SOTEN LIGHTING LTD.
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Address:Jin OU Road,JiangMen Gity,GuangDong,China

SOTEN

LumCAT: G1067
Luminaire: 1-0806-S 35*75°
Report No:
Test No:
LampCAT: LUMILEDS-5050-3090*9
Lamp flux(lm): 3600.0
Number of Lamps: 1
Length(mm): 105
Phm Type: C

Voltage(V): 230.8000
Current(A): 0.1310
Power (W): 28.8600
PF: 0.9500
Ballast type: LC 30/500/54 FLXC SR SNC2
Width(mm): 105
Height(mm): 10

Photometric Results

Lumens(lm): 2802.92
Efficiency(%): 77.86%
Lumens(lm)/Power(W): 97.12
Central intensity(cd): 3076.048
Maximum intensity(cd): 3077.594
Angle of maximum intensity: C=90.0 γ=3.0
Beam Angle(50%Imax): [C0/180]Total=47.9
[C90/270]Total=76.6
Field angle(10%Imax): [C0/180]Total=66.8
[C90/270]Total=90.2
Maximum s/h(1/2): C0_180=0.70 C90_270=1.18
Maximum s/h(1/4): C0_180=0.65 C90_270=1.68
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 77.86%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.653%



Equipment: GMS-1800
Temperature(°C): 25.0
Date: 2022/8/26
Humidity(%): 65.0%
Operator: New
Distance(m): 7.18

SOTEN G1067

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3050.569	.000	.000	.000%	.000%
1.0	3049.345	2.919	2.919	.081%	.081%
2.0	3045.222	8.748	11.666	.243%	.324%
3.0	3036.750	14.546	26.212	.404%	.728%
4.0	3024.478	20.289	46.501	.564%	1.292%
5.0	3008.565	25.954	72.455	.721%	2.013%
6.0	2988.498	31.516	103.971	.875%	2.888%
7.0	2964.565	36.951	140.922	1.026%	3.914%
8.0	2937.894	42.243	183.165	1.173%	5.088%
9.0	2906.488	47.366	230.530	1.316%	6.404%
10.0	2870.025	52.275	282.805	1.452%	7.856%
11.0	2834.077	56.996	339.801	1.583%	9.439%
12.0	2790.076	61.480	401.281	1.708%	11.147%
13.0	2742.823	65.662	466.943	1.824%	12.971%
14.0	2695.214	69.606	536.549	1.934%	14.904%
15.0	2641.518	73.265	609.814	2.035%	16.939%
16.0	2586.275	76.602	686.416	2.128%	19.067%
17.0	2527.361	79.633	766.049	2.212%	21.279%
18.0	2462.520	82.272	848.321	2.285%	23.564%
19.0	2403.219	84.654	932.975	2.351%	25.916%
20.0	2331.162	86.652	1019.627	2.407%	28.323%
21.0	2262.875	88.215	1107.842	2.450%	30.773%
22.0	2196.455	89.612	1197.454	2.489%	33.263%
23.0	2114.445	90.454	1287.909	2.513%	35.775%
24.0	2038.977	90.809	1378.717	2.522%	38.298%
25.0	1972.267	91.207	1469.924	2.534%	40.831%
26.0	1880.762	90.951	1560.875	2.526%	43.358%
27.0	1786.801	89.728	1650.603	2.492%	45.850%
28.0	1695.428	88.163	1738.766	2.449%	48.299%
29.0	1589.684	85.948	1824.714	2.387%	50.686%
30.0	1499.580	83.410	1908.123	2.317%	53.003%
31.0	1401.703	80.738	1988.862	2.243%	55.246%
32.0	1325.938	78.144	2067.005	2.171%	57.417%
33.0	1235.096	75.449	2142.454	2.096%	59.513%
34.0	1139.728	71.869	2214.323	1.996%	61.509%
35.0	1051.460	68.050	2282.374	1.890%	63.399%
36.0	964.802	64.198	2346.572	1.783%	65.183%
37.0	873.367	59.951	2406.523	1.665%	66.848%

