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Nata

LumCAT: 2-2323-M	
Luminaire: 92.70.131.00	
Report No: 210805-B009	Voltage(V): 34.4800
Test No: 210805-C009	Current(A): 0.5200
LampCAT: TRIDONIC SLE G7 15MM	Power (W): 17.9290
Lamp flux(lm): 2910.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 570	Width(mm): 45
Phm Type: C	Height(mm): 20

Photometric Results

Lumens(lm): 2538.30
Efficiency(%): 87.23%
Lumens(lm)/Power(W): 141.58
Central intensity(cd): 3046.801
Maximum intensity(cd): 5146.517
Angle of maximum intensity: C=90.0 γ =17.0
Beam Angle(50%Imax): [C0/180]Total=48.1
 [C90/270]Total=37.9
Field angle(10%Imax): [C0/180]Total=66.2
 [C90/270]Total=61.2
Maximum s/h(1/2): C0_180=0.68 C90_270=1.10
Maximum s/h(1/4): C0_180=0.69 C90_270=0.88
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 87.23%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.557%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3083.175	0.000	0	.000%	.000%
1.0	3091.018	2.954	2.954	.102%	.116%
2.0	3106.404	8.895	11.849	.306%	.467%
3.0	3129.483	14.914	26.764	.513%	1.054%
4.0	3155.812	21.039	47.802	.723%	1.883%
5.0	3183.298	27.271	75.073	.937%	2.958%
6.0	3213.025	33.614	108.687	1.155%	4.282%
7.0	3231.549	40.001	148.689	1.375%	5.858%
8.0	3250.931	46.394	195.083	1.594%	7.686%
9.0	3267.139	52.825	247.908	1.815%	9.767%
10.0	3280.434	59.253	307.161	2.036%	12.101%
11.0	3282.152	65.574	372.735	2.253%	14.684%
12.0	3263.965	71.558	444.293	2.459%	17.504%
13.0	3233.453	77.108	521.401	2.650%	20.541%
14.0	3177.547	82.060	603.462	2.820%	23.774%
15.0	3119.101	86.443	689.905	2.971%	27.180%
16.0	3042.282	90.282	780.186	3.102%	30.737%
17.0	2948.395	93.291	873.477	3.206%	34.412%
18.0	2862.873	95.815	969.292	3.293%	38.187%
19.0	2771.414	98.025	1067.317	3.369%	42.049%
20.0	2655.419	99.326	1166.644	3.413%	45.962%
21.0	2522.312	99.423	1266.066	3.417%	49.879%
22.0	2415.881	99.235	1365.302	3.410%	53.788%
23.0	2293.092	98.807	1464.109	3.395%	57.681%
24.0	2151.571	97.176	1561.285	3.339%	61.509%
25.0	2007.421	94.566	1655.851	3.250%	65.235%
26.0	1863.573	91.375	1747.226	3.140%	68.834%
27.0	1712.264	87.484	1834.71	3.006%	72.281%
28.0	1553.822	82.690	1917.401	2.842%	75.539%
29.0	1405.108	77.414	1994.814	2.660%	78.589%
30.0	1247.196	71.612	2066.426	2.461%	81.410%
31.0	1087.667	64.976	2131.402	2.233%	83.970%
32.0	918.746	57.481	2188.883	1.975%	86.234%
33.0	788.286	50.290	2239.173	1.728%	88.215%
34.0	653.260	43.625	2282.799	1.499%	89.934%
35.0	521.617	36.487	2319.286	1.254%	91.372%
36.0	396.621	29.237	2348.523	1.005%	92.523%
37.0	316.321	23.252	2371.775	.799%	93.439%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	239.710	18.560	2390.335	.638%	94.171%
39.0	176.469	14.205	2404.54	.488%	94.730%
40.0	132.196	10.765	2415.305	.370%	95.154%
41.0	103.462	8.392	2423.697	.288%	95.485%
42.0	77.828	6.587	2430.283	.226%	95.744%
43.0	61.755	5.171	2435.454	.178%	95.948%
44.0	50.947	4.254	2439.707	.146%	96.116%
45.0	42.496	3.591	2443.299	.123%	96.257%
46.0	35.859	3.064	2446.363	.105%	96.378%
47.0	32.218	2.708	2449.07	.093%	96.485%
48.0	29.204	2.483	2451.553	.085%	96.582%
49.0	26.825	2.301	2453.854	.079%	96.673%
50.0	25.533	2.183	2456.037	.075%	96.759%
51.0	24.402	2.113	2458.15	.073%	96.842%
52.0	23.662	2.062	2460.212	.071%	96.924%
53.0	23.057	2.032	2462.245	.070%	97.004%
54.0	22.497	2.008	2464.253	.069%	97.083%
55.0	22.101	1.991	2466.243	.068%	97.161%
56.0	21.847	1.986	2468.229	.068%	97.239%
57.0	21.664	1.989	2470.219	.068%	97.318%
58.0	21.623	2.002	2472.22	.069%	97.397%
59.0	21.593	2.020	2474.241	.069%	97.476%
60.0	21.560	2.039	2476.28	.070%	97.557%
61.0	21.567	2.058	2478.338	.071%	97.638%
62.0	21.612	2.081	2480.418	.071%	97.720%
63.0	21.608	2.102	2482.52	.072%	97.802%
64.0	21.601	2.120	2484.641	.073%	97.886%
65.0	21.634	2.140	2486.78	.074%	97.970%
66.0	21.758	2.165	2488.945	.074%	98.056%
67.0	21.877	2.194	2491.139	.075%	98.142%
68.0	21.997	2.222	2493.362	.076%	98.230%
69.0	22.071	2.248	2495.61	.077%	98.318%
70.0	22.307	2.279	2497.889	.078%	98.408%
71.0	22.404	2.311	2500.2	.079%	98.499%
72.0	22.553	2.338	2502.537	.080%	98.591%
73.0	22.781	2.371	2504.908	.081%	98.684%
74.0	22.949	2.404	2507.312	.083%	98.779%
75.0	23.188	2.438	2509.75	.084%	98.875%

