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Nata

LumCAT: 2-2321-M
Luminaire: 92.70.131.00
Report No: 210727-B009
Test No: 210727-C009
LampCAT: TRIDONIC SLE G7 13MM
Lamp flux(lm): 2456.4
Number of Lamps: 1
Length(mm): 570
Phm Type: C

Voltage(V): 35.1100
Current(A): 0.4800
Power (W): 16.8520
PF: 0.0000
Ballast type: DC
Width(mm): 45
Height(mm): 20

Photometric Results

Lumens(lm): 2373.85
Efficiency(%): 96.64%
Lumens(lm)/Power(W): 140.86
Central intensity(cd): 3211.313
Maximum intensity(cd): 3338.438
Angle of maximum intensity: C=202.5 γ =10.0
Beam Angle(50%Imax): [C0/180]Total=49.4
 [C90/270]Total=48.4
Field angle(10%Imax): [C0/180]Total=64.8
 [C90/270]Total=64.6
Maximum s/h(1/2): C0_180=0.83 C90_270=0.81
Maximum s/h(1/4): C0_180=0.69 C90_270=0.69
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 96.64%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.356%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3218.625	0.000	0	.000%	.000%
1.0	3219.855	3.081	3.081	.125%	.130%
2.0	3225.059	9.250	12.331	.377%	.519%
3.0	3231.316	15.442	27.773	.629%	1.170%
4.0	3236.133	21.649	49.421	.881%	2.082%
5.0	3241.934	27.868	77.289	1.135%	3.256%
6.0	3246.117	34.096	111.386	1.388%	4.692%
7.0	3247.242	40.304	151.69	1.641%	6.390%
8.0	3245.379	46.466	198.157	1.892%	8.347%
9.0	3239.754	52.558	250.715	2.140%	10.562%
10.0	3228.117	58.532	309.247	2.383%	13.027%
11.0	3211.031	64.340	373.587	2.619%	15.738%
12.0	3184.734	69.915	443.502	2.846%	18.683%
13.0	3151.969	75.201	518.703	3.061%	21.851%
14.0	3112.734	80.188	598.89	3.264%	25.229%
15.0	3070.723	84.889	683.78	3.456%	28.805%
16.0	3022.066	89.276	773.056	3.634%	32.565%
17.0	2961.281	93.177	866.233	3.793%	36.491%
18.0	2895.047	96.558	962.791	3.931%	40.558%
19.0	2816.543	99.370	1062.161	4.045%	44.744%
20.0	2716.383	101.268	1163.429	4.123%	49.010%
21.0	2596.641	102.021	1265.45	4.153%	53.308%
22.0	2463.328	101.682	1367.132	4.139%	57.591%
23.0	2303.438	100.020	1467.152	4.072%	61.805%
24.0	2124.668	96.814	1563.966	3.941%	65.883%
25.0	1938.480	92.387	1656.353	3.761%	69.775%
26.0	1730.837	86.615	1742.968	3.526%	73.424%
27.0	1530.823	79.797	1822.765	3.249%	76.785%
28.0	1325.640	72.320	1895.084	2.944%	79.832%
29.0	1136.869	64.426	1959.511	2.623%	82.546%
30.0	961.211	56.648	2016.158	2.306%	84.932%
31.0	794.299	48.853	2065.012	1.989%	86.990%
32.0	651.575	41.423	2106.434	1.686%	88.735%
33.0	531.229	34.846	2141.28	1.419%	90.203%
34.0	432.763	29.173	2170.453	1.188%	91.432%
35.0	346.402	24.198	2194.651	.985%	92.451%
36.0	279.264	19.921	2214.573	.811%	93.290%
37.0	227.183	16.517	2231.09	.672%	93.986%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	187.643	13.846	2244.936	.564%	94.569%
39.0	154.751	11.687	2256.623	.476%	95.062%
40.0	124.130	9.726	2266.35	.396%	95.471%
41.0	105.398	8.173	2274.523	.333%	95.816%
42.0	89.631	7.086	2281.609	.288%	96.114%
43.0	76.908	6.169	2287.778	.251%	96.374%
44.0	67.050	5.433	2293.211	.221%	96.603%
45.0	58.321	4.818	2298.029	.196%	96.806%
46.0	50.934	4.273	2302.302	.174%	96.986%
47.0	44.909	3.812	2306.114	.155%	97.146%
48.0	39.952	3.430	2309.544	.140%	97.291%
49.0	35.624	3.104	2312.648	.126%	97.422%
50.0	31.785	2.810	2315.459	.114%	97.540%
51.0	28.821	2.564	2318.023	.104%	97.648%
52.0	26.307	2.366	2320.388	.096%	97.748%
53.0	24.068	2.191	2322.58	.089%	97.840%
54.0	22.198	2.039	2324.619	.083%	97.926%
55.0	20.721	1.916	2326.535	.078%	98.007%
56.0	19.399	1.813	2328.348	.074%	98.083%
57.0	18.267	1.722	2330.07	.070%	98.156%
58.0	17.329	1.646	2331.716	.067%	98.225%
59.0	16.548	1.584	2333.3	.064%	98.292%
60.0	15.859	1.531	2334.831	.062%	98.356%
61.0	15.272	1.486	2336.316	.060%	98.419%
62.0	14.797	1.449	2337.765	.059%	98.480%
63.0	14.382	1.419	2339.184	.058%	98.540%
64.0	14.027	1.394	2340.578	.057%	98.598%
65.0	13.721	1.373	2341.952	.056%	98.656%
66.0	13.468	1.357	2343.308	.055%	98.713%
67.0	13.250	1.343	2344.652	.055%	98.770%
68.0	13.054	1.332	2345.984	.054%	98.826%
69.0	12.892	1.324	2347.308	.054%	98.882%
70.0	12.744	1.317	2348.624	.054%	98.937%
71.0	12.635	1.312	2349.936	.053%	98.993%
72.0	12.533	1.309	2351.245	.053%	99.048%
73.0	12.452	1.307	2352.551	.053%	99.103%
74.0	12.386	1.306	2353.857	.053%	99.158%
75.0	12.357	1.307	2355.164	.053%	99.213%