SOTEN G1067

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	776.305	55.064	2461.586	1.530%	68.377%
39.0	700.740	50.416	2512.002	1.400%	69.778%
40.0	617.790	45.986	2557.988	1.277%	71.055%
41.0	535.744	41.077	2599.064	1.141%	72.196%
42.0	452.932	35.920	2634.985	.998%	73.194%
43.0	378.289	30.791	2665.776	.855%	74.049%
44.0	301.858	25.671	2691.446	.713%	74.762%
45.0	234.427	20.610	2712.056	.573%	75.335%
46.0	179.778	16.199	2728.255	.450%	75.785%
47.0	140.270	12.729	2740.984	.354%	76.138%
48.0	101.636	9.779	2750.763	.272%	76.410%
49.0	73.187	7.179	2757.943	.199%	76.610%
50.0	62.258	5.647	2763.590	.157%	76.766%
51.0	53.802	4.910	2768.500	.136%	76.903%
52.0	46.903	4.321	2772.822	.120%	77.023%
53.0	40.941	3.821	2776.643	.106%	77.129%
54.0	35.519	3.370	2780.013	.094%	77.223%
55.0	30.968	2.968	2782.981	.082%	77.305%
56.0	26.925	2.616	2785.597	.073%	77.378%
57.0	23.253	2.294	2787.891	.064%	77.441%
58.0	20.306	2.014	2789.905	.056%	77.497%
59.0	17.323	1.759	2791.665	.049%	77.546%
60.0	15.078	1.531	2793.195	.043%	77.589%
61.0	12.926	1.336	2794.532	.037%	77.626%
62.0	11.071	1.156	2795.688	.032%	77.658%
63.0	9.644	1.007	2796.696	.028%	77.686%
64.0	8.294	.880	2797.576	.024%	77.710%
65.0	7.157	.765	2798.340	.021%	77.732%
66.0	6.181	.666	2799.006	.018%	77.750%
67.0	5.276	.576	2799.582	.016%	77.766%
68.0	4.535	.497	2800.079	.014%	77.780%
69.0	3.869	.429	2800.508	.012%	77.792%
70.0	3.253	.366	2800.874	.010%	77.802%
71.0	2.793	.312	2801.186	.009%	77.811%
72.0	2.329	.266	2801.452	.007%	77.818%
73.0	1.920	.222	2801.675	.006%	77.824%
74.0	1.617	.186	2801.861	.005%	77.829%
75.0	1.334	.156	2802.017	.004%	77.834%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	1.092	.129	2802.145	.004%	77.837%
77.0	.902	.106	2802.251	.003%	77.840%
78.0	.754	.089	2802.340	.002%	77.843%
79.0	.644	.075	2802.415	.002%	77.845%
80.0	.538	.064	2802.479	.002%	77.847%
81.0	.474	.055	2802.534	.002%	77.848%
82.0	.425	.049	2802.583	.001%	77.850%
83.0	.390	.044	2802.627	.001%	77.851%
84.0	.380	.042	2802.669	.001%	77.852%
85.0	.380	.041	2802.710	.001%	77.853%
86.0	.387	.042	2802.752	.001%	77.854%
87.0	.383	.042	2802.794	.001%	77.855%
88.0	.387	.042	2802.837	.001%	77.857%
89.0	.396	.043	2802.880	.001%	77.858%
90.0	.406	.044	2802.924	.001%	77.859%

