



LIT by CARDI

Client:

LumCAT: LIT by CARDI

Luminaire: 0028920095 994772402 60W 6500K 7200lm

Report No:

Voltage(V):

Test No:

Current(A):

LampCAT:

Power (W): 60.0000

Lamp flux(lm)

PF:

Number of Lamps: 1

Ballast type:

Length(mm): 1523

Width(mm): 70

Phm Type: C

Height(mm): 77

Photometric Results

Lumens(lm): 7200.00

Lumens(lm)/Power(W): 120.00

Central intensity(cd): 1915.408

Maximum intensity(cd): 1920.949

Angle of maximum intensity: $C=195.0$ $\gamma=10.0$

Beam Angle(50%Imax): [C0/180]Total=112.5

[C90/270]Total=134.1

Field angle(10%Imax): [C0/180]Total=159.9

[C90/270]Total=235.8

Maximum s/h(1/2): C0_180=1.26 C90_270=1.29

Maximum s/h(1/4): C0_180=1.38 C90_270=1.44

Up flux rate of LUM(%): 10.04%

Down flux rate of LUM(%): 89.96%

CIE Type : Semidirect lighting

Output flux ratio in π solid angle : 62.943%

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Zonal flux distribution table

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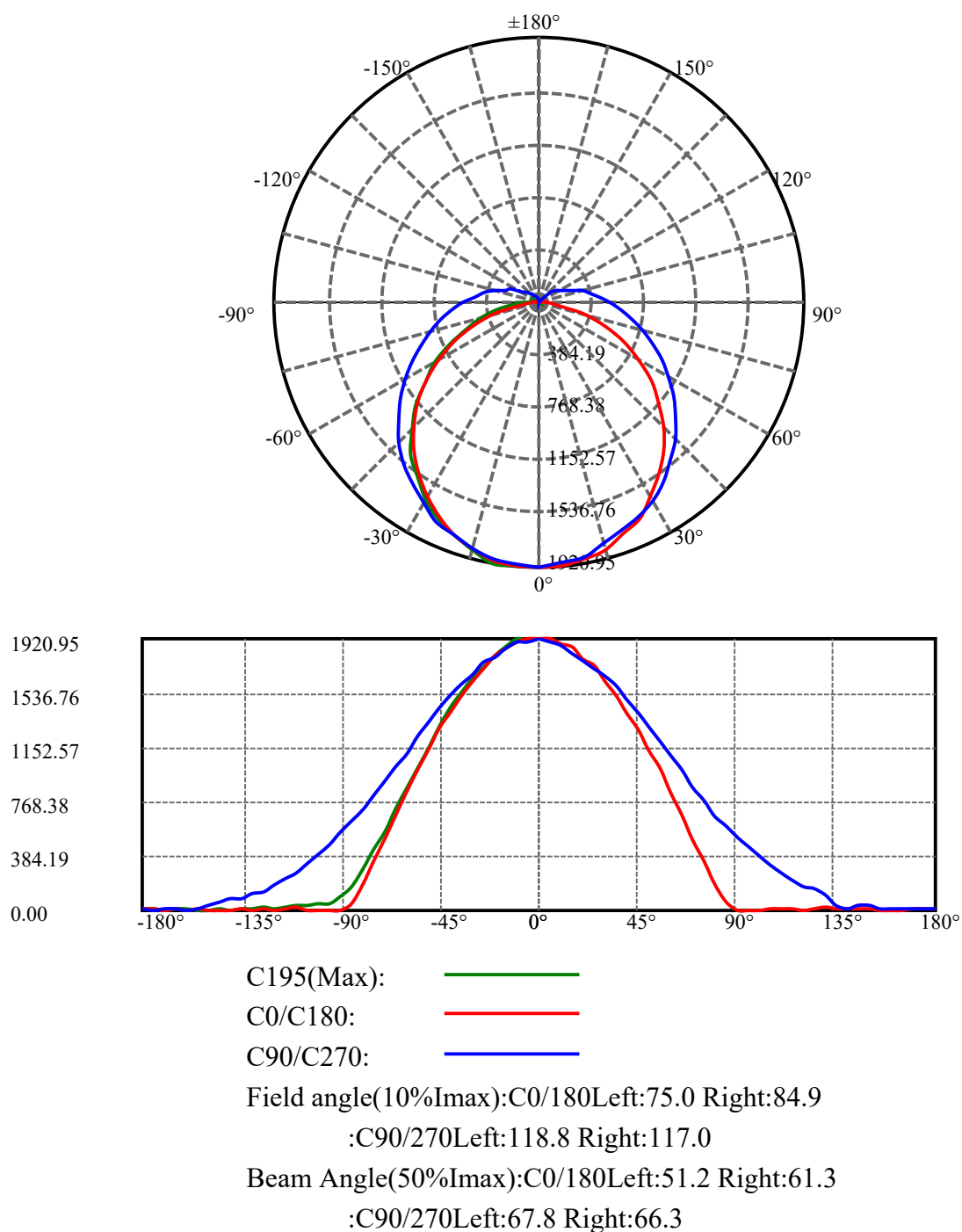
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	956.997	0.000	0	.000%	.000%
5.0	952.163	45.662	45.662	.634%	.634%
10.0	939.976	135.628	181.29	1.884%	2.518%
15.0	919.114	221.562	402.852	3.077%	5.595%
20.0	895.865	300.170	703.021	4.169%	9.764%
25.0	864.064	369.459	1072.481	5.131%	14.896%
30.0	821.509	428.304	1500.785	5.949%	20.844%
35.0	779.943	474.505	1975.29	6.590%	27.435%
40.0	731.979	506.513	2481.803	7.035%	34.469%
45.0	678.428	524.014	3005.817	7.278%	41.747%
50.0	620.029	525.642	3531.459	7.301%	49.048%
55.0	555.739	512.964	4044.423	7.124%	56.173%
60.0	494.916	487.482	4531.905	6.771%	62.943%
65.0	430.704	450.028	4981.933	6.250%	69.193%
70.0	366.927	404.260	5386.194	5.615%	74.808%
75.0	307.190	352.518	5738.712	4.896%	79.704%
80.0	249.430	297.628	6036.339	4.134%	83.838%
85.0	202.433	243.769	6280.108	3.386%	87.224%
90.0	163.110	197.150	6477.258	2.738%	89.962%
95.0	132.011	160.549	6637.806	2.230%	92.192%
100.0	109.855	130.536	6768.342	1.813%	94.005%
105.0	89.776	105.964	6874.306	1.472%	95.476%
110.0	73.196	85.061	6959.367	1.181%	96.658%
115.0	60.916	67.739	7027.106	.941%	97.599%
120.0	46.815	51.734	7078.84	.719%	98.317%
125.0	38.559	38.479	7117.319	.534%	98.852%
130.0	30.504	28.464	7145.782	.395%	99.247%
135.0	21.630	18.599	7164.381	.258%	99.505%
140.0	15.734	11.555	7175.937	.160%	99.666%
145.0	12.589	8.541	7184.477	.119%	99.784%
150.0	9.418	6.354	7190.831	.088%	99.873%
155.0	7.425	3.607	7194.438	.050%	99.923%
160.0	6.307	2.205	7196.642	.031%	99.953%
165.0	7.239	1.661	7198.303	.023%	99.976%
170.0	5.873	0.965	7199.268	.013%	99.990%
175.0	7.437	0.539	7199.807	.007%	99.997%
180.0	6.700	0.197	7200.005	.003%	100.000%

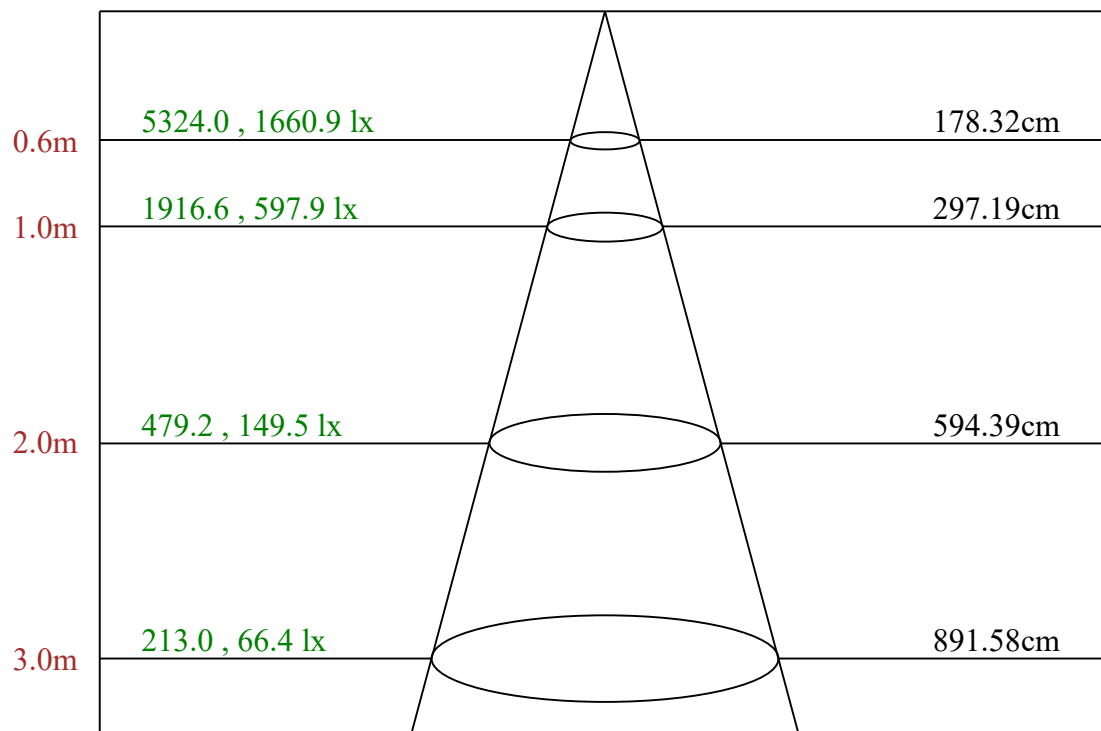
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	1500.78	20.84%
0-40	2481.80	34.47%
0-60	4531.91	62.94%
0-90	6477.26	89.96%
0-120	7078.84	98.32%
0-180	7200.00	100.00%
60-90	2432.83	33.79%
90-120	798.73	11.09%
90-130	865.67	12.02%
90-150	910.72	12.65%
90-180	919.70	12.77%
0-75.36	5760.00	80.00%