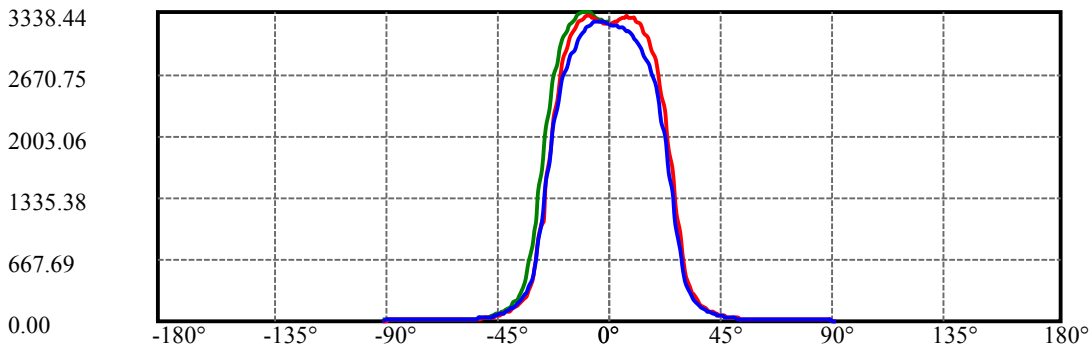
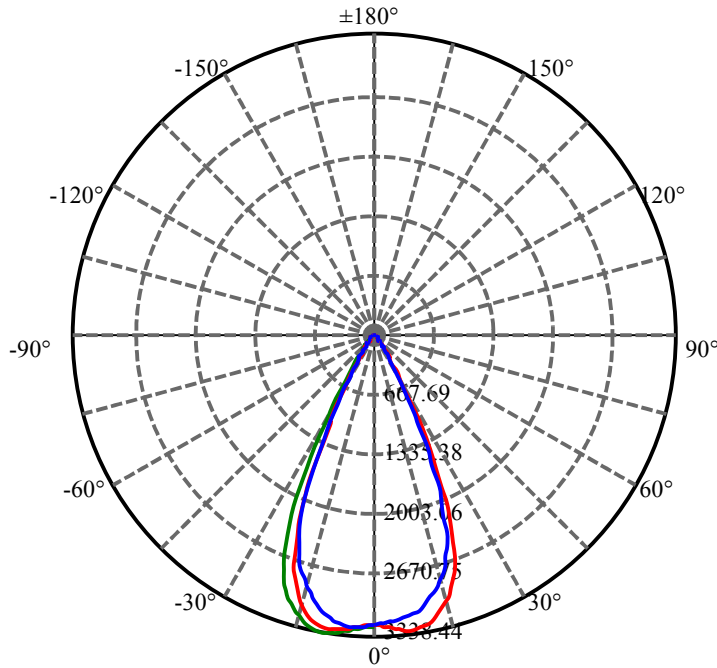
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.280	1.308	2356.472	.053%	99.268%
77.0	12.248	1.308	2357.78	.053%	99.323%
78.0	12.217	1.310	2359.09	.053%	99.378%
79.0	12.154	1.309	2360.399	.053%	99.433%
80.0	12.052	1.305	2361.704	.053%	99.488%
81.0	11.897	1.295	2362.999	.053%	99.543%
82.0	11.675	1.278	2364.277	.052%	99.597%
83.0	11.429	1.256	2365.533	.051%	99.650%
84.0	11.225	1.234	2366.768	.050%	99.702%
85.0	11.099	1.218	2367.986	.050%	99.753%
86.0	10.944	1.205	2369.191	.049%	99.804%
87.0	10.705	1.185	2370.376	.048%	99.854%
88.0	10.617	1.168	2371.544	.048%	99.903%
89.0	10.529	1.159	2372.703	.047%	99.952%
90.0	10.434	1.149	2373.852	.047%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2016.16	82.08%	84.93%
0-40	2266.35	92.26%	95.47%
0-60	2334.83	95.05%	98.36%
0-90	2372.70	96.59%	99.95%
0-120	2372.70	96.59%	99.95%
0-180	2373.85	96.64%	100.00%
60-90	39.40	1.60%	1.66%
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%
0-28.06	1899.08	77.31%	80.00%

ZONAL LUMEN SUMMARY

0-10	309.25
10-20	854.18
20-30	852.73
30-40	250.19
40-50	49.11
50-60	19.37
60-70	13.79
70-80	13.08
80-90	11.00
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



