.80
4	0.89	0.84	0.80	0.88	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.76
5	0.84	0.79	0.75	0.83	0.78	0.75	0.81	0.77	0.74	0.80	0.76	0.74	0.78	0.75	0.73	0.72
6	0.80	0.75	0.71	0.79	0.74	0.71	0.78	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.69	0.68
7	0.76	0.71	0.67	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.65
8	0.72	0.67	0.64	0.72	0.67	0.64	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.62
9	0.69	0.64	0.61	0.69	0.64	0.61	0.68	0.64	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.59
10	0.66	0.61	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.57



Luminaire Lumens:

FL=417.47,FM=159.05,FH=0.24,FVH=0

BL=418.75,BM=158.82,BH=0.28,BVH=0

UL=0,UH=0

BUG Rating:B1-U0-G0

Intensity data(cd)

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C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	4421.76	4353.13	4195.07	3983.57	3723.13	3394.63	3227.01	2946.32	2661.69
45.0	4419.51	4461.69	4424.57	4267.07	4066.26	3821.57	3556.63	3390.69	3041.94
90.0	4451.01	4352.01	4261.44	4053.32	3796.26	3515.01	3171.32	2999.19	2712.88
135.0	4430.19	4439.19	4366.07	4192.82	3959.38	3690.51	3523.44	3181.44	2887.82
180.0	4421.76	4465.07	4399.26	4264.82	4011.13	3734.38	3446.38	3158.94	2989.07
225.0	4419.51	4253.57	4130.94	3887.38	3611.76	3326.01	2986.26	2819.19	2420.38
270.0	4451.01	4451.57	4369.44	4202.38	4070.19	3766.44	3373.26	3203.94	2874.88
315.0	4430.19	4336.26	4124.19	3984.13	3728.19	3462.69	3184.82	2845.63	2676.32
360.0	4421.76	4353.13	4195.07	3983.57	3723.13	3394.63	3227.01	2946.32	2661.69
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2356.82	2007.51	1848.32	1499.01	1020.54	1020.54	1020.54	847.46	814.33
45.0	2753.94	2455.82	2158.26	1986.69	1669.44	1429.82	1227.32	1062.51	911.76
90.0	2242.07	2068.26	1796.01	1553.01	1098.73	1068.30	1068.30	894.60	787.39
135.0	2599.26	2314.07	2147.57	1823.57	1575.51	1353.88	1160.38	1063.07	906.13
180.0	2649.88	2355.69	2068.82	1798.82	1497.88	1281.88	1099.07	1008.51	866.76
225.0	2084.01	1976.57	1664.38	1319.57	1057.50	1057.50	976.56	829.01	732.60
270.0	2598.69	2316.32	2032.26	1870.26	1565.38	1337.57	1142.94	964.07	917.94
315.0	2273.57	1939.44	1835.38	1533.32	1068.64	1068.64	986.23	874.24	785.93
360.0	2356.82	2007.51	1848.32	1499.01	1020.54	1020.54	1020.54	847.46	814.33
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	726.58	666.34	616.33	568.80	547.88	517.16	490.44	467.89	443.93
45.0	817.26	740.19	700.26	632.76	587.76	550.63	520.26	503.38	474.69
90.0	741.94	676.29	623.93	581.01	538.37	520.03	492.75	469.46	449.72
135.0	773.94	728.38	653.01	604.07	563.57	529.82	512.94	482.57	460.07
180.0	777.88	706.44	648.51	619.26	569.19	536.57	506.76	481.44	467.38
225.0	692.61	636.47	590.40	552.77	516.21	500.63	476.94	456.19	437.85
270.0	804.32	728.94	665.38	604.07	564.69	530.38	502.26	486.51	459.51
315.0	699.92	663.13	613.29	572.46	537.02	502.65	487.58	464.57	444.71
360.0	726.58	666.34	616.33	568.80	547.88	517.16	490.44	467.89	443.93
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	433.58	417.88	404.89	391.44	381.21	375.36	363.09	353.93	349.71
45.0	453.88	435.32	420.13	411.69	397.63	382.44	376.26	365.57	357.13
90.0	429.53	415.07	402.69	389.31	383.12	373.67	365.01	357.13	348.53
135.0	440.38	421.26	415.07	399.32	384.69	378.51	367.82	359.38	352.07
180.0	444.32	421.26	413.38	398.19	387.51	377.94	369.51	363.88	354.88
225.0	419.23	411.08	398.87	382.05	376.31	367.48	359.27	351.79	341.89
270.0	439.82	423.51	409.44	394.82	388.07	374.01	368.94	358.82	351.51
315.0	427.84	410.40	398.36	387.68	375.75	370.52	362.08	354.26	347.29
360.0	433.58	417.88	404.89	391.44	381.21	375.36	363.09	353.93	349.71
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	340.65	325.91	305.16	275.68	259.65	231.47	202.11	172.58	136.63
45.0	349.26	341.94	334.63	314.38	291.88	282.32	261.84	210.83	181.29
90.0	343.41	323.33	297.79	288.45	257.18	228.32	198.00	160.48	141.86
135.0	345.32	340.26	323.94	303.69	290.19	290.19	226.29	195.81	164.70
180.0	347.01	337.44	321.13	308.76	285.69	285.69	231.98	197.16	167.96
225.0	333.90	315.00	291.83	266.68	233.16	215.78	174.38	156.38	121.44
270.0	344.76	334.07	325.07	301.44	292.44	292.44	222.02	191.81	160.71
315.0	335.87	326.98	307.29	284.46	252.68	223.76	205.31	174.09	125.21
360.0	340.65	325.91	305.16	275.68	259.65	231.47	202.11	172.58	136.63