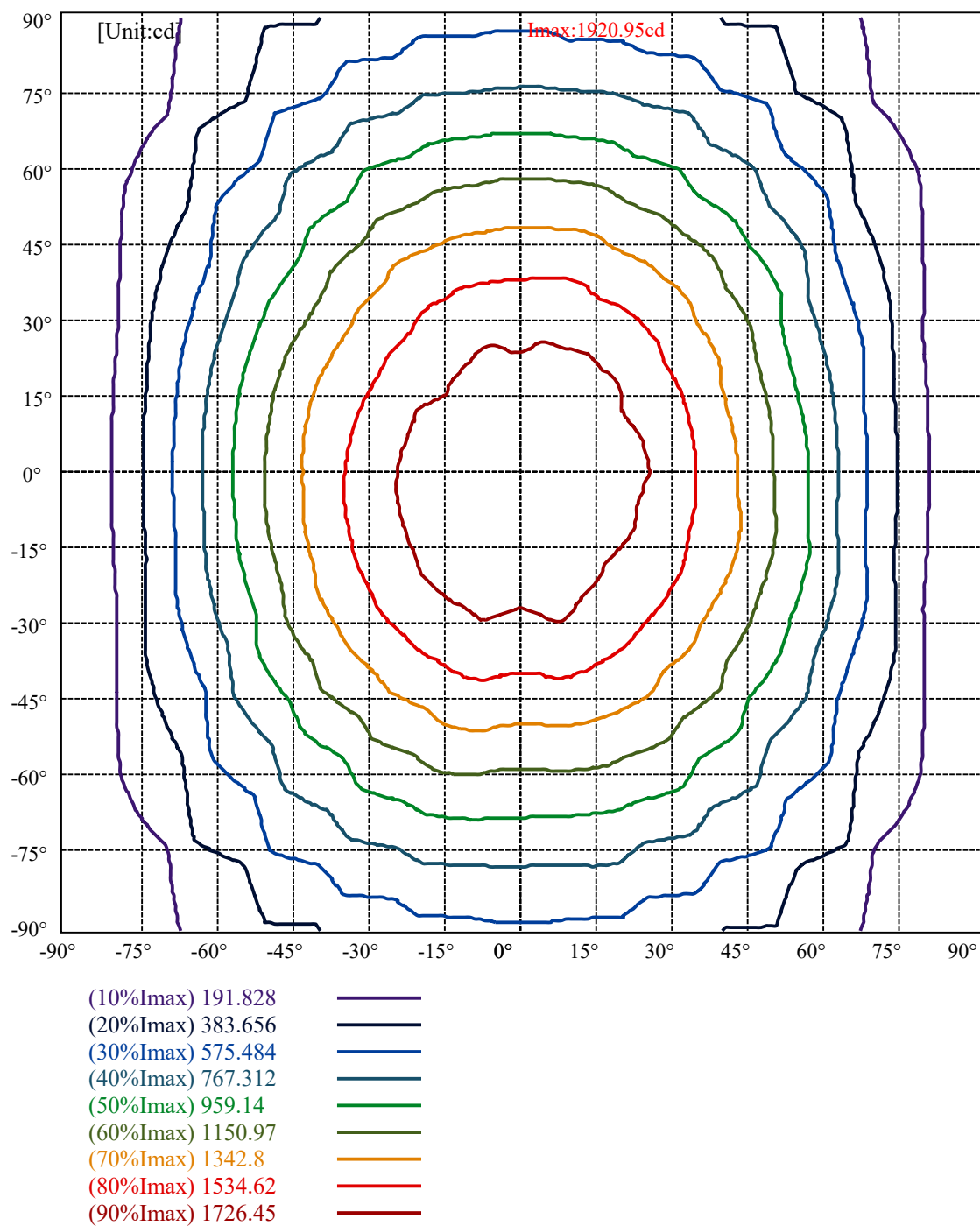
ZONAL LUMEN SUMMARY

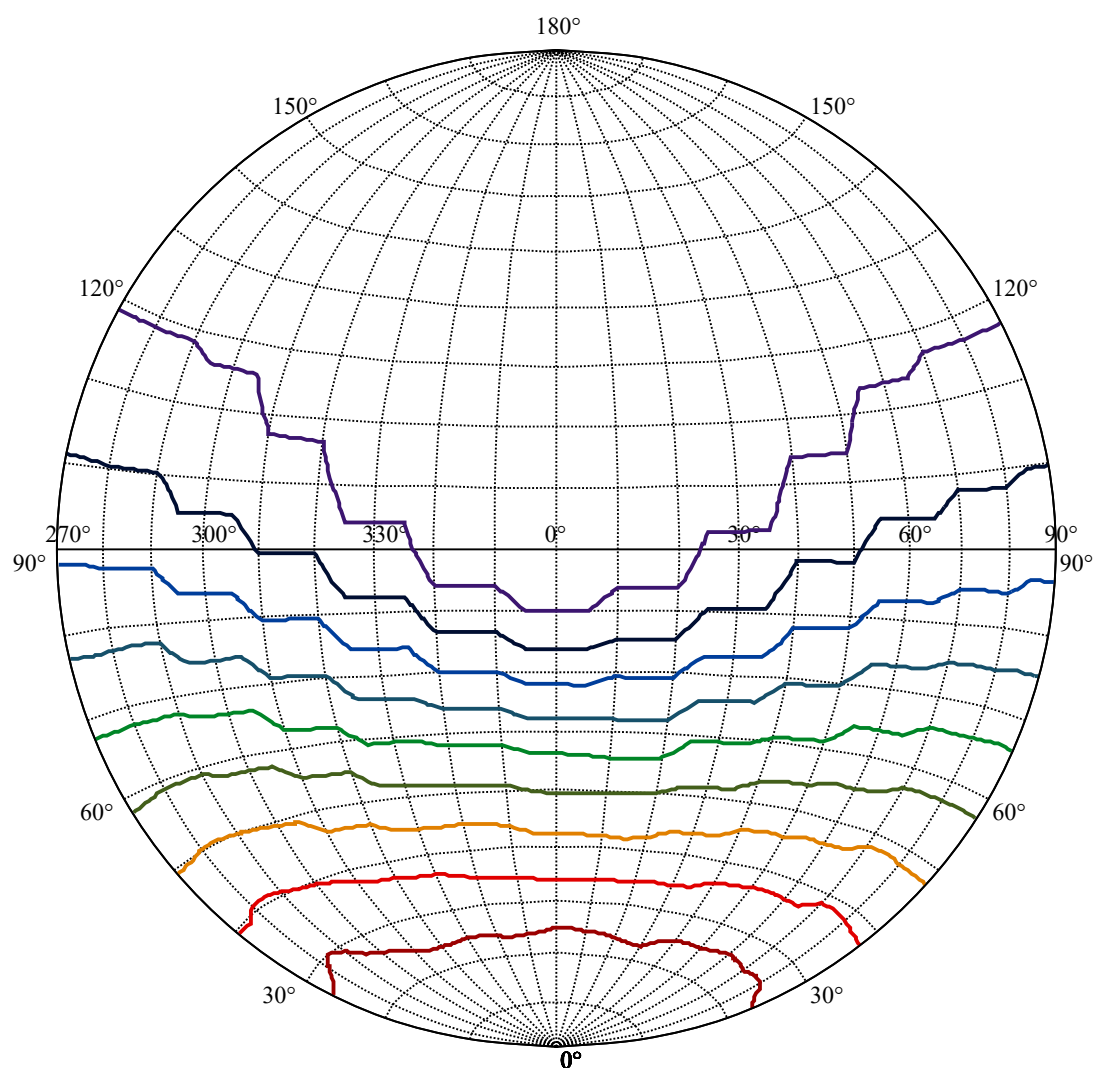
0-10	181.29
10-20	521.73
20-30	797.76
30-40	981.02
40-50	1049.66
50-60	1000.45
60-70	854.29
70-80	650.15
80-90	440.92
90-100	291.08
100-110	191.02
110-120	119.47
120-130	66.94
130-140	30.15
140-150	14.89
150-160	5.81
160-170	2.63
170-180	0.54





