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Nata

LumCAT: 2-2322-M
Luminaire: 92.70.131.00
Report No: 210805-B008
Test No: 210805-C008
LampCAT: TRIDONIC SLE G7 15MM
Lamp flux(lm): 2910.0
Number of Lamps: 1
Length(mm): 570
Phm Type: C

Voltage(V): 34.4800
Current(A): 0.5200
Power (W): 17.9290
PF: 0.0000
Ballast type: DC
Width(mm): 45
Height(mm): 20

Photometric Results

Lumens(lm): 2802.66
Efficiency(%): 96.31%
Lumens(lm)/Power(W): 156.32
Central intensity(cd): 2840.055
Maximum intensity(cd): 3870.195
Angle of maximum intensity: C=180.0 γ =20.0
Beam Angle(50%Imax): [C0/180]Total=67.1
[C90/270]Total=41.3
Field angle(10%Imax): [C0/180]Total=79.8
[C90/270]Total=65.1
Maximum s/h(1/2): C0_180=1.24 C90_270=0.60
Maximum s/h(1/4): C0_180=1.01 C90_270=0.65
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 96.31%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.284%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2862.836	0.000	0	.000%	.000%
1.0	2866.347	2.741	2.741	.094%	.098%
2.0	2877.438	8.244	10.985	.283%	.392%
3.0	2885.468	13.783	24.768	.474%	.884%
4.0	2899.435	19.364	44.132	.665%	1.575%
5.0	2914.784	25.012	69.145	.860%	2.467%
6.0	2928.378	30.707	99.852	1.055%	3.563%
7.0	2943.391	36.446	136.298	1.252%	4.863%
8.0	2953.399	42.202	178.5	1.450%	6.369%
9.0	2962.511	47.945	226.445	1.648%	8.080%
10.0	2964.864	53.641	280.086	1.843%	9.994%
11.0	2960.159	59.203	339.289	2.035%	12.106%
12.0	2944.212	64.543	403.832	2.218%	14.409%
13.0	2924.382	69.645	473.478	2.393%	16.894%
14.0	2894.991	74.487	547.965	2.560%	19.552%
15.0	2856.226	78.955	626.921	2.713%	22.369%
16.0	2807.117	82.984	709.904	2.852%	25.330%
17.0	2743.592	86.439	796.344	2.970%	28.414%
18.0	2681.113	89.442	885.785	3.074%	31.605%
19.0	2614.750	92.137	977.923	3.166%	34.893%
20.0	2546.295	94.461	1072.384	3.246%	38.263%
21.0	2473.322	96.387	1168.771	3.312%	41.702%
22.0	2395.707	97.845	1266.616	3.362%	45.193%
23.0	2327.626	99.108	1365.724	3.406%	48.730%
24.0	2241.216	99.891	1465.616	3.433%	52.294%
25.0	2151.388	99.878	1565.494	3.432%	55.857%
26.0	2064.478	99.516	1665.01	3.420%	59.408%
27.0	1960.702	98.477	1763.487	3.384%	62.922%
28.0	1849.830	96.475	1859.961	3.315%	66.364%
29.0	1738.503	93.881	1953.842	3.226%	69.714%
30.0	1616.260	90.578	2044.42	3.113%	72.946%
31.0	1489.834	86.438	2130.858	2.970%	76.030%
32.0	1348.780	81.323	2212.181	2.795%	78.931%
33.0	1222.193	75.742	2287.923	2.603%	81.634%
34.0	1107.255	70.496	2358.419	2.423%	84.149%
35.0	962.167	64.269	2422.688	2.209%	86.442%
36.0	825.882	56.932	2479.619	1.956%	88.474%
37.0	713.954	50.221	2529.84	1.726%	90.266%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	596.420	43.739	2573.579	1.503%	91.826%
39.0	484.932	36.910	2610.488	1.268%	93.143%
40.0	384.547	30.324	2640.813	1.042%	94.225%
41.0	307.223	24.634	2665.446	.847%	95.104%
42.0	217.164	19.052	2684.498	.655%	95.784%
43.0	149.401	13.579	2698.077	.467%	96.268%
44.0	111.955	9.864	2707.941	.339%	96.620%
45.0	77.828	7.294	2715.235	.251%	96.881%
46.0	64.190	5.554	2720.789	.191%	97.079%
47.0	48.370	4.477	2725.265	.154%	97.238%
48.0	39.982	3.572	2728.837	.123%	97.366%
49.0	33.570	3.020	2731.858	.104%	97.474%
50.0	29.316	2.622	2734.48	.090%	97.567%
51.0	26.870	2.377	2736.857	.082%	97.652%
52.0	25.219	2.235	2739.092	.077%	97.732%
53.0	23.808	2.133	2741.225	.073%	97.808%
54.0	22.702	2.050	2743.275	.070%	97.881%
55.0	21.821	1.987	2745.262	.068%	97.952%
56.0	21.040	1.937	2747.199	.067%	98.021%
57.0	20.335	1.892	2749.091	.065%	98.089%
58.0	19.771	1.855	2750.945	.064%	98.155%
59.0	19.237	1.824	2752.769	.063%	98.220%
60.0	18.777	1.796	2754.565	.062%	98.284%
61.0	18.344	1.772	2756.336	.061%	98.347%
62.0	17.922	1.748	2758.084	.060%	98.409%
63.0	17.694	1.732	2759.816	.060%	98.471%
64.0	17.519	1.728	2761.544	.059%	98.533%
65.0	17.381	1.727	2763.271	.059%	98.594%
66.0	17.328	1.732	2765.003	.060%	98.656%
67.0	17.160	1.734	2766.737	.060%	98.718%
68.0	16.977	1.729	2768.466	.059%	98.780%
69.0	16.906	1.729	2770.195	.059%	98.842%
70.0	16.761	1.729	2771.924	.059%	98.903%
71.0	16.537	1.721	2773.645	.059%	98.965%
72.0	16.425	1.714	2775.359	.059%	99.026%
73.0	16.230	1.708	2777.066	.059%	99.087%
74.0	16.036	1.696	2778.763	.058%	99.147%
75.0	15.849	1.685	2780.447	.058%	99.207%