C202.5(Max): ———

C0/C180: ———

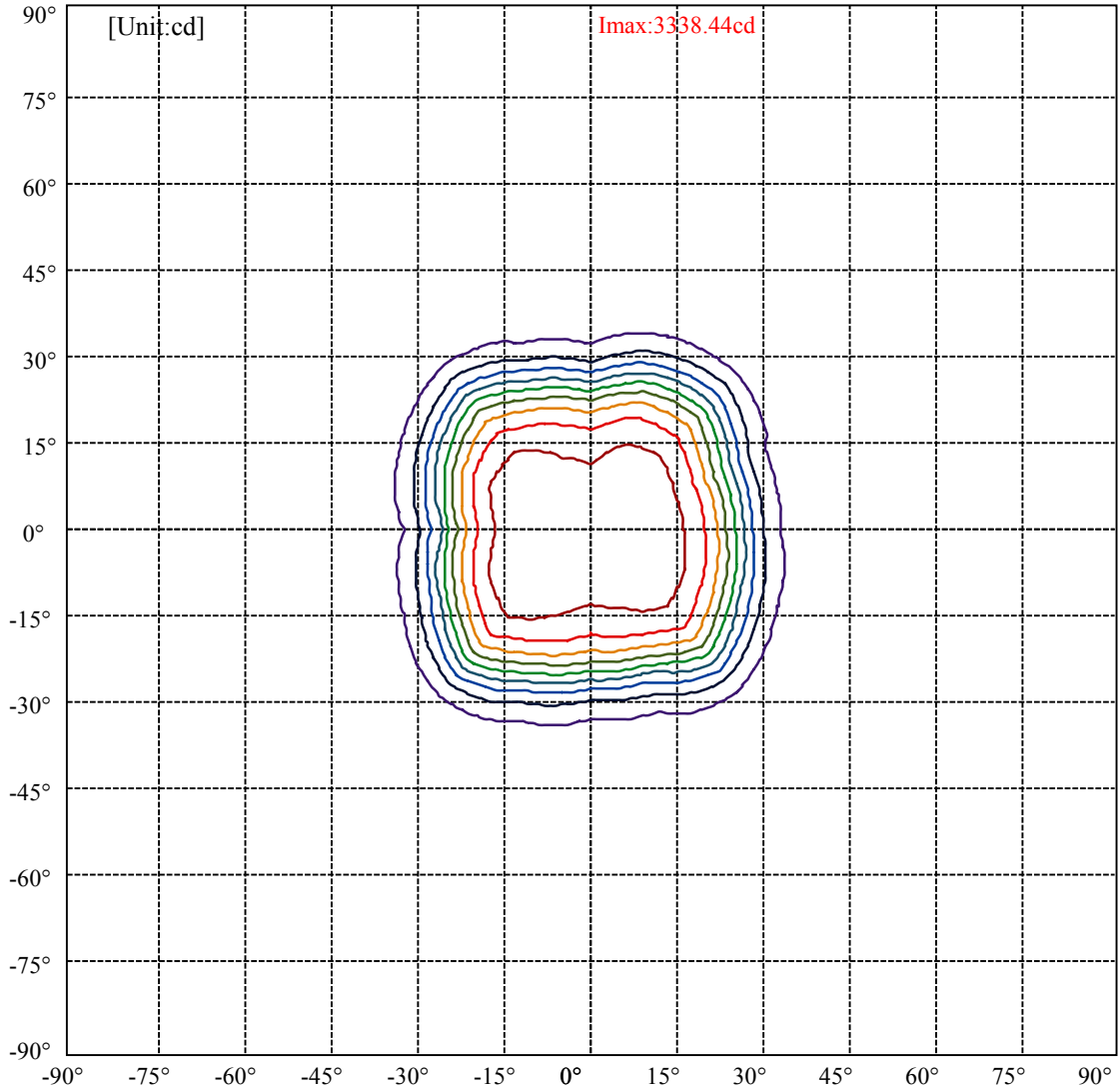
C90/C270: ———

Field angle(10%Imax):C0/180Left:24.1 Right:40.6

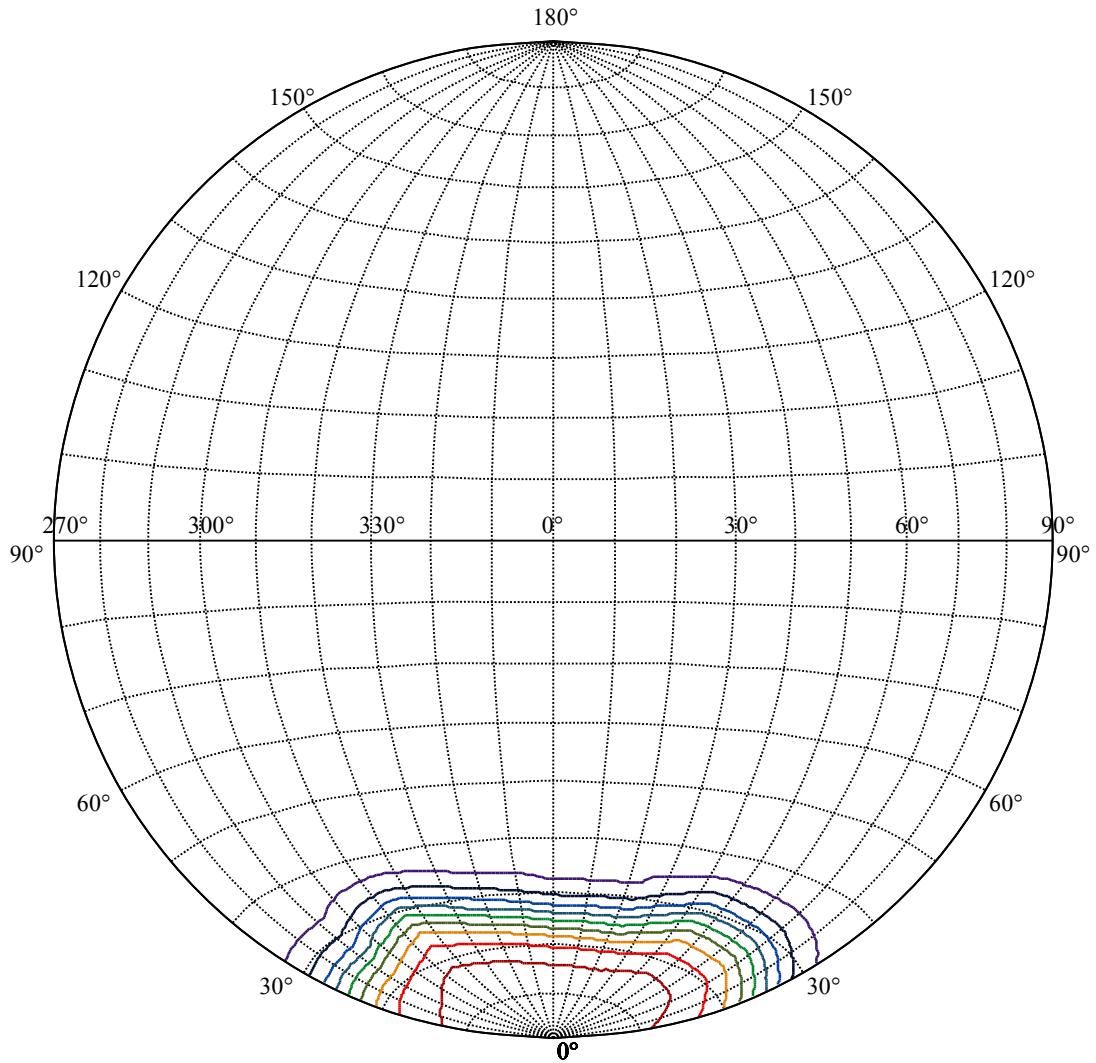
:C90/270Left:29.7 Right:34.9

Beam Angle(50%Imax):C0/180Left:16.5 Right:32.9

:C90/270Left:21.5 Right:26.9



(10%Imax) 333.531	—
(20%Imax) 667.063	—
(30%Imax) 1000.59	—
(40%Imax) 1334.13	—
(50%Imax) 1667.66	—
(60%Imax) 2001.19	—
(70%Imax) 2334.72	—
(80%Imax) 2668.25	—
(90%Imax) 3001.78	—