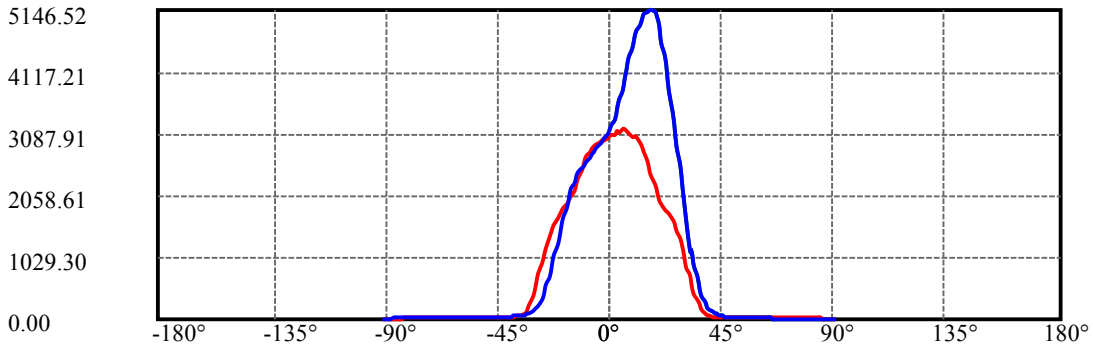
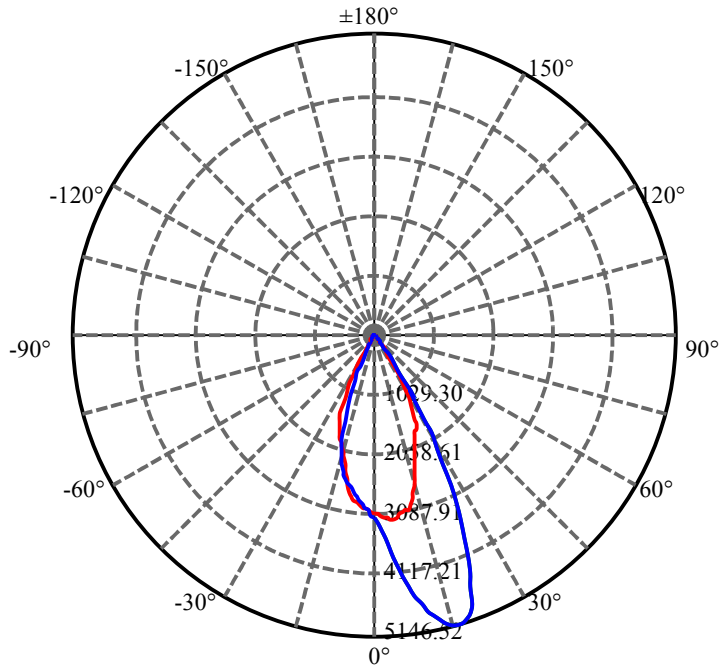
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	23.434	2.475	2512.225	.085%	98.973%
77.0	23.614	2.508	2514.733	.086%	99.072%
78.0	23.304	2.512	2517.245	.086%	99.170%
79.0	22.363	2.454	2519.698	.084%	99.267%
80.0	20.861	2.330	2522.029	.080%	99.359%
81.0	19.823	2.200	2524.229	.076%	99.446%
82.0	18.673	2.088	2526.316	.072%	99.528%
83.0	17.231	1.952	2528.268	.067%	99.605%
84.0	15.573	1.787	2530.055	.061%	99.675%
85.0	14.710	1.653	2531.708	.057%	99.740%
86.0	13.497	1.542	2533.25	.053%	99.801%
87.0	11.857	1.388	2534.637	.048%	99.856%
88.0	11.125	1.259	2535.896	.043%	99.905%
89.0	10.942	1.210	2537.106	.042%	99.953%
90.0	10.853	1.195	2538.301	.041%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2066.43	71.01%	81.41%
0-40	2415.31	83.00%	95.15%
0-60	2476.28	85.10%	97.56%
0-90	2537.11	87.19%	99.95%
0-120	2537.11	87.19%	99.95%
0-180	2538.30	87.23%	100.00%
60-90	62.87	2.16%	2.48%
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%
0-29.50	2030.64	69.78%	80.00%

ZONAL LUMEN SUMMARY

0-10	307.16
10-20	859.48
20-30	899.78
30-40	348.88
40-50	40.73
50-60	20.24
60-70	21.61
70-80	24.14
80-90	15.08
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