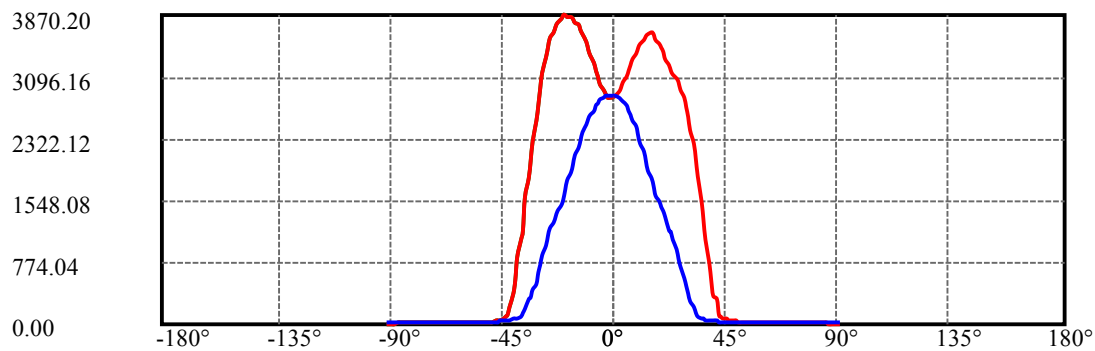
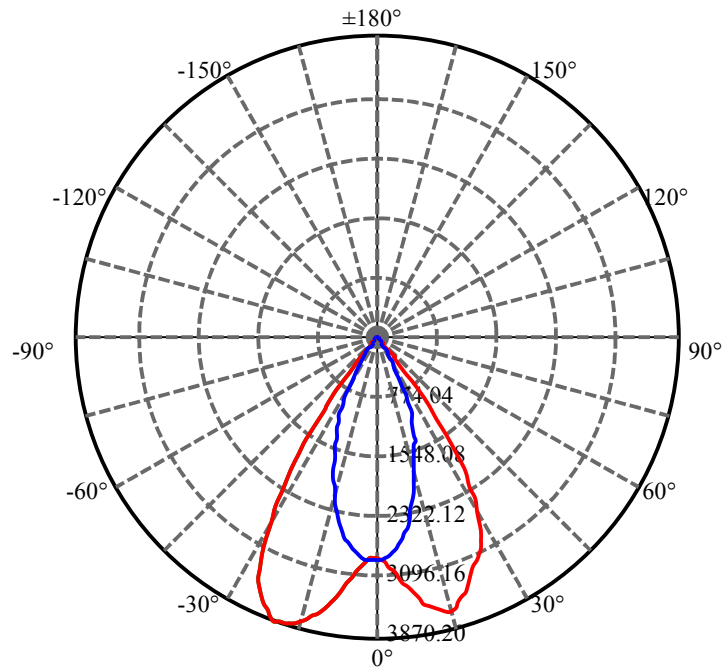
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.666	1.673	2782.12	.057%	99.267%
77.0	15.420	1.657	2783.778	.057%	99.326%
78.0	15.188	1.638	2785.416	.056%	99.385%
79.0	14.785	1.610	2787.027	.055%	99.442%
80.0	14.531	1.581	2788.607	.054%	99.498%
81.0	14.146	1.551	2790.158	.053%	99.554%
82.0	13.807	1.516	2791.674	.052%	99.608%
83.0	13.493	1.484	2793.158	.051%	99.661%
84.0	13.142	1.451	2794.609	.050%	99.713%
85.0	12.791	1.415	2796.024	.049%	99.763%
86.0	12.458	1.380	2797.405	.047%	99.812%
87.0	12.134	1.346	2798.75	.046%	99.860%
88.0	11.947	1.319	2800.07	.045%	99.907%
89.0	11.824	1.303	2801.372	.045%	99.954%
90.0	11.715	1.291	2802.663	.044%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2044.42	70.26%	72.95%
0-40	2640.81	90.75%	94.23%
0-60	2754.56	94.66%	98.28%
0-90	2801.37	96.27%	99.95%
0-120	2801.37	96.27%	99.95%
0-180	2802.66	96.31%	100.00%
60-90	48.60	1.67%	1.73%
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%
0-32.40	2242.13	77.05%	80.00%

ZONAL LUMEN SUMMARY

0-10	280.09
10-20	792.30
20-30	972.04
30-40	596.39
40-50	93.67
50-60	20.09
60-70	17.36
70-80	16.68
80-90	12.77
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