Max , Ave Beam angle of C195 plane 112.12





House

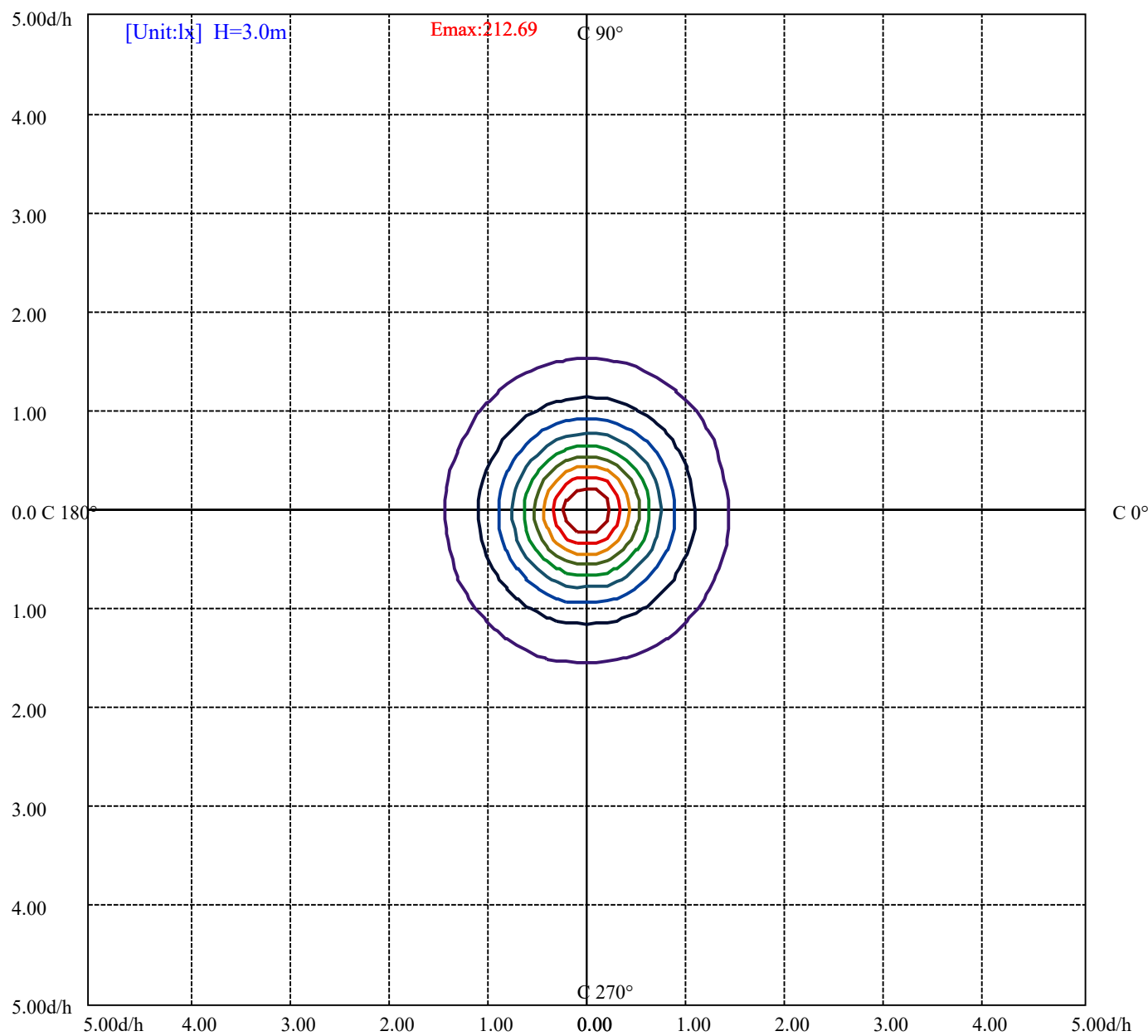
[Unit:cd]

Road

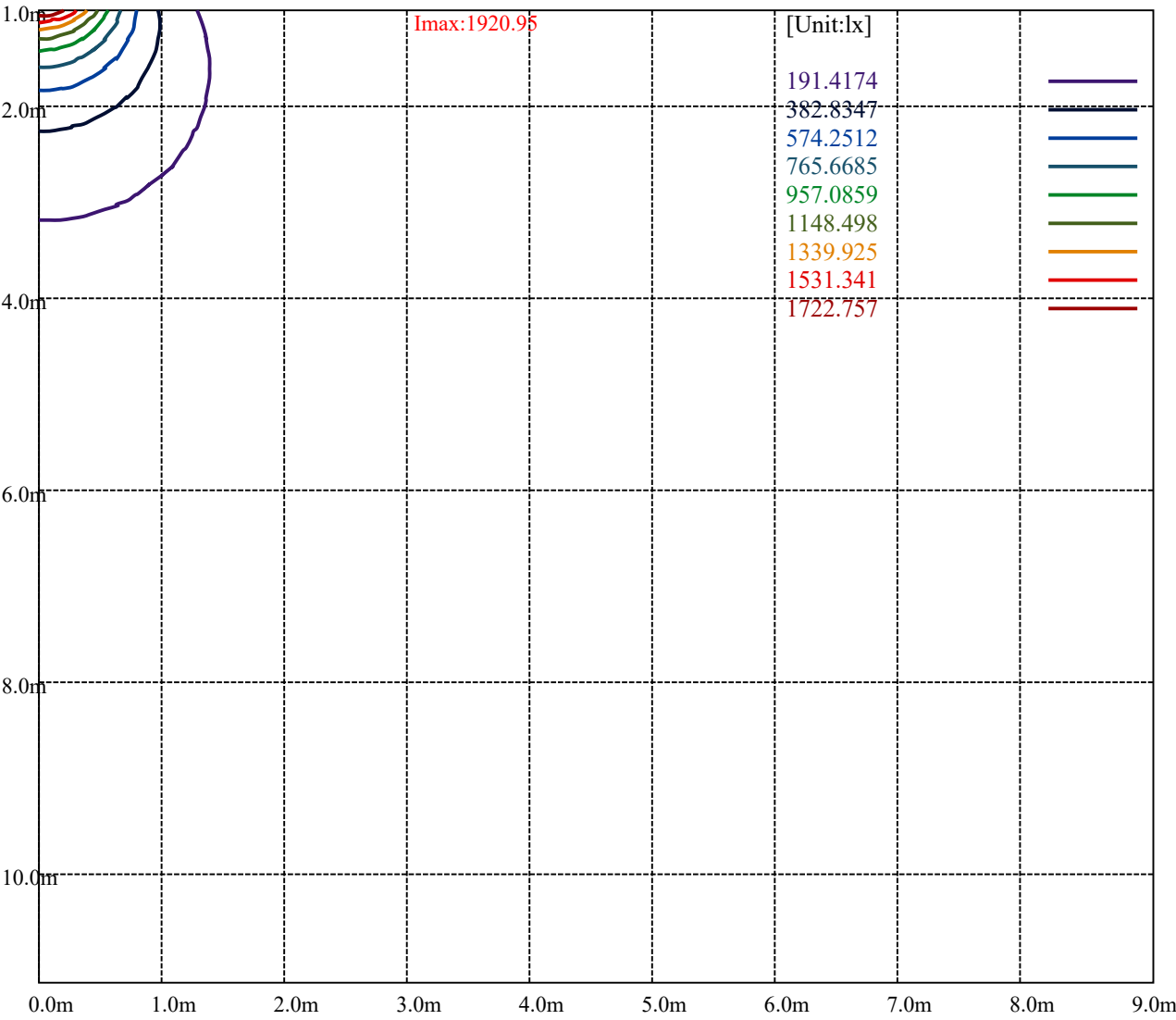
Imax:1920.95

(10%Imax) 191.971
(20%Imax) 383.942
(30%Imax) 575.913
(40%Imax) 767.8841
(50%Imax) 959.8551
(60%Imax) 1151.826
(70%Imax) 1343.792
(80%Imax) 1535.768
(90%Imax) 1727.734





(10%Emax) 21.2686	—
(20%Emax) 42.5372	—
(30%Emax) 63.80568	—
(40%Emax) 85.07429	—
(50%Emax) 106.3429	—
(60%Emax) 127.6109	—
(70%Emax) 148.8805	—
(80%Emax) 170.149	—
(90%Emax) 191.4175	—



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Luminance Limiting Curve(no luminous side)