C90(Max): ———

C0/C180: ———

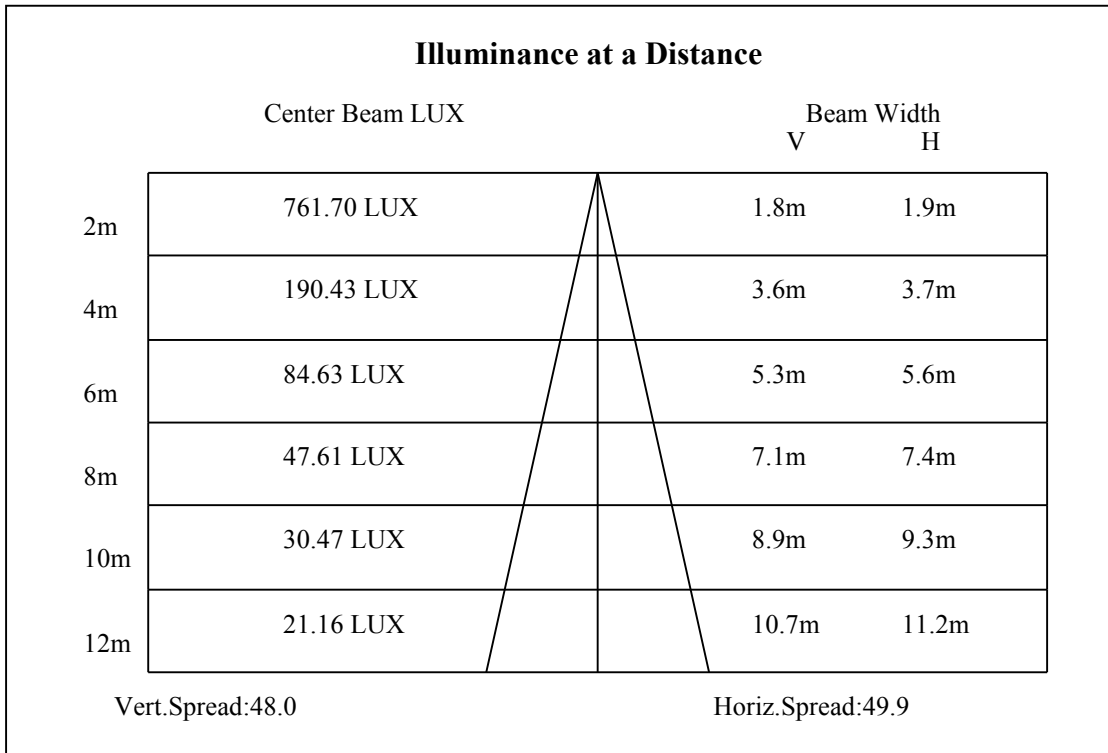
C90/C270: ———

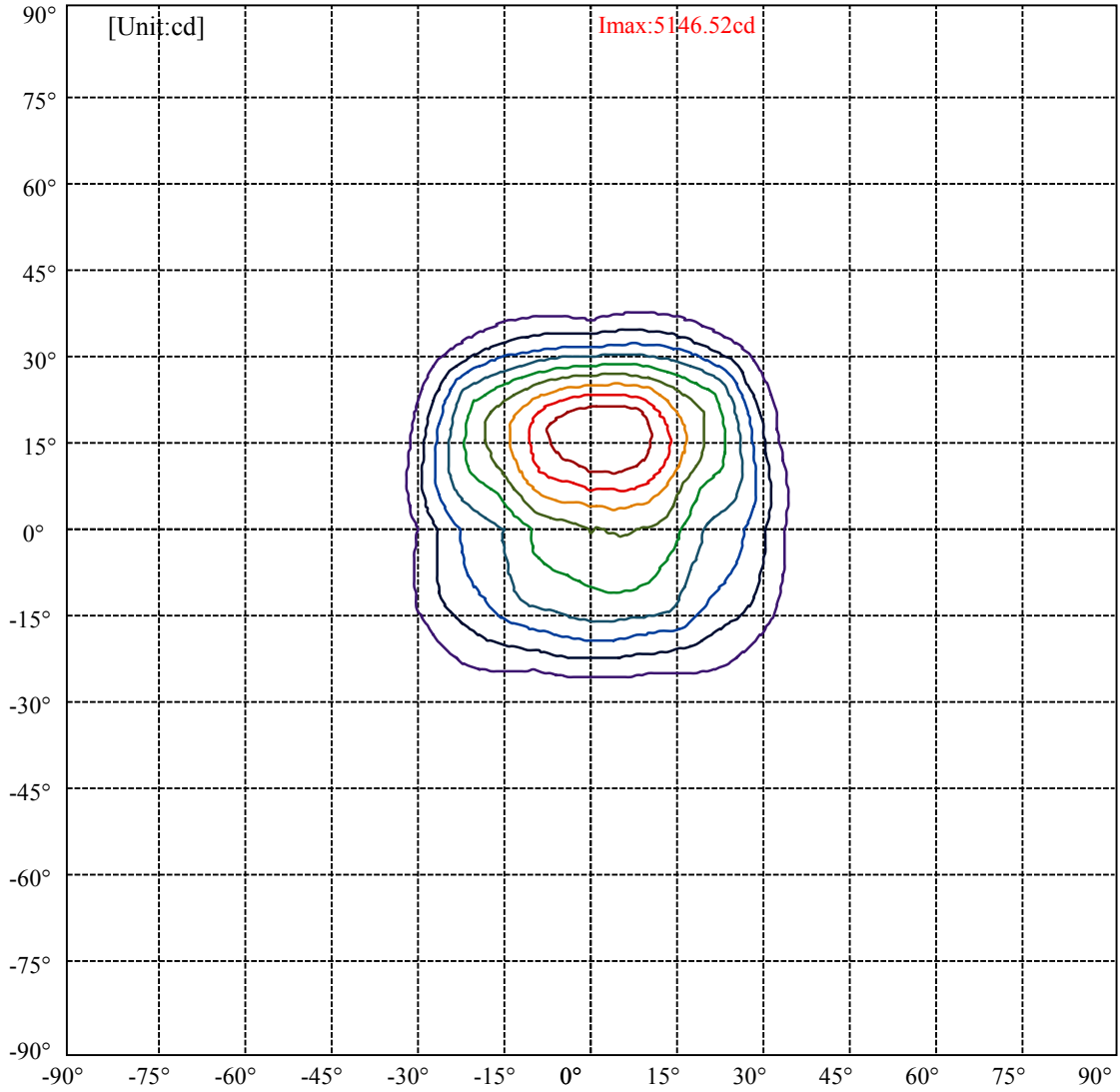
Field angle(10%Imax):C0/180Left:36.2 Right:30.0

:C90/270Left:42.3 Right:18.9

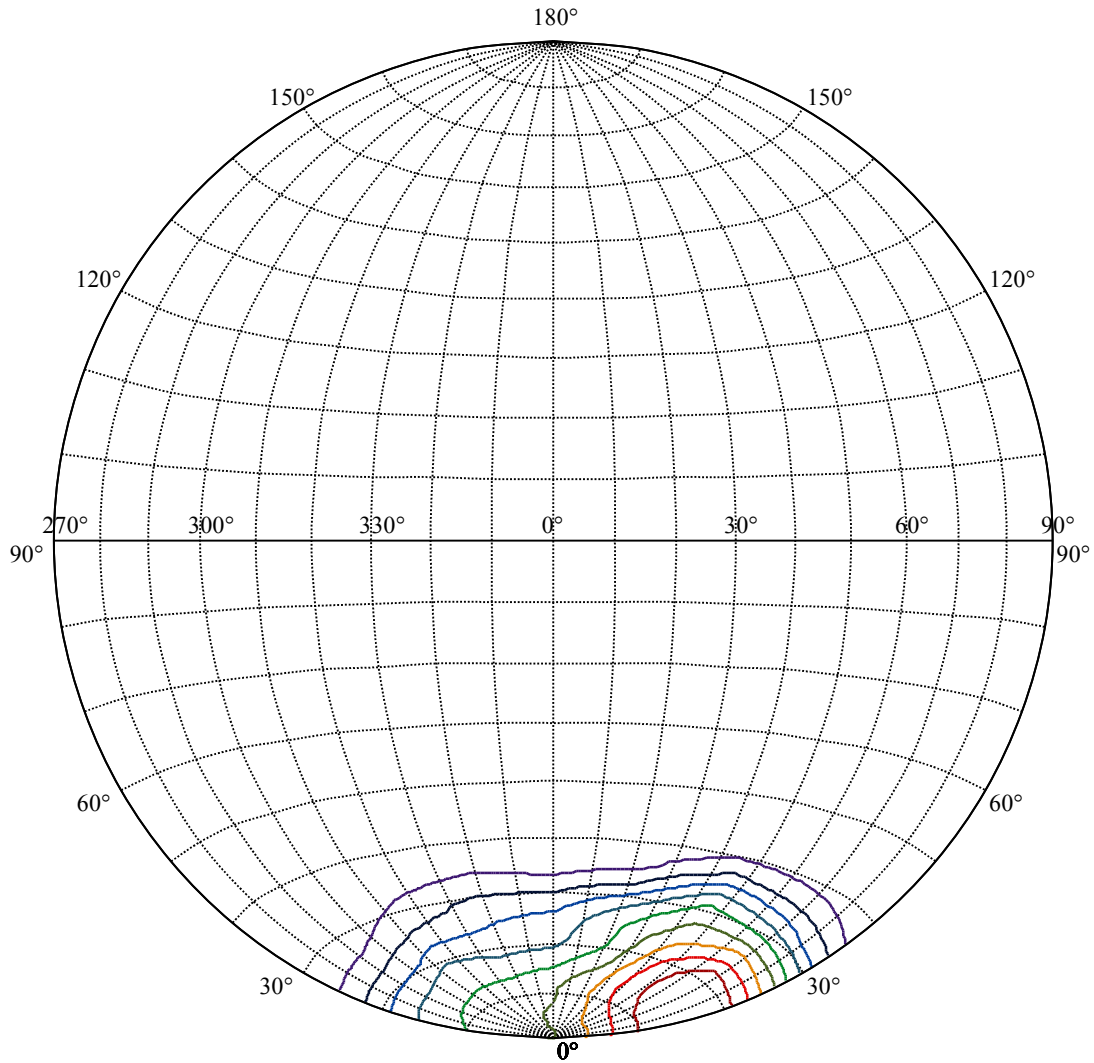
Beam Angle(50%Imax):C0/180Left:27.0 Right:21.1

