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AFX

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Client:

LumCAT: AUGW0720LAJMVNP

Luminaire: LED灯具

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.252

Lamp flux(lm): 3207.7

Power (W): 29.840

Number of Lamps: 1

PF: 0.988

Length(mm): 145

Width(mm): 40

Phm Type: C

Height(mm): 470

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Photometric Results

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Lumens(lm): 3207.72, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 107.50

Central intensity(cd): 42.440, Maximum intensity(cd): 917.647

Angle of maximum intensity: C=90.0  $\gamma$ =95.0

Beam Angle(50%Imax): [C0/180]Total=294.4

[C90/270]Total=113.0

Field angle(10%Imax): [C0/180]Total=342.8

[C90/270]Total=161.0

Maximum s/h(1/2): C0\_180=3.11 C90\_270=6.68

Maximum s/h(1/4): C0\_180=3.03 C90\_270=6.20

Up flux rate of lamp(%): 50.64%

Down flux rate of lamp(%): 49.36%

Up flux rate of LUM(%): 50.64%

Down flux rate of LUM(%): 49.36%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 18.606%

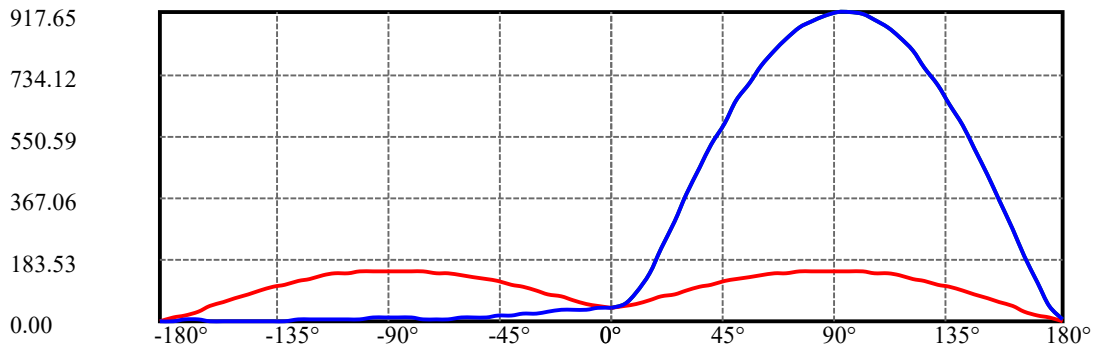
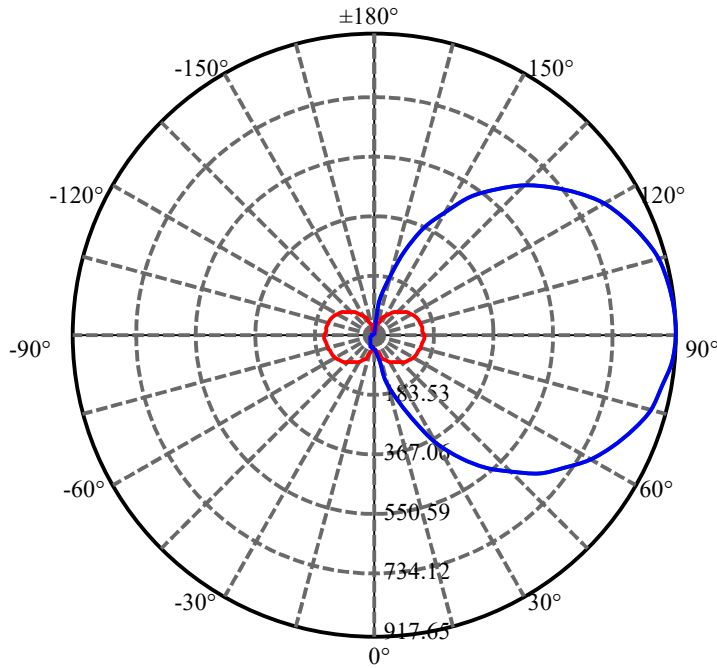
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	42.440	0.000	0	0.00%	0.00%
5.0	44.726	1.042	1.042	0.03%	0.03%
10.0	55.338	3.580	4.622	0.11%	0.14%
15.0	73.679	7.653	12.275	0.24%	0.38%
20.0	98.154	14.161	26.436	0.44%	0.82%
25.0	122.586	23.152	49.588	0.72%	1.55%
30.0	148.047	34.249	83.837	1.07%	2.61%
35.0	173.437	47.341	131.178	1.48%	4.09%
40.0	197.455	61.881	193.058	1.93%	6.02%
45.0	220.065	77.307	270.365	2.41%	8.43%
50.0	241.136	93.192	363.558	2.91%	11.33%
55.0	260.235	109.015	472.572	3.40%	14.73%
60.0	277.292	124.248	596.82	3.87%	18.61%
65.0	292.621	138.547	735.367	4.32%	22.92%
70.0	306.058	151.589	886.957	4.73%	27.65%
75.0	317.228	162.917	1049.874	5.08%	32.73%
80.0	325.852	172.070	1221.944	5.36%	38.09%
85.0	331.869	178.719	1400.662	5.57%	43.67%
90.0	335.091	182.619	1583.281	5.69%	49.36%
95.0	335.624	183.647	1766.928	5.73%	55.08%
100.0	332.901	181.654	1948.582	5.66%	60.75%
105.0	326.862	176.534	2125.117	5.50%	66.25%
110.0	317.472	168.419	2293.535	5.25%	71.50%
115.0	304.790	157.561	2451.096	4.91%	76.41%
120.0	289.496	144.472	2595.568	4.50%	80.92%
125.0	271.489	129.670	2725.238	4.04%	84.96%
130.0	251.099	113.628	2838.866	3.54%	88.50%
135.0	228.675	96.945	2935.811	3.02%	91.52%
140.0	204.841	80.269	3016.08	2.50%	94.03%
145.0	179.046	64.049	3080.129	2.00%	96.02%
150.0	151.133	48.621	3128.75	1.52%	97.54%
155.0	122.910	34.680	3163.43	1.08%	98.62%
160.0	94.171	22.768	3186.198	0.71%	99.33%
165.0	65.259	13.139	3199.337	0.41%	99.74%
170.0	38.491	6.154	3205.492	0.19%	99.93%
175.0	17.049	1.987	3207.479	0.06%	99.99%
180.0	3.533	0.246	3207.725	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	83.84	2.61%	2.61%
0-40	193.06	6.02%	6.02%
0-60	596.82	18.61%	18.61%
0-90	1583.28	49.36%	49.36%
0-120	2595.57	80.92%	80.92%
0-180	3207.72	100.00%	100.00%
60-90	986.46	30.75%	30.75%
90-120	1012.29	31.56%	31.56%
90-130	1255.58	39.14%	39.14%
90-150	1545.47	48.18%	48.18%
90-180	1624.20	50.63%	50.63%
0-118.98	2566.18	80.00%	80.00%