C180(Max): —————

C0/C180: —————

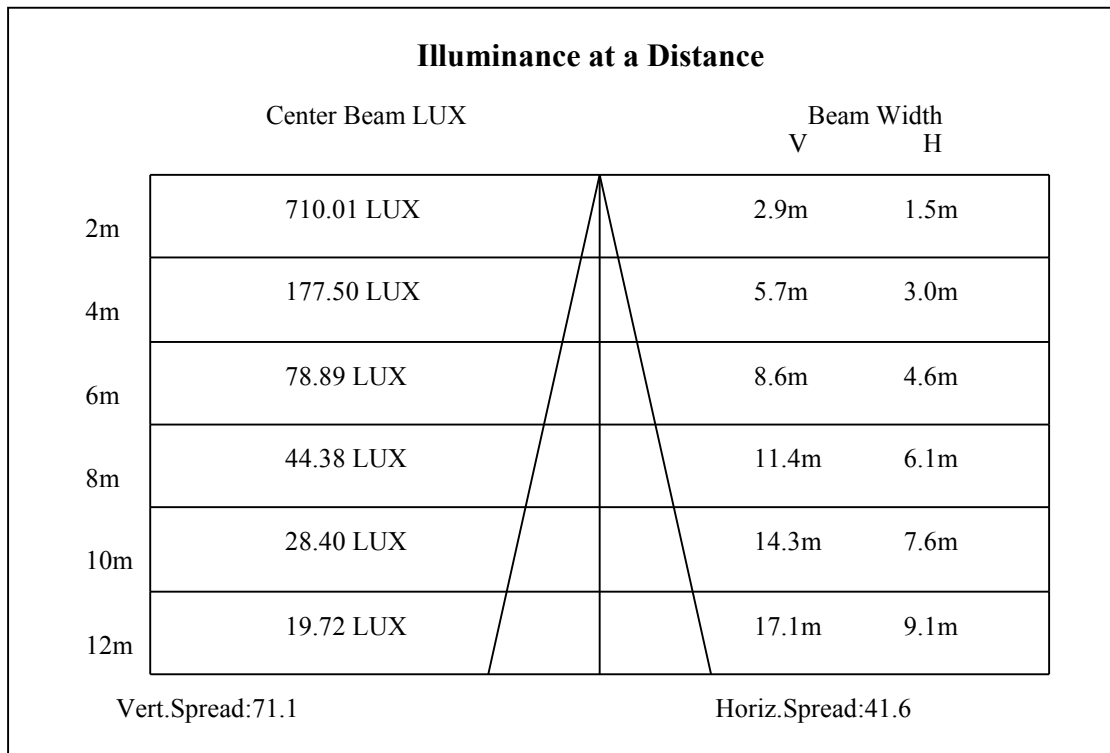
C90/C270: —————

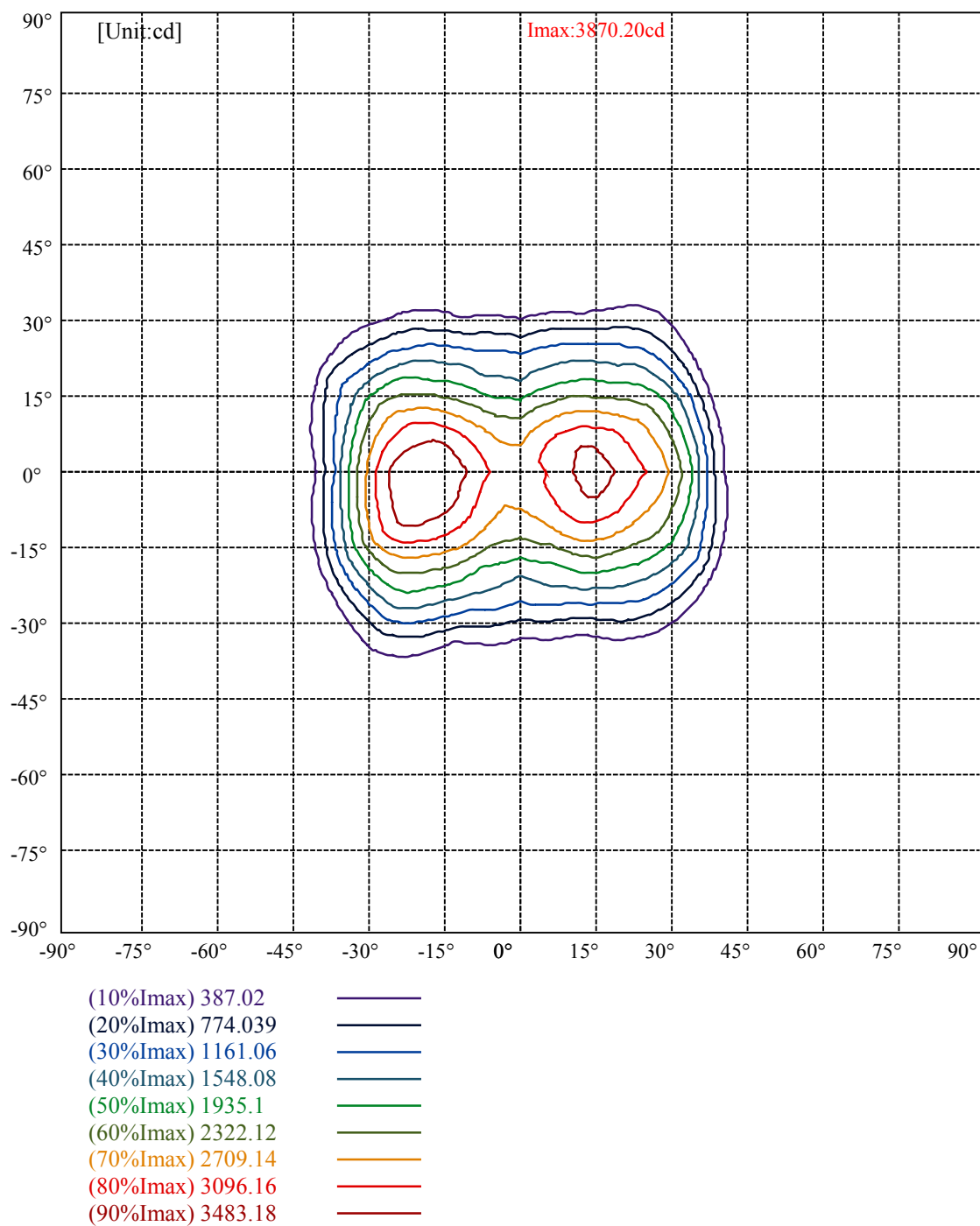
Field angle(10%Imax):C0/180Left:19.9 Right:59.9