Zonal flux distribution table

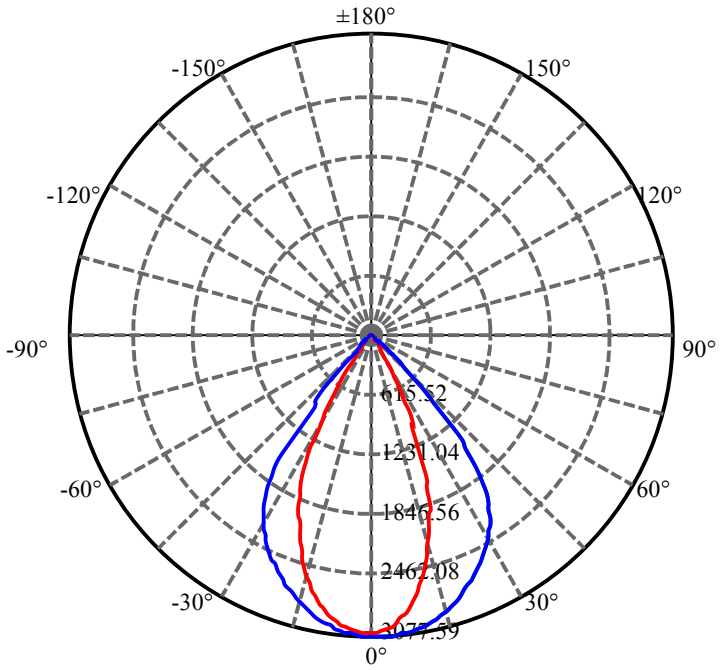
ZONAL LUMEN SUMMARY

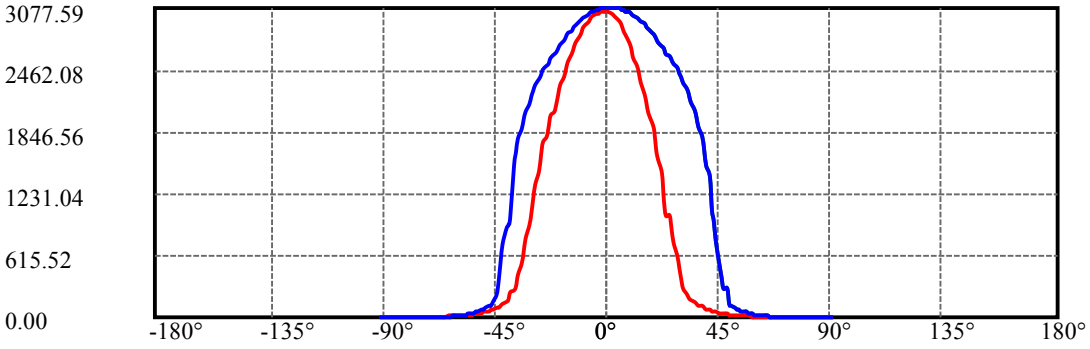
Zone	Lumens	%Lamp	%Fixt
0-30	1908.12	53.00%	68.08%
0-40	2557.99	71.06%	91.26%
0-60	2793.20	77.59%	99.65%
0-90	2802.88	77.86%	100.00%
0-120	2802.88	77.86%	100.00%
0-180	2802.92	77.86%	100.00%
60-90	11.21	0.31%	0.40%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-34.41	2242.34	62.29%	80.00%

ZONAL LUMEN SUMMARY

0-10	282.81
10-20	736.82
20-30	888.50
30-40	649.86
40-50	205.60
50-60	29.61
60-70	7.68
70-80	1.61
80-90	0.40
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

Light Distribution Curve [Unit:cd]





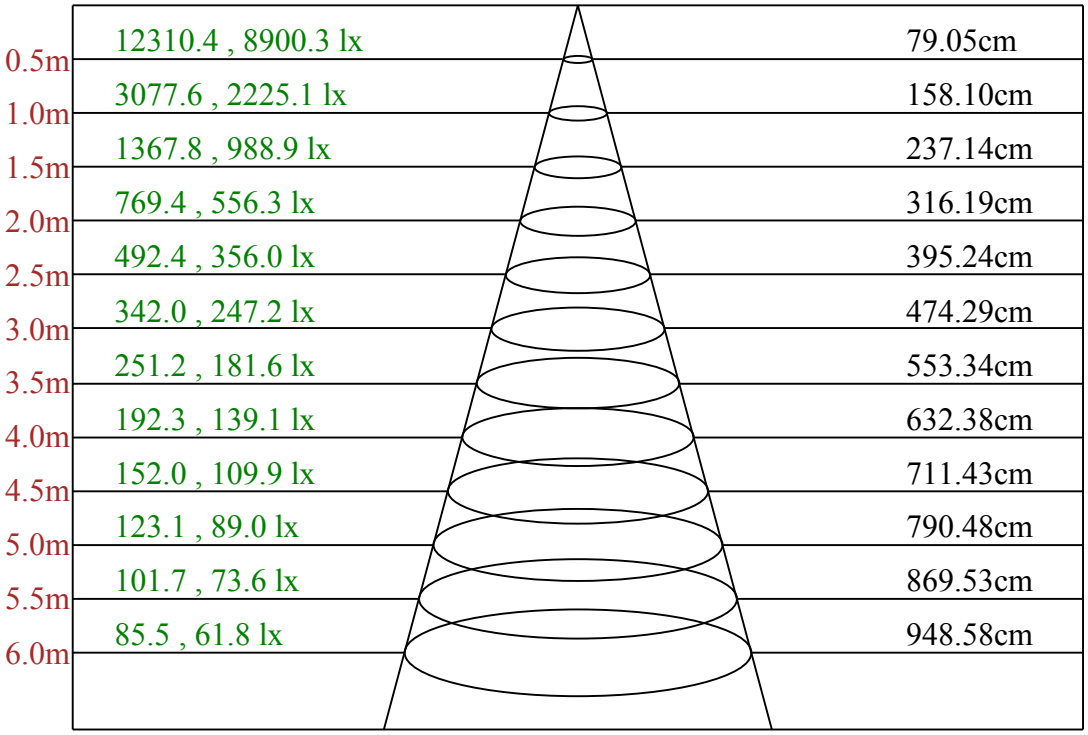
C90(Max):
C0/C180:
C90/C270:

Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/26
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