ZONAL LUMEN SUMMARY

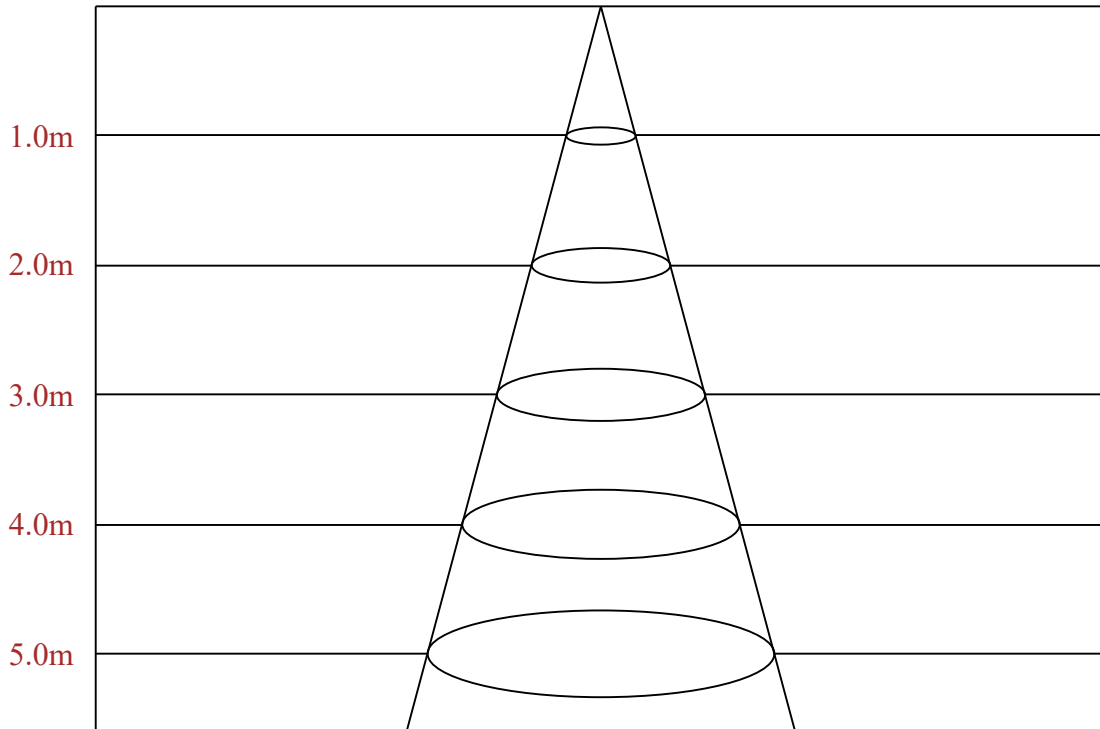
0-10	4.62
10-20	21.81
20-30	57.40
30-40	109.22
40-50	170.50
50-60	233.26
60-70	290.14
70-80	334.99
80-90	361.34
90-100	365.30
100-110	344.95