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Luminance Table

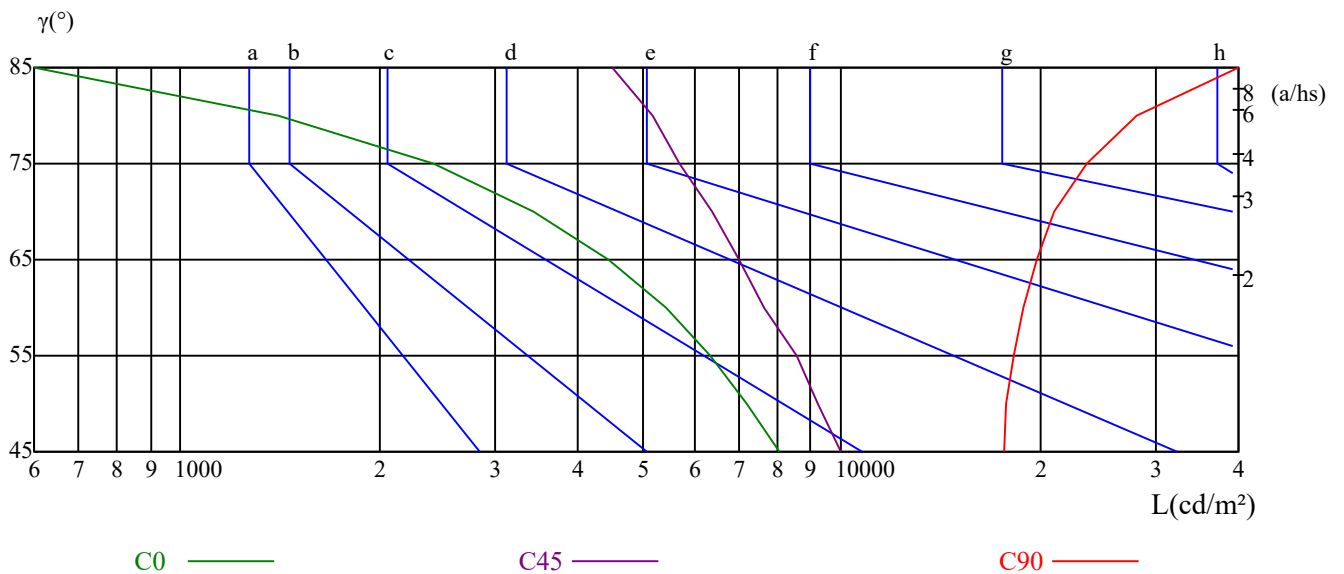
γ	45	50	55	60	65	70	75	80	85
C0	8069	7177	6358	5428	4435	3430	2421	1404	445
C45	10013	9208	8565	7650	7003	6398	5711	5190	4511
C90	17683	17825	18280	18868	19752	21005	23530	28028	40519

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
14907	22141	19407	12454	28592	23604	5905	65904	47443

Glare Table

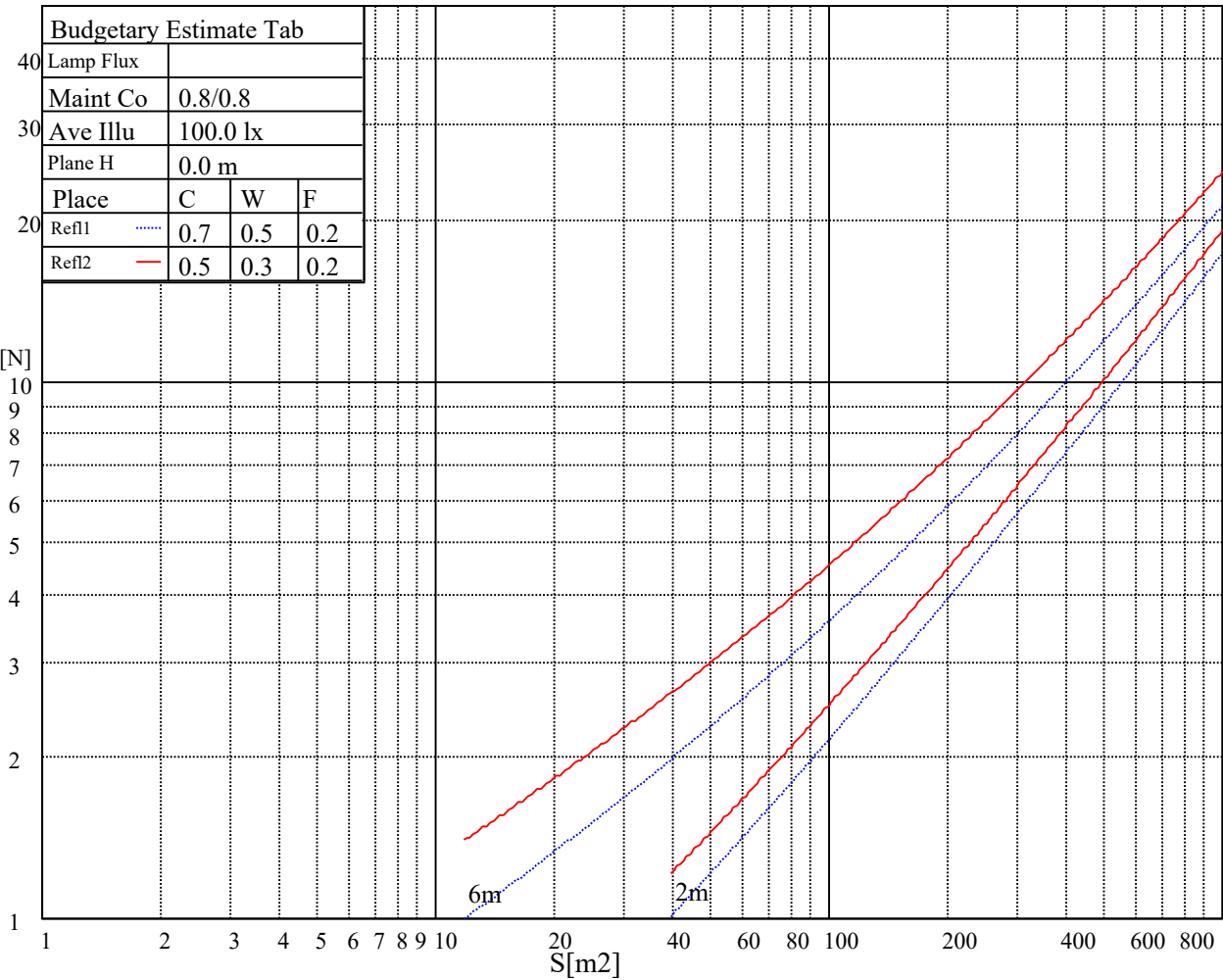
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