Lux distance Curve



Max , Ave

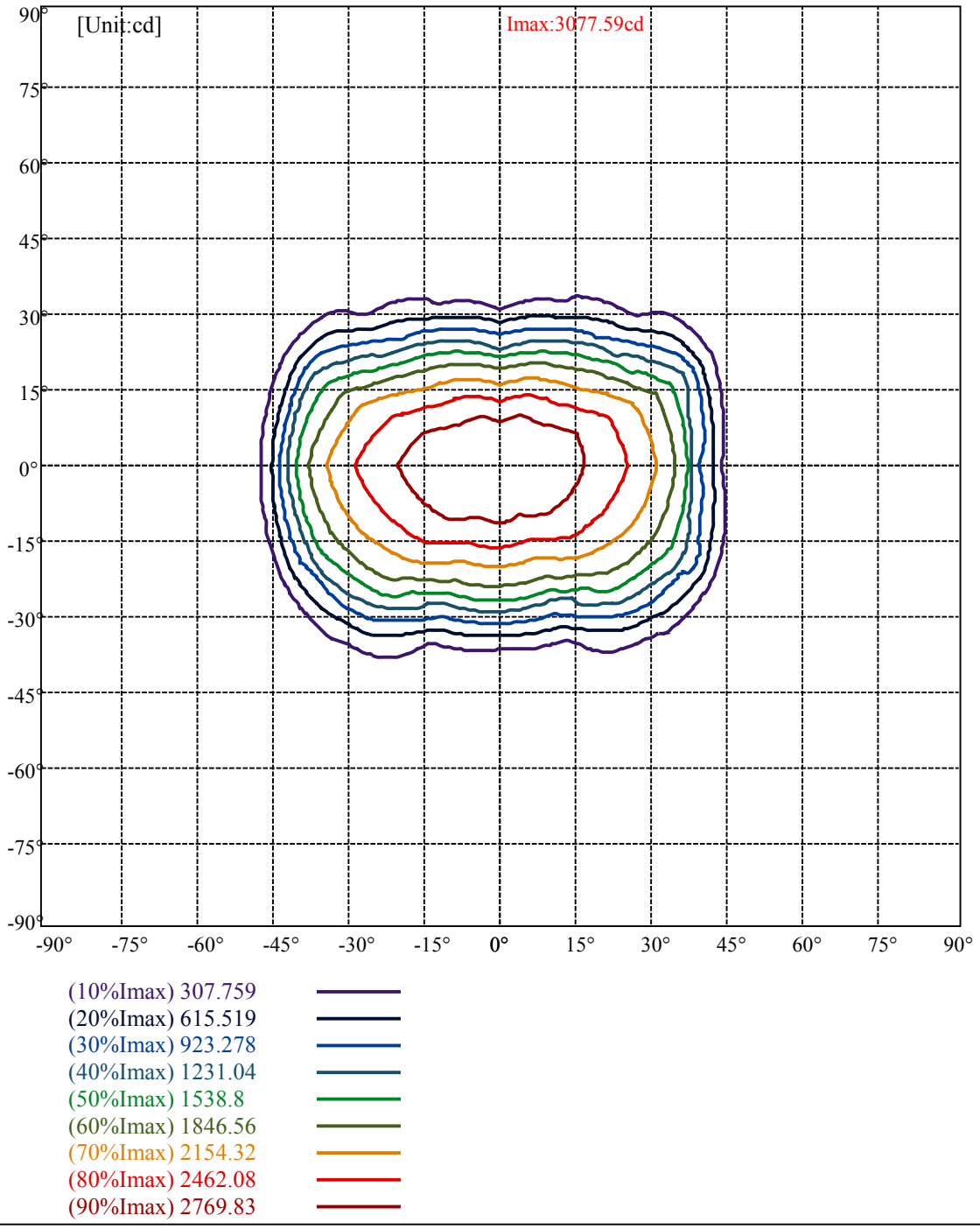
Beam angle of C90plane76.59

Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/26
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

ISO-Intensity(V-H)