110-120	302.03
120-130	243.30
130-140	177.21
140-150	112.67
150-160	57.45
160-170	19.29
170-180	1.99



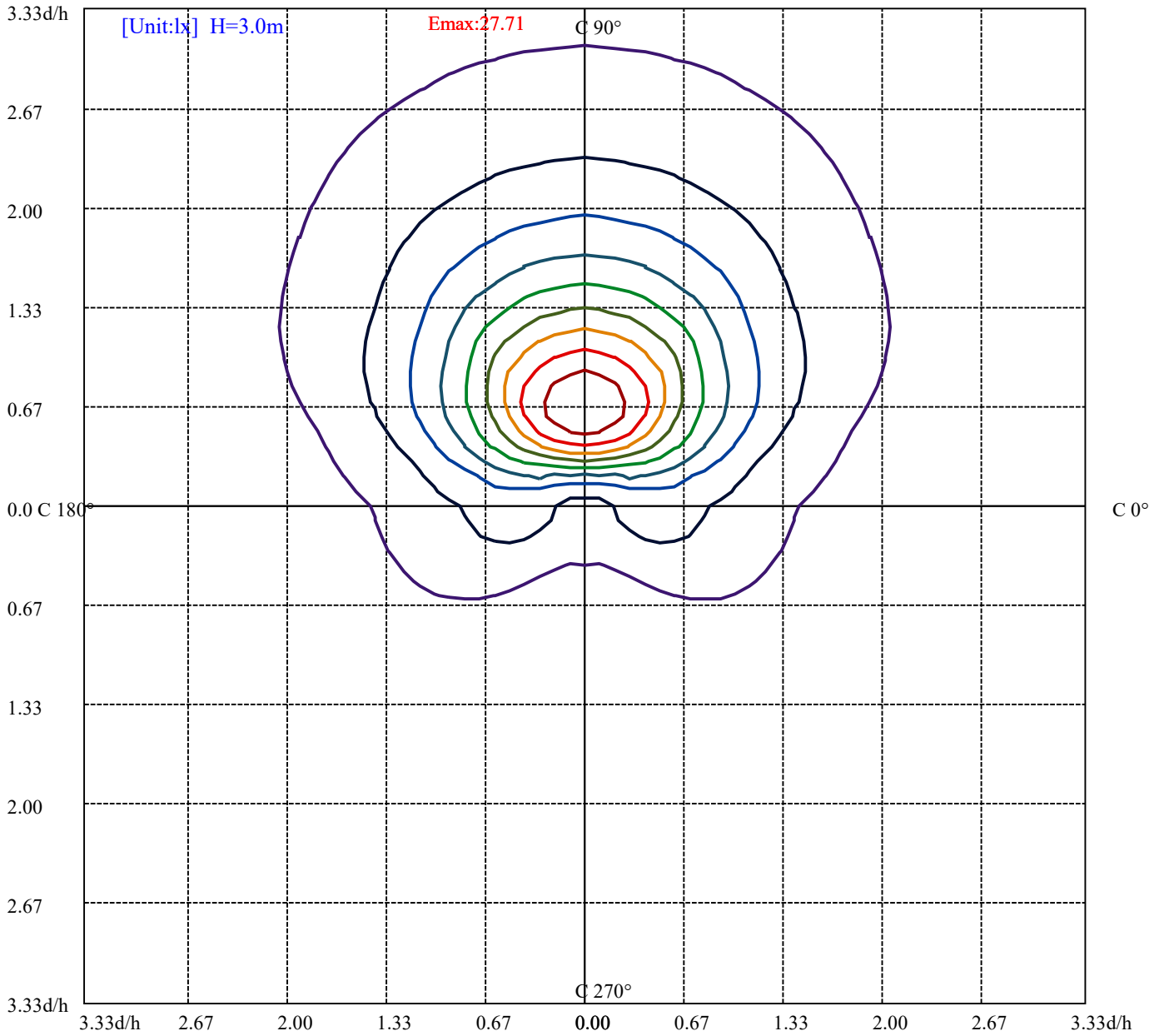
C90(Max): ———  
 C0/C180: ———  
 C90/C270: ———