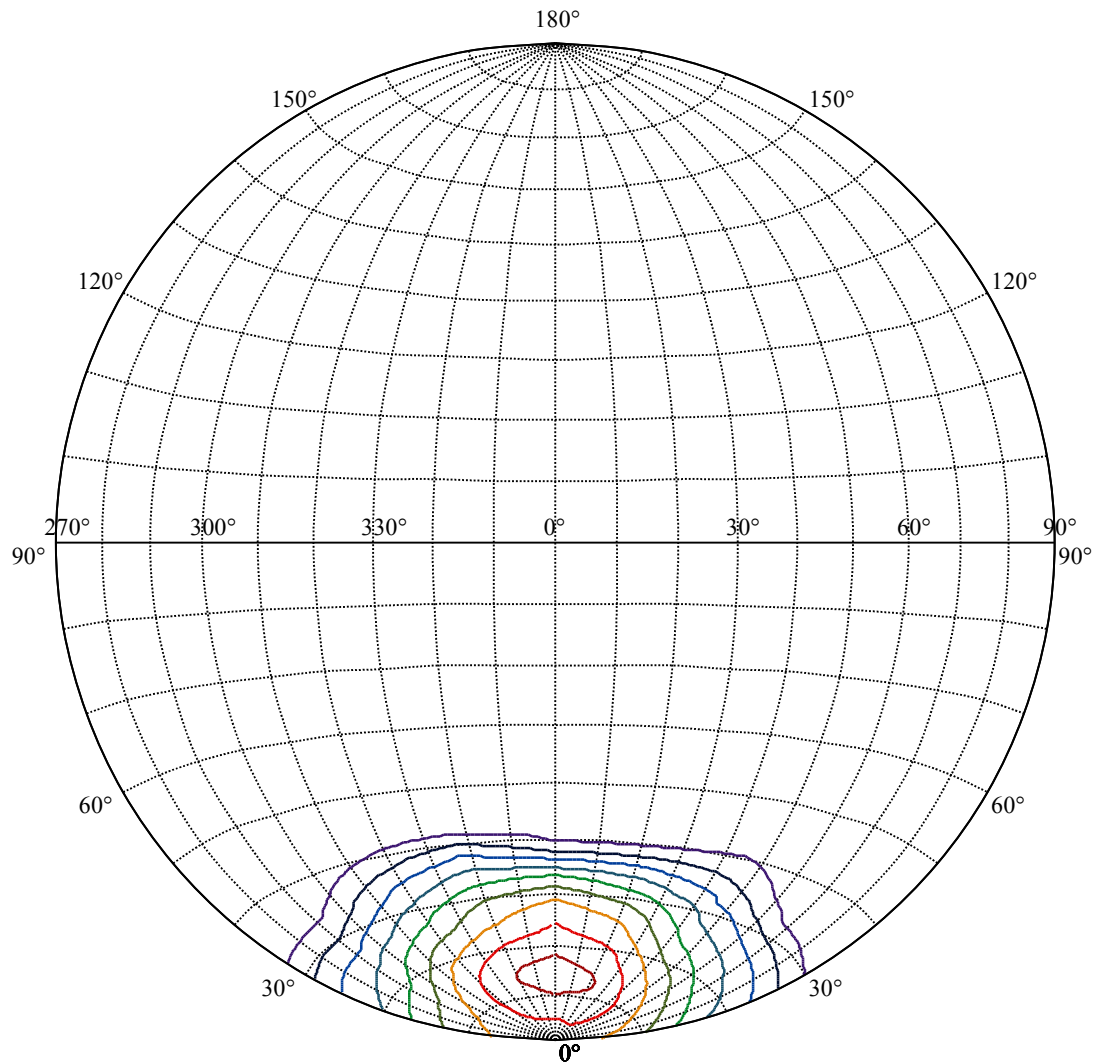
:C90/270Left:32.2 Right:32.9

Beam Angle(50%Imax):C0/180Left:13.5 Right:53.6

:C90/270Left:19.8 Right:21.6







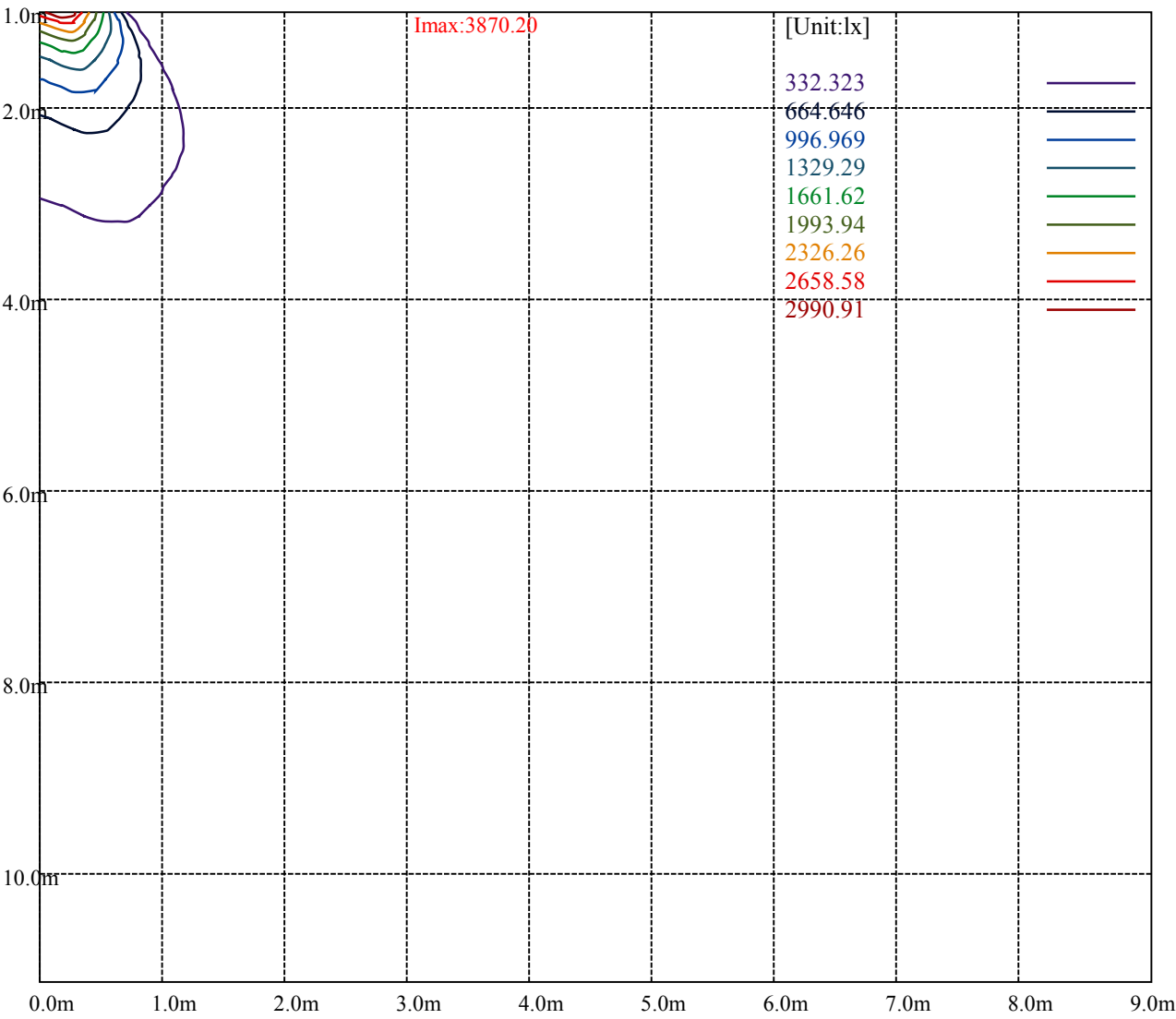
House

[Unit:cd]

Road

Imax:3870.20

(10%Imax)	387.02	—
(20%Imax)	774.039	—
(30%Imax)	1161.06	—
(40%Imax)	1548.08	—
(50%Imax)	1935.1	—
(60%Imax)	2322.12	—
(70%Imax)	2709.14	—
(80%Imax)	3096.16	—
(90%Imax)	3483.18	—



Luminance Table

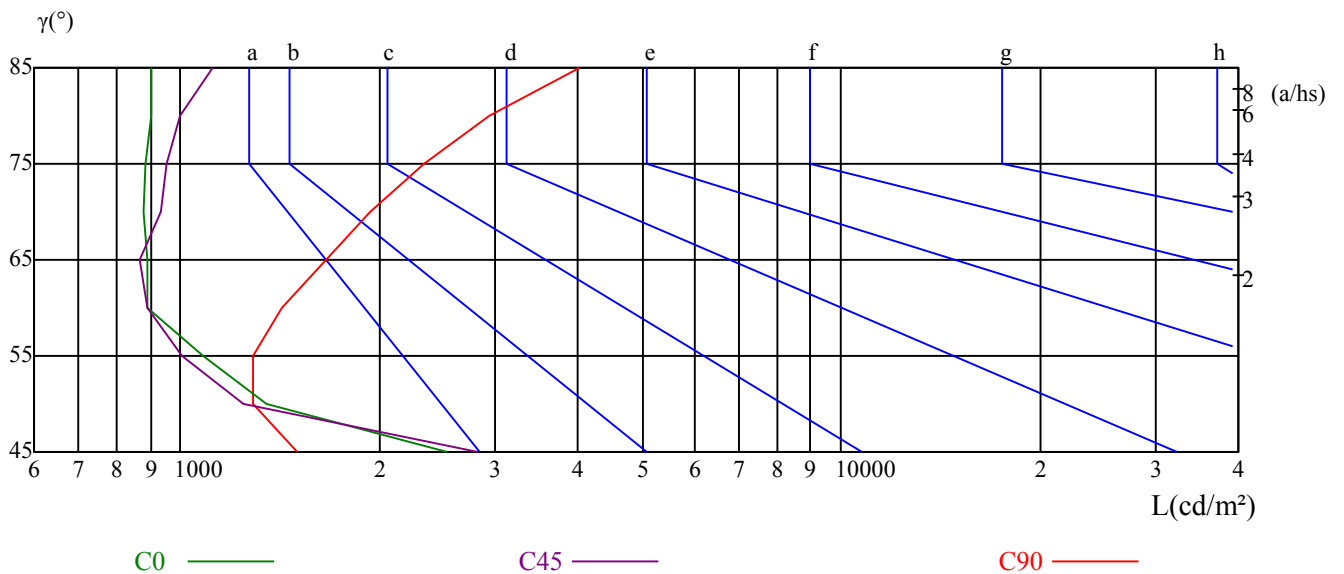
γ	45	50	55	60	65	70	75	80	85
C0	2532	1353	1083	890	889	880	887	903	906
C45	2822	1244	1004	889	868	931	950	1001	1118
C90	1502	1284	1288	1427	1656	1938	2332	2943	4025