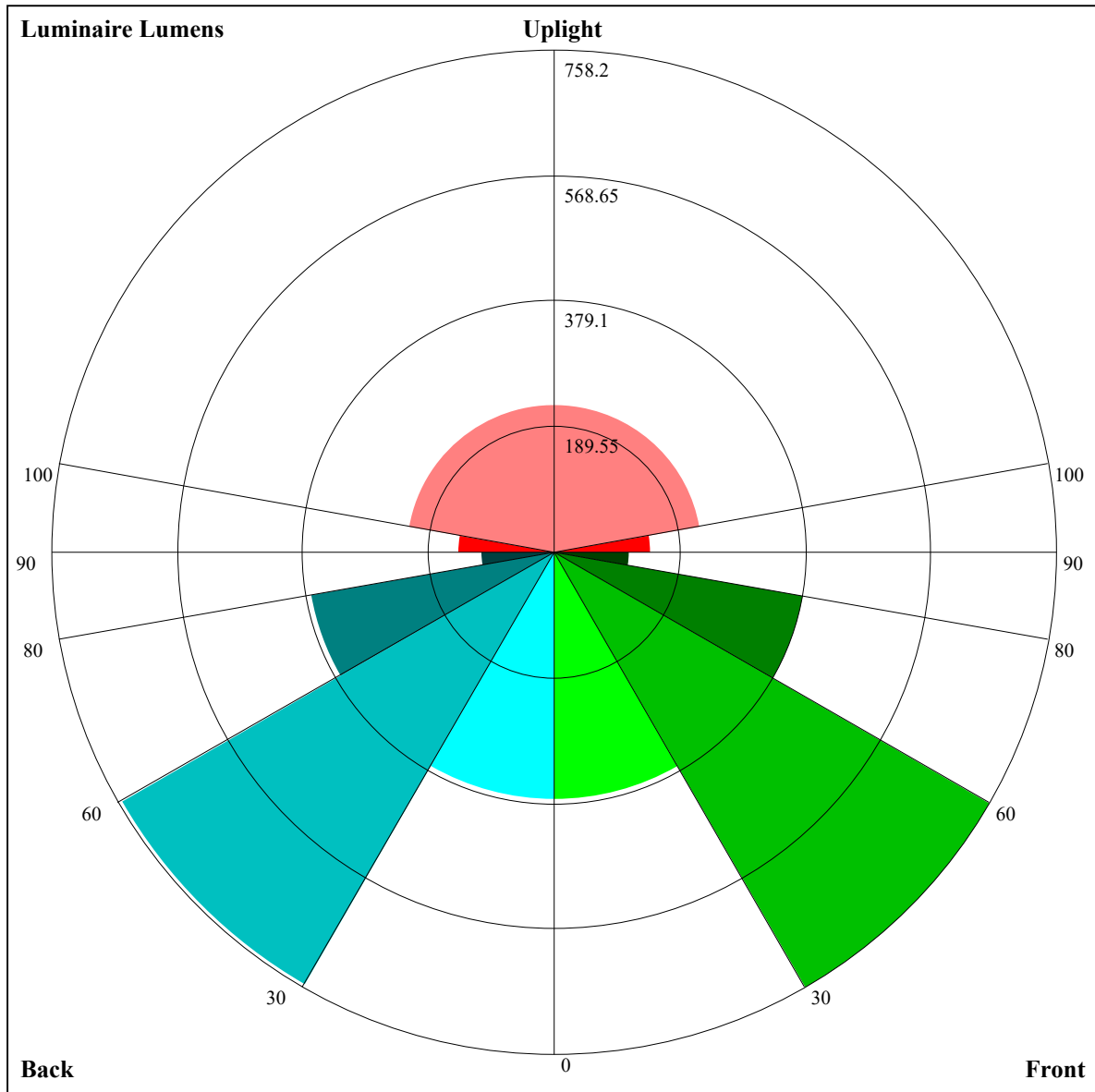


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	12.98	14.48	13.49	14.99	15.54	14.98	16.48	15.48	16.99	17.54
	3H	14.31	15.69	14.84	16.21	16.79	17.45	18.83	17.98	19.36	19.93
	4H	14.76	16.06	15.30	16.60	17.19	18.67	19.97	19.21	20.51	21.10
	6H	15.04	16.26	15.59	16.81	17.43	20.02	21.24	20.57	21.78	22.40
	8H	15.06	16.24	15.62	16.80	17.43	20.72	21.90	21.28	22.46	23.08
	12H	15.04	16.18	15.60	16.74	17.38	21.50	22.64	22.06	23.20	23.83
4H	2H	14.03	15.33	14.57	15.87	16.46	15.56	16.86	16.09	17.39	17.99
	3H	15.55	16.69	16.12	17.25	17.88	18.19	19.32	18.75	19.89	20.52
	4H	16.18	17.20	16.75	17.78	18.44	19.64	20.66	20.21	21.24	21.90
	6H	16.52	17.44	17.12	18.04	18.70	21.14	22.06	21.74	22.67	23.33
	8H	16.62	17.48	17.22	18.09	18.77	21.98	22.84	22.59	23.45	24.13
	12H	16.66	17.47	17.28	18.07	18.78	22.89	23.70	23.50	24.30	25.01
8H	4H	16.90	17.76	17.51	18.37	19.05	19.86	20.72	20.47	21.33	22.01
	6H	17.45	18.19	18.07	18.81	19.52	21.54	22.28	22.16	22.90	23.61
	8H	17.70	18.35	18.34	19.01	19.71	22.56	23.21	23.20	23.87	24.57
	12H	17.80	18.36	18.45	19.03	19.74	23.64	24.21	24.29	24.87	25.58
12H	4H	17.10	17.91	17.72	18.52	19.23	19.87	20.68	20.48	21.28	21.99
	6H	17.82	18.48	18.47	19.14	19.84	21.63	22.29	22.28	22.95	23.65
	8H	18.11	18.68	18.76	19.34	20.05	22.66	23.23	23.31	23.89	24.60
Variation with the observer position at spacings:											
S = 1.0H		0.2/-1.1					0.3/-0.4				
S = 1.5H		0.4/-0.9					0.5/-0.6				
S = 2.0H		0.3/-0.6					0.9/-0.9				
Standard tables:		BKBF					BK5				
Uncorrected UGR		11.2					5.0				

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



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 RHOF=20 CU															
0	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	0.99	0.99	0.99	0.93	0.93	0.93	0.90
1	0.98	0.93	0.89	0.95	0.91	0.86	0.89	0.85	0.82	0.83	0.80	0.77	0.78	0.76	0.73	0.71
2	0.85	0.77	0.71	0.82	0.75	0.69	0.77	0.71	0.66	0.72	0.67	0.63	0.67	0.63	0.60	0.57
3	0.74	0.65	0.58	0.71	0.63	0.57	0.67	0.60	0.54	0.63	0.57	0.52	0.59	0.54	0.50	0.47
4	0.65	0.56	0.48	0.63	0.54	0.48	0.59	0.52	0.46	0.55	0.49	0.44	0.52	0.47	0.42	0.40
5	0.58	0.48	0.41	0.56	0.47	0.41	0.53	0.45	0.39	0.50	0.43	0.38	0.47	0.41	0.37	0.34
6	0.52	0.42	0.36	0.50	0.42	0.35	0.47	0.40	0.34	0.45	0.38	0.33	0.42	0.36	0.32	0.30
7	0.47	0.38	0.31	0.45	0.37	0.31	0.43	0.35	0.30	0.41	0.34	0.29	0.39	0.33	0.28	0.26
8	0.43	0.34	0.28	0.41	0.33	0.27	0.39	0.32	0.27	0.37	0.31	0.26	0.35	0.30	0.25	0.23
9	0.39	0.31	0.25	0.38	0.30	0.25	0.36	0.29	0.24	0.34	0.28	0.23	0.33	0.27	0.23	0.21
10	0.36	0.28	0.22	0.35	0.27	0.22	0.33	0.26	0.22	0.32	0.25	0.21	0.30	0.25	0.21	0.19



Luminaire Lumens:

FL=374.88,FM=758.2,FH=382.13,FVH=114.27

BL=372.88,BM=753.11,BH=374.1,BVH=111.56

UL=146.55,UH=222.66

BUG Rating:B1-U3-G1

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Intensity data(cd)										Appendix Page: 15 Total:24	
C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0		
0.0	956.38	953.50	941.04	896.48	871.13	833.73	797.15	737.61	688.79		
5.0	956.38	954.44	935.53	903.86	878.26	839.31	800.64	742.03	692.53		
10.0	956.38	948.96	934.02	910.26	889.06	844.13	809.14	751.57	700.27		
15.0	956.38	948.57	938.63	916.56	893.06	849.17	807.77	760.50	702.29		
20.0	956.38	946.15	931.29	918.61	886.03	843.41	808.74	756.22	705.42		
25.0	956.38	948.89	933.99	911.20	879.70	842.01	813.46	759.78	710.68		
30.0	956.38	948.82	934.28	910.69	870.16	842.91	812.67	767.13	710.43		
35.0	956.38	954.08	938.52	910.51	880.53	846.94	811.55	770.94	717.01		
40.0	956.38	945.72	939.78	911.24	887.62	859.86	823.86	783.07	735.19		
45.0	956.38	949.58	940.94	915.09	893.38	873.36	831.21	790.24	736.74		
50.0	956.38	951.88	945.29	922.36	892.98	873.36	832.58	789.63	735.27		
55.0	956.38	953.32	939.89	924.95	893.06	873.61	831.35	793.01	740.06		
60.0	956.38	952.63	944.93	929.09	895.29	871.17	831.35	789.81	740.45		
65.0	956.38	951.84	939.71	929.99	895.73	873.40	831.89	792.22	743.62		
70.0	956.38	952.92	939.46	926.35	912.68	879.12	833.11	800.75	758.92		
75.0	956.38	953.21	935.53	922.32	922.22	881.00	839.88	807.01	764.90		
80.0	956.38	948.93	933.02	919.19	907.35	873.76	836.71	801.36	761.37		
85.0	956.38	949.97	925.35	913.14	895.94	864.61	837.54	789.23	748.69		
90.0	956.38	950.26	931.50	908.46	883.15	856.73	835.17	787.14	744.52		
95.0	956.38	951.12	934.17	909.33	890.10	863.03	830.77	793.62	746.89		
100.0	956.38	949.11	935.18	918.25	896.08	874.16	833.19	802.77	762.73		
105.0	956.38	945.33	939.93	925.10	907.45	887.08	833.08	801.29	762.88		
110.0	956.38	947.38	947.42	928.48	897.66	880.96	833.44	797.73	761.73		
115.0	956.38	943.56	947.92	929.45	893.74	869.11	825.77	787.18	741.96		
120.0	956.38	946.91	940.94	922.36	892.33	861.23	822.14	777.46	734.98		
125.0	956.38	948.50	942.48	912.75	891.80	858.28	820.55	773.50	732.60		
130.0	956.38	949.21	940.43	904.18	884.70	851.62	808.53	772.35	730.98		
135.0	956.38	947.34	937.70	907.71	880.78	845.89	808.89	772.67	727.92		
140.0	956.38	949.18	936.97	907.53	882.11	846.87	805.39	769.72	724.00		
145.0	956.38	948.21	935.79	910.62	884.70	853.45	805.39	769.47	710.50		
150.0	956.38	949.43	940.50	913.65	886.72	862.53	805.93	769.03	705.67		
155.0	956.38	948.46	942.52	917.64	890.21	859.43	806.33	769.21	706.68		
160.0	956.38	952.13	941.30	912.21	890.64	853.99	803.92	764.25	711.00		
165.0	956.38	953.21	934.60	909.94	893.85	851.01	801.40	764.21	709.49		
170.0	956.38	953.10	937.23	909.25	884.41	847.80	792.25	762.70	703.55		
175.0	956.38	949.47	927.83	906.34	877.04	834.05	773.82	745.13	682.78		
180.0	956.38	951.66	924.23	906.59	870.05	823.61	763.89	737.97	677.16		
185.0	956.38	949.14	926.43	903.31	873.43	833.73	773.03	737.93	680.94		
190.0	956.38	943.09	929.45	907.96	877.39	844.89	794.67	741.78	693.90		
195.0	956.38	944.82	926.46	908.46	884.20	851.91	803.74	743.91	696.03		
200.0	956.38	945.44	924.91	912.06	881.28	847.05	802.87	746.43	699.52		
205.0	956.38	945.87	927.00	908.86	880.67	845.00	800.43	754.78	714.46		
210.0	956.38	945.18	927.90	911.45	882.11	844.42	799.81	754.53	722.38		
215.0	956.38	947.85	935.28	916.28	887.94	852.70	806.83	761.04	723.46		
220.0	956.38	950.22	936.04	921.42	895.65	859.61	822.60	780.84	738.72		
225.0	956.38	946.98	940.79	928.16	904.50	869.40	829.52	786.21	739.15		
230.0	956.38	950.12	947.52	930.67	908.36	871.56	828.40	790.71	742.07		
235.0	956.38	951.16	946.51	932.30	903.82	877.18	835.31	797.65	745.56		
240.0	956.38	953.28	950.04	936.58	909.54	884.70	840.39	796.50	748.44		
245.0	956.38	956.67	948.96	937.34	908.10	885.82	846.44	798.84	748.48		
250.0	956.38	954.72	949.39	932.94	908.86	882.54	852.52	816.30	765.33		
255.0	956.38	960.30	937.95	931.29	911.38	888.09	851.08	822.28	766.48		
260.0	956.38	959.80	939.75	927.08	913.65	882.79	850.36	818.82	767.23		
265.0	956.38	959.62	936.26	923.19	908.97	878.94	849.42	811.48	770.98		
270.0	956.38	961.28	932.48	920.85	912.68	873.83	844.78	809.64	769.79		
275.0	956.38	958.86	936.18	925.64	913.90	878.26	850.25	813.21	772.02		
280.0	956.38	956.27	939.71	929.06	910.19	895.03	851.22	810.25	769.65		
285.0	956.38	955.37	943.71	930.71	913.25	901.48	844.85	814.57	767.41		