:C90/270Left:27.0 Right:10.9





(10%Imax) 514.652	—
(20%Imax) 1029.3	—
(30%Imax) 1543.96	—
(40%Imax) 2058.61	—
(50%Imax) 2573.26	—
(60%Imax) 3087.91	—
(70%Imax) 3602.56	—
(80%Imax) 4117.21	—
(90%Imax) 4631.87	—



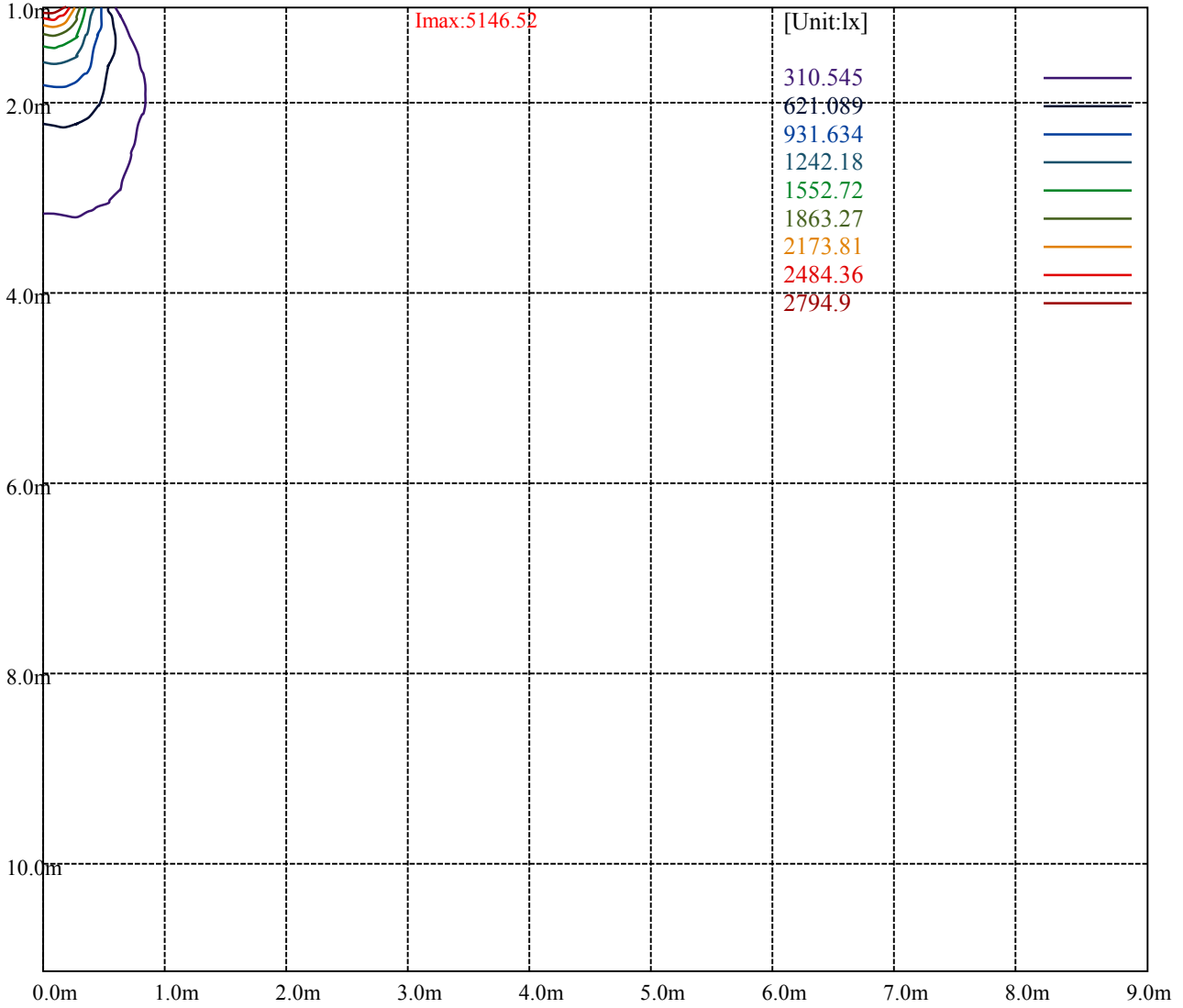
House

[Unit:cd]

Road

Imax:5146.52

(10%Imax) 514.652	—
(20%Imax) 1029.3	—
(30%Imax) 1543.96	—
(40%Imax) 2058.61	—
(50%Imax) 2573.26	—
(60%Imax) 3087.91	—
(70%Imax) 3602.56	—
(80%Imax) 4117.21	—
(90%Imax) 4631.87	—



Luminance Table

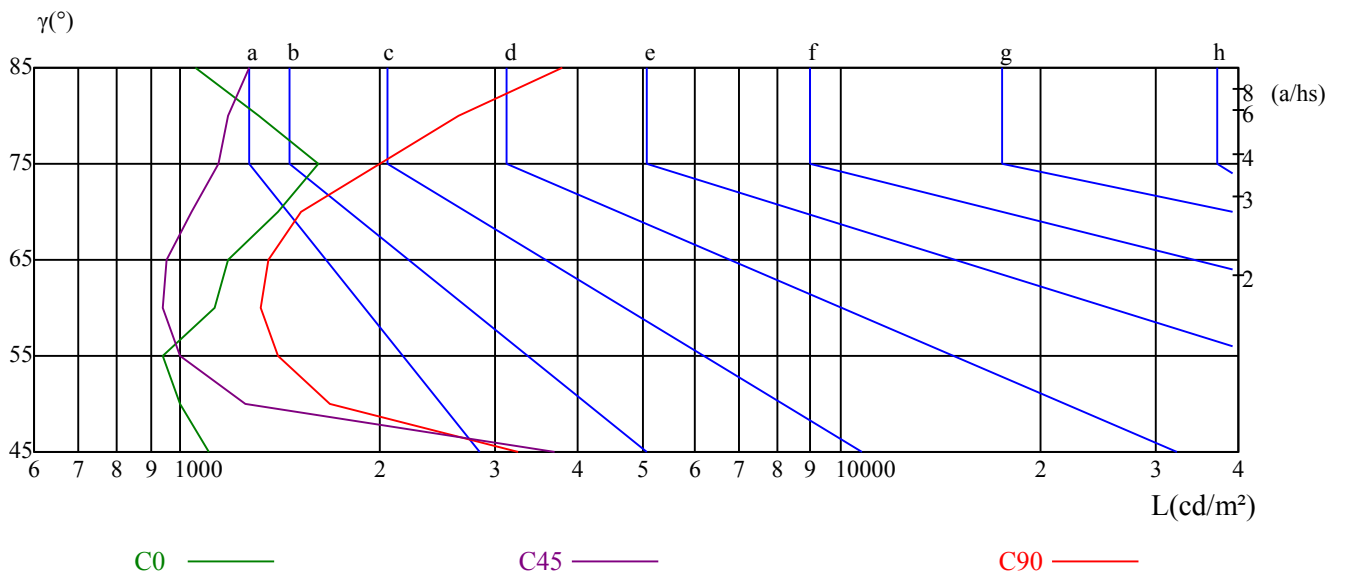
γ	45	50	55	60	65	70	75	80	85
C0	1102	997	942	1124	1180	1404	1622	1311	1051
C45	3690	1254	1002	939	951	1040	1144	1184	1266
C90	3246	1680	1404	1322	1359	1522	1998	2641	3796