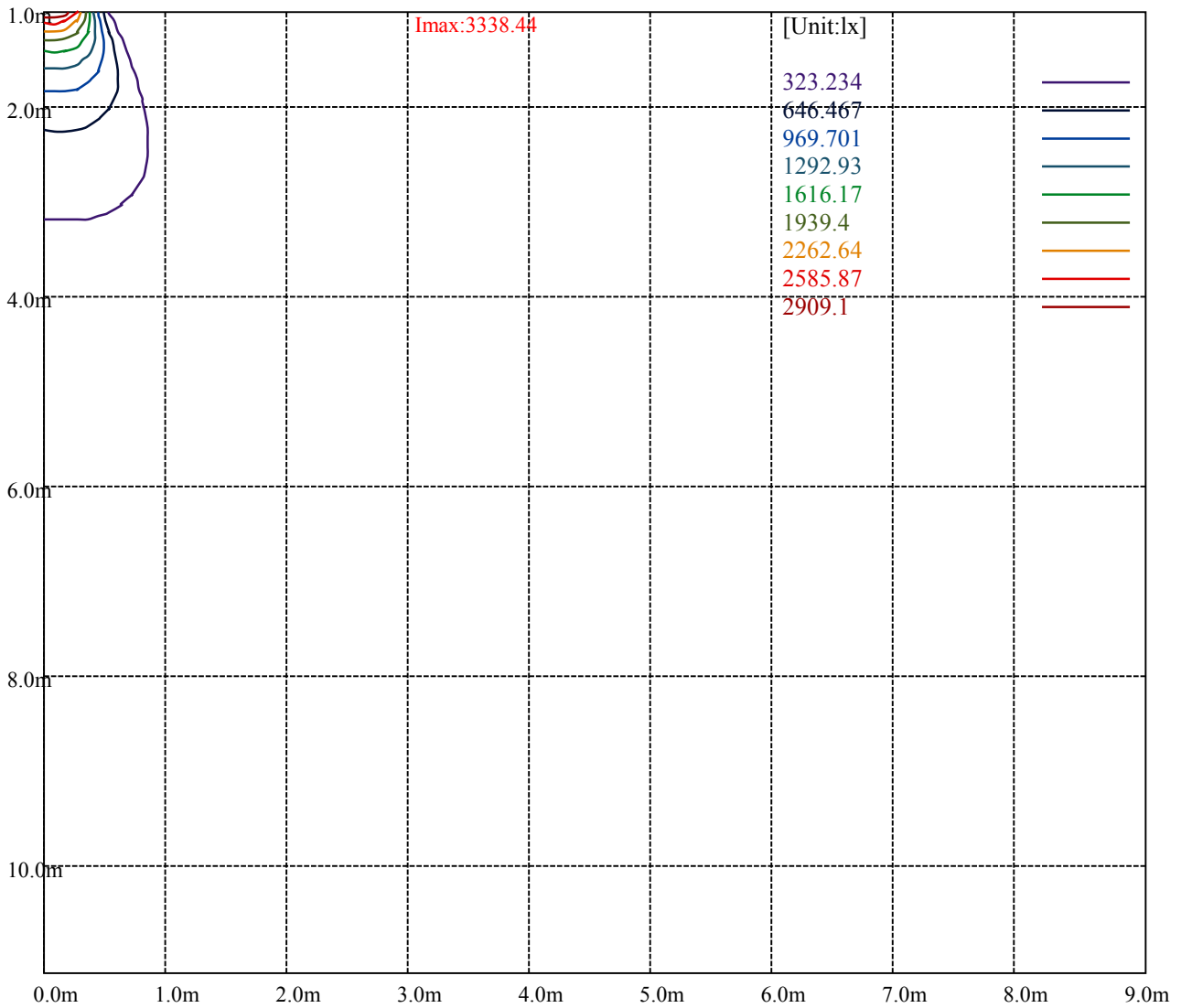
House

[Unit:cd]

Road

Imax:3338.44

(10%Imax) 333.727	—
(20%Imax) 667.455	—
(30%Imax) 1001.18	—
(40%Imax) 1334.91	—
(50%Imax) 1668.64	—
(60%Imax) 2002.36	—
(70%Imax) 2336.09	—
(80%Imax) 2669.82	—
(90%Imax) 3003.55	—



Luminance Table

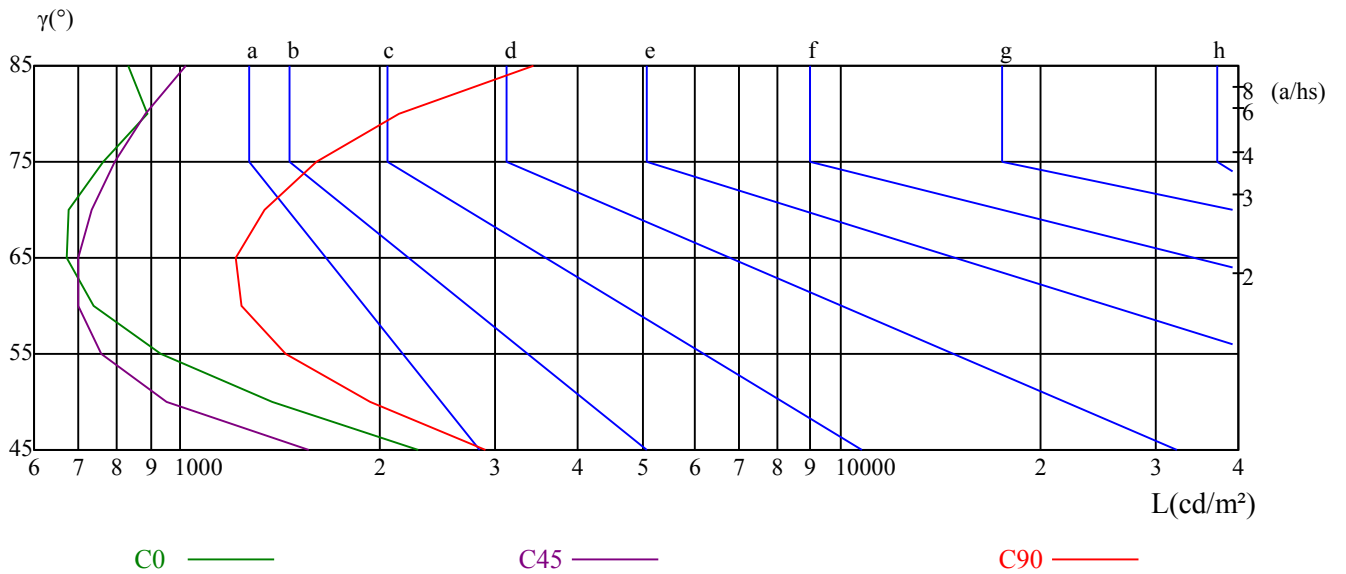
γ	45	50	55	60	65	70	75	80	85
C0	2287	1381	936	739	672	678	762	893	832
C45	1559	950	757	702	700	734	797	886	1022
C90	2900	1935	1438	1236	1216	1339	1603	2138	3430