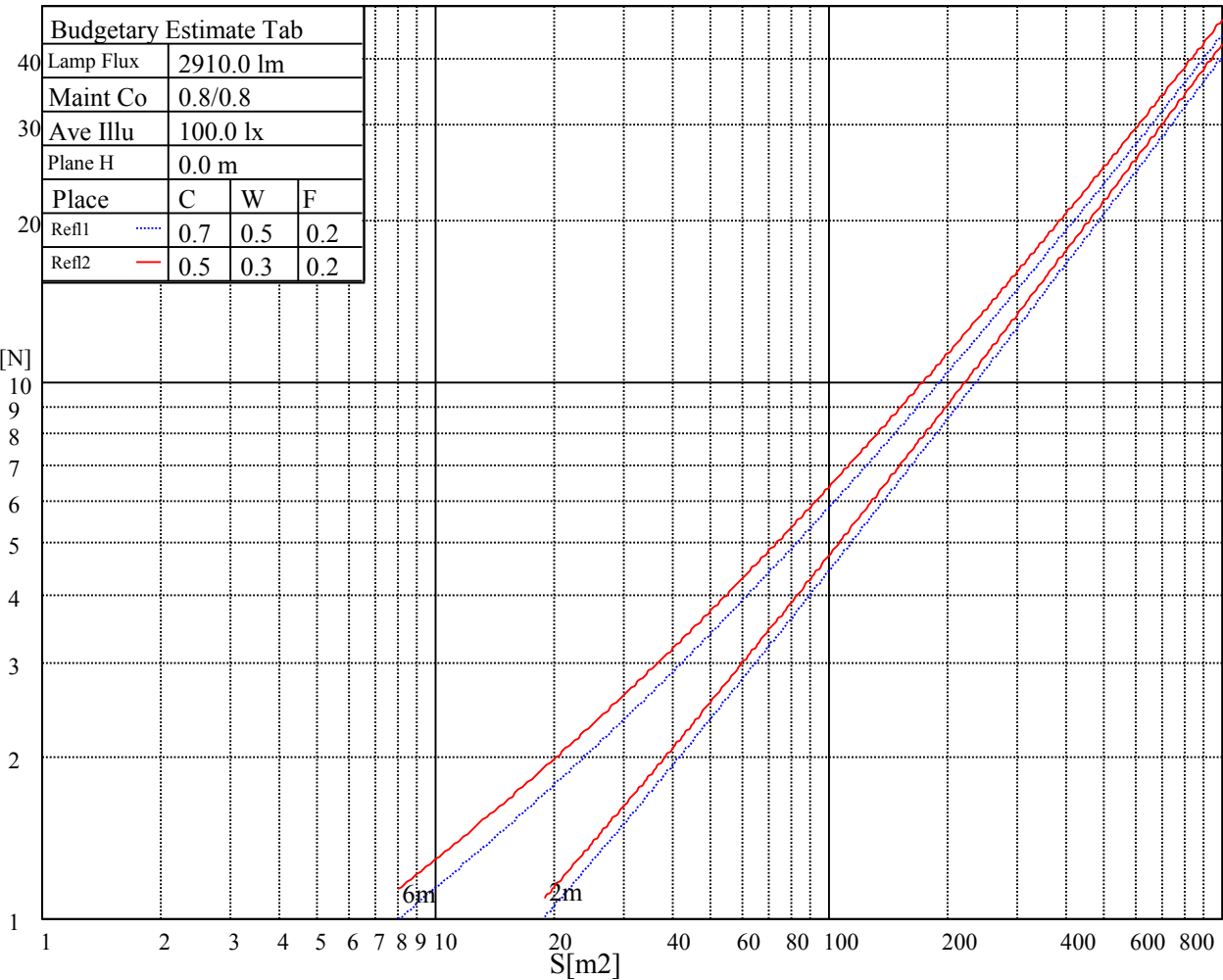
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1689	1734	1512	2322	2646	2246	5533	5920	5660

Glare Table

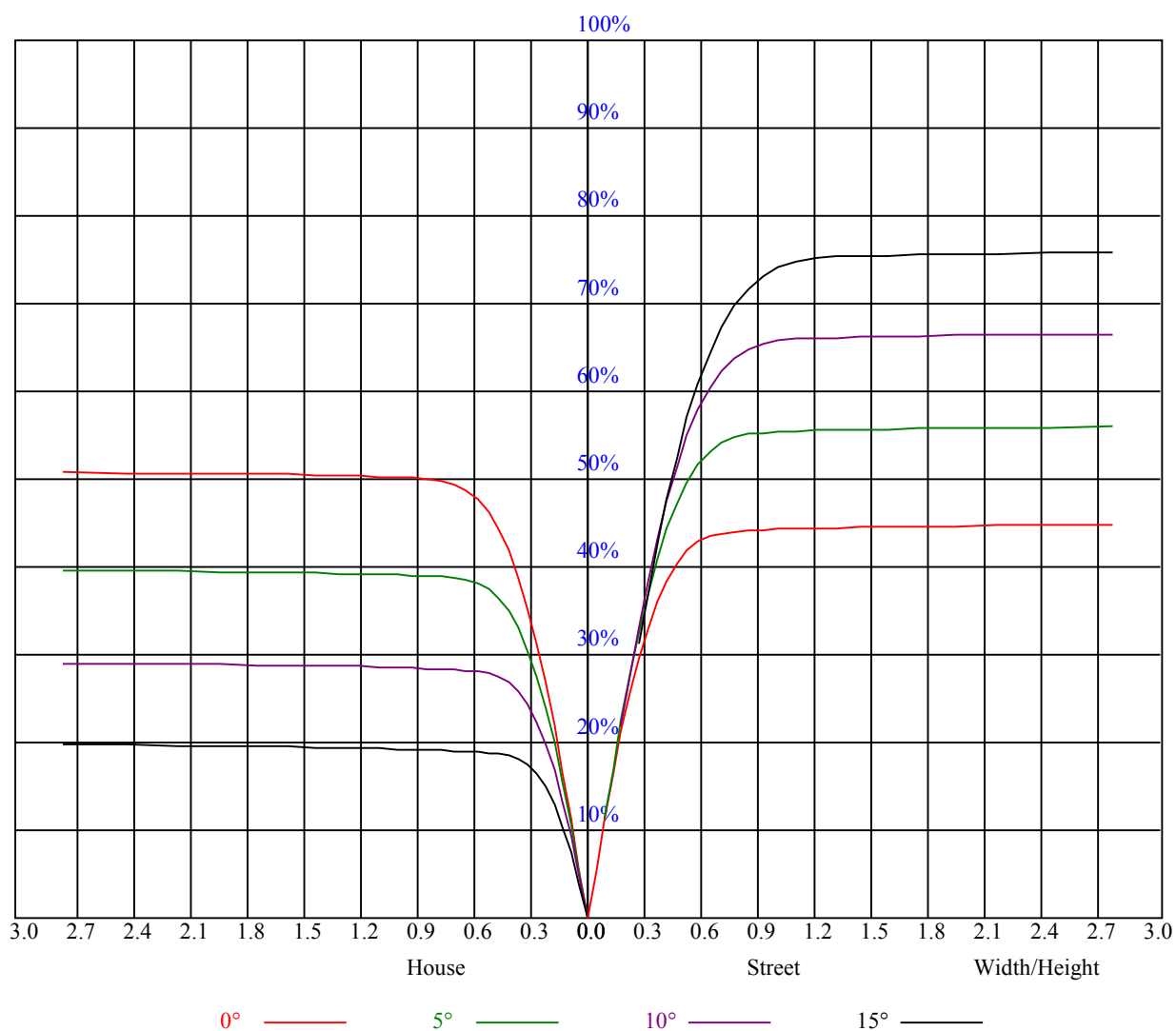
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