Field angle(10%Imax):C0/180Left:261.4 Right:81.4  
 :C90/270Left:84.4 Right:76.6

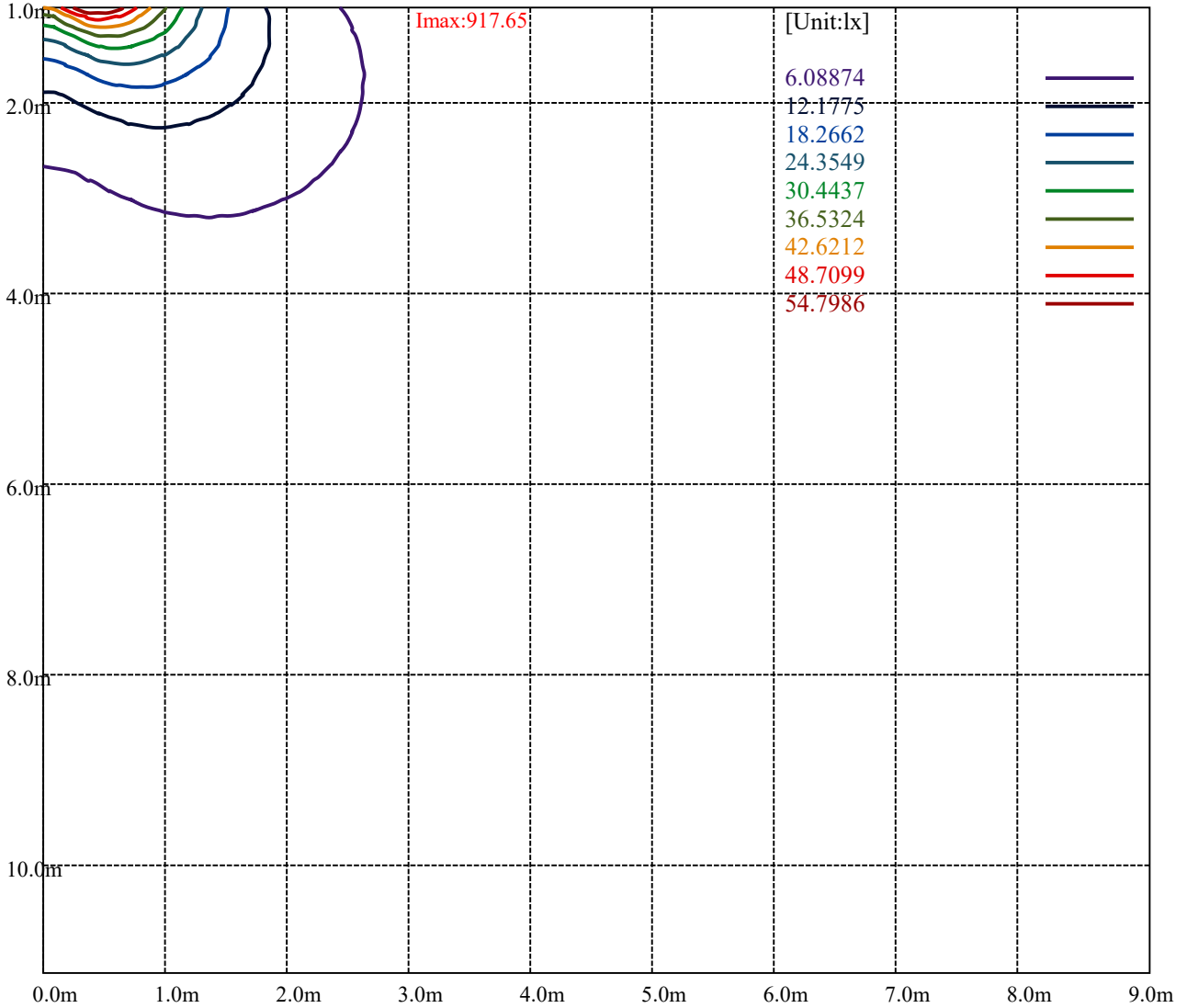
Beam Angle(50%Imax):C0/180Left:237.2 Right:57.2  
 :C90/270Left:59.6 Right:53.4