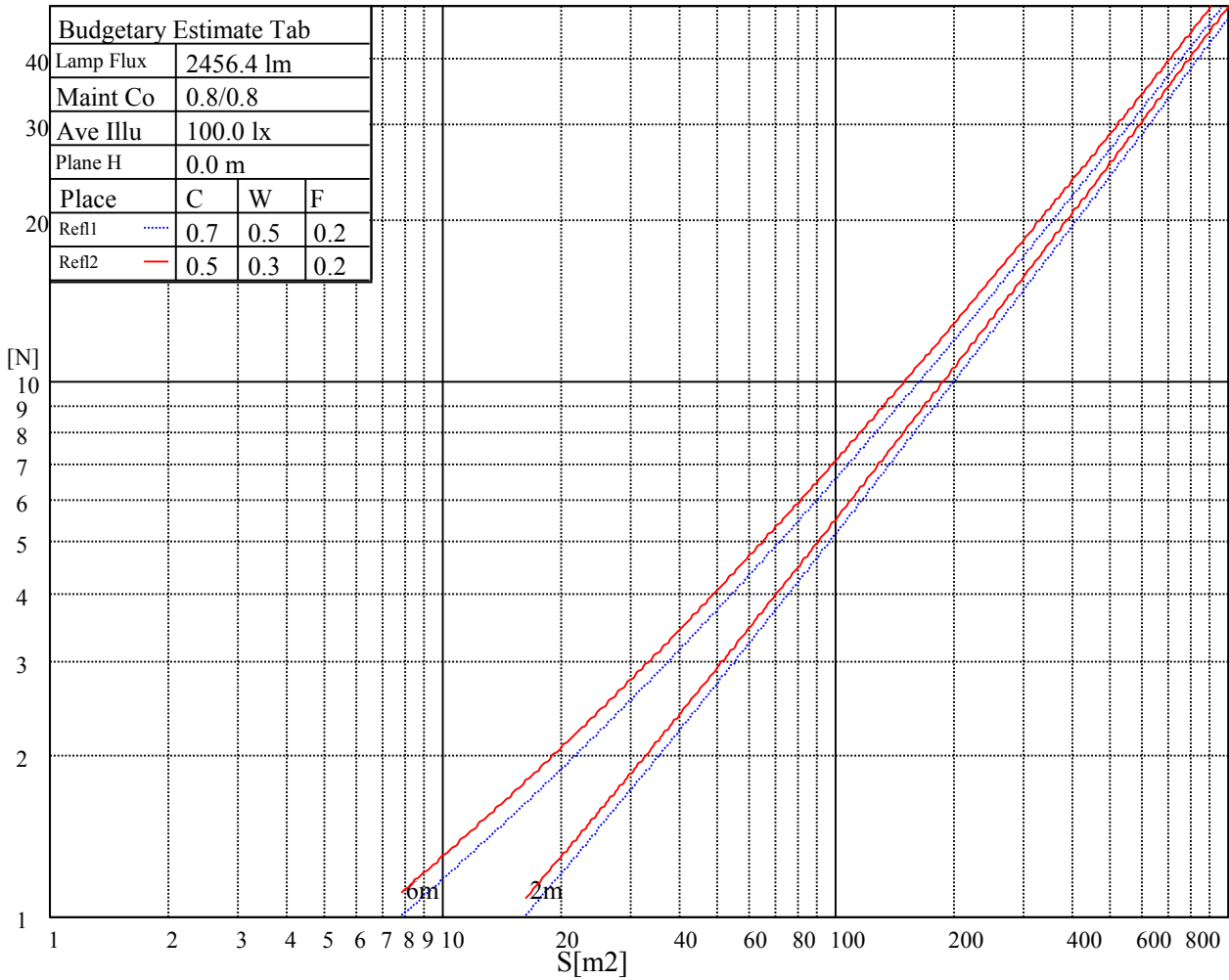
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1305	1321	1210	1923	1856	1817	4957	4881	4995

Glare Table

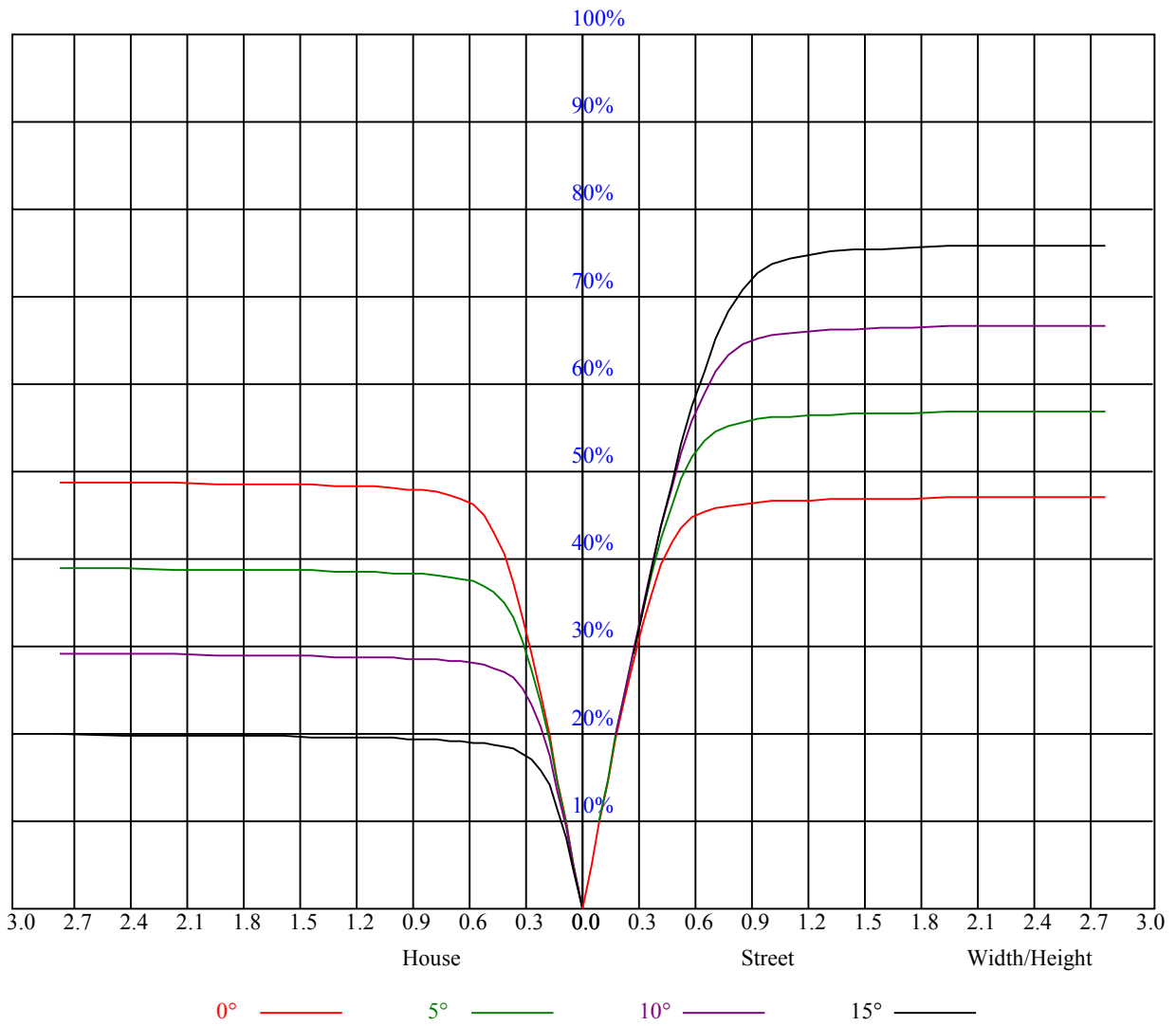
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.03	1.03	1.03	0.99	0.99	0.99	0.97
1	1.07	1.05	1.03	1.05	1.03	1.01	1.01	1.00	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91
2	1.00	0.97	0.94	0.99	0.95	0.93	0.96	0.93	0.91	0.93	0.91	0.89	0.90	0.88	0.87	0.85
3	0.94	0.90	0.86	0.93	0.89	0.86	0.91	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	0.82	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.71
6	0.80	0.74	0.71	0.79	0.74	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.68
7	0.76	0.70	0.67	0.75	0.70	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.64
8	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61
9	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.63	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.58
10	0.65	0.60	0.57	0.65	0.60	0.57	0.64	0.60	0.56	0.63	0.59	0.56	0.63	0.59	0.56	0.55