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	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.06	1.04	1.02	1.04	1.02	1.00	1.00	0.99	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90
2	0.99	0.95	0.92	0.97	0.94	0.91	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.83
3	0.92	0.87	0.84	0.91	0.87	0.83	0.88	0.85	0.82	0.86	0.83	0.80	0.84	0.81	0.79	0.78
4	0.86	0.81	0.77	0.85	0.80	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.72
5	0.81	0.75	0.71	0.80	0.75	0.71	0.78	0.74	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.68
6	0.76	0.70	0.66	0.75	0.70	0.66	0.74	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.63
7	0.71	0.66	0.62	0.71	0.65	0.62	0.70	0.65	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.59
8	0.67	0.62	0.58	0.67	0.61	0.58	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.56
9	0.64	0.58	0.54	0.63	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.61	0.57	0.54	0.52
10	0.60	0.55	0.51	0.60	0.54	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.58	0.53	0.50	0.49



Intensity data(cd)

Appendix Page: 16 Total:19

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	2840.06	2859.18	2898.02	2952.39	3018.12	3089.82	3162.12	3239.20	3321.07
22.5	2868.74	2917.14	2978.68	3031.26	3093.41	3172.28	3239.20	3299.56	3362.89
45.0	2890.25	2915.94	2962.55	2999.60	3042.62	3059.95	3077.87	3100.58	3117.31
67.5	2875.31	2874.11	2899.21	2905.78	2896.82	2892.04	2872.92	2843.04	2807.79
90.0	2860.37	2862.16	2837.67	2813.76	2776.72	2730.11	2664.98	2608.81	2543.08
112.5	2859.77	2839.46	2829.90	2805.40	2778.51	2732.50	2691.27	2629.13	2576.55
135.0	2853.80	2837.07	2830.49	2816.15	2813.76	2812.57	2807.79	2812.57	2801.22
157.5	2854.40	2850.21	2848.42	2850.21	2873.52	2930.28	2989.44	3032.46	3083.25
180.0	2840.06	2839.46	2847.82	2887.26	2942.83	3010.35	3096.99	3172.28	3261.91
202.5	2868.74	2846.63	2837.67	2829.90	2843.04	2883.08	2942.83	3010.95	3079.66
225.0	2890.25	2857.98	2847.82	2828.10	2807.79	2815.56	2813.76	2844.84	2873.52
247.5	2875.31	2866.94	2843.64	2818.54	2800.02	2775.52	2737.28	2708.00	2675.73
270.0	2860.37	2862.76	2865.75	2853.80	2834.08	2804.20	2760.58	2728.91	2664.98
292.5	2859.77	2879.49	2877.10	2875.91	2874.11	2863.96	2839.46	2828.70	2822.69
315.0	2853.80	2864.55	2900.41	2920.12	2955.38	2971.51	3002.58	3023.50	3036.04
337.5	2854.40	2888.46	2933.87	2979.28	3040.23	3092.81	3154.95	3211.72	3266.69
360.0	2840.06	2859.18	2898.02	2952.39	3018.12	3089.82	3162.12	3239.20	3321.07
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3399.34	3471.64	3511.08	3554.70	3601.31	3640.15	3649.11	3627.60	3568.44
22.5	3414.88	3431.01	3465.67	3481.20	3488.37	3470.45	3441.77	3379.03	3297.76
45.0	3111.33	3102.97	3066.52	3022.30	2973.30	2898.02	2828.70	2748.04	2651.24
67.5	2756.40	2697.84	2624.94	2539.50	2447.48	2362.63	2257.46	2153.49	2060.28
90.0	2473.77	2362.03	2258.06	2159.47	2046.54	1931.21	1834.41	1722.68	1609.15
112.5	2513.21	2442.10	2366.81	2290.33	2193.53	2096.73	2002.92	1909.70	1810.51
135.0	2800.62	2782.69	2769.55	2749.23	2726.52	2679.32	2626.14	2578.34	2513.80
157.5	3141.81	3208.13	3260.72	3301.95	3367.08	3404.72	3432.80	3442.96	3425.63
180.0	3357.52	3444.16	3533.79	3625.21	3680.78	3742.32	3779.37	3826.58	3843.31
202.5	3143.60	3235.02	3319.87	3383.81	3457.90	3545.14	3589.95	3635.37	3656.88
225.0	2891.44	2923.71	2953.59	2972.71	3007.36	3016.33	3009.75	2997.80	2985.25
247.5	2657.81	2617.77	2590.29	2529.34	2470.18	2400.87	2342.91	2270.01	2180.98
270.0	2614.19	2564.59	2495.88	2412.82	2306.46	2207.87	2114.66	2002.92	1904.92
292.5	2755.21	2706.21	2657.81	2588.50	2528.15	2433.14	2350.08	2257.46	2160.66
315.0	3050.39	3061.74	3063.53	3062.34	3038.43	3023.50	2981.07	2930.28	2857.98
337.5	3318.68	3386.20	3424.44	3434.00	3456.71	3467.46	3458.50	3431.61	3370.66
360.0	3399.34	3471.64	3511.08	3554.70	3601.31	3640.15	3649.11	3627.60	3568.44
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3503.31	3464.47	3410.70	3327.04	3256.53	3182.44	3125.08	3082.65	3022.90
22.5	3237.41	3190.80	3108.94	3037.84	2954.78	2849.02	2772.53	2712.18	2634.51
45.0	2561.61	2451.06	2348.29	2230.58	2119.44	2031.00	1928.23	1818.28	1748.37
67.5	1958.70	1867.88	1764.50	1692.20	1617.51	1555.37	1457.37	1359.98	1251.23
90.0	1527.28	1464.54	1410.17	1339.66	1189.50	1158.43	1061.15	930.71	825.43
112.5	1713.71	1633.64	1557.76	1503.98	1450.80	1388.06	1298.43	1209.40	1103.04
135.0	2452.86	2387.73	2311.84	2224.00	2134.37	2061.48	1970.05	1876.84	1812.31
157.5	3423.84	3365.28	3316.88	3265.50	3207.54	3153.76	3039.63	2939.84	2854.40
180.0	3853.46	3866.01	3870.20	3830.16	3779.37	3735.15	3660.46	3578.00	3459.69
202.5	3681.97	3674.21	3668.23	3661.66	3659.27	3644.93	3595.93	3535.58	3471.64
225.0	2954.18	2910.56	2854.99	2786.88	2696.65	2622.55	2529.94	2436.13	2356.65
247.5	2106.29	2015.47	1935.40	1854.13	1781.83	1717.90	1659.34	1587.63	1506.97
270.0	1797.96	1673.08	1573.89	1488.44	1414.35	1351.61	1277.52	1192.07	1101.84
292.5	2057.29	1969.46	1884.01	1777.65	1715.51	1647.98	1561.94	1463.35	1363.56
315.0	2776.72	2705.01	2608.21	2509.02	2407.44	2304.07	2177.40	2060.28	1949.74
337.5	3291.19	3196.78	3116.71	3044.41	2946.42	2838.26	2744.45	2639.29	2569.37
360.0	3503.31	3464.47	3410.70	3327.04	3256.53	3182.44	3125.08	3082.65	3022.90