Max , Ave      Beam angle of C90 plane 216.82



(10%Emax) 2.7705	—
(20%Emax) 5.541	—
(30%Emax) 8.3115	—
(40%Emax) 11.082	—
(50%Emax) 13.85244	—
(60%Emax) 16.623	—
(70%Emax) 19.39344	—
(80%Emax) 22.164	—
(90%Emax) 24.93444	—



Luminance Table

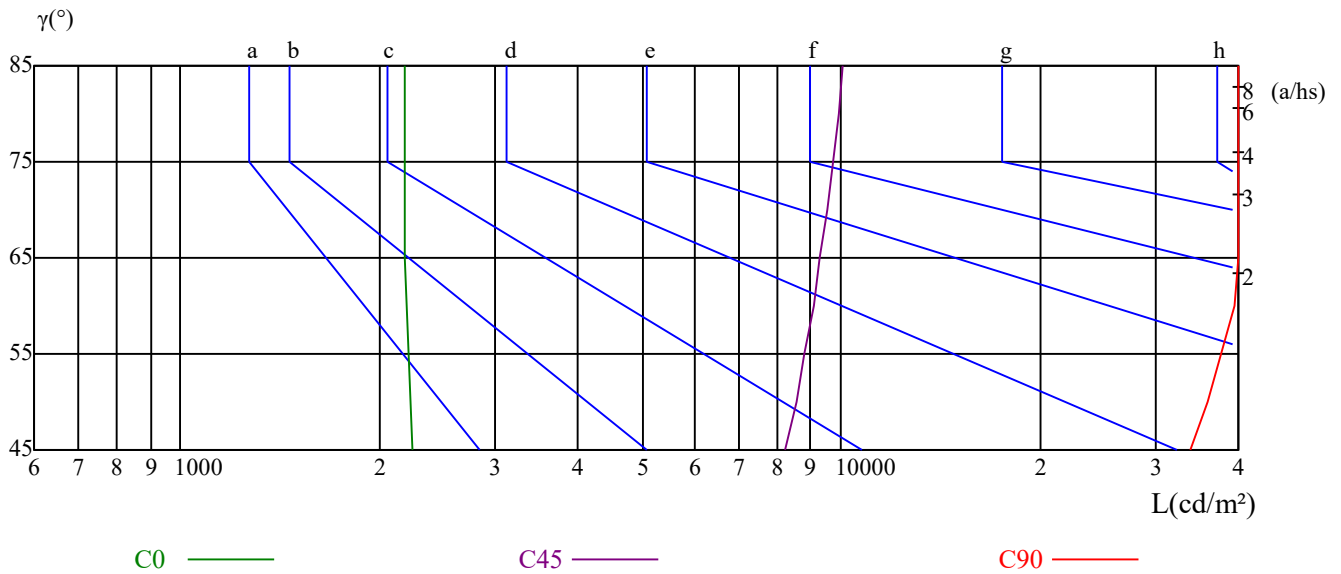
$\gamma$	45	50	55	60	65	70	75	80	85
C0	2252	2224	2216	2204	2190	2187	2181	2181	2190
C45	8212	8549	8828	9083	9318	9528	9729	9912	10077
C90	33886	36050	37771	39531	41132	42716	44228	45654	47170