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	3211.31	3219.75	3229.88	3243.94	3258.56	3273.75	3283.88	3290.06	3286.13
22.5	3233.25	3237.75	3247.88	3260.25	3266.44	3276.00	3287.25	3279.38	3274.88
45.0	3229.88	3228.75	3233.81	3245.63	3250.69	3258.00	3268.13	3270.38	3263.06
67.5	3219.19	3211.31	3215.25	3216.38	3222.56	3219.75	3211.31	3205.13	3202.88
90.0	3208.50	3196.13	3193.31	3183.19	3177.56	3165.75	3148.31	3133.13	3120.75
112.5	3219.19	3207.38	3200.63	3203.44	3203.44	3192.19	3183.75	3174.19	3166.31
135.0	3214.13	3205.69	3208.50	3216.38	3219.75	3226.50	3232.69	3237.75	3243.38
157.5	3213.56	3207.94	3209.06	3217.50	3231.00	3243.94	3259.13	3277.13	3292.31
180.0	3211.31	3211.88	3218.63	3227.63	3240.56	3256.31	3271.50	3286.13	3290.63
202.5	3233.25	3236.63	3242.81	3254.06	3265.31	3286.13	3300.75	3314.25	3328.88
225.0	3229.88	3231.56	3236.63	3249.00	3252.38	3256.31	3263.06	3274.88	3283.31
247.5	3219.19	3228.75	3228.19	3229.31	3227.06	3232.69	3233.25	3223.69	3209.63
270.0	3208.50	3219.19	3233.81	3236.06	3232.13	3234.94	3228.75	3213.56	3195.56
292.5	3219.19	3226.50	3237.19	3230.44	3229.31	3234.38	3233.25	3223.69	3218.63
315.0	3214.13	3226.50	3234.38	3246.19	3244.50	3251.81	3259.13	3264.75	3269.25
337.5	3213.56	3222.00	3231.00	3241.69	3256.88	3262.50	3273.75	3287.81	3280.50
360.0	3211.31	3219.75	3229.88	3243.94	3258.56	3273.75	3283.88	3290.06	3286.13
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3282.19	3266.44	3240.00	3207.94	3164.06	3114.56	3063.94	2998.13	2920.50
22.5	3269.25	3247.31	3216.38	3183.19	3144.38	3089.81	3036.38	2981.25	2894.63
45.0	3260.25	3249.00	3241.13	3220.31	3192.19	3158.44	3124.69	3073.50	3017.25
67.5	3193.31	3184.88	3161.81	3140.44	3104.44	3065.06	3027.94	2984.63	2925.00
90.0	3091.50	3056.63	3018.38	2967.19	2918.81	2871.56	2806.88	2747.81	2675.25
112.5	3147.19	3126.38	3096.00	3057.19	3013.88	2970.00	2922.19	2874.94	2823.19
135.0	3249.00	3258.56	3256.31	3249.00	3233.25	3207.94	3171.94	3133.69	3094.88
157.5	3308.06	3300.75	3299.63	3286.69	3268.13	3244.50	3207.38	3169.69	3117.38
180.0	3290.06	3278.81	3263.06	3233.81	3198.94	3146.06	3090.94	3034.13	2936.81
202.5	3337.31	3338.44	3331.69	3315.38	3294.56	3259.13	3224.25	3186.56	3120.75
225.0	3285.56	3286.13	3292.88	3288.38	3276.56	3261.94	3250.69	3215.25	3180.38
247.5	3193.31	3186.56	3170.81	3140.44	3106.13	3066.75	3035.81	2994.75	2935.13
270.0	3166.88	3137.63	3101.06	3047.63	2990.25	2932.88	2874.94	2813.63	2734.31
292.5	3209.63	3190.50	3159.56	3122.44	3083.63	3034.69	2981.81	2931.19	2887.88
315.0	3267.00	3267.56	3262.50	3252.94	3233.81	3208.50	3178.69	3132.00	3088.69
337.5	3285.56	3274.31	3265.31	3242.81	3208.50	3171.94	3133.13	3081.94	3028.50
360.0	3282.19	3266.44	3240.00	3207.94	3164.06	3114.56	3063.94	2998.13	2920.50
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2837.81	2739.94	2597.63	2453.63	2282.63	2041.31	1836.56	1629.00	1387.69
22.5	2807.44	2702.25	2549.25	2391.19	2212.31	1991.81	1764.56	1574.44	1348.88
45.0	2957.06	2886.19	2814.19	2712.94	2606.06	2494.69	2362.50	2205.56	2046.38
67.5	2874.38	2812.50	2734.31	2637.56	2525.63	2398.50	2219.63	2044.69	1891.13
90.0	2579.63	2468.25	2340.00	2163.38	2001.38	1825.88	1591.31	1395.56	1120.56
112.5	2760.19	2697.19	2613.94	2491.88	2367.56	2203.88	2008.69	1839.94	1645.88
135.0	3026.81	2968.31	2904.75	2820.38	2738.81	2647.69	2539.13	2407.50	2278.69
157.5	3055.50	2990.25	2903.06	2790.00	2671.31	2529.00	2318.63	2149.31	1953.00
180.0	2841.19	2725.88	2556.56	2390.06	2203.31	1945.13	1760.63	1522.13	1105.65
202.5	3069.56	3000.38	2916.00	2787.19	2658.38	2513.81	2291.63	2090.81	1881.00
225.0	3144.38	3093.19	3039.75	2988.56	2905.31	2837.81	2760.19	2634.19	2510.44
247.5	2892.94	2836.69	2743.31	2628.56	2507.06	2338.31	2144.81	1958.63	1738.69
270.0	2663.44	2571.75	2433.38	2302.31	2144.25	1940.63	1719.56	1514.81	1282.50
292.5	2813.63	2719.69	2616.19	2467.13	2284.31	2102.06	1910.81	1661.06	1457.44
315.0	3034.13	2972.81	2908.69	2851.88	2778.19	2675.81	2572.31	2436.19	2292.19
337.5	2962.69	2879.44	2791.13	2669.63	2526.75	2368.69	2193.75	1951.88	1753.31
360.0	2837.81	2739.94	2597.63	2453.63	2282.63	2041.31	1836.56	1629.00	1387.69