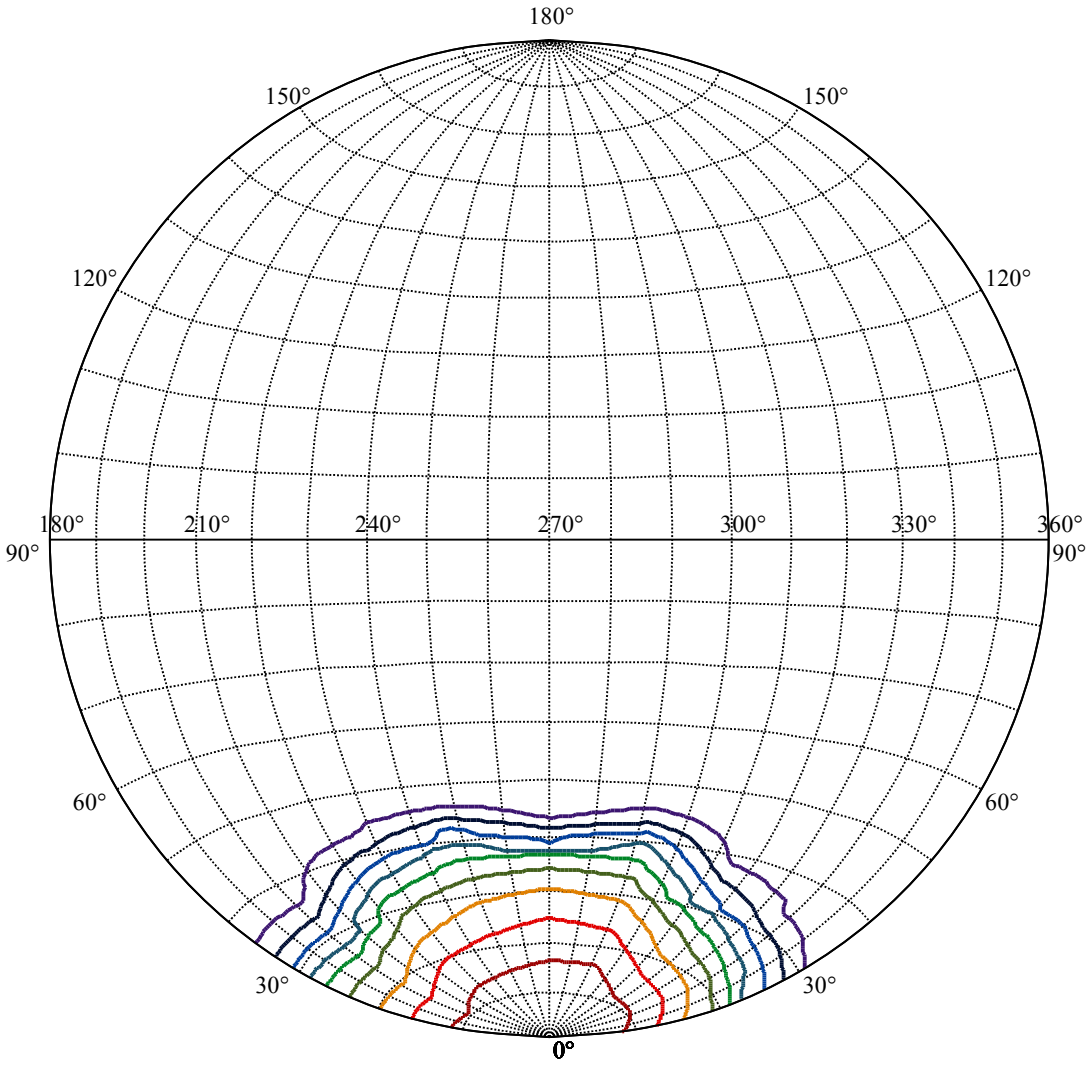
(10%Imax) 307.759
(20%Imax) 615.519
(30%Imax) 923.278
(40%Imax) 1231.04
(50%Imax) 1538.8
(60%Imax) 1846.56
(70%Imax) 2154.32
(80%Imax) 2462.08
(90%Imax) 2769.83

Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/26
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:3077.59

(10%Imax) 307.759
(20%Imax) 615.519
(30%Imax) 923.278
(40%Imax) 1231.04
(50%Imax) 1538.8
(60%Imax) 1846.56
(70%Imax) 2154.32
(80%Imax) 2462.08
(90%Imax) 2769.83

