

DILUCE | 登路仕

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HX-DA615R-40090

LumCAT: HX-DA615R-40090	Luminaire: HX-DA615R
Report No:	Voltage(V): 230.400
Test No:	Current(A): 0.084
LampCAT: 2835 12C10B 40090	Power (W): 18.900
Lamp flux(lm): 2369.0	PF: 0.971
Number of Lamps: 1	Ballast type: OSRAM OTFIT 20/220-240/500CS
Length(mm): -135	Width(mm): -135
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1547.29
Efficiency(%): 65.31%
Lumens(lm)/Power(W): 81.87
Central intensity(cd): 654.583
Maximum intensity(cd): 659.181
Angle of maximum intensity: C=30.0 γ =1.0
Beam Angle(50%Imax): [H]Left=51.5 Right=47.1
[V]Left=51.3 Right=47.3
Field angle(10%Imax): [H]Left=76.0 Right=71.7
[V]Left=75.8 Right=71.4
Maximum s/h: C0_180=1.21 C90_270=1.19
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 65.31%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 85.391%

Equipment: GMS-1980
Temperature(°C): 25.0

Date: 2023-9-25
Humidity(%): 65.3%

Operator: MinLi Ke
Distance(m): 7.27

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	656.239	.000	.000	.000%	.000%
1.0	656.076	.628	.628	.027%	.027%
2.0	655.605	1.883	2.511	.079%	.106%
3.0	654.856	3.134	5.645	.132%	.238%
4.0	653.808	4.381	10.025	.185%	.423%
5.0	652.478	5.620	15.645	.237%	.660%
6.0	650.791	6.849	22.494	.289%	.950%
7.0	648.880	8.067	30.561	.341%	1.290%
8.0	646.620	9.272	39.833	.391%	1.681%
9.0	644.110	10.461	50.293	.442%	2.123%
10.0	641.304	11.633	61.926	.491%	2.614%
11.0	638.164	12.785	74.710	.540%	3.154%
12.0	634.631	13.913	88.624	.587%	3.741%
13.0	630.870	15.018	103.642	.634%	4.375%
14.0	626.827	16.098	119.740	.680%	5.054%
15.0	622.532	17.152	136.892	.724%	5.778%
16.0	618.062	18.178	155.070	.767%	6.546%
17.0	613.067	19.172	174.242	.809%	7.355%
18.0	608.051	20.134	194.376	.850%	8.205%
19.0	602.461	21.060	215.436	.889%	9.094%
20.0	596.683	21.948	237.384	.926%	10.020%
21.0	590.459	22.796	260.180	.962%	10.983%
22.0	584.069	23.603	283.782	.996%	11.979%
23.0	577.418	24.371	308.153	1.029%	13.008%
24.0	570.296	25.093	333.247	1.059%	14.067%
25.0	562.923	25.767	359.013	1.088%	15.155%
26.0	555.440	26.399	385.412	1.114%	16.269%
27.0	547.732	26.989	412.402	1.139%	17.408%
28.0	539.681	27.531	439.933	1.162%	18.570%
29.0	531.595	28.028	467.960	1.183%	19.754%
30.0	522.759	28.467	496.428	1.202%	20.955%
31.0	514.360	28.862	525.289	1.218%	22.173%
32.0	505.252	29.211	554.500	1.233%	23.407%
33.0	496.557	29.514	584.014	1.246%	24.652%
34.0	487.286	29.774	613.788	1.257%	25.909%
35.0	477.905	29.975	643.763	1.265%	27.174%
36.0	468.250	30.126	673.889	1.272%	28.446%
37.0	458.481	30.225	704.114	1.276%	29.722%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	448.818	30.284	734.398	1.278%	31.000%
39.0	438.675	30.293	764.690	1.279%	32.279%
40.0	428.743	30.252	794.943	1.277%	33.556%
41.0	418.124	30.157	825.099	1.273%	34.829%
42.0	407.826	30.008	855.108	1.267%	36.096%
43.0	397.049	29.815	884.922	1.259%	37.354%
44.0	386.786	29.584	914.507	1.249%	38.603%
45.0	375.846	29.309	943.815	1.237%	39.840%
46.0	365.341	28.986	972.802	1.224%	41.064%
47.0	354.238	28.620	1001.421	1.208%	42.272%
48.0	343.403	28.202	1029.623	1.190%	43.462%
49.0	332.603	27.761	1057.384	1.172%	44.634%
50.0	320.958	27.249	1084.633	1.150%	45.784%
51.0	310.114	26.700	1111.333	1.127%	46.911%
52.0	298.333	26.109	1137.442	1.102%	48.014%
53.0	287.511	25.484	1162.926	1.076%	49.089%
54.0	276.187	24.845	1187.771	1.049%	50.138%
55.0	265.159	24.165	1211.936	1.020%	51.158%
56.0	253.742	23.448	1235.384	.990%	52.148%
57.0	242.436	22.686	1258.070	.958%	53.106%
58.0	230.800	21.884	1279.954	.924%	54.029%
59.0	219.767	21.064	1301.019	.889%	54.918%
60.0	208.395	20.228	1321.246	.854%	55.772%
61.0	197.313	19.361	1340.608	.817%	56.590%
62.0	186.271	18.483	1359.091	.780%	57.370%
63.0	174.992	17.570	1376.661	.742%	58.111%
64.0	164.232	16.646	1393.307	.703%	58.814%
65.0	153.137	15.706	1409.013	.663%	59.477%
66.0	142.663	14.759	1423.771	.623%	60.100%
67.0	131.718	13.797	1437.568	.582%	60.682%
68.0	121.258	12.815	1450.383	.541%	61.223%
69.0	110.934	11.845	1462.228	.500%	61.723%
70.0	100.570	10.862	1473.091	.459%	62.182%
71.0	90.502	9.876	1482.966	.417%	62.599%
72.0	81.015	8.918	1491.885	.376%	62.975%
73.0	71.893	7.996	1499.881	.338%	63.313%
74.0	62.957	7.089	1506.970	.299%	63.612%
75.0	54.571	6.210	1513.180	.262%	63.874%