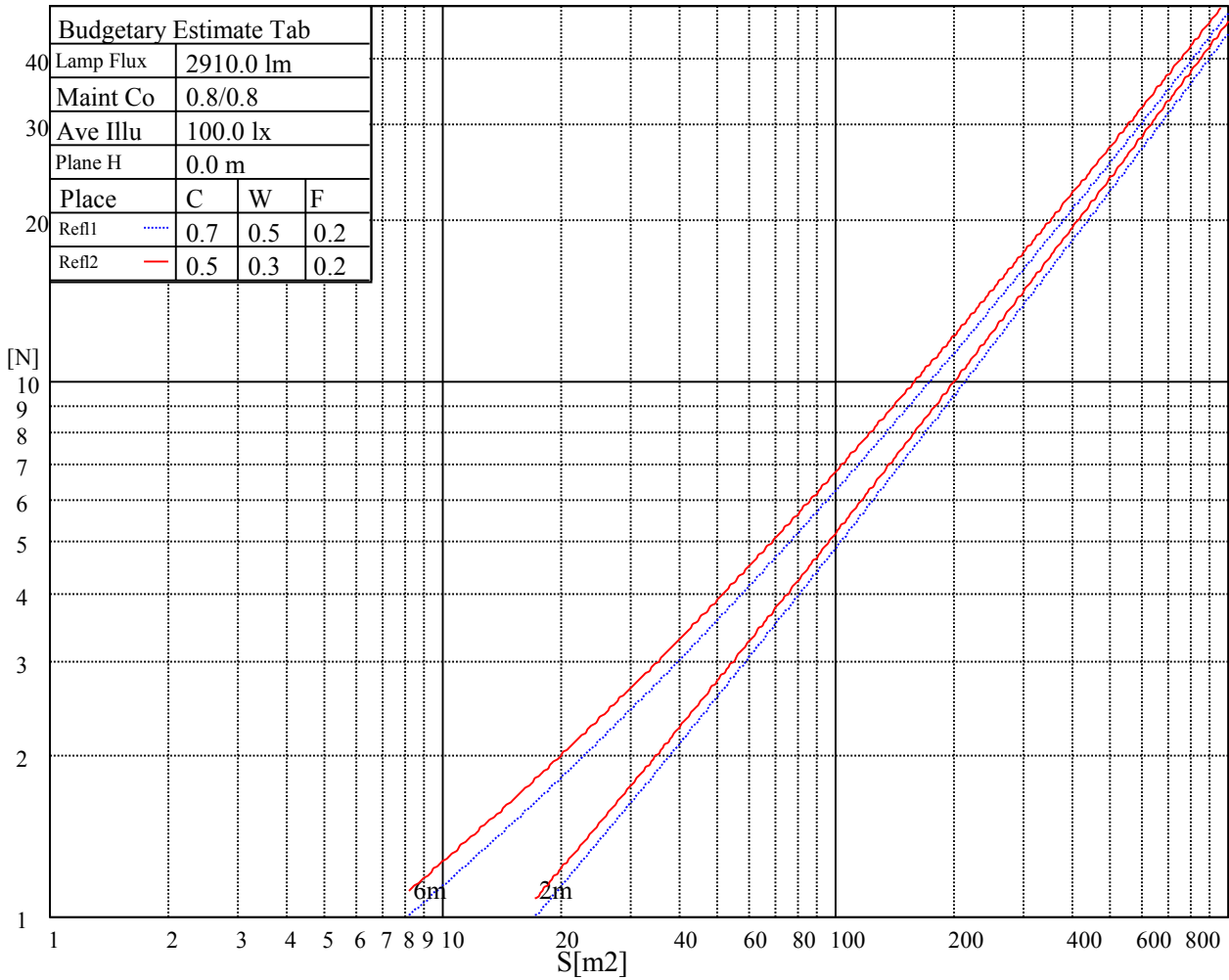
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2593	1607	1815	4617	2939	3101	5586	7003	6849

Glare Table

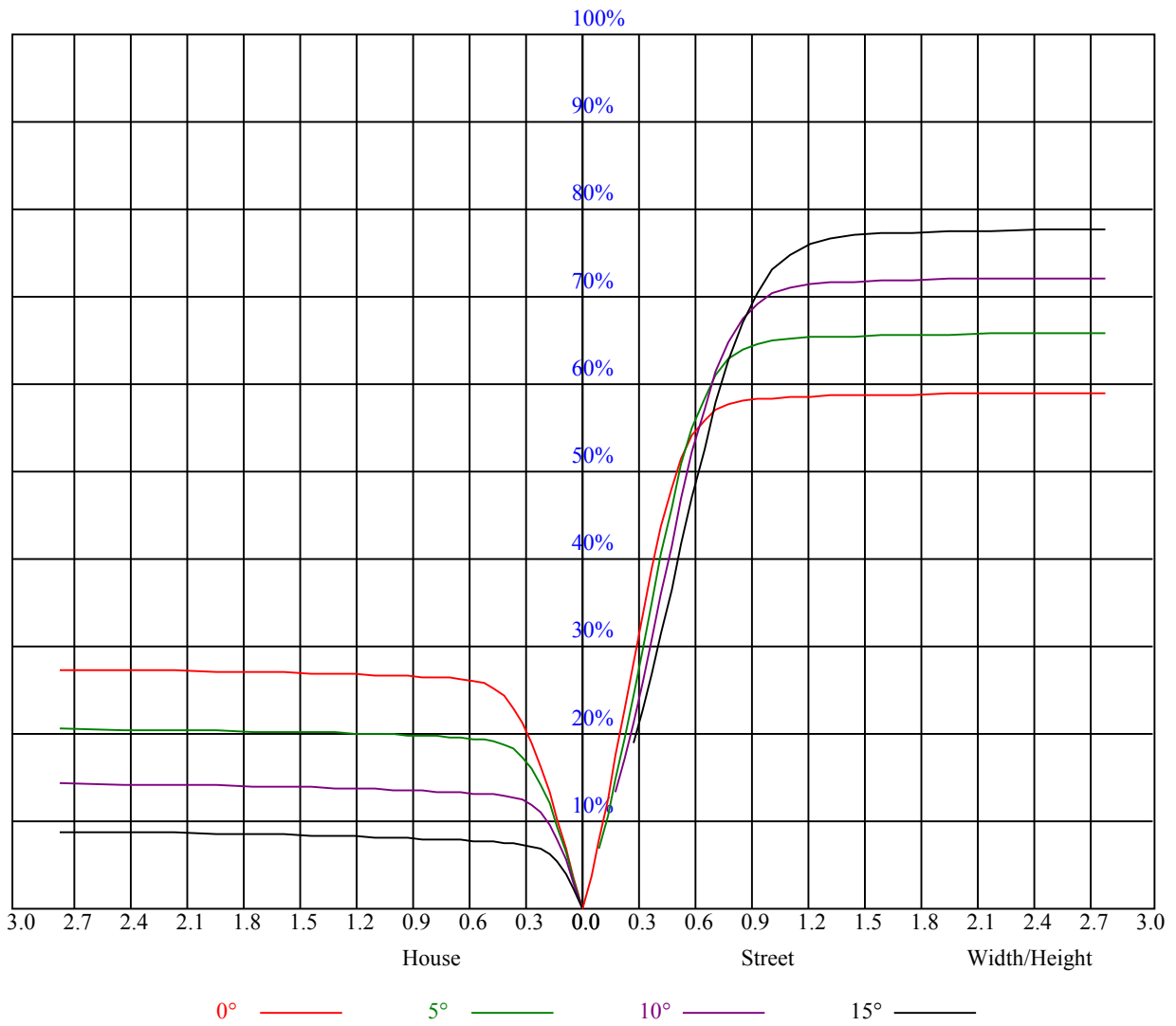
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.04	1.04	1.04	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.87
1	0.97	0.94	0.92	0.95	0.93	0.91	0.91	0.90	0.88	0.88	0.87	0.85	0.85	0.84	0.83	0.81
2	0.90	0.87	0.84	0.89	0.85	0.83	0.86	0.83	0.81	0.83	0.81	0.79	0.81	0.79	0.78	0.76
3	0.85	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.71
4	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.73	0.71	0.68	0.67
5	0.75	0.70	0.67	0.74	0.70	0.66	0.73	0.69	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.63
6	0.71	0.66	0.62	0.70	0.66	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.67	0.63	0.61	0.60
7	0.67	0.62	0.59	0.66	0.62	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.56
8	0.64	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.60	0.57	0.55	0.53
9	0.60	0.56	0.52	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.58	0.54	0.52	0.51
10	0.58	0.53	0.50	0.57	0.53	0.50	0.56	0.52	0.49	0.56	0.52	0.49	0.55	0.52	0.49	0.48