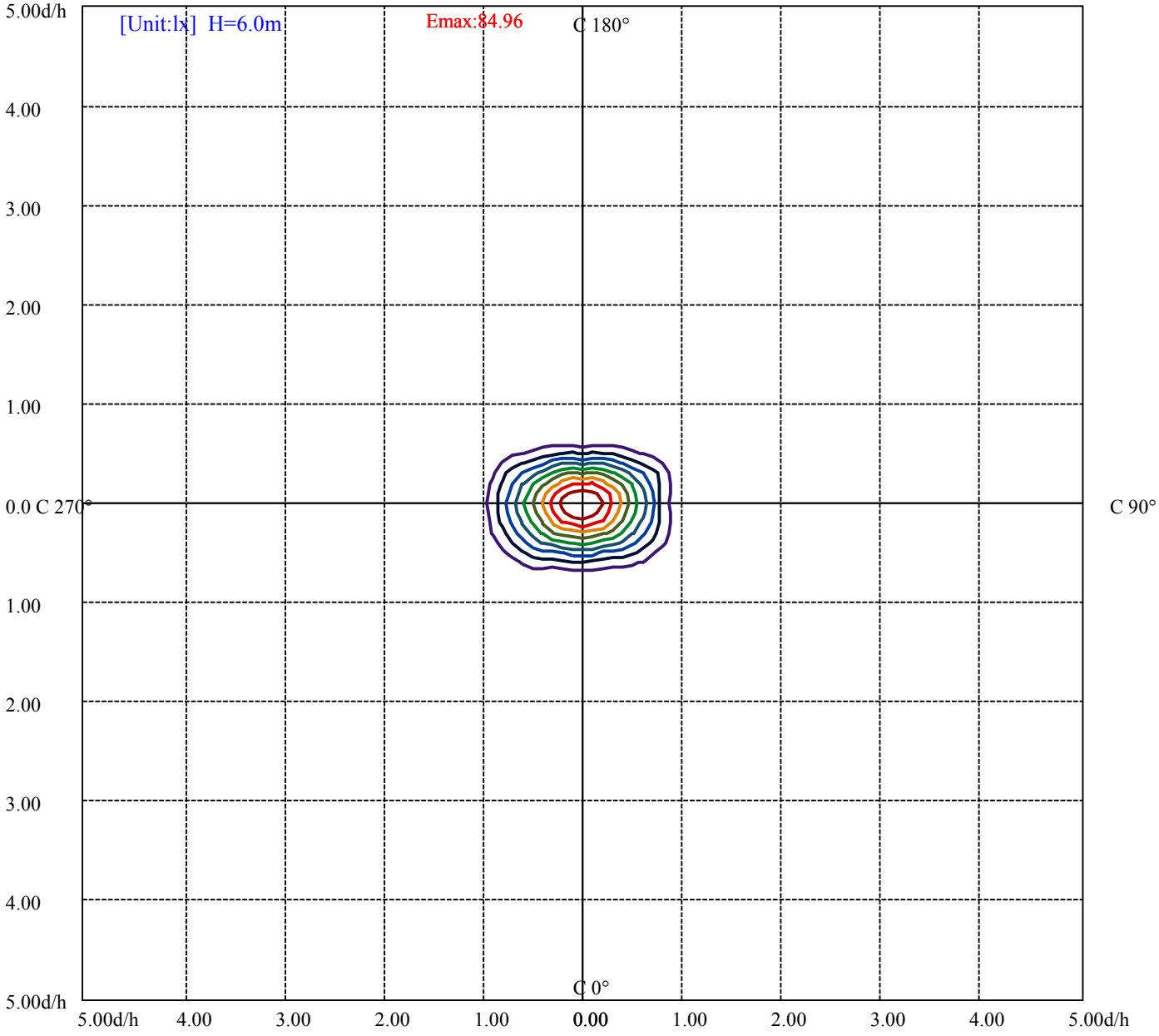
Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/26
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