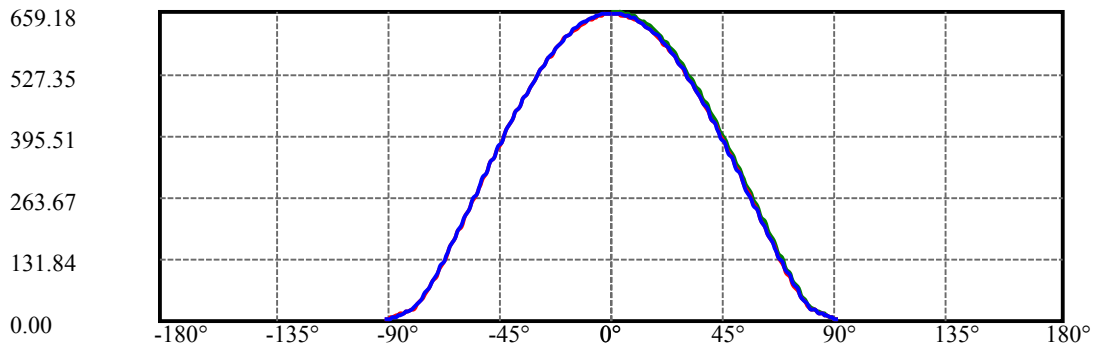
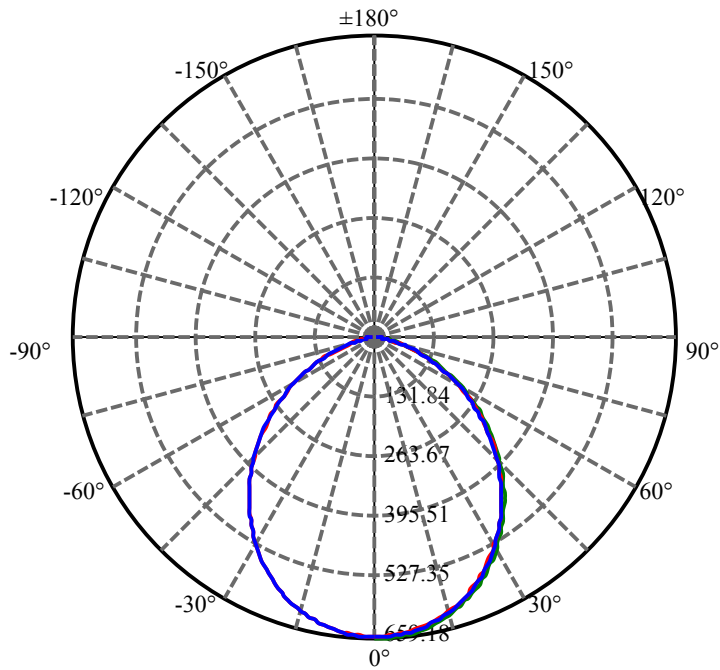
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	46.559	5.368	1518.548	.227%	64.101%
77.0	39.428	4.584	1523.133	.194%	64.294%
78.0	33.024	3.878	1527.011	.164%	64.458%
79.0	28.179	3.288	1530.299	.139%	64.597%
80.0	24.440	2.837	1533.136	.120%	64.717%
81.0	21.846	2.503	1535.639	.106%	64.822%
82.0	19.613	2.248	1537.887	.095%	64.917%
83.0	17.252	2.004	1539.891	.085%	65.002%
84.0	15.010	1.758	1541.649	.074%	65.076%
85.0	12.738	1.514	1543.163	.064%	65.140%
86.0	10.531	1.272	1544.435	.054%	65.194%
87.0	8.390	1.036	1545.471	.044%	65.237%
88.0	6.417	.811	1546.282	.034%	65.272%
89.0	4.382	.592	1546.874	.025%	65.296%
90.0	3.171	.414	1547.288	.017%	65.314%

ZONAL LUMEN SUMMARY

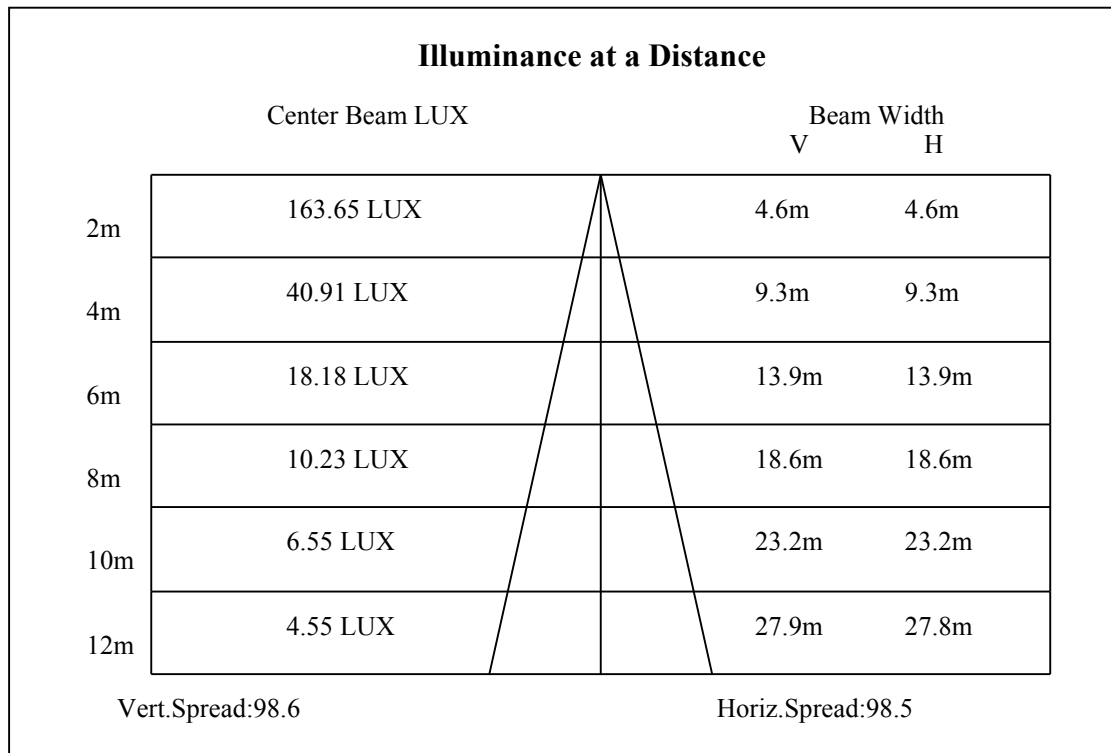
Zone	Lumens	%Lamp	%Fixt
0-30	496.43	20.96%	32.08%
0-40	794.94	33.56%	51.38%
0-60	1321.25	55.77%	85.39%
0-90	1546.87	65.30%	99.97%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-180	1547.29	65.31%	100.00%