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Intensity data(cd)										Appendix Page: 16 Total:24	
C/ γ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0		
290.0	956.38	956.06	945.22	929.99	912.06	893.77	841.90	811.80	769.68		
295.0	956.38	959.62	947.31	925.06	909.11	884.49	843.01	796.93	760.29		
300.0	956.38	957.17	948.78	921.49	906.27	876.42	840.78	795.10	755.10		
305.0	956.38	959.73	944.97	921.49	897.16	875.70	836.21	789.27	755.39		
310.0	956.38	952.28	945.51	919.19	900.36	870.48	825.59	784.30	738.18		
315.0	956.38	955.26	946.41	921.46	889.27	868.14	819.76	782.75	734.01		
320.0	956.38	956.27	944.97	920.16	897.92	867.17	822.82	785.59	729.90		
325.0	956.38	954.44	943.46	927.00	902.24	867.89	819.61	779.26	717.84		
330.0	956.38	954.58	949.21	928.48	912.82	869.51	816.30	773.61	719.17		
335.0	956.38	954.08	951.81	928.62	911.49	866.92	813.13	774.69	719.50		
340.0	956.38	951.09	952.13	928.88	908.64	866.20	815.40	768.71	721.23		
345.0	956.38	951.92	950.94	918.15	908.28	867.82	819.11	768.42	724.57		
350.0	956.38	952.17	946.12	911.42	896.19	859.65	814.36	757.30	717.34		
355.0	956.38	953.79	945.22	904.75	887.26	843.66	803.49	744.70	693.58		
360.0	956.38	953.50	941.04	896.48	871.13	833.73	797.15	737.61	688.79		

LIT by CARDI LIT by CARDI

Intensity data(cd)										Appendix Page: 17 Total:24	
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	631.12	569.23	500.01	427.29	334.76	261.47	187.67	109.15	39.53		
5.0	633.53	570.10	497.05	425.23	335.67	261.18	187.88	110.05	39.56		
10.0	642.57	571.47	489.46	421.20	348.16	285.52	208.48	143.86	89.75		
15.0	646.06	570.75	490.11	421.09	349.56	285.91	208.51	144.25	90.11		
20.0	649.95	574.81	494.03	422.93	352.69	283.50	209.41	144.54	90.32		
25.0	656.75	587.95	524.81	460.77	392.80	332.86	273.71	212.62	159.84		
30.0	661.39	590.04	528.23	464.26	396.58	337.21	273.46	212.65	160.13		
35.0	668.16	593.71	531.25	468.90	400.03	335.41	275.98	212.51	160.16		
40.0	673.38	621.97	554.22	502.89	442.95	381.85	323.68	270.14	232.24		
45.0	678.67	626.87	553.14	504.36	442.08	385.13	324.18	272.59	233.39		
50.0	679.54	628.45	555.19	510.88	444.17	385.71	324.07	271.69	233.61		
55.0	690.81	635.04	582.59	540.94	476.03	413.93	374.55	313.27	274.46		
60.0	695.16	639.51	584.46	539.75	480.49	415.08	375.63	314.60	276.26		
65.0	700.09	639.18	587.77	541.66	480.67	415.48	377.89	315.36	274.61		
70.0	716.76	661.18	617.22	561.31	514.19	438.84	388.84	346.57	294.81		
75.0	723.13	668.95	620.43	562.79	515.23	438.88	388.66	346.68	296.39		
80.0	720.33	666.83	617.47	560.20	516.21	438.81	389.09	345.35	294.88		
85.0	704.67	648.61	589.65	532.80	493.13	439.45	390.56	342.15	301.39		
90.0	700.74	643.86	586.30	532.69	487.44	446.80	390.56	342.65	301.21		
95.0	699.99	651.24	586.73	532.01	486.83	439.45	389.77	340.49	302.22		
100.0	707.58	663.73	601.92	536.76	485.61	435.21	387.61	335.92	305.68		
105.0	705.03	667.44	605.74	537.84	486.61	434.45	387.58	335.09	306.07		
110.0	703.44	663.41	603.65	540.18	486.69	433.98	387.69	335.99	304.78		
115.0	693.65	641.81	583.85	529.96	477.72	424.55	357.80	308.30	265.18		
120.0	688.18	636.27	580.86	530.53	477.07	423.29	358.71	309.74	264.89		
125.0	686.77	632.92	579.39	525.28	473.22	424.12	357.70	310.39	265.00		
130.0	677.20	618.09	561.85	492.73	433.08	376.13	322.81	259.74	222.77		
135.0	681.48	613.59	560.13	490.43	430.81	372.24	323.17	258.34	222.05		
140.0	678.60	616.61	554.91	491.62	429.45	373.47	321.41	257.33	223.27		
145.0	662.58	599.69	532.84	452.23	397.01	320.47	260.42	199.69	152.17		
150.0	657.54	599.04	527.76	453.39	393.52	317.88	259.31	197.97	151.38		
155.0	652.68	594.72	527.01	451.37	391.79	317.92	259.31	198.76	151.88		
160.0	652.50	590.98	522.72	433.80	361.04	271.84	207.40	130.21	85.32		
165.0	653.51	589.57	522.61	432.83	357.34	270.90	207.22	129.42	85.72		
170.0	647.68	582.55	519.52	428.33	357.23	270.43	205.31	129.31	85.50		
175.0	620.46	550.95	474.05	399.82	313.06	232.92	140.69	80.46	27.94		
180.0	617.01	546.48	468.94	397.80	311.44	232.74	139.75	80.10	27.58		
185.0	617.98	549.00	472.00	398.23	312.45	232.96	141.01	80.60	27.79		
190.0	630.54	564.45	488.38	416.88	341.24	268.20	194.69	136.19	73.44		
195.0	632.41	564.91	489.10	418.00	340.81	270.97	196.34	135.58	73.33		
200.0	636.73	568.15	491.01	423.90	342.72	270.61	197.46	136.15	73.62		
205.0	654.81	586.23	518.22	464.04	388.41	329.11	272.95	202.68	155.99		
210.0	658.08	588.39	522.18	466.71	389.99	331.02	274.39	203.15	155.95		
215.0	661.86	591.41	524.09	467.97	392.04	332.35	275.47	203.90	156.31		
220.0	674.68	628.89	553.47	496.48	435.03	371.16	323.78	269.78	222.23		
225.0	681.52	632.41	555.88	498.35	437.83	370.95	324.69	271.48	223.74		
230.0	686.59	629.46	561.71	506.16	439.09	375.91	325.33	268.34	223.49		
235.0	710.03	643.14	590.47	532.19	487.55	424.23	378.22	321.05	284.62		
240.0	712.01	647.07	592.42	534.75	492.48	425.45	380.88	321.05	284.00		
245.0	710.39	645.27	592.56	535.50	492.45	425.41	381.60	319.72	284.29		
250.0	723.03	663.19	617.65	560.38	499.54	450.90	394.38	352.05	301.50		
255.0	720.90	670.90	622.69	563.47	499.57	451.44	395.82	352.26	302.80		
260.0	720.87	665.28	623.23	565.63	497.02	453.89	392.91	352.23	301.57		
265.0	722.45	669.89	618.91	573.88	501.16	463.03	401.40	349.20	311.36		
270.0	721.80	673.31	616.97	573.37	503.53	463.43	403.53	350.61	309.89		
275.0	726.30	668.67	614.52	571.54	500.15	462.93	402.45	351.25	312.37		
280.0	718.31	671.65	611.57	560.52	510.59	446.29	394.78	341.39	303.30		
285.0	720.94	666.11	615.60	554.80	513.43	446.62	394.56	341.61	303.88		