SOTEN G1067

ISO illuminance diagram



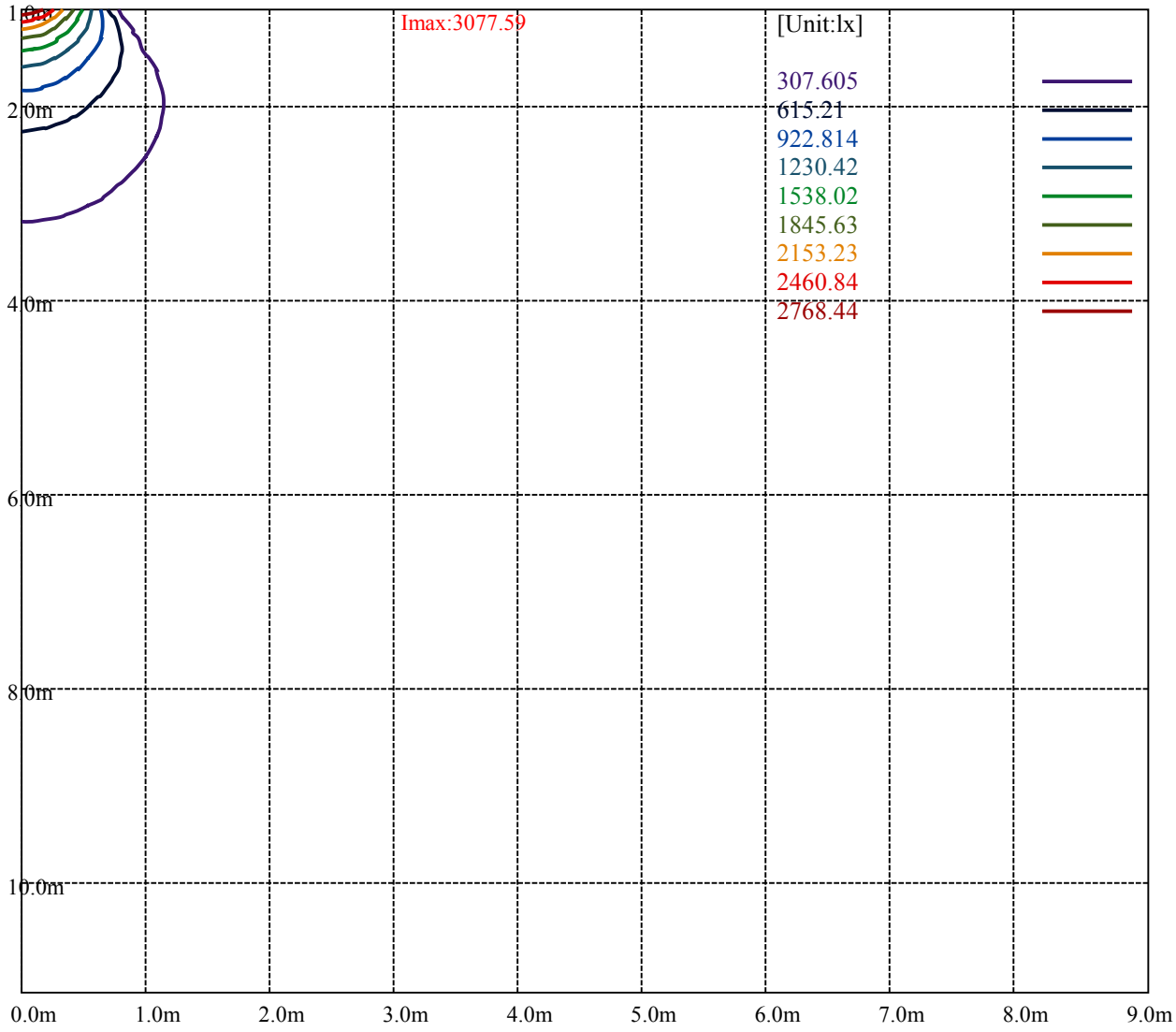
(10%Emax) 8.495889
(20%Emax) 16.99181
(30%Emax) 25.48769
(40%Emax) 33.98361
(50%Emax) 42.47945
(60%Emax) 50.97528
(70%Emax) 59.47139
(80%Emax) 67.96722
(90%Emax) 76.46305

Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/26
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

Space ISO Lux diagram



Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/26
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

SOTEN G1067

Luminance Limitting Curve(no luminous side)

Luminance Table

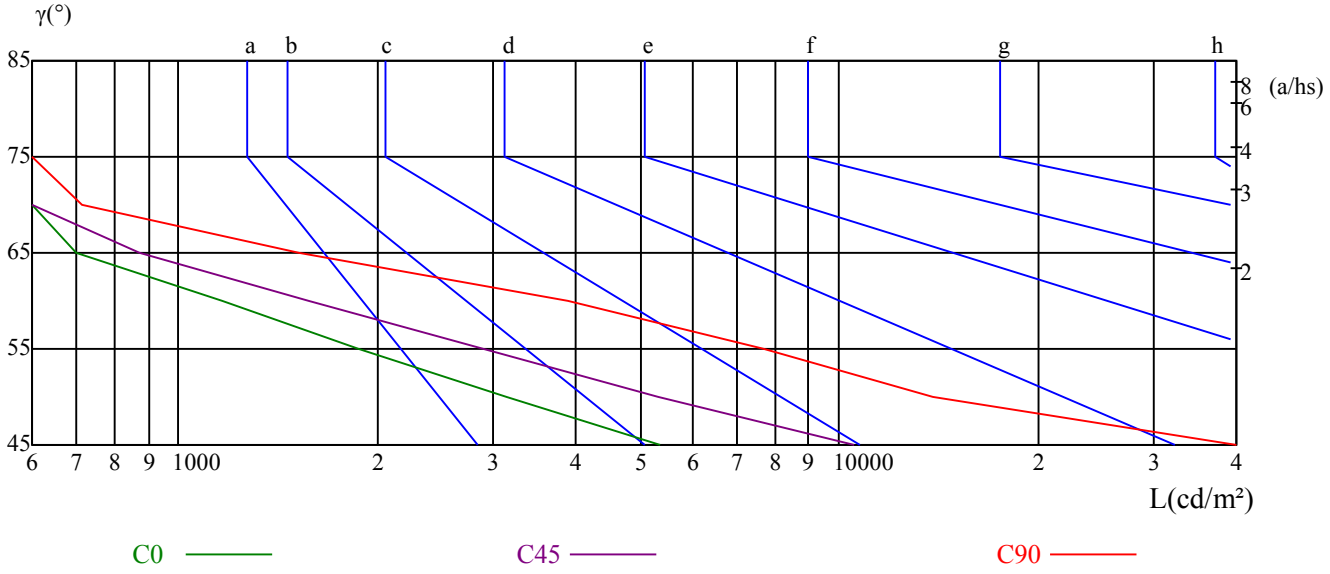
γ	45	50	55	60	65	70	75	80	85
C0	5372	3141	1880	1164	698	357	173	105	180
C45	10528	5333	2891	1577	875	449	228	122	148
C90	59908	13853	7676	3892	1525	715	346	210	154