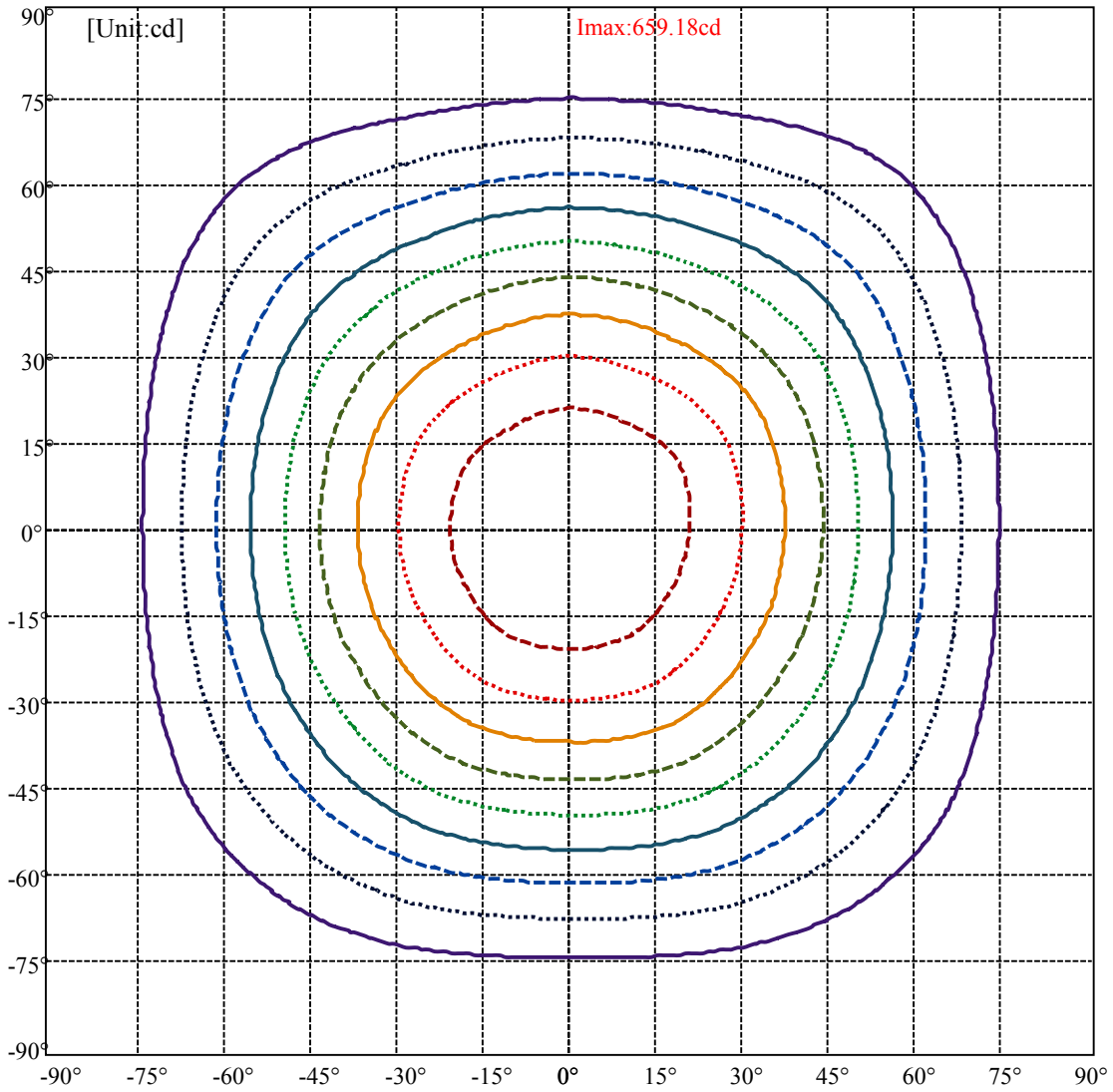
ZONAL LUMEN SUMMARY

0-10	61.93
10-20	175.46
20-30	259.04
30-40	298.52
40-50	289.69
50-60	236.61
60-70	151.84
70-80	60.05
80-90	13.74
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

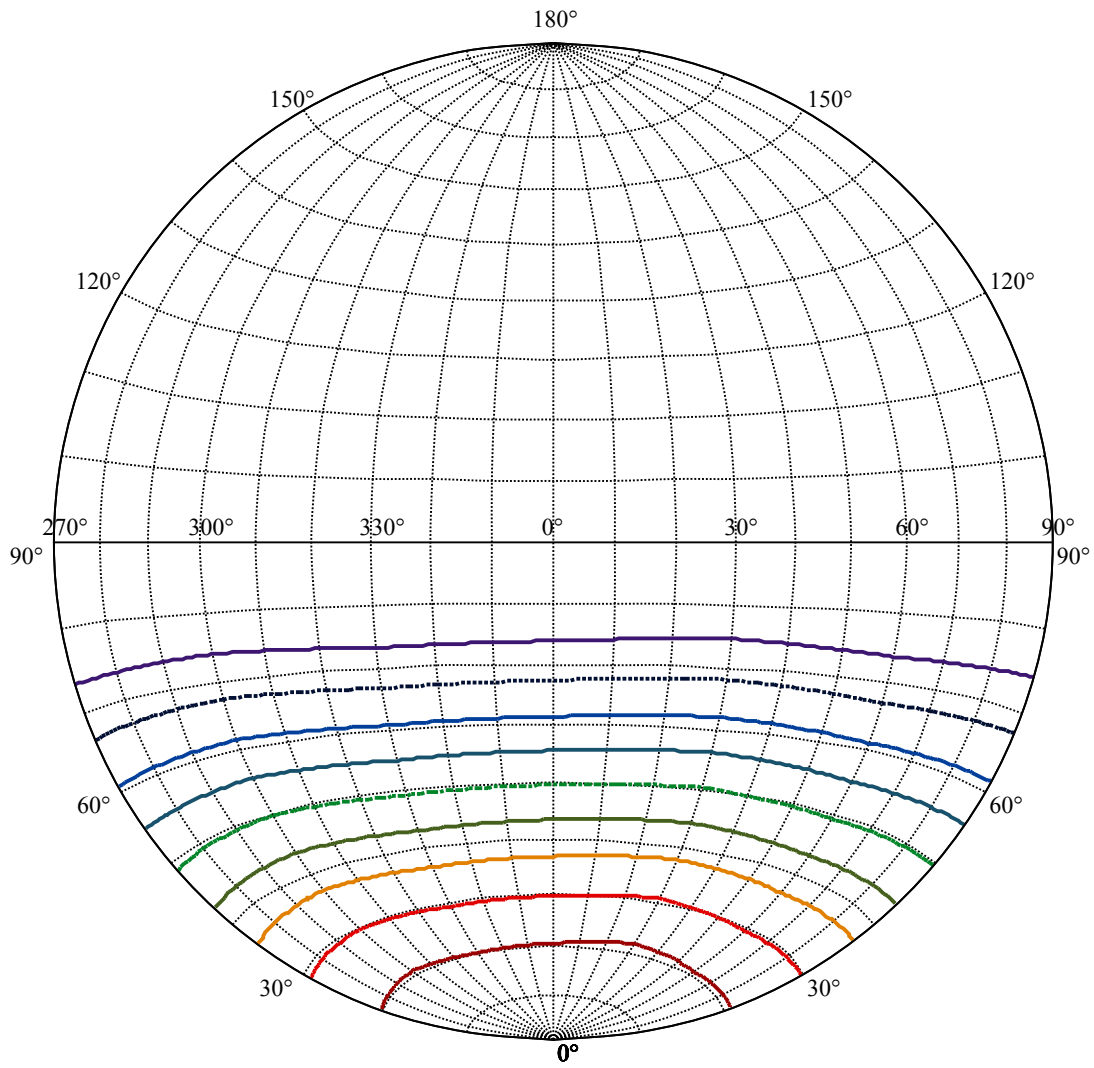


C30(Max): —
C0/C180: —
C90/C270: —





- (10%Imax) 65.8274
- (20%Imax) 131.655
- (30%Imax) 197.482
- (40%Imax) 263.31
- (50%Imax) 329.137
- (60%Imax) 394.965
- (70%Imax) 460.792
- (80%Imax) 526.62
- (90%Imax) 592.447