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	3046.80	3053.37	3079.07	3123.28	3115.52	3155.55	3150.77	3122.09	3091.02
22.5	3065.32	3121.49	3172.88	3229.05	3296.57	3336.60	3370.66	3389.18	3418.46
45.0	3124.48	3208.13	3288.20	3382.61	3506.90	3625.21	3771.60	3882.15	3980.14
67.5	3092.21	3165.11	3279.24	3411.29	3551.11	3700.50	3889.32	4054.23	4225.13
90.0	3128.06	3213.51	3335.41	3487.78	3632.98	3810.44	4006.43	4167.17	4344.04
112.5	3070.10	3143.00	3238.61	3345.56	3487.18	3605.49	3748.90	3884.54	4008.82
135.0	3086.24	3148.38	3200.37	3263.70	3349.75	3447.14	3567.25	3665.24	3745.31
157.5	3052.18	3078.47	3087.43	3089.22	3110.74	3144.80	3153.16	3193.79	3215.30
180.0	3046.80	3019.91	2984.66	2965.54	2942.83	2896.82	2883.67	2842.45	2795.84
202.5	3065.32	3024.69	2989.44	2938.05	2884.87	2845.43	2797.03	2734.29	2705.01
225.0	3124.48	3058.75	3001.99	2963.74	2906.38	2828.10	2784.49	2725.33	2681.11
247.5	3092.21	3018.72	2964.34	2910.56	2857.98	2817.35	2746.84	2671.55	2615.98
270.0	3128.06	3066.52	2999.60	2954.18	2899.21	2844.84	2784.49	2734.29	2673.94
292.5	3070.10	3033.65	2991.23	2941.04	2913.55	2877.10	2810.18	2768.35	2733.10
315.0	3086.24	3049.79	3027.08	3015.13	2992.43	2947.61	2929.68	2903.39	2866.35
337.5	3052.18	3052.78	3062.93	3050.98	3045.01	3049.79	3013.94	2966.73	2915.34
360.0	3046.80	3053.37	3079.07	3123.28	3115.52	3155.55	3150.77	3122.09	3091.02
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3049.79	3031.26	3024.09	2946.42	2865.75	2769.55	2635.10	2477.36	2364.42
22.5	3471.05	3521.84	3512.87	3475.83	3422.05	3322.86	3229.05	3109.54	2964.94
45.0	4072.16	4167.17	4253.21	4326.71	4406.78	4404.98	4404.39	4388.25	4333.88
67.5	4437.85	4590.82	4716.30	4839.39	4949.93	5021.04	5094.53	5133.37	5141.74
90.0	4499.99	4654.75	4795.17	4897.35	4978.61	5074.81	5116.64	5139.94	5146.52
112.5	4150.44	4286.08	4404.98	4499.39	4624.28	4670.88	4721.67	4756.33	4752.75
135.0	3836.73	3918.00	3983.73	4007.03	4041.69	3998.66	3950.26	3885.13	3791.92
157.5	3226.06	3246.38	3187.22	3104.76	2999.00	2893.24	2808.39	2707.40	2645.26
180.0	2725.93	2605.23	2490.50	2381.15	2256.27	2130.79	2055.50	1979.61	1909.11
202.5	2661.99	2604.03	2546.07	2458.83	2323.79	2199.50	2100.31	2001.72	1867.28
225.0	2598.06	2556.83	2513.21	2479.15	2414.02	2372.79	2307.66	2199.50	2083.58
247.5	2564.00	2501.85	2463.01	2412.82	2331.56	2185.76	2072.23	1960.49	1808.72
270.0	2615.38	2571.17	2516.79	2460.62	2382.35	2278.98	2162.46	2016.66	1855.33
292.5	2694.86	2650.64	2617.77	2562.80	2503.65	2415.21	2292.12	2154.69	1983.80
315.0	2811.37	2754.61	2698.44	2637.49	2586.11	2547.86	2509.02	2440.31	2349.48
337.5	2858.58	2826.31	2791.06	2733.70	2649.44	2553.84	2446.28	2326.18	2175.60
360.0	3049.79	3031.26	3024.09	2946.42	2865.75	2769.55	2635.10	2477.36	2364.42
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2240.73	2105.69	1983.20	1903.73	1837.40	1793.18	1744.78	1677.26	1598.39
22.5	2846.63	2749.83	2654.82	2624.35	2598.65	2572.96	2553.84	2496.48	2384.74
45.0	4256.20	4181.51	4066.78	3940.70	3791.92	3652.69	3503.31	3365.28	3263.70
67.5	5130.38	5112.46	5011.48	4853.73	4669.09	4432.47	4109.80	3880.95	3661.66
90.0	5115.45	5032.99	4877.03	4609.34	4370.33	4113.99	3793.11	3462.68	3193.19
112.5	4744.38	4665.51	4532.26	4379.89	4163.58	3973.57	3713.64	3463.88	3206.34
135.0	3709.46	3647.32	3561.27	3483.59	3429.22	3352.74	3286.41	3185.43	3072.49
157.5	2607.62	2586.70	2569.37	2547.86	2520.38	2476.76	2393.70	2283.16	2138.56
180.0	1860.11	1789.60	1734.63	1667.11	1573.89	1477.09	1366.55	1190.04	1070.59
202.5	1814.70	1760.32	1689.21	1633.05	1573.29	1500.40	1426.90	1355.20	1175.82
225.0	1960.49	1832.02	1699.97	1585.84	1443.03	1345.04	1230.31	1114.39	1016.40
247.5	1680.85	1550.59	1409.57	1182.87	1112.96	953.66	804.09	638.58	493.80
270.0	1700.57	1544.61	1349.22	1199.84	1051.05	860.44	690.15	564.07	409.31
292.5	1821.27	1673.68	1516.53	1189.80	1171.34	1018.79	879.44	702.28	572.37
315.0	2230.58	2121.23	1964.08	1808.72	1671.29	1551.78	1371.93	1229.12	1112.60
337.5	2086.57	1988.58	1867.28	1746.58	1676.67	1613.93	1557.16	1509.96	1447.22
360.0	2240.73	2105.69	1983.20	1903.73	1837.40	1793.18	1744.78	1677.26	1598.39