Intensity data(cd)

Appendix Page: 17 Total:19

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	2921.92	2830.49	2717.56	2587.30	2422.98	2253.88	2071.63	1851.74	1544.01
22.5	2533.52	2419.39	2277.18	2137.96	1999.33	1830.83	1683.84	1514.14	1310.38
45.0	1659.34	1566.12	1511.75	1459.17	1384.47	1182.51	1153.23	1041.61	920.49
67.5	1117.38	1006.24	885.54	739.14	607.09	487.58	369.27	310.12	195.87
90.0	713.21	574.64	473.00	379.85	281.56	213.68	153.21	97.04	77.02
112.5	985.92	874.78	741.53	624.42	502.52	395.56	317.89	308.32	168.32
135.0	1748.37	1676.67	1590.02	1488.44	1352.81	1185.92	1089.83	992.85	873.47
157.5	2750.43	2648.25	2517.99	2397.88	2249.70	2115.85	1944.36	1780.04	1598.39
180.0	3330.63	3144.20	2952.39	2728.91	2539.50	2293.91	2034.59	1822.46	1594.21
202.5	3379.62	3246.38	3131.05	2984.66	2820.34	2624.94	2387.73	2206.08	2000.53
225.0	2298.69	2212.65	2134.97	2062.07	1989.77	1920.46	1825.45	1702.96	1596.60
247.5	1419.13	1266.76	1164.70	1044.06	931.79	781.09	666.36	548.71	411.46
270.0	990.11	868.21	756.47	644.73	512.68	421.26	341.79	307.73	194.32
292.5	1190.28	1096.53	969.79	817.12	710.82	581.81	447.01	367.72	291.24
315.0	1827.84	1742.99	1656.35	1531.47	1425.11	1318.15	1221.95	1143.67	1028.35
337.5	2504.84	2422.98	2335.74	2232.97	2106.89	1973.04	1846.96	1720.88	1590.02
360.0	2921.92	2830.49	2717.56	2587.30	2422.98	2253.88	2071.63	1851.74	1544.01
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	1297.83	1058.22	765.43	558.09	363.30	321.47	122.61	101.82	80.97
22.5	1152.04	964.41	693.73	500.73	330.43	304.14	123.39	92.08	74.39
45.0	800.09	709.63	617.07	524.81	434.88	330.37	240.33	160.14	103.85
67.5	129.66	86.46	65.01	57.54	50.85	44.99	38.36	35.43	32.98
90.0	67.04	58.26	52.76	44.87	39.91	37.17	34.54	31.43	29.88
112.5	119.09	84.55	66.33	59.04	52.04	45.11	38.36	34.84	31.97
135.0	745.72	627.47	493.56	380.03	287.53	195.03	134.74	88.31	60.65
157.5	1450.20	1318.75	1204.02	1100.65	973.97	837.74	632.19	403.33	312.51
180.0	1180.36	1067.01	842.87	564.66	373.34	227.78	127.27	92.38	76.84
202.5	1757.93	1579.87	1406.58	1171.63	970.03	762.69	529.83	345.37	223.83
225.0	1489.04	1327.71	1178.92	1027.15	870.60	731.97	620.83	502.52	401.54
247.5	321.35	245.05	163.19	110.96	83.12	71.05	64.00	55.63	43.50
270.0	143.35	100.15	83.36	74.03	65.13	56.65	48.28	43.20	39.44
292.5	193.60	140.24	92.50	70.09	63.46	56.47	48.46	38.84	35.43
315.0	892.11	771.41	633.98	511.48	418.87	334.62	305.93	175.97	126.02
337.5	1474.70	1284.09	1183.41	1003.13	775.29	558.33	365.51	189.12	117.47
360.0	1297.83	1058.22	765.43	558.09	363.30	321.47	122.61	101.82	80.97
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	66.33	53.54	46.19	42.54	38.36	34.12	32.09	30.18	28.44
22.5	58.68	47.80	38.84	35.43	32.27	29.70	27.79	26.17	24.62
45.0	68.54	49.54	39.26	34.78	31.55	28.80	27.19	25.87	24.26
67.5	30.77	29.16	27.31	25.39	23.72	22.11	20.85	20.20	19.54
90.0	28.20	26.71	25.28	24.14	23.06	22.05	21.15	20.38	19.90
112.5	29.70	27.61	25.87	24.56	23.18	21.99	21.03	20.20	19.42
135.0	47.44	41.59	35.19	30.77	27.61	25.34	24.02	22.83	21.81
157.5	128.59	77.02	66.74	55.03	39.86	32.33	27.84	25.63	23.90
180.0	58.92	46.73	38.66	34.54	32.45	30.06	28.20	26.71	25.57
202.5	135.82	95.13	76.13	59.45	48.46	39.08	34.12	31.67	29.52
225.0	312.51	301.75	158.05	102.72	68.48	48.46	39.74	35.31	31.73
247.5	39.86	36.45	32.39	30.23	28.08	25.63	24.26	23.00	21.75
270.0	36.15	32.74	30.47	28.44	26.35	24.86	23.66	22.53	21.57
292.5	32.21	29.82	27.49	25.57	24.08	22.77	21.57	20.73	20.02
315.0	80.67	56.47	48.22	40.27	33.76	30.23	27.73	26.05	24.50
337.5	90.88	74.99	57.84	45.83	35.85	31.55	28.68	26.05	24.38
360.0	66.33	53.54	46.19	42.54	38.36	34.12	32.09	30.18	28.44