LIT by CARDI LIT by CARDI

Intensity data(cd)										Appendix Page: 18 Total:24	
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
290.0	717.45	665.82	615.42	556.78	510.48	444.96	394.74	342.04	304.67		
295.0	702.04	655.17	598.90	552.13	488.63	428.69	386.57	332.39	275.33		
300.0	696.49	655.49	592.42	547.85	487.41	427.36	386.28	331.06	275.62		
305.0	696.13	654.23	592.81	542.77	483.99	425.63	384.91	331.38	275.80		
310.0	682.71	635.58	563.44	516.17	451.12	388.41	326.23	275.69	236.41		
315.0	679.90	631.26	557.39	513.15	449.14	385.85	323.78	275.11	234.72		
320.0	676.26	628.17	555.41	508.61	447.84	383.76	322.16	273.38	235.26		
325.0	654.37	595.84	523.87	464.76	391.86	335.49	272.23	209.38	158.87		
330.0	648.97	588.46	524.13	459.87	389.20	331.38	271.01	209.52	157.68		
335.0	648.25	591.01	521.79	458.35	387.43	330.37	270.18	208.98	157.54		
340.0	658.59	596.99	510.77	441.36	367.31	279.72	195.59	140.40	79.31		
345.0	661.32	594.22	511.63	440.86	365.04	277.81	195.37	140.83	78.48		
350.0	656.10	593.25	509.15	439.02	363.85	278.28	194.18	139.50	78.98		
355.0	635.76	572.37	499.72	427.68	337.97	262.12	187.02	109.48	39.60		
360.0	631.12	569.23	500.01	427.29	334.76	261.47	187.67	109.15	39.53		

LIT by CARDI LIT by CARDI

Intensity data(cd)									Appendix Page: 19 Total:24
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	12.13	8.24	6.23	4.54	7.92	0.00	2.09	11.09	13.18
5.0	12.13	8.32	6.30	4.50	7.70	0.68	2.38	11.48	12.35
10.0	48.82	29.95	20.66	4.86	0.25	13.50	6.30	15.08	6.77
15.0	48.74	29.92	20.81	4.86	0.00	14.29	6.59	15.55	5.90
20.0	48.78	30.20	21.02	5.62	1.15	15.16	6.59	14.94	7.34
25.0	115.92	78.84	66.60	50.04	36.18	35.57	5.98	9.90	16.85
30.0	115.49	79.45	66.85	50.83	37.37	36.54	5.98	9.36	18.29
35.0	115.63	79.24	67.14	51.91	38.41	37.66	9.36	11.20	18.07
40.0	169.70	148.28	112.57	110.59	70.52	55.12	54.11	28.19	16.45
45.0	170.03	148.10	112.54	111.85	71.28	55.84	57.31	30.31	16.27
50.0	170.71	148.61	113.11	112.28	72.50	58.46	58.79	32.72	18.65
55.0	227.34	196.38	165.38	137.77	111.20	99.25	76.21	55.30	33.73
60.0	228.10	196.78	165.46	138.67	112.75	101.05	77.83	57.67	36.04
65.0	227.66	196.09	165.89	138.53	112.97	102.17	78.73	58.10	40.07
70.0	255.13	219.10	188.96	146.12	131.08	120.46	82.98	63.76	67.36
75.0	255.64	218.05	190.84	146.20	132.12	121.32	83.41	64.76	71.64
80.0	255.64	218.45	191.41	146.09	132.37	121.14	83.84	65.77	69.88
85.0	257.15	227.05	190.19	165.02	132.59	115.81	90.50	75.92	58.18
90.0	258.84	226.26	190.22	165.24	132.08	115.49	91.01	76.90	56.56
95.0	258.59	226.73	190.73	165.46	132.26	115.45	91.01	76.43	56.77
100.0	251.32	212.94	182.48	157.75	141.84	105.01	93.85	68.87	59.18
105.0	251.57	212.01	182.23	158.47	142.02	105.44	93.92	68.18	59.54
110.0	250.31	213.08	182.02	156.89	141.62	105.52	92.66	67.32	57.38
115.0	222.55	201.82	166.57	139.57	122.72	99.07	72.58	58.10	44.03
120.0	222.26	201.85	166.61	139.68	122.00	98.64	70.85	57.35	42.05
125.0	223.85	201.13	166.10	139.03	121.57	97.13	69.41	54.61	38.27
130.0	173.77	144.68	125.14	87.95	87.88	59.69	52.34	32.83	14.40
135.0	174.17	144.18	124.60	86.87	86.58	58.14	50.83	30.38	10.76
140.0	173.99	144.25	124.45	86.11	85.14	56.41	48.53	28.62	12.38
145.0	123.16	78.01	68.54	48.82	45.04	31.72	18.04	12.42	22.57
150.0	124.31	78.16	67.64	48.02	43.70	30.38	15.59	10.69	24.16
155.0	123.84	77.94	67.21	47.30	42.80	29.38	14.65	9.97	22.18
160.0	53.78	29.41	15.23	10.98	15.12	7.38	3.02	3.49	8.93
165.0	53.57	29.48	14.90	10.37	14.15	6.26	2.09	2.77	6.88
170.0	53.68	29.27	14.69	10.26	14.00	6.12	1.94	2.81	6.26
175.0	0.68	2.12	0.47	4.93	8.78	3.60	0.14	3.10	2.05
180.0	0.68	2.09	0.36	4.86	8.68	3.46	0.00	3.10	1.37
185.0	0.68	2.16	0.43	5.11	8.71	3.49	0.50	3.35	1.76
190.0	48.56	31.86	11.74	20.38	11.95	3.78	7.13	5.65	4.14
195.0	48.31	31.79	11.77	20.74	12.10	3.82	7.63	5.90	4.50
200.0	48.28	31.97	12.06	21.35	12.89	5.36	9.11	7.20	5.15
205.0	108.97	85.57	63.29	53.64	40.36	34.81	28.51	19.15	9.43
210.0	108.29	86.15	63.54	54.32	41.15	36.61	30.13	20.34	10.08
215.0	108.40	85.68	64.01	55.15	42.08	37.55	31.43	21.24	11.84
220.0	180.18	143.57	126.00	95.72	72.18	56.48	49.57	30.28	23.58
225.0	180.40	143.78	126.76	96.37	72.61	57.89	51.08	31.10	25.31
230.0	180.00	143.60	127.94	97.09	73.66	58.79	53.03	33.98	28.44
235.0	249.80	191.38	162.36	137.20	104.65	80.14	76.50	59.15	49.00
240.0	248.76	191.81	162.36	138.20	106.09	81.32	78.16	61.96	51.84
245.0	247.47	191.34	162.32	139.03	106.27	82.40	78.19	62.42	52.88
250.0	255.31	207.47	184.18	154.51	123.12	106.88	82.48	64.76	59.90
255.0	254.30	206.60	184.00	155.20	123.62	108.18	83.05	65.38	60.73
260.0	254.48	208.08	183.49	155.02	123.91	107.96	82.15	66.28	60.19
265.0	273.89	226.69	195.73	163.08	132.30	109.37	72.83	76.75	58.28
270.0	272.56	227.59	196.06	163.30	132.55	109.40	72.14	77.83	57.71
275.0	274.43	227.81	195.05	162.40	133.06	109.84	73.19	78.41	58.10
280.0	262.15	225.97	187.74	155.74	128.56	113.00	88.92	80.57	59.00
285.0	263.34	223.20	187.42	154.98	129.42	112.86	90.54	81.07	59.22

LIT by CARDI LIT by CARDI

Intensity data(cd)										Appendix Page: 20 Total:24	
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0		
290.0	261.43	224.96	188.17	154.73	129.06	112.21	88.74	79.02	57.38		
295.0	240.05	202.03	165.31	140.00	112.61	97.85	72.32	63.04	47.63		
300.0	239.98	203.11	165.31	139.46	112.14	97.06	70.99	61.38	46.08		
305.0	239.73	202.61	164.27	138.71	111.35	95.87	70.20	59.65	44.21		
310.0	191.48	146.59	127.62	108.79	83.23	64.69	59.08	44.60	33.19		
315.0	191.77	145.94	127.08	108.65	81.47	63.14	58.25	42.62	31.43		
320.0	191.45	145.80	127.33	107.39	80.32	61.56	56.16	41.69	29.81		
325.0	125.93	100.22	68.80	41.65	34.49	29.02	25.88	30.49	19.58		
330.0	125.89	100.66	68.87	40.57	33.16	27.36	23.44	29.05	18.04		
335.0	126.07	100.33	68.33	39.85	32.26	26.78	21.96	27.36	16.45		
340.0	64.15	29.20	32.47	13.00	1.04	16.81	1.62	12.02	5.80		
345.0	64.19	29.12	32.11	12.46	0.00	16.31	0.04	10.33	4.18		
350.0	63.86	29.12	31.93	12.38	0.25	15.48	0.18	10.40	5.18		
355.0	12.10	8.39	6.44	4.64	7.70	0.76	1.94	10.94	12.10		
360.0	12.13	8.24	6.23	4.54	7.92	0.00	2.09	11.09	13.18		