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	1459.76	1333.09	1207.01	1043.88	876.58	724.80	555.10	424.84	317.89
22.5	2262.84	2114.66	1880.42	1659.34	1430.48	1156.22	936.33	742.13	538.97
45.0	3174.67	3052.78	2926.70	2783.89	2609.41	2406.25	2174.41	1881.62	1609.15
67.5	3290.59	3021.11	2781.50	2454.05	2159.47	1943.16	1645.59	1420.92	1212.98
90.0	2879.49	2542.49	2240.14	1940.77	1677.86	1159.03	1130.82	905.61	700.66
112.5	2933.87	2647.05	2384.14	2115.85	1806.93	1582.85	1400.61	1178.92	984.73
135.0	2951.79	2810.78	2633.31	2476.76	2297.50	2030.40	1795.57	1538.04	1175.40
157.5	1972.44	1803.34	1571.50	1337.87	1080.33	832.96	632.19	472.05	311.91
180.0	928.26	763.64	597.47	462.85	336.41	208.84	140.60	95.31	68.18
202.5	1163.21	1050.28	936.03	809.41	678.14	562.81	439.54	334.44	230.17
225.0	910.63	812.04	717.63	639.36	533.00	458.90	397.36	310.72	261.66
247.5	389.23	293.69	221.62	171.85	131.28	91.96	74.03	63.82	49.12
270.0	307.13	236.32	184.22	143.88	112.93	98.71	87.54	74.69	62.20
292.5	455.08	336.71	264.05	209.55	157.93	118.73	99.31	89.93	75.89
315.0	952.46	854.47	769.62	662.66	579.60	517.46	430.82	364.49	308.92
337.5	1364.76	1188.72	1166.38	1043.17	934.83	806.84	672.76	554.63	438.05
360.0	1459.76	1333.09	1207.01	1043.88	876.58	724.80	555.10	424.84	317.89
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	257.71	156.91	99.49	62.38	50.01	45.23	38.78	33.22	29.88
22.5	391.38	310.12	162.41	103.49	74.93	60.05	50.67	43.92	36.99
45.0	1183.47	1074.36	868.51	642.28	465.30	356.25	268.17	186.67	133.37
67.5	975.76	801.29	653.10	492.36	374.05	301.75	190.01	144.06	124.23
90.0	495.77	381.64	292.79	206.57	155.54	136.77	103.43	88.02	74.03
112.5	828.77	658.48	519.85	406.32	303.54	218.22	161.63	131.81	103.19
135.0	965.25	753.96	567.06	415.04	307.79	214.15	150.22	99.97	66.80
157.5	170.06	118.55	84.31	69.73	55.15	47.38	40.39	37.05	35.31
180.0	55.63	49.48	40.81	34.36	32.74	30.89	29.70	28.62	27.49
202.5	149.32	97.88	65.73	52.58	44.93	39.14	32.57	30.47	29.52
225.0	177.65	120.88	78.16	53.60	39.38	34.42	30.59	27.96	26.65
247.5	39.68	32.80	29.10	26.29	24.80	23.90	23.18	22.53	21.99
270.0	59.04	56.17	50.85	43.26	37.23	31.85	28.26	26.71	25.34
292.5	63.10	49.95	43.26	37.52	31.67	28.08	25.39	23.48	22.53
315.0	221.38	165.93	110.01	70.15	48.82	38.90	32.57	27.79	26.05
337.5	311.97	232.74	169.94	107.56	69.25	48.40	39.68	35.79	31.79
360.0	257.71	156.91	99.49	62.38	50.01	45.23	38.78	33.22	29.88
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	28.86	27.90	27.07	26.65	25.63	25.16	24.14	23.66	23.30
22.5	34.90	33.46	32.33	31.13	30.23	28.98	28.08	27.25	26.53
45.0	89.63	54.61	41.47	36.33	32.33	29.04	25.93	24.92	24.56
67.5	94.29	77.44	65.61	52.70	37.05	32.74	28.44	26.35	23.84
90.0	60.95	42.90	37.52	33.22	31.37	28.86	26.41	25.16	23.90
112.5	86.88	68.95	55.27	39.32	32.57	29.28	27.13	24.92	23.12
135.0	49.71	41.05	34.18	30.18	26.89	25.39	24.26	23.30	22.29
157.5	33.52	31.73	30.12	28.86	27.79	26.77	25.63	24.74	24.14
180.0	26.77	26.05	25.51	24.98	24.50	24.44	24.56	24.56	24.92
202.5	28.68	28.14	27.67	27.25	26.95	26.53	26.11	25.87	25.87
225.0	26.11	25.51	25.28	24.68	24.26	23.90	23.78	23.54	22.95
247.5	21.57	21.15	20.73	20.44	20.20	19.96	19.78	19.60	19.48
270.0	24.62	23.84	23.12	22.77	22.17	21.51	21.03	20.67	20.26
292.5	21.81	21.27	20.85	20.61	20.26	20.02	19.78	19.54	19.48
315.0	24.98	23.90	23.42	23.42	22.83	22.35	22.41	21.87	21.99
337.5	26.65	25.81	25.34	24.74	24.20	23.60	22.95	22.65	22.29
360.0	28.86	27.90	27.07	26.65	25.63	25.16	24.14	23.66	23.30