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
57374	164868	123333	97842	292454	219164	296315	906724	682996

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





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	0.49
1	0.85	0.79	0.74	0.78	0.72	0.68	0.64	0.60	0.56	0.52	0.48	0.45	0.40	0.38	0.35	0.30
2	0.71	0.63	0.56	0.65	0.57	0.51	0.53	0.47	0.42	0.42	0.38	0.34	0.32	0.29	0.26	0.20
3	0.61	0.51	0.44	0.55	0.47	0.40	0.45	0.38	0.33	0.35	0.30	0.26	0.27	0.23	0.19	0.15
4	0.53	0.43	0.35	0.48	0.39	0.32	0.39	0.32	0.26	0.30	0.25	0.21	0.23	0.19	0.15	0.11
5	0.46	0.36	0.29	0.42	0.33	0.27	0.34	0.27	0.22	0.27	0.21	0.17	0.20	0.16	0.12	0.09
6	0.41	0.31	0.25	0.37	0.29	0.22	0.30	0.23	0.18	0.24	0.18	0.14	0.18	0.13	0.10	0.07
7	0.36	0.27	0.21	0.33	0.25	0.19	0.27	0.20	0.15	0.21	0.16	0.12	0.16	0.12	0.09	0.06
8	0.33	0.24	0.18	0.30	0.22	0.16	0.24	0.18	0.13	0.19	0.14	0.10	0.14	0.10	0.07	0.05
9	0.30	0.21	0.16	0.27	0.19	0.14	0.22	0.16	0.12	0.17	0.12	0.09	0.13	0.09	0.06	0.04
10	0.27	0.19	0.14	0.25	0.17	0.12	0.20	0.14	0.10	0.16	0.11	0.08	0.12	0.08	0.05	0.03

## Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	42.44	41.61	46.60	55.75	66.57	76.56	86.54	95.70	105.68
15.0	42.44	45.04	51.97	64.96	80.55	97.01	113.46	130.78	148.11
30.0	42.44	47.74	57.47	78.69	106.98	138.81	173.30	208.66	242.26
45.0	42.44	47.86	66.82	101.13	145.38	195.04	248.32	302.50	353.97
60.0	42.44	48.90	77.50	121.78	181.75	249.10	317.38	383.81	444.70
75.0	42.44	50.74	82.11	137.47	203.90	282.32	354.28	427.17	496.36
90.0	42.44	52.81	84.88	144.30	218.80	298.97	378.19	453.64	525.31
105.0	42.44	51.87	84.88	137.69	213.14	286.71	364.04	437.60	508.34
120.0	42.44	48.90	75.65	122.71	184.52	252.79	317.38	388.42	448.39
135.0	42.44	44.10	61.58	94.03	133.98	182.24	233.00	282.93	331.20
150.0	42.44	47.98	60.89	83.03	138.39	146.69	183.60	222.35	259.25
165.0	42.44	45.15	53.28	66.82	83.07	102.04	120.10	138.16	158.02
180.0	42.44	46.60	55.75	65.74	76.56	87.38	97.36	106.52	114.84
195.0	42.44	45.90	52.83	60.63	69.29	77.95	86.61	93.54	100.47
210.0	42.44	44.21	47.74	53.93	60.12	67.20	72.50	78.69	84.00
225.0	42.44	41.54	43.34	46.05	49.66	52.37	55.08	57.79	60.50
240.0	42.44	40.59	39.67	38.75	37.83	36.90	35.06	34.14	33.21
255.0	42.44	38.75	36.90	35.06	32.29	29.52	25.83	22.14	19.37
270.0	42.44	39.61	36.78	34.90	32.07	29.24	25.46	21.69	18.86
285.0	42.44	39.61	37.72	34.90	32.07	29.24	26.41	22.63	21.69
300.0	42.44	39.67	37.83	36.90	36.90	34.14	32.29	31.37	29.52
315.0	42.44	36.61	38.28	39.94	43.27	45.77	48.27	49.93	51.59
330.0	42.44	43.36	47.05	53.51	59.97	66.43	72.89	78.42	83.03
345.0	42.44	44.25	50.57	59.60	68.63	77.66	85.78	93.91	100.23
360.0	42.44	41.61	46.60	55.75	66.57	76.56	86.54	95.70	105.68
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	113.17	120.66	128.15	133.15	138.14	141.47	143.96	145.63	147.29
15.0	165.43	181.02	196.61	209.60	222.59	233.85	243.38	250.31	256.37
30.0	276.74	309.46	339.52	366.93	390.80	412.02	428.82	442.97	453.58
45.0	403.63	448.78	490.32	526.44	559.85	587.84	612.22	630.28	642.92
60.0	507.43	560.02	609.84	655.05	694.72	727.94	755.62	775.91	790.68
75.0	560.02	619.99	674.43	719.63	762.07	799.90	829.43	851.57	867.25
90.0	589.44	653.58	707.33	758.26	801.64	839.37	869.55	891.24	907.27
105.0	574.35	634.71	689.41	737.51	782.78	818.62	848.80	871.43	887.47
120.0	508.36	563.71	615.38	660.59	700.26	734.40	760.23	783.29	797.13
135.0	377.80	420.24	457.69	493.47	524.26	550.89	572.52	590.00	601.65
150.0	296.16	331.22	363.51	393.03	419.79	441.93	461.30	475.14	486.21
165.0	175.18	193.24	209.49	224.84	240.19	252.83	263.67	272.70	279.02
180.0	122.33	128.15	133.98	139.80	143.13	147.29	149.79	151.45	152.28
195.0	106.53	112.60	116.93	121.26	123.86	126.45	128.19	129.92	129.92
210.0	88.42	91.95	95.49	98.14	99.91	101.68	103.45	105.22	106.98
225.0	62.31	64.11	65.92	66.82	67.72	69.53	71.34	73.14	74.04
240.0	31.37	30.45	29.52	27.68	27.68	28.60	30.45	31.37	32.29
255.0	15.68	12.92	10.15	7.38	6.46	7.38	8.30	8.30	9.23
270.0	16.03	12.26	9.43	9.43	6.60	7.54	8.49	9.43	9.43
285.0	16.03	13.20	10.37	7.54	6.60	7.54	8.49	9.43	9.43
300.0	27.68	26.76	24.91	23.99	23.07	23.99	25.83	26.76	27.68
315.0	53.26	54.92	55.75	56.59	57.42	58.25	59.92	61.58	62.41
330.0	87.65	91.34	95.03	96.87	99.64	100.56	102.41	104.25	105.18
345.0	106.55	111.97	116.48	121.00	123.71	125.51	127.32	129.13	129.13
360.0	113.17	120.66	128.15	133.15	138.14	141.47	143.96	145.63	147.29