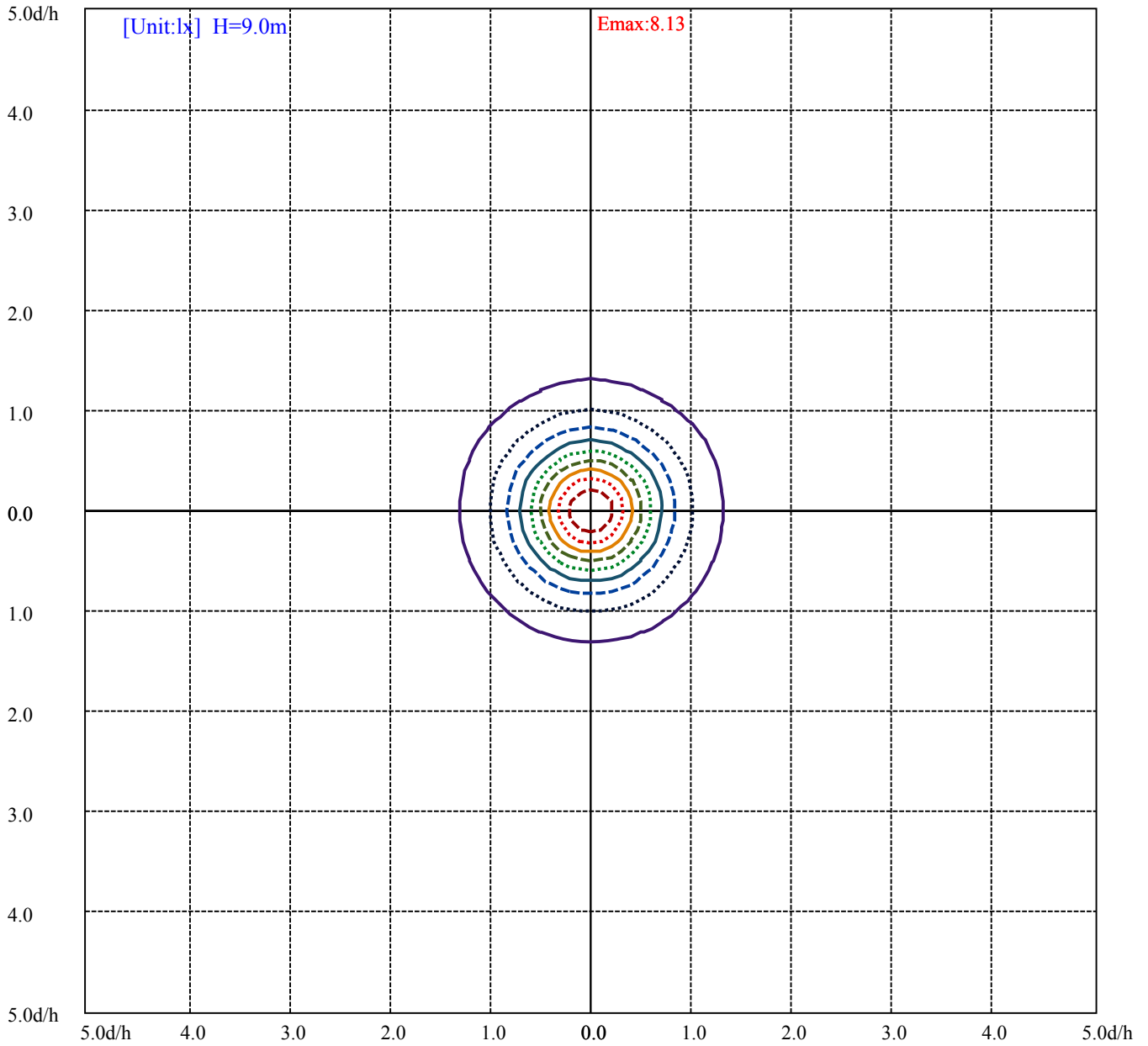


House

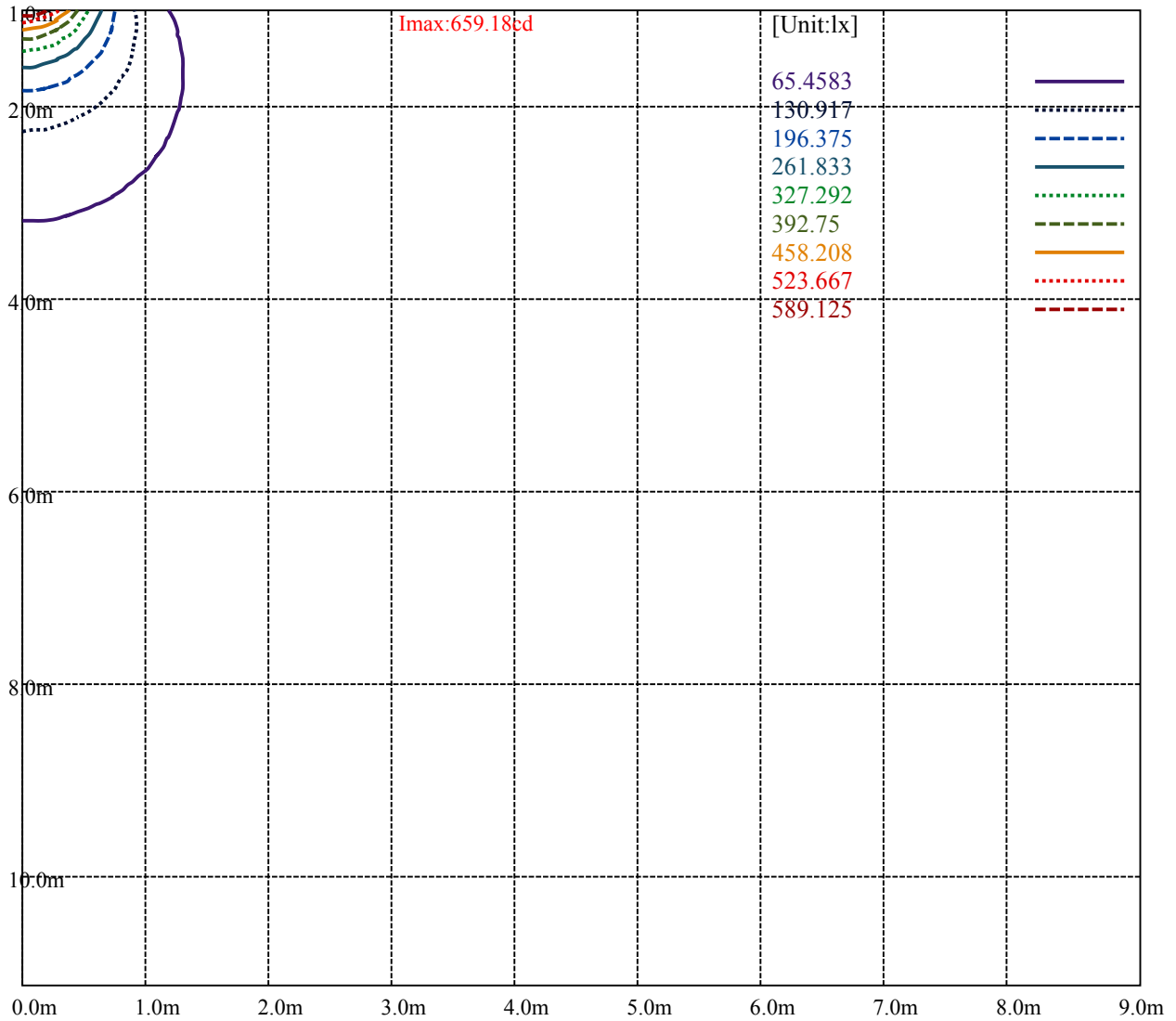
Road

I_{max}:659.18cd

(10%I _{max}) 65.9181	—
(20%I _{max}) 131.836	⋯
(30%I _{max}) 197.754	- - -
(40%I _{max}) 263.673	—
(50%I _{max}) 329.591	⋯
(60%I _{max}) 395.509	- - -
(70%I _{max}) 461.427	—
(80%I _{max}) 527.345	⋯
(90%I _{max}) 593.263	- - -