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	22.95	22.65	22.53	22.95	23.78	24.68	25.51	25.63	25.93
22.5	26.11	25.51	24.44	23.78	23.60	23.96	24.08	24.38	24.62
45.0	23.18	21.87	21.21	20.50	19.90	19.48	19.12	18.70	18.46
67.5	22.17	20.97	20.14	19.30	18.70	18.40	17.93	17.69	17.33
90.0	22.47	21.69	21.15	20.14	19.84	18.82	17.99	17.15	16.73
112.5	21.81	20.79	20.02	19.30	18.64	18.05	17.39	16.79	16.31
135.0	21.69	21.09	20.32	19.84	19.48	19.06	18.76	18.58	18.40
157.5	23.90	23.72	23.72	24.14	24.62	25.28	25.69	25.99	26.05
180.0	25.75	26.95	28.32	28.80	28.74	28.08	27.90	28.92	30.53
202.5	25.87	25.93	26.35	27.31	28.38	29.22	29.28	29.22	29.16
225.0	22.29	22.05	21.81	21.51	21.33	21.33	21.39	21.63	21.69
247.5	19.36	19.24	19.12	19.12	19.06	19.00	19.00	18.94	18.82
270.0	20.02	19.78	19.60	19.42	19.30	19.24	19.18	19.06	18.94
292.5	19.30	19.24	19.18	19.18	19.12	19.12	19.06	19.06	19.00
315.0	21.21	20.55	20.38	20.26	20.20	19.84	20.02	19.90	19.78
337.5	21.87	21.57	21.27	21.09	21.27	21.93	22.65	23.42	24.02
360.0	22.95	22.65	22.53	22.95	23.78	24.68	25.51	25.63	25.93
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	25.45	24.98	24.98	25.57	26.29	27.01	27.13	27.37	27.67
22.5	24.50	24.50	24.68	25.04	25.28	25.45	25.45	25.87	26.53
45.0	18.28	17.99	17.81	17.69	17.57	17.57	17.45	17.63	17.69
67.5	16.97	16.49	16.13	15.89	15.77	15.77	15.60	15.42	15.24
90.0	16.37	16.13	15.83	15.60	15.30	14.94	14.76	14.64	14.52
112.5	15.95	15.60	15.30	15.12	14.88	14.64	14.46	14.34	14.16
135.0	18.34	18.28	18.34	18.40	18.52	18.46	18.28	18.28	18.40
157.5	26.17	26.59	27.13	27.61	27.73	27.73	27.67	27.79	27.31
180.0	30.83	31.01	31.25	31.49	31.49	31.67	31.91	32.74	33.04
202.5	29.94	30.59	30.77	30.77	31.25	31.67	32.09	32.92	32.63
225.0	22.05	22.53	23.06	23.36	23.54	23.72	23.90	24.14	23.84
247.5	18.76	18.82	18.76	18.76	18.82	18.88	18.94	18.94	19.06
270.0	18.94	19.00	19.00	19.06	18.82	18.58	18.64	19.18	19.60
292.5	19.00	19.00	19.00	19.06	19.12	19.12	19.12	19.24	19.42
315.0	19.66	19.66	19.48	19.66	20.02	20.61	21.27	21.33	21.93
337.5	24.50	24.44	24.62	25.04	25.63	26.11	26.47	27.07	27.43
360.0	25.45	24.98	24.98	25.57	26.29	27.01	27.13	27.37	27.67
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	28.26	28.56	28.20	28.62	28.86	29.16	28.68	25.69	20.55
22.5	26.47	26.71	26.47	26.35	26.05	25.93	25.28	24.02	22.35
45.0	17.69	17.69	17.39	17.21	17.03	16.79	16.31	15.95	15.42
67.5	15.12	14.88	14.88	14.82	15.00	14.94	15.24	14.94	14.28
90.0	14.52	14.64	14.88	15.00	15.00	14.88	14.58	14.28	14.10
112.5	14.04	13.86	13.62	13.56	13.56	13.44	13.21	13.09	12.97
135.0	17.93	17.87	17.39	17.27	16.49	15.95	15.36	14.64	14.34
157.5	27.61	27.31	27.67	26.59	25.81	24.98	22.95	21.09	18.94
180.0	33.04	33.10	33.16	32.68	32.27	31.25	29.58	25.34	17.51
202.5	33.28	33.46	33.52	33.64	33.88	33.46	33.40	32.57	30.77
225.0	24.02	24.38	24.38	24.74	24.80	24.50	23.66	22.83	21.27
247.5	19.30	19.96	21.03	22.65	23.90	26.17	26.89	27.55	27.25
270.0	20.26	21.57	22.65	24.02	26.11	27.90	29.16	30.59	32.03
292.5	19.66	20.38	21.27	22.35	24.08	25.57	27.19	28.50	28.80
315.0	21.93	22.11	22.59	23.12	23.42	23.96	24.08	24.32	23.78
337.5	27.73	28.02	28.08	28.38	28.68	28.92	27.31	22.41	19.42
360.0	28.26	28.56	28.20	28.62	28.86	29.16	28.68	25.69	20.55

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	18.22	17.45	17.09	16.25	14.28	13.98	13.92	11.35	10.99
22.5	20.61	18.52	16.19	15.54	15.30	13.27	12.73	12.37	12.07
45.0	15.12	15.00	14.88	14.76	13.80	12.37	12.07	11.77	11.65
67.5	14.04	13.74	13.56	13.38	12.67	11.71	11.53	11.35	11.23
90.0	13.74	13.56	13.32	13.03	11.89	11.29	11.05	10.88	10.76
112.5	12.91	12.91	12.85	12.79	11.41	11.17	10.99	10.88	10.70
135.0	14.28	14.22	14.22	11.77	11.17	10.93	10.76	10.70	10.46
157.5	16.01	15.60	15.42	13.68	11.17	10.82	10.64	10.34	10.34
180.0	16.13	16.19	15.72	11.17	10.70	10.52	10.34	10.28	10.22
202.5	24.92	16.85	15.54	15.12	14.88	12.31	12.07	11.71	11.71
225.0	19.42	17.93	17.99	18.22	18.34	12.49	11.83	11.53	11.41
247.5	26.53	23.48	17.63	17.45	17.93	11.89	11.29	10.99	10.93
270.0	33.40	32.39	24.32	19.24	19.42	20.08	11.53	10.93	10.76
292.5	28.86	28.14	24.62	19.54	19.66	20.50	11.29	10.82	10.58
315.0	23.84	23.48	23.36	20.79	17.93	17.99	15.48	11.11	10.70
337.5	19.12	19.30	19.00	16.43	14.82	14.64	12.19	10.99	10.58
360.0	18.22	17.45	17.09	16.25	14.28	13.98	13.92	11.35	10.99
C/γ(°)	90.0								
0.0	10.52								
22.5	11.89								
45.0	11.59								
67.5	11.11								
90.0	10.70								
112.5	10.58								
135.0	10.46								
157.5	10.28								
180.0	10.16								
202.5	11.71								
225.0	11.41								
247.5	10.99								
270.0	10.76								
292.5	10.58								
315.0	10.52								
337.5	10.40								
360.0	10.52								