Intensity data(cd)										Appendix Page: 18 Total:19	
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0		
0.0	27.25	26.05	24.62	23.36	21.99	20.91	20.20	19.60	19.06		
22.5	23.54	22.77	21.99	20.97	20.26	19.66	18.94	18.46	18.11		
45.0	23.00	21.93	20.73	19.96	19.24	18.64	18.11	17.63	17.03		
67.5	19.00	18.52	18.16	18.05	18.05	18.11	18.16	18.22	18.22		
90.0	19.72	19.90	19.90	19.84	19.84	19.72	19.42	18.94	18.58		
112.5	18.94	18.46	18.05	17.75	17.57	17.27	17.15	17.09	16.73		
135.0	20.91	20.20	19.60	18.70	18.11	17.63	17.27	16.85	16.49		
157.5	22.65	21.33	20.26	19.78	19.42	19.30	18.82	18.05	17.39		
180.0	24.44	23.78	23.12	22.47	21.57	20.32	19.54	19.12	18.40		
202.5	27.31	25.75	24.44	23.06	22.35	21.75	21.03	20.20	19.66		
225.0	29.40	27.31	25.75	24.38	23.24	21.63	20.67	19.72	18.76		
247.5	20.73	20.02	19.30	18.76	18.34	18.05	17.93	17.81	17.81		
270.0	20.91	20.20	19.72	19.30	19.06	19.00	18.88	18.82	18.40		
292.5	19.30	18.82	18.46	18.05	17.87	17.75	17.81	17.87	17.93		
315.0	23.18	22.11	21.15	20.08	19.30	18.70	17.99	17.51	17.03		
337.5	22.95	21.99	21.39	20.85	20.14	19.36	18.52	17.63	17.15		
360.0	27.25	26.05	24.62	23.36	21.99	20.91	20.20	19.60	19.06		
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	18.88	18.76	18.82	18.94	18.70	17.87	17.75	17.15	17.09		
22.5	17.81	17.57	17.39	17.15	16.91	16.67	16.55	16.31	16.01		
45.0	16.79	16.49	16.25	16.07	15.95	15.95	15.89	15.77	15.48		
67.5	18.34	18.28	18.28	18.28	18.22	17.93	17.75	17.81	17.51		
90.0	18.58	19.00	19.30	19.00	18.22	18.22	18.70	18.64	17.93		
112.5	17.21	17.27	16.67	17.63	17.81	17.51	17.57	17.39	17.33		
135.0	16.25	16.19	16.13	16.01	16.07	16.13	16.07	15.95	15.77		
157.5	16.91	16.49	16.43	16.25	15.89	15.72	15.60	15.48	15.36		
180.0	17.87	17.87	17.81	17.63	17.51	17.45	16.79	16.37	15.95		
202.5	19.06	18.46	18.05	17.69	17.33	17.03	16.85	16.61	16.43		
225.0	18.11	17.51	16.97	16.55	16.19	15.95	15.77	15.72	15.60		
247.5	17.81	17.75	17.87	17.93	17.99	18.11	18.05	18.16	17.93		
270.0	18.22	18.28	18.28	18.52	18.40	18.28	18.40	18.16	18.22		
292.5	17.81	17.63	17.63	17.81	17.93	17.63	17.81	17.99	17.57		
315.0	16.67	16.37	16.19	16.01	15.89	15.89	15.77	15.66	15.60		
337.5	16.79	16.37	16.01	15.77	15.54	15.30	15.18	15.00	14.82		
360.0	18.88	18.76	18.82	18.94	18.70	17.87	17.75	17.15	17.09		
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	16.37	15.95	15.77	15.66	15.54	15.06	14.64	14.34	14.16		
22.5	15.77	15.54	15.24	14.88	14.64	14.40	14.04	13.74	13.50		
45.0	15.18	15.06	14.82	14.28	13.80	13.62	13.38	13.21	13.03		
67.5	17.51	17.15	17.15	16.43	16.85	16.25	15.89	15.42	14.88		
90.0	17.99	17.93	17.51	17.51	17.27	16.85	16.49	16.01	15.72		
112.5	17.69	17.69	16.73	17.15	15.72	16.55	16.97	15.54	15.89		
135.0	15.77	15.48	15.06	15.00	14.76	14.64	14.22	13.86	13.50		
157.5	15.06	14.82	14.46	14.28	14.10	13.92	13.74	13.50	13.32		
180.0	15.66	15.54	15.24	15.18	15.12	15.06	14.58	14.22	13.80		
202.5	16.19	16.01	15.83	15.60	15.36	15.18	14.94	14.70	14.52		
225.0	15.60	15.54	15.54	15.54	15.36	15.24	15.18	14.94	14.70		
247.5	17.87	17.87	18.16	18.05	18.11	17.63	17.81	17.33	16.91		
270.0	18.22	17.81	17.99	17.63	17.81	17.63	17.45	17.21	16.91		
292.5	17.87	17.63	17.51	17.45	17.45	16.55	16.61	15.95	15.48		
315.0	15.42	15.24	15.24	14.82	14.82	14.34	13.44	13.27	13.09		
337.5	14.64	14.46	14.34	14.16	13.98	13.80	13.62	13.32	13.09		
360.0	16.37	15.95	15.77	15.66	15.54	15.06	14.64	14.34	14.16		

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Intensity data(cd)									Appendix Page: 19 Total:19		
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	13.80	13.50	13.09	12.61	12.31	11.77	11.47	11.23	11.05		
22.5	13.09	12.85	12.49	12.19	11.89	11.59	11.41	11.35	11.35		
45.0	12.85	12.73	12.55	12.31	12.19	12.01	11.83	11.77	11.77		
67.5	14.22	13.98	13.92	13.80	12.67	12.49	12.37	12.19	12.19		
90.0	15.00	14.16	14.04	13.98	12.61	12.49	12.43	12.19	12.19		
112.5	15.00	14.34	14.04	13.38	13.09	12.55	12.43	12.25	12.13		
135.0	13.32	13.15	12.97	12.91	12.73	12.07	11.95	11.77	11.71		
157.5	13.15	12.97	12.79	12.55	12.31	11.95	11.65	11.53	11.35		
180.0	13.56	13.38	13.09	12.73	12.43	12.13	11.83	11.59	11.35		
202.5	14.28	14.04	13.80	13.56	13.32	12.97	12.61	12.25	11.95		
225.0	14.40	14.04	13.68	13.50	13.32	13.21	12.73	12.43	12.19		
247.5	16.61	16.07	15.24	14.28	14.10	13.92	12.85	12.67	12.49		
270.0	16.43	16.13	15.54	14.22	13.86	13.86	12.79	12.61	12.49		
292.5	14.88	14.10	13.68	13.56	13.44	12.61	12.43	12.31	12.25		
315.0	12.91	12.79	12.61	12.49	12.37	12.13	12.01	11.83	11.65		
337.5	12.85	12.67	12.37	12.19	12.01	11.59	11.35	11.17	11.05		
360.0	13.80	13.50	13.09	12.61	12.31	11.77	11.47	11.23	11.05		
C/ γ (°)	90.0										
0.0	11.05										
22.5	11.29										
45.0	11.77										
67.5	12.19										
90.0	12.19										
112.5	12.07										
135.0	11.53										
157.5	11.11										
180.0	11.05										
202.5	11.71										
225.0	12.07										
247.5	12.37										
270.0	12.31										
292.5	12.07										
315.0	11.59										
337.5	11.05										
360.0	11.05										