- (10%Emax) 0.8124987 ————
- (20%Emax) 1.625 ······
- (30%Emax) 2.437494 - - - -
- (40%Emax) 3.25 ————
- (50%Emax) 4.062494 ······
- (60%Emax) 4.874988 - - - -
- (70%Emax) 5.687494 ————
- (80%Emax) 6.499988 ······
- (90%Emax) 7.312494 - - - -

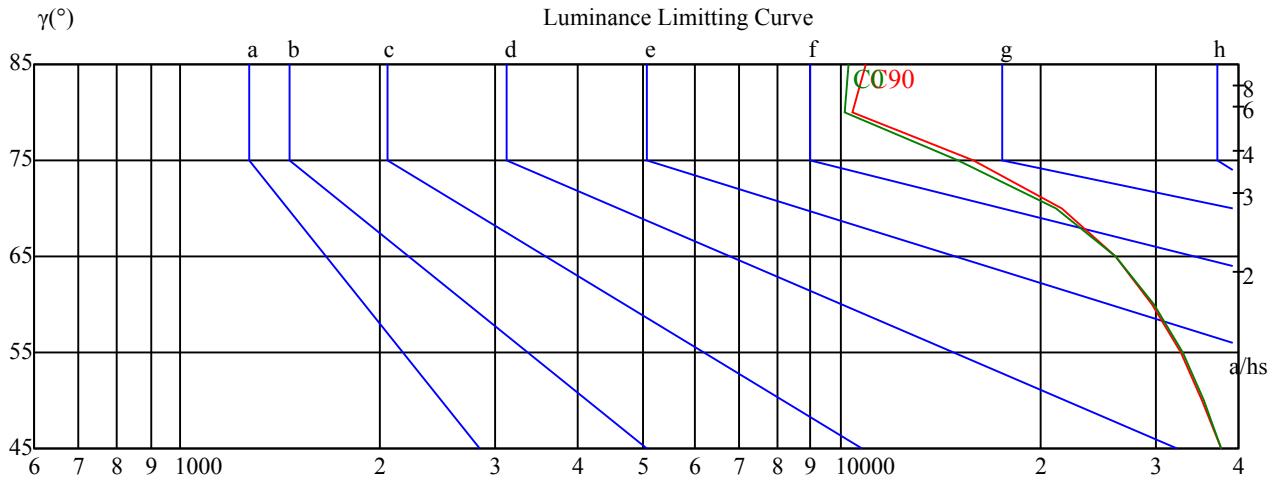


Luminance Table

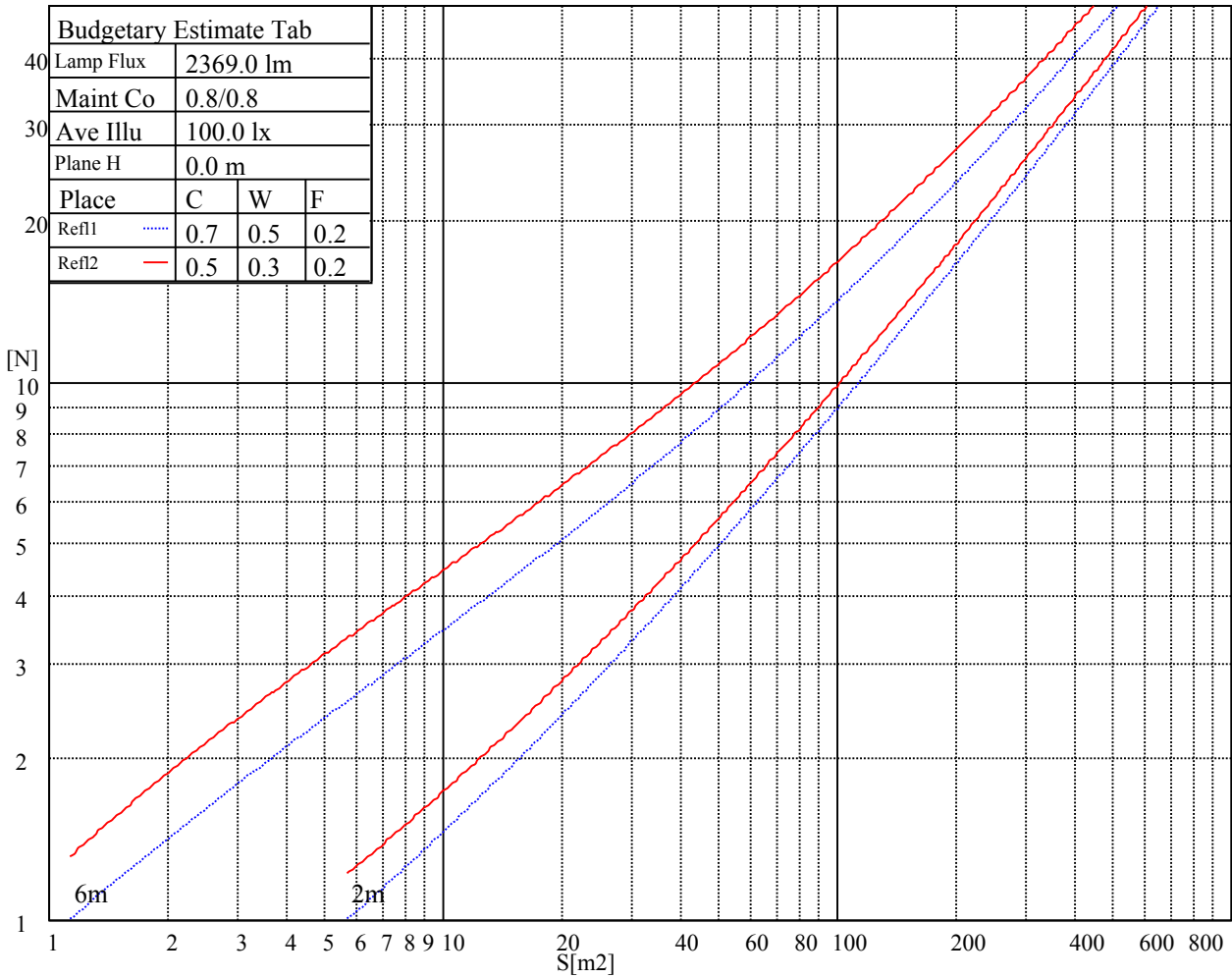
γ	45	50	55	60	65	70	75	80	85
C0	37613	35408	32934	29813	26063	21214	15051	10143	10253
C45	0	0	0	0	0	0	0	0	0
C90	37545	35253	32645	29658	26028	21559	15850	10377	10930