Intensity data(cd)

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1150.88	950.63	750.38	605.25	477.56	373.50	301.50	287.44	219.21
22.5	1145.81	937.69	753.75	612.56	479.81	371.81	307.13	290.25	215.16
45.0	1876.50	1652.06	1468.69	1222.31	1082.42	891.11	732.88	574.93	438.86
67.5	1653.19	1442.25	1280.81	1051.88	858.94	719.44	564.19	443.25	349.88
90.0	976.22	774.73	610.43	467.33	383.91	318.60	261.96	222.19	191.64
112.5	1396.13	1199.25	1019.81	837.00	639.00	515.81	420.75	320.63	286.31
135.0	2116.13	1949.63	1747.13	1533.38	1334.81	1117.74	894.09	752.34	604.91
157.5	1692.56	1495.13	1310.63	1096.88	889.88	742.50	593.44	456.19	362.25
180.0	1080.34	889.59	700.43	550.18	442.13	337.78	278.27	244.13	215.61
202.5	1645.31	1405.69	1100.87	981.96	811.41	644.91	508.11	406.07	317.64
225.0	2370.94	2172.94	1992.38	1792.13	1523.81	1311.19	1110.94	898.88	713.25
247.5	1544.06	1322.44	1107.62	933.36	778.11	614.98	504.79	408.26	315.34
270.0	1079.44	870.19	690.75	567.56	457.88	364.50	304.31	287.44	226.91
292.5	1109.42	1014.92	839.98	689.23	538.65	438.02	354.43	286.48	257.01
315.0	2099.81	1891.13	1698.75	1497.38	1247.06	1057.50	876.94	674.44	534.38
337.5	1556.44	1242.00	1117.52	941.01	763.43	605.81	485.94	371.31	294.08
360.0	1150.88	950.63	750.38	605.25	477.56	373.50	301.50	287.44	219.21
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	191.36	168.92	146.70	127.41	113.06	100.35	86.74	77.40	68.96
22.5	191.87	169.09	146.70	128.31	113.34	99.11	86.51	77.06	67.89
45.0	337.16	241.76	176.29	123.64	93.60	76.95	63.73	51.13	43.59
67.5	285.75	204.69	178.26	147.94	127.01	109.46	90.28	77.46	67.61
90.0	166.16	147.15	130.16	111.49	99.34	88.54	76.89	68.91	61.93
112.5	219.66	190.46	165.83	146.08	125.66	110.25	96.08	83.98	74.70
135.0	432.56	342.17	254.42	175.78	122.18	93.54	74.48	59.91	50.23
157.5	290.25	237.54	204.47	178.26	151.65	130.95	111.15	94.67	82.46
180.0	184.61	162.68	143.44	122.40	108.28	95.68	83.42	72.96	64.86
202.5	260.21	228.88	201.26	170.55	149.34	131.01	113.46	98.33	86.63
225.0	565.88	420.75	314.44	290.81	146.14	106.65	82.18	66.43	55.74
247.5	269.27	235.91	203.01	173.81	150.58	128.31	111.49	95.12	81.23
270.0	201.04	177.92	154.63	134.94	119.70	105.24	92.70	82.91	73.24
292.5	223.37	190.58	170.49	147.21	125.72	112.84	99.79	84.49	76.11
315.0	414.00	312.19	237.60	148.84	112.50	88.65	71.16	59.46	48.88
337.5	235.07	204.24	174.60	148.56	127.97	108.84	94.05	80.33	68.74
360.0	191.36	168.92	146.70	127.41	113.06	100.35	86.74	77.40	68.96
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	59.91	53.72	48.26	42.92	38.36	34.82	31.39	28.80	26.27
22.5	60.47	53.72	47.25	42.53	38.42	34.03	31.05	28.35	25.59
45.0	37.86	32.46	29.14	26.44	23.96	21.99	20.53	19.18	18.23
67.5	58.11	50.18	44.16	38.36	34.09	30.15	26.94	24.53	22.33
90.0	54.45	49.16	44.49	39.60	36.68	33.24	29.98	27.96	25.93
112.5	65.70	57.83	51.81	46.46	40.67	36.73	33.30	29.93	27.11
135.0	41.51	35.89	31.28	27.79	25.20	22.95	21.09	19.69	18.62
157.5	70.59	60.75	53.61	47.70	40.22	35.78	32.51	28.52	25.71
180.0	57.09	51.13	45.39	40.56	36.84	33.13	29.98	27.56	25.48
202.5	75.26	65.31	57.71	50.51	45.06	39.77	35.33	32.06	29.19
225.0	47.25	39.21	34.37	30.77	27.45	24.75	22.89	21.09	19.69
247.5	70.59	60.36	51.92	45.56	40.11	34.43	30.71	27.68	24.53
270.0	65.87	58.22	51.69	46.58	42.13	37.35	34.09	31.33	28.35
292.5	67.50	58.95	51.69	46.07	40.67	36.06	32.57	29.31	26.78
315.0	41.12	35.83	31.39	28.24	25.31	23.01	21.38	19.97	18.56
337.5	59.85	52.26	44.38	39.15	34.82	30.38	27.39	24.98	22.73
360.0	59.91	53.72	48.26	42.92	38.36	34.82	31.39	28.80	26.27

Intensity data(cd)