Intensity data(cd)

C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	107.21	80.04	50.34	37.91	20.93	11.59	8.44	7.14	6.58
45.0	151.14	133.43	98.89	71.66	48.38	25.59	14.34	9.39	8.16
90.0	111.66	82.91	57.60	32.79	23.34	13.44	8.61	7.59	7.14
135.0	146.25	110.31	81.68	56.48	31.84	18.11	10.24	7.99	7.48
180.0	137.98	103.39	92.36	52.03	32.23	22.73	11.93	9.51	8.72
225.0	93.37	66.94	44.49	23.29	16.76	10.29	9.06	7.93	6.92
270.0	130.22	112.39	78.47	45.56	33.92	19.41	10.24	8.55	7.54
315.0	107.83	79.31	54.68	34.26	17.38	12.38	8.55	7.59	6.64
360.0	107.21	80.04	50.34	37.91	20.93	11.59	8.44	7.14	6.58
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	5.51	5.12	4.44	3.21	1.24	1.01	0.79	0.68	0.51
45.0	7.48	6.36	5.57	4.78	3.77	3.04	1.18	0.84	0.79
90.0	6.24	5.51	4.73	3.32	1.63	1.13	0.96	0.73	0.62
135.0	6.47	5.74	5.06	4.33	3.77	1.63	0.96	0.84	0.73
180.0	7.88	7.43	6.69	6.08	5.18	1.52	1.07	0.90	0.73
225.0	6.19	5.51	4.50	3.54	1.35	1.18	1.01	0.79	0.68
270.0	6.92	6.08	5.40	4.73	3.77	2.87	1.35	1.13	1.01
315.0	5.85	5.29	4.61	3.43	1.69	0.96	0.79	0.68	0.51
360.0	5.51	5.12	4.44	3.21	1.24	1.01	0.79	0.68	0.51
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	0.34	0.28	0.28	0.17	0.17	0.11	0.11	0.06	0.06
45.0	0.56	0.45	0.34	0.23	0.28	0.17	0.17	0.17	0.11
90.0	0.51	0.45	0.39	0.28	0.23	0.23	0.23	0.11	0.11
135.0	0.68	0.45	0.34	0.34	0.23	0.17	0.17	0.17	0.06
180.0	0.62	0.45	0.34	0.34	0.23	0.23	0.11	0.11	0.17
225.0	0.56	0.45	0.45	0.34	0.34	0.28	0.23	0.23	0.17
270.0	0.84	0.73	0.62	0.51	0.51	0.39	0.34	0.34	0.28
315.0	0.39	0.34	0.28	0.23	0.17	0.11	0.06	0.06	0.00
360.0	0.34	0.28	0.28	0.17	0.17	0.11	0.11	0.06	0.06
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.28	0.17	0.11	0.06	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	0.00
45.0	0.00
90.0	0.00
135.0	0.00
180.0	0.00
225.0	0.00
270.0	0.00
315.0	0.00
360.0	0.00