Glare Table

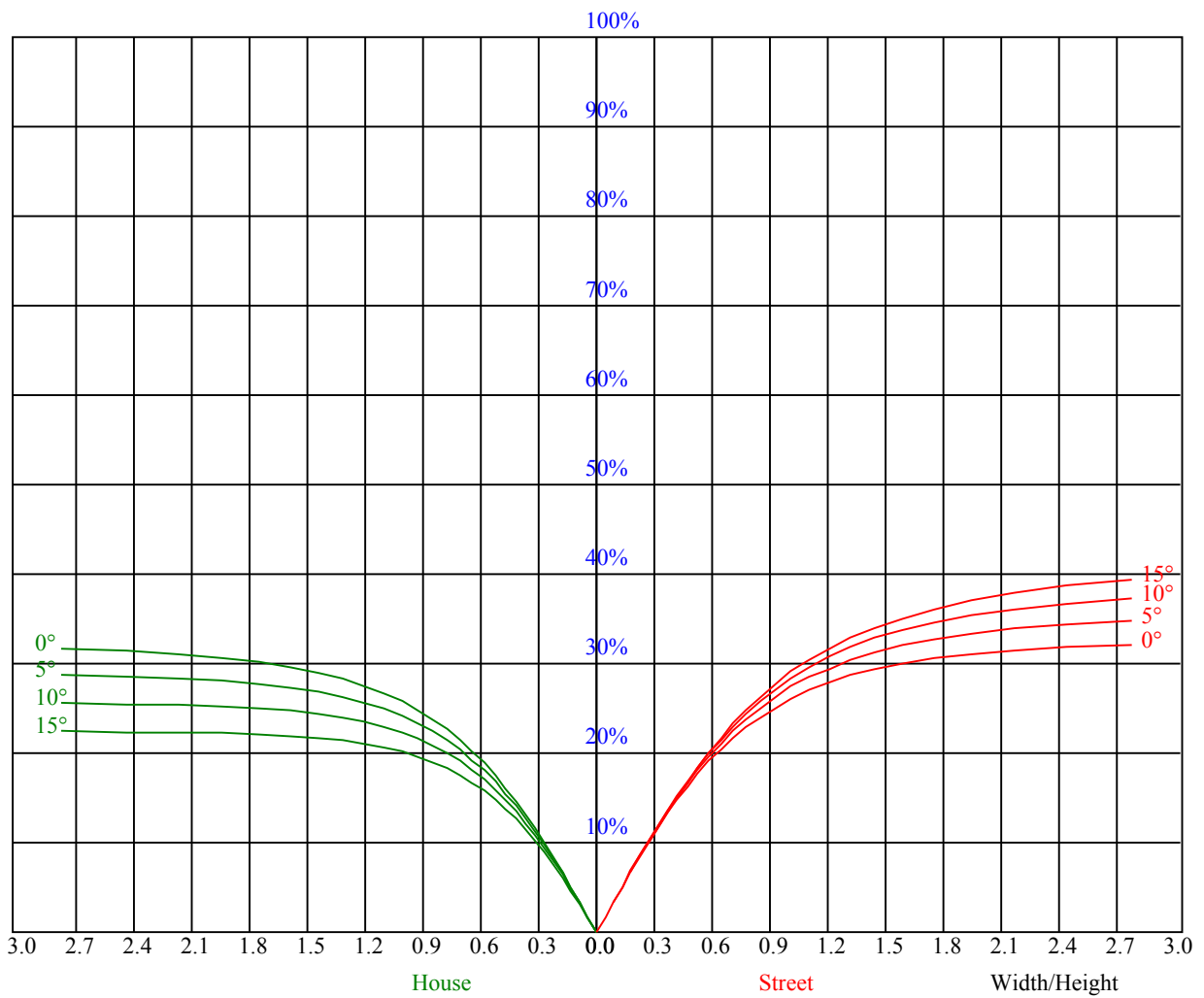
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



Illuminatin 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	21.8	23.1	22.1	23.3	23.5	21.6	22.9	21.9	23.1	23.3
	3H	22.8	24.0	23.1	24.2	24.5	22.6	23.8	22.9	24.0	24.3
	4H	22.9	23.9	23.3	24.2	24.6	22.8	23.7	23.1	24.0	24.4
	6H	23.1	24.1	23.5	24.4	24.7	22.9	23.9	23.3	24.2	24.5
	8H	23.1	24.1	23.5	24.4	24.8	23.0	24.0	23.4	24.3	24.6
	12H	23.0	23.7	23.4	24.1	24.5	22.9	23.6	23.3	24.0	24.4
4H	2H	22.1	23.1	22.5	23.4	23.7	21.9	22.9	22.3	23.2	23.6
	3H	23.3	24.0	23.7	24.4	24.8	23.1	23.8	23.5	24.2	24.6
	4H	23.7	24.5	24.2	24.8	25.2	23.5	24.2	23.9	24.6	25.0
	6H	23.9	24.7	24.4	25.1	25.5	23.7	24.5	24.2	24.8	25.2
	8H	23.9	24.3	24.4	24.7	25.2	23.7	24.1	24.1	24.5	25.0
	12H	23.9	24.3	24.4	24.8	25.3	23.7	24.1	24.2	24.6	25.1
8H	4H	23.8	24.2	24.3	24.7	25.2	23.6	24.0	24.1	24.5	25.0
	6H	24.0	24.5	24.5	24.9	25.4	23.8	24.2	24.3	24.7	25.2
	8H	24.2	24.6	24.7	25.0	25.5	23.9	24.4	24.4	24.8	25.3
	12H	24.3	24.7	24.8	25.1	25.7	24.1	24.5	24.6	24.9	25.4
12H	4H	23.8	24.2	24.3	24.7	25.2	23.6	24.0	24.1	24.5	25.0
	6H	24.1	24.5	24.6	25.0	25.5	23.9	24.3	24.4	24.7	25.3
	8H	24.2	24.6	24.7	25.1	25.6	24.0	24.4	24.5	24.9	25.4
Variation with the observer position at spacings:											
S = 1.0H		0.4/-0.4					0.4/-0.4				
S = 1.5H		0.7/-1.0					0.7/-1.0				
S = 2.0H		1.6/-1.5					1.6/-1.4				
Standard tables:		BK3					BK3				
Uncorrected UGR		4.9					4.7				
According 1000lm											