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	24.13	22.50	20.93	19.58	18.56	17.66	16.76	16.09	15.58
22.5	23.68	22.11	20.53	19.29	18.28	17.33	16.59	15.98	15.47
45.0	17.33	16.54	15.98	15.41	14.96	14.63	14.29	13.95	13.67
67.5	20.53	19.24	18.11	16.99	16.26	15.64	14.96	14.57	14.18
90.0	23.57	22.22	20.93	19.41	18.51	17.66	16.82	16.09	15.53
112.5	24.92	22.89	21.09	19.74	18.51	17.55	16.59	15.81	15.24
135.0	17.49	16.71	16.09	15.47	14.96	14.57	14.18	13.84	13.61
157.5	23.85	21.60	20.03	18.96	17.72	16.88	16.20	15.47	14.96
180.0	23.29	21.83	20.48	19.24	18.17	17.33	16.54	15.86	15.36
202.5	26.16	24.19	22.44	20.64	19.41	18.34	17.38	16.59	15.98
225.0	18.62	17.66	16.93	16.20	15.58	15.19	14.74	14.34	14.06
247.5	22.50	20.81	19.01	17.89	16.93	15.98	15.41	14.85	14.29
270.0	26.21	24.41	22.61	21.04	19.80	18.56	17.55	16.76	15.98
292.5	24.36	22.33	20.76	19.41	17.94	16.99	16.20	15.41	14.85
315.0	17.61	16.88	16.09	15.58	15.13	14.63	14.23	13.95	13.67
337.5	20.93	19.63	18.39	17.44	16.54	15.86	15.30	14.79	14.34
360.0	24.13	22.50	20.93	19.58	18.56	17.66	16.76	16.09	15.58
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	15.02	14.57	14.23	13.89	13.61	13.44	13.28	13.22	13.22
22.5	14.96	14.57	14.23	13.95	13.73	13.50	13.33	13.28	13.22
45.0	13.50	13.28	13.11	12.94	12.77	12.66	12.60	12.43	12.38
67.5	13.84	13.56	13.33	13.11	12.94	12.71	12.54	12.43	12.32
90.0	15.02	14.57	14.18	13.84	13.61	13.33	13.05	12.88	12.71
112.5	14.68	14.23	13.84	13.56	13.22	12.99	12.83	12.60	12.49
135.0	13.33	13.16	12.99	12.77	12.66	12.54	12.43	12.32	12.26
157.5	14.57	14.12	13.78	13.56	13.28	13.11	12.94	12.71	12.60
180.0	14.79	14.46	14.06	13.78	13.56	13.28	13.05	12.88	12.77
202.5	15.41	14.96	14.57	14.23	14.01	13.73	13.50	13.33	13.16
225.0	13.84	13.56	13.33	13.22	13.05	12.88	12.83	12.66	12.54
247.5	13.95	13.61	13.33	13.11	12.94	12.77	12.66	12.54	12.38
270.0	15.41	14.91	14.46	14.12	13.78	13.50	13.28	13.05	12.83
292.5	14.34	13.89	13.56	13.28	13.05	12.83	12.66	12.49	12.32
315.0	13.44	13.22	13.05	12.88	12.77	12.66	12.54	12.43	12.38
337.5	14.01	13.78	13.50	13.28	13.05	12.94	12.77	12.66	12.60
360.0	15.02	14.57	14.23	13.89	13.61	13.44	13.28	13.22	13.22
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.22	13.28	13.33	13.44	13.50	13.61	13.78	13.84	14.01
22.5	13.22	13.28	13.28	13.50	13.33	13.44	13.50	13.28	12.99
45.0	12.32	12.15	12.09	11.98	11.87	11.81	11.76	11.64	11.53
67.5	12.21	12.09	12.04	11.93	11.81	11.70	11.64	11.53	11.48
90.0	12.49	12.32	12.21	12.04	11.87	11.76	11.64	11.53	11.42
112.5	12.32	12.21	12.09	11.98	11.81	11.70	11.64	11.53	11.48
135.0	12.15	12.09	11.98	11.93	11.76	11.70	11.59	11.53	11.42
157.5	12.49	12.32	12.21	12.09	11.98	11.87	11.76	11.64	11.59
180.0	12.54	12.38	12.26	12.09	11.98	11.87	11.76	11.59	11.48
202.5	12.94	12.83	12.66	12.49	12.43	12.26	12.15	12.04	11.93
225.0	12.49	12.38	12.32	12.26	12.15	12.04	11.98	11.87	11.81
247.5	12.26	12.15	12.09	12.09	12.15	12.26	12.15	12.15	11.87
270.0	12.71	12.60	12.54	12.60	12.66	12.66	12.60	12.77	12.88
292.5	12.21	12.15	12.15	12.26	12.32	12.38	12.54	12.49	12.38
315.0	12.32	12.26	12.15	12.09	11.93	11.81	11.76	11.70	11.59
337.5	12.66	12.77	12.77	12.94	12.94	13.11	13.22	13.33	12.99
360.0	13.22	13.28	13.33	13.44	13.50	13.61	13.78	13.84	14.01

Intensity data(cd)

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.06	13.95	13.16	11.42	11.31	11.14	10.63	10.46	10.35
22.5	12.54	11.98	11.53	11.42	11.31	10.86	10.74	10.63	10.52
45.0	11.48	11.36	11.31	11.25	11.14	10.91	10.80	10.74	10.63
67.5	11.36	11.31	11.25	11.14	11.03	10.86	10.69	10.63	10.58
90.0	11.36	11.19	11.03	10.91	10.74	10.58	10.46	10.41	10.29
112.5	11.36	11.19	11.14	11.03	10.91	10.74	10.63	10.52	10.52
135.0	11.36	11.31	11.14	11.08	10.91	10.80	10.69	10.63	10.58
157.5	11.42	11.36	11.25	11.14	10.97	10.86	10.69	10.63	10.52
180.0	11.42	11.25	11.14	10.97	10.86	10.69	10.52	10.41	10.29
202.5	11.81	11.70	11.64	11.48	11.36	11.19	11.03	10.91	10.74
225.0	11.76	11.70	11.59	11.53	11.42	11.31	11.03	10.97	10.86
247.5	11.64	11.42	11.31	11.25	11.08	10.86	10.80	10.69	10.69
270.0	12.60	11.76	11.36	11.25	11.08	10.97	10.58	10.46	10.41
292.5	11.70	11.25	11.14	11.08	11.03	10.97	10.63	10.58	10.41
315.0	11.48	11.48	11.36	11.31	11.19	11.19	10.74	10.69	10.63
337.5	12.99	12.60	11.53	11.36	11.25	11.19	10.63	10.52	10.46
360.0	14.06	13.95	13.16	11.42	11.31	11.14	10.63	10.46	10.35

C/γ(°)	90.0
0.0	10.18
22.5	10.52
45.0	10.63
67.5	10.52
90.0	10.29
112.5	10.35
135.0	10.46
157.5	10.35
180.0	10.13
202.5	10.69
225.0	10.74
247.5	10.52
270.0	10.35
292.5	10.35
315.0	10.52
337.5	10.35
360.0	10.18