LIT by CARDI LIT by CARDI

Intensity data(cd)										Appendix Page: 21 Total:24	
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	7.60	7.96	0.04	3.46	6.19	0.14	5.62	5.76	5.94		
5.0	8.03	7.74	2.77	4.68	5.72	2.41	5.98	5.83	5.80		
10.0	10.01	6.84	10.15	7.06	5.00	4.90	7.06	5.94	5.65		
15.0	10.33	6.55	12.78	8.32	4.50	7.24	7.42	5.94	5.54		
20.0	9.68	7.99	10.80	7.85	6.80	8.21	6.19	5.94	5.36		
25.0	6.55	13.36	5.51	7.02	10.15	9.18	4.57	5.76	5.22		
30.0	5.90	14.83	3.53	6.55	12.42	10.01	3.85	5.58	5.04		
35.0	7.13	14.62	6.84	7.81	14.98	10.55	5.40	5.44	4.79		
40.0	12.92	13.50	15.70	10.26	18.76	10.98	7.78	5.51	4.54		
45.0	14.15	13.18	18.97	11.41	21.24	11.56	9.68	5.72	4.36		
50.0	14.22	14.08	16.92	10.04	17.39	11.77	9.83	6.01	4.46		
55.0	14.54	17.21	11.63	7.27	11.74	12.20	8.89	6.30	4.61		
60.0	14.54	17.89	9.68	5.90	7.92	12.42	7.34	6.70	4.75		
65.0	18.00	15.59	10.19	10.48	8.14	12.46	5.26	7.13	4.79		
70.0	34.78	7.27	11.56	19.66	8.46	12.42	3.60	7.45	4.93		
75.0	38.27	5.00	12.02	24.19	8.78	12.38	2.27	7.52	5.22		
80.0	37.08	6.01	12.67	21.92	9.36	11.95	2.52	7.56	5.80		
85.0	32.22	9.79	14.29	17.39	10.30	11.48	3.53	7.52	6.37		
90.0	31.21	10.73	14.83	15.16	10.84	10.98	5.00	7.74	6.91		
95.0	29.27	11.63	13.93	15.30	9.97	8.46	6.66	7.92	7.34		
100.0	19.87	14.76	11.30	15.44	8.82	5.76	7.92	8.17	7.67		
105.0	18.07	15.62	10.33	15.44	8.03	3.28	9.07	8.28	8.06		
110.0	18.04	16.34	13.36	13.21	6.70	4.25	9.36	8.39	8.68		
115.0	17.71	19.26	21.20	8.64	4.79	5.44	9.22	7.78	9.36		
120.0	17.60	20.05	24.08	6.30	3.49	6.52	9.14	6.55	9.90		
125.0	18.94	20.30	20.45	4.79	4.93	7.31	9.36	5.33	10.04		
130.0	24.59	20.63	10.62	1.87	7.13	8.17	9.61	4.46	10.08		
135.0	25.67	20.84	6.98	0.40	8.57	8.86	9.72	3.92	10.04		
140.0	23.65	19.15	8.50	0.72	7.81	6.48	9.43	3.42	10.15		
145.0	14.40	13.54	12.64	1.44	6.62	3.92	9.11	3.78	10.19		
150.0	12.53	12.10	14.26	1.80	5.83	1.48	8.82	5.22	9.97		
155.0	11.20	9.97	13.72	2.56	4.25	2.09	8.96	6.59	9.29		
160.0	4.79	2.20	12.28	4.14	1.94	2.77	9.22	7.24	8.35		
165.0	3.46	0.00	11.70	4.90	0.40	3.46	9.76	6.73	7.60		
170.0	2.95	0.94	10.87	6.34	2.30	4.68	10.51	6.12	7.38		
175.0	0.50	4.28	8.50	9.25	5.08	5.98	11.16	5.15	7.45		
180.0	0.00	5.15	7.60	10.69	6.95	7.20	12.13	4.54	7.60		
185.0	1.76	4.61	8.14	9.61	8.14	6.26	13.18	4.03	7.74		
190.0	10.30	2.38	9.72	7.38	9.90	5.22	13.93	4.50	7.85		
195.0	12.13	1.76	10.33	6.26	11.09	4.21	13.21	5.40	7.99		
200.0	12.53	2.95	8.14	6.73	11.16	3.20	10.01	6.34	8.32		
205.0	14.18	7.16	2.20	7.78	11.27	2.12	6.44	6.23	8.93		
210.0	14.58	8.35	0.04	8.21	11.41	1.12	2.77	5.40	9.61		
215.0	16.34	8.71	2.02	8.32	12.31	0.79	1.01	4.46	10.30		
220.0	24.88	10.08	7.34	8.53	13.61	0.47	0.72	3.67	10.73		
225.0	26.64	10.48	9.32	8.68	14.51	0.25	1.01	2.74	10.80		
230.0	27.36	13.43	10.91	7.74	11.34	4.25	2.16	1.84	10.19		
235.0	31.03	24.48	14.83	5.83	6.62	8.57	3.42	1.73	9.36		
240.0	32.00	27.61	16.31	4.90	3.46	12.67	5.69	2.74	8.46		
245.0	34.31	27.11	17.53	7.67	2.52	14.87	8.60	3.82	7.70		
250.0	45.22	24.88	20.92	13.25	1.08	17.17	10.91	5.69	7.09		
255.0	47.41	24.41	22.21	15.91	0.11	19.22	12.60	8.64	6.62		
260.0	48.13	26.57	22.21	17.39	1.40	14.98	12.17	11.56	6.16		
265.0	49.90	34.31	22.28	20.41	3.28	10.33	10.66	12.53	5.72		
270.0	50.36	36.94	22.25	21.92	4.57	5.94	9.32	11.12	5.51		
275.0	50.51	36.94	22.72	22.32	5.44	4.57	8.86	9.58	5.90		
280.0	52.16	36.76	24.16	23.47	6.59	3.13	9.04	7.45	6.66		
285.0	52.42	36.68	24.66	24.19	7.38	1.91	8.71	5.47	7.31		

LIT by CARDI LIT by CARDI

Intensity data(cd)										Appendix Page: 22 Total:24	
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
290.0	49.82	35.21	24.66	18.40	6.01	4.10	7.67	3.49	7.74		
295.0	38.23	30.38	25.20	6.41	4.10	6.59	6.52	2.99	8.06		
300.0	35.71	28.73	25.24	0.50	2.74	8.82	5.40	2.95	8.46		
305.0	35.10	29.20	22.61	3.64	6.05	6.08	4.86	2.95	8.82		
310.0	31.32	31.00	15.48	9.97	10.84	3.02	4.86	2.84	9.14		
315.0	30.46	31.43	12.85	13.07	14.15	0.22	4.28	3.31	9.18		
320.0	27.11	28.01	12.56	11.63	10.08	0.07	3.02	3.85	8.64		
325.0	11.02	15.80	12.06	8.75	4.10	0.07	1.76	4.93	7.81		
330.0	7.67	12.38	11.77	7.31	0.07	0.00	1.73	6.19	7.06		
335.0	8.03	11.77	9.29	5.58	1.01	0.47	4.03	7.27	6.70		
340.0	9.72	9.40	2.56	2.09	2.48	0.94	6.88	7.42	6.52		
345.0	10.01	8.71	0.04	0.36	3.46	1.37	9.04	6.70	6.37		
350.0	9.68	8.53	0.04	1.12	4.25	0.97	8.57	6.08	6.26		
355.0	7.96	8.10	0.04	2.66	5.44	0.50	6.88	5.72	6.16		
360.0	7.60	7.96	0.04	3.46	6.19	0.14	5.62	5.76	5.94		

LIT by CARDI LIT by CARDI

Appendix Page: 23 Total:24

Intensity data(cd)

C/γ(°)	180.0
0.0	6.70
5.0	6.70
10.0	6.70
15.0	6.70
20.0	6.70
25.0	6.70
30.0	6.70
35.0	6.70
40.0	6.70
45.0	6.70
50.0	6.70
55.0	6.70
60.0	6.70
65.0	6.70
70.0	6.70
75.0	6.70
80.0	6.70
85.0	6.70
90.0	6.70
95.0	6.70
100.0	6.70
105.0	6.70
110.0	6.70
115.0	6.70
120.0	6.70
125.0	6.70
130.0	6.70
135.0	6.70
140.0	6.70
145.0	6.70
150.0	6.70
155.0	6.70
160.0	6.70
165.0	6.70
170.0	6.70
175.0	6.70
180.0	6.70
185.0	6.70
190.0	6.70
195.0	6.70
200.0	6.70
205.0	6.70
210.0	6.70
215.0	6.70
220.0	6.70
225.0	6.70
230.0	6.70
235.0	6.70
240.0	6.70
245.0	6.70
250.0	6.70
255.0	6.70
260.0	6.70
265.0	6.70
270.0	6.70
275.0	6.70
280.0	6.70
285.0	6.70

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
290.0	6.70
295.0	6.70
300.0	6.70
305.0	6.70
310.0	6.70
315.0	6.70
320.0	6.70
325.0	6.70
330.0	6.70
335.0	6.70
340.0	6.70
345.0	6.70
350.0	6.70
355.0	6.70
360.0	6.70