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 RHOF=20 CU															
0	0.78	0.78	0.78	0.76	0.76	0.76	0.73	0.73	0.73	0.69	0.69	0.69	0.67	0.67	0.67	0.65
1	0.69	0.67	0.64	0.68	0.65	0.63	0.65	0.63	0.61	0.62	0.61	0.59	0.60	0.59	0.58	0.56
2	0.61	0.57	0.53	0.60	0.56	0.53	0.57	0.54	0.52	0.55	0.53	0.50	0.53	0.51	0.49	0.48
3	0.54	0.49	0.45	0.53	0.48	0.45	0.51	0.47	0.44	0.49	0.46	0.43	0.48	0.45	0.43	0.41
4	0.48	0.43	0.39	0.47	0.42	0.39	0.46	0.41	0.38	0.44	0.41	0.37	0.43	0.40	0.37	0.36
5	0.43	0.38	0.34	0.43	0.37	0.34	0.41	0.37	0.33	0.40	0.36	0.33	0.39	0.35	0.32	0.31
6	0.39	0.34	0.30	0.39	0.33	0.30	0.37	0.33	0.29	0.36	0.32	0.29	0.35	0.32	0.29	0.27
7	0.36	0.30	0.26	0.35	0.30	0.26	0.34	0.29	0.26	0.33	0.29	0.26	0.32	0.29	0.26	0.24
8	0.33	0.27	0.24	0.32	0.27	0.24	0.31	0.27	0.23	0.31	0.26	0.23	0.30	0.26	0.23	0.22
9	0.30	0.25	0.21	0.30	0.25	0.21	0.29	0.24	0.21	0.28	0.24	0.21	0.28	0.24	0.21	0.20
10	0.28	0.23	0.19	0.27	0.23	0.19	0.27	0.22	0.19	0.26	0.22	0.19	0.26	0.22	0.19	0.18



Intensity data(cd)

C/ γ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	654.58	654.64	654.11	653.53	652.57	651.15	649.51	647.77	645.60
30.0	658.92	659.18	658.97	658.39	657.81	656.86	655.43	653.79	651.73
60.0	657.33	657.28	656.75	656.06	654.95	653.74	652.10	649.88	647.92
90.0	656.22	656.12	655.69	655.11	654.16	653.00	651.41	649.46	647.08
120.0	655.38	654.95	654.48	653.47	652.42	650.99	649.09	647.18	644.49
150.0	655.01	654.79	654.37	653.63	652.68	651.46	649.88	648.03	645.86
180.0	654.58	654.27	653.79	653.05	651.83	650.46	648.72	646.87	644.38
210.0	658.92	658.49	657.70	656.70	655.32	653.58	651.73	649.40	647.03
240.0	657.33	657.17	656.86	656.06	655.01	653.47	651.83	649.83	647.82
270.0	656.22	656.06	655.32	654.53	653.26	651.83	649.99	648.14	645.81
300.0	655.38	655.32	655.01	654.32	653.37	652.20	650.62	648.93	646.92
330.0	655.01	654.64	654.21	653.42	652.31	650.99	649.19	647.29	644.81
360.0	654.58	654.64	654.11	653.53	652.57	651.15	649.51	647.77	645.60
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	643.33	640.84	637.62	634.13	630.11	626.36	622.03	617.80	612.72
30.0	649.51	646.87	644.12	640.74	637.51	633.71	629.95	625.30	620.55
60.0	645.12	642.48	639.20	635.66	632.23	627.95	623.98	619.12	614.63
90.0	644.91	642.37	639.31	635.93	632.07	628.47	623.98	619.59	614.89
120.0	642.06	638.94	635.50	632.28	628.21	623.93	619.91	615.68	610.61
150.0	643.27	640.68	637.56	634.50	630.64	626.62	622.08	617.96	612.99
180.0	641.74	638.94	635.66	632.02	628.42	624.19	620.18	615.42	610.56
210.0	644.07	641.16	637.72	633.71	629.43	625.46	620.55	615.95	610.72
240.0	645.33	642.32	639.31	635.56	631.96	627.52	623.14	618.75	613.52
270.0	643.01	639.78	636.77	632.86	629.21	624.93	620.81	615.95	610.66
300.0	644.54	641.90	638.78	635.45	631.49	627.84	623.56	619.28	614.36
330.0	642.43	639.36	636.40	632.75	629.16	624.93	620.23	615.95	610.61
360.0	643.33	640.84	637.62	634.13	630.11	626.36	622.03	617.80	612.72
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	607.44	602.52	596.55	590.47	584.61	578.42	571.29	563.83	556.01
30.0	616.00	610.50	605.48	599.25	592.96	586.98	579.85	572.40	565.47
60.0	609.24	603.53	597.29	591.58	584.66	578.26	570.71	563.94	556.22
90.0	610.29	604.80	598.66	592.38	586.51	580.32	572.98	566.21	558.55
120.0	605.17	599.25	593.64	586.88	580.69	573.40	566.58	558.92	551.20
150.0	608.39	603.00	597.61	591.42	584.71	578.48	571.08	564.36	556.44
180.0	605.59	599.99	594.44	587.78	581.70	574.35	566.79	559.24	552.21
210.0	605.64	599.51	592.96	586.93	579.69	572.50	565.68	557.65	550.41
240.0	608.28	603.16	597.03	591.53	584.61	578.37	571.08	563.20	555.22
270.0	605.80	599.77	594.28	587.67	580.96	573.93	567.27	559.45	552.31
300.0	608.97	603.47	598.24	592.01	586.19	579.37	572.13	565.37	557.70
330.0	605.80	600.04	594.01	587.62	581.54	574.62	568.12	560.51	553.53
360.0	607.44	602.52	596.55	590.47	584.61	578.42	571.29	563.83	556.01
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	548.93	540.69	533.29	524.62	516.85	508.08	498.88	490.37	480.64
30.0	557.44	550.30	542.01	533.50	525.62	516.58	508.39	498.98	490.32
60.0	548.03	540.58	531.86	522.82	514.63	505.27	496.71	487.04	478.42
90.0	550.41	541.95	534.45	525.52	517.38	508.29	498.88	490.37	480.64
120.0	543.86	535.24	527.47	518.28	509.03	499.51	491.00	481.17	472.29
150.0	548.30	540.90	532.60	523.61	515.42	506.12	497.82	488.20	478.42
180.0	544.97	536.62	527.63	519.60	510.35	500.94	492.32	482.65	473.77
210.0	541.95	533.34	525.41	516.27	507.86	498.46	489.68	479.90	469.76
240.0	547.93	540.47	531.86	522.87	513.99	505.91	496.50	487.83	477.95
270.0	544.97	536.56	527.89	518.86	510.72	501.42	492.85	483.29	474.46
300.0	550.62	542.43	535.03	526.31	517.64	508.81	500.41	491.90	482.23
330.0	545.39	537.09	529.64	520.87	512.83	503.64	495.23	485.72	475.94
360.0	548.93	540.69	533.29	524.62	516.85	508.08	498.88	490.37	480.64

Intensity data(cd)