## Intensity data(cd)

C/ $\gamma$ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	147.29	147.29	146.46	143.96	139.80	134.81	128.15	120.66	112.34
15.0	260.70	261.57	260.70	257.24	249.44	239.05	226.06	212.20	195.74
30.0	458.88	461.53	458.00	450.04	436.78	417.33	396.11	370.47	341.29
45.0	650.14	651.95	647.44	635.70	617.64	593.26	563.46	529.15	489.41
60.0	798.98	800.82	794.37	780.53	759.31	730.71	694.72	653.21	605.23
75.0	875.56	878.32	871.87	856.18	833.12	802.67	763.92	720.56	668.89
90.0	916.70	917.65	910.10	895.01	873.32	841.26	801.64	754.49	701.67
105.0	895.96	896.90	889.35	874.26	851.63	819.56	779.95	736.57	683.76
120.0	805.44	807.28	800.82	786.99	766.69	737.16	701.18	658.74	612.61
135.0	607.47	609.14	604.15	594.16	577.52	554.22	526.76	495.13	457.69
150.0	491.75	493.60	489.91	481.60	466.84	448.39	424.40	396.72	365.35
165.0	282.63	283.54	283.54	279.02	269.99	259.15	245.61	230.26	212.20
180.0	152.28	151.45	150.62	146.46	141.47	134.81	128.15	119.00	109.84
195.0	129.92	129.92	128.19	125.59	120.39	115.19	108.27	100.47	91.81
210.0	106.98	106.10	104.33	101.68	98.14	93.72	88.42	81.34	74.27
225.0	74.04	73.14	72.24	69.53	67.72	64.11	63.21	55.08	49.66
240.0	32.29	32.29	32.29	30.45	28.60	26.76	24.91	22.14	20.30
255.0	9.23	9.23	9.23	8.30	7.38	6.46	5.54	4.61	3.69
270.0	9.43	9.43	8.49	8.49	7.54	5.66	4.72	3.77	2.83
285.0	9.43	9.43	8.49	8.49	7.54	6.60	5.66	3.77	2.83
300.0	27.68	27.68	26.76	25.83	24.91	23.07	21.22	19.37	16.61
315.0	63.24	62.41	60.75	59.08	56.59	54.09	50.76	46.60	42.44
330.0	106.10	105.18	103.33	101.49	96.87	92.26	86.73	80.27	73.81
345.0	130.03	129.13	128.22	124.61	120.10	114.68	108.36	101.13	92.10
360.0	147.29	147.29	146.46	143.96	139.80	134.81	128.15	120.66	112.34
C/ $\gamma$ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	104.02	93.20	83.22	72.40	60.75	47.43	34.95	21.64	11.65
15.0	177.56	157.63	136.85	116.06	94.41	72.75	51.97	32.05	14.72
30.0	307.69	274.09	236.96	197.17	156.50	119.36	82.23	49.51	21.22
45.0	444.27	396.41	345.84	288.05	232.97	174.27	120.10	68.63	29.80
60.0	551.72	497.29	433.63	367.20	298.00	228.81	155.92	91.34	36.90
75.0	611.69	548.95	485.29	412.41	336.75	258.33	178.99	104.25	44.29
90.0	645.09	580.01	510.22	434.77	359.33	273.50	193.34	113.17	48.10
105.0	625.28	562.09	497.02	423.46	346.12	265.96	184.85	111.29	48.10
120.0	557.26	500.98	438.24	371.81	301.69	232.50	160.53	94.11	39.67
135.0	416.08	371.14	325.37	271.28	220.52	166.43	115.67	64.91	29.13
150.0	333.06	295.23	254.64	212.20	169.76	129.17	88.57	51.67	23.07
165.0	192.33	170.66	148.99	123.71	102.04	77.66	55.08	33.41	16.25
180.0	99.03	88.21	76.56	64.91	51.59	38.28	24.96	13.31	5.83
195.0	84.01	74.49	64.09	53.70	42.44	39.84	20.79	11.26	5.20
210.0	67.20	64.54	50.40	41.56	32.71	24.76	15.91	8.84	4.42
225.0	44.25	39.73	33.41	27.99	21.67	15.35	10.84	6.32	3.61
240.0	17.53	15.68	13.84	11.07	9.23	7.38	6.46	4.61	1.85
255.0	2.77	2.77	2.77	2.77	3.69	3.69	3.69	3.69	1.85
270.0	2.83	1.89	1.89	1.89	2.83	2.83	3.77	3.77	2.83
285.0	2.83	1.89	2.83	2.83	2.83	3.77	3.77	3.77	2.83
300.0	14.76	13.84	11.99	10.15	9.23	7.38	6.46	4.61	3.69
315.0	37.45	33.29	29.13	24.13	19.14	14.15	9.99	6.66	4.16
330.0	66.43	58.12	49.82	41.52	33.21	24.91	16.61	9.23	4.61
345.0	83.07	74.04	64.11	54.18	42.44	31.60	20.77	11.74	5.42
360.0	104.02	93.20	83.22	72.40	60.75	47.43	34.95	21.64	11.65

Intensity data(cd)

C/γ(°)	180.0
0.0	4.99
15.0	5.20
30.0	5.30
45.0	6.32
60.0	7.38
75.0	7.38
90.0	7.54
105.0	9.43
120.0	9.23
135.0	8.32
150.0	7.38
165.0	6.32
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	4.99