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C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	471.82	461.56	451.52	442.27	431.91	421.40	412.09	401.52	391.80
30.0	480.75	470.87	460.61	451.52	442.06	431.39	420.34	409.40	399.78
60.0	468.44	458.50	449.36	438.84	429.17	418.23	407.18	397.35	386.30
90.0	471.77	461.56	452.42	442.01	431.44	420.50	410.56	399.57	389.95
120.0	462.20	453.21	442.80	432.23	422.51	411.35	401.52	390.32	380.33
150.0	469.55	459.45	450.25	439.74	430.28	419.33	408.24	397.24	387.41
180.0	463.68	453.64	444.39	433.92	424.25	413.15	403.32	392.17	380.91
210.0	459.45	450.25	440.85	430.33	419.55	409.77	398.83	387.46	377.42
240.0	468.86	458.50	447.98	438.63	428.21	418.70	408.02	398.51	387.31
270.0	464.37	454.01	444.81	434.40	425.04	414.31	403.43	392.27	382.29
300.0	472.08	463.20	452.95	442.70	433.34	422.93	413.57	402.95	392.01
330.0	466.06	457.02	447.88	437.52	427.16	416.43	406.81	395.82	385.93
360.0	471.82	461.56	451.52	442.27	431.91	421.40	412.09	401.52	391.80
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	380.70	369.49	359.35	347.77	337.47	325.79	315.48	303.80	292.28
30.0	388.89	379.01	367.91	357.92	346.50	334.82	324.31	312.36	301.84
60.0	375.15	365.06	353.69	343.81	332.50	320.82	310.09	298.09	287.63
90.0	380.01	369.02	357.60	346.13	335.88	324.36	313.89	301.84	289.85
120.0	369.07	357.71	346.40	336.36	326.10	314.42	302.21	290.11	279.59
150.0	376.52	366.53	355.12	344.97	333.40	321.77	311.25	299.31	288.63
180.0	369.71	359.66	348.30	338.26	326.79	315.06	304.33	292.17	281.71
210.0	365.95	355.75	344.13	332.39	321.98	310.30	299.83	287.89	277.27
240.0	376.10	364.63	354.27	342.59	332.18	320.55	308.71	298.30	286.57
270.0	371.19	361.14	349.67	339.32	327.74	316.17	305.70	293.97	283.45
300.0	382.02	371.08	360.88	349.30	339.00	327.37	315.85	304.17	293.86
330.0	374.83	365.00	353.53	342.01	331.70	320.08	309.72	297.98	287.47
360.0	380.70	369.49	359.35	347.77	337.47	325.79	315.48	303.80	292.28
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	282.08	270.40	258.50	247.88	235.83	225.10	213.37	201.48	189.53
30.0	290.22	279.91	268.33	256.55	244.76	234.14	222.19	211.73	200.00
60.0	276.05	265.64	254.01	242.17	230.39	220.13	208.87	198.52	186.94
90.0	279.49	268.02	257.76	246.08	235.62	223.78	212.26	200.68	190.38
120.0	267.96	257.50	245.71	235.20	223.30	211.83	200.37	190.11	179.75
150.0	276.84	265.27	254.96	243.18	232.66	220.87	210.46	198.78	187.05
180.0	269.97	259.56	247.88	235.94	224.10	213.95	202.48	192.12	181.71
210.0	265.37	253.38	241.43	230.81	219.02	208.56	196.61	186.15	174.52
240.0	276.32	264.69	254.06	242.17	230.28	218.12	207.71	195.93	185.51
270.0	271.77	261.41	249.68	237.79	225.95	215.53	203.80	193.39	181.92
300.0	282.45	272.14	260.46	249.89	238.00	226.05	215.43	203.54	193.07
330.0	275.73	264.00	252.11	241.59	229.70	219.13	207.18	195.34	184.88
360.0	282.08	270.40	258.50	247.88	235.83	225.10	213.37	201.48	189.53
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	179.17	168.97	157.66	146.30	136.10	124.79	114.74	103.86	93.07
30.0	188.26	177.69	165.96	155.76	144.24	134.09	122.78	111.73	101.05
60.0	176.48	164.85	153.48	143.23	131.92	122.09	111.20	100.79	90.48
90.0	178.80	168.65	157.45	147.46	136.31	125.58	116.12	105.55	96.46
120.0	168.18	156.71	146.72	135.36	124.20	114.48	104.12	95.03	85.15
150.0	175.42	165.06	153.70	143.65	132.50	122.67	111.84	101.27	92.07
180.0	170.03	158.66	147.14	136.94	125.68	115.96	105.28	94.98	86.04
210.0	163.05	152.90	141.65	131.66	120.56	109.62	100.31	90.01	79.86
240.0	175.21	163.90	153.06	142.12	132.29	121.30	111.84	101.42	91.17
270.0	170.50	160.36	149.15	139.27	128.12	118.39	107.77	97.41	87.05
300.0	181.50	170.13	160.20	148.94	138.79	127.53	117.60	106.66	96.03
330.0	173.30	162.89	151.48	141.28	129.91	118.60	107.61	98.15	87.58
360.0	179.17	168.97	157.66	146.30	136.10	124.79	114.74	103.86	93.07

Intensity data(cd)

C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	83.72	73.52	64.90	55.76	47.62	40.06	34.14	28.70	25.21
30.0	91.49	81.23	72.41	63.85	54.70	46.30	38.79	32.93	27.75
60.0	81.45	72.62	62.95	54.81	46.40	38.74	32.08	27.54	23.78
90.0	86.31	76.58	68.07	58.72	50.10	42.97	35.73	30.34	25.79
120.0	75.37	67.12	58.14	50.69	42.92	36.57	30.50	25.79	22.36
150.0	81.97	73.41	64.16	55.28	48.04	40.49	33.93	29.07	24.74
180.0	76.32	67.86	58.67	51.11	43.23	36.10	30.23	26.11	22.67
210.0	71.19	63.11	54.44	46.51	39.38	33.72	28.43	24.79	22.04
240.0	82.29	72.67	64.43	55.60	48.52	41.07	34.30	28.80	25.26
270.0	78.06	69.50	60.20	52.43	44.29	37.05	31.08	26.95	23.63
300.0	85.62	76.58	66.91	58.77	50.26	43.23	36.15	30.23	26.32
330.0	78.38	68.50	60.20	51.32	43.23	36.84	30.92	26.90	23.73
360.0	83.72	73.52	64.90	55.76	47.62	40.06	34.14	28.70	25.21
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	22.57	20.24	17.55	15.33	12.79	10.52	8.25	6.18	4.02
30.0	24.10	21.78	19.24	17.02	14.59	12.26	9.99	7.93	5.76
60.0	21.56	19.45	17.02	14.96	12.63	10.31	8.14	6.29	4.28
90.0	22.73	20.51	18.18	15.80	13.64	11.42	9.41	7.29	5.34
120.0	20.30	18.50	16.17	14.06	12.00	10.04	7.98	6.03	4.07
150.0	22.04	19.71	17.60	15.59	13.42	11.31	9.35	7.29	5.39
180.0	20.51	18.50	16.44	14.43	12.42	10.25	8.30	6.45	4.55
210.0	19.93	17.76	15.43	13.37	10.99	8.98	6.92	5.07	3.07
240.0	22.52	20.19	17.81	15.17	13.11	10.94	8.67	6.66	4.76
270.0	21.19	18.92	16.60	14.27	11.94	9.62	7.51	5.71	3.44
300.0	23.41	20.77	18.45	15.91	13.64	11.31	8.93	6.92	4.70
330.0	21.30	19.03	16.54	14.22	11.68	9.41	7.24	5.18	3.22
360.0	22.57	20.24	17.55	15.33	12.79	10.52	8.25	6.18	4.02
C/ γ (°)	90.0								
0.0	2.85								
30.0	3.70								
60.0	3.22								
90.0	3.28								
120.0	3.01								
150.0	3.54								
180.0	3.59								
210.0	2.96								
240.0	2.96								
270.0	3.01								
300.0	3.01								
330.0	2.91								
360.0	2.85								