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
1471	1261	1750	415	406	578	429	349	375

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 Limitting Curve



Equipment: GMS-1800
Temperature(°C): 25.0

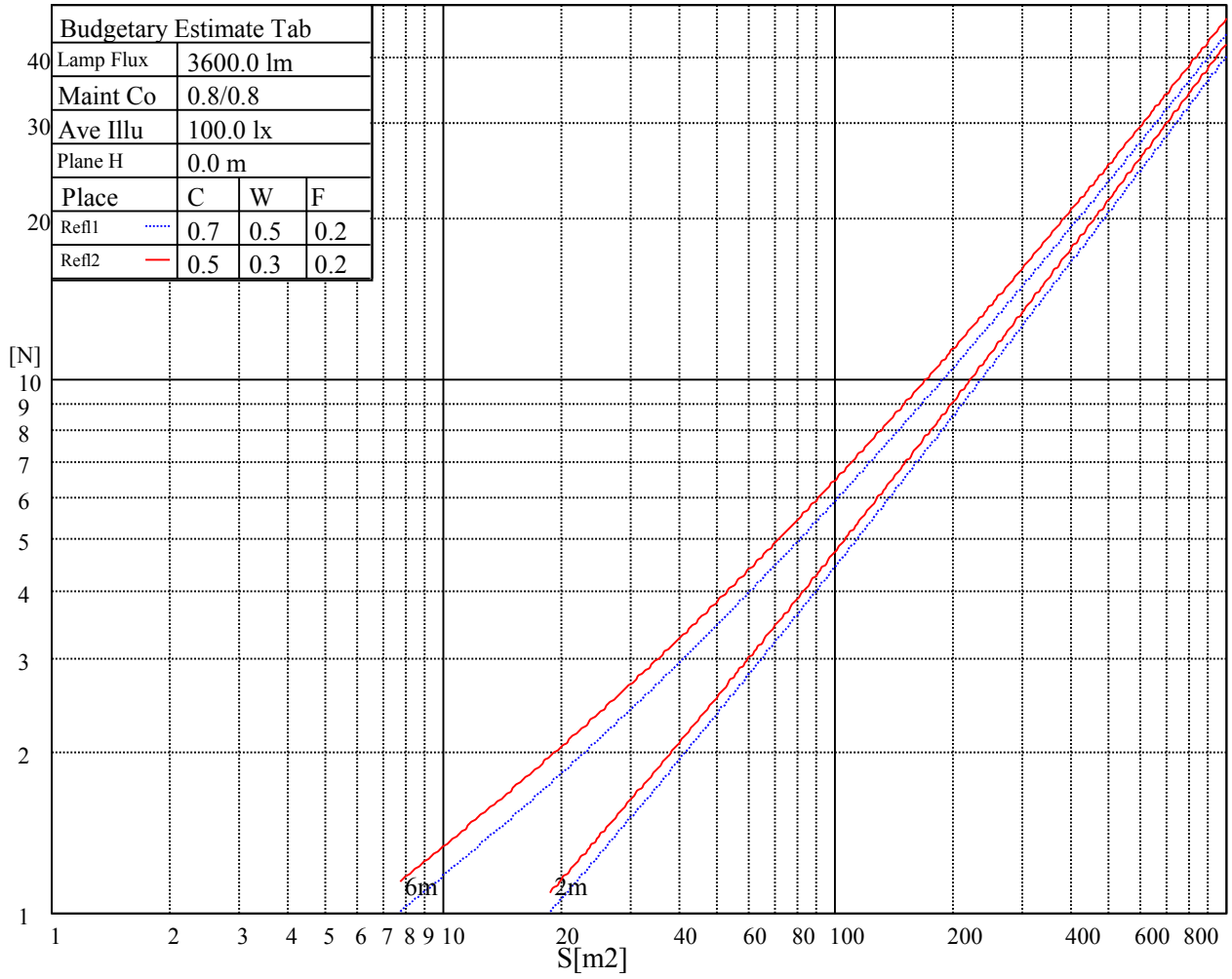
Date: 2022/8/26
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

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	7.1	8.0	7.4	8.2	8.4	17.7	18.6	17.9	18.8	19.0
	3H	7.0	7.7	7.3	8.0	8.2	17.5	18.3	17.8	18.5	18.8
	4H	6.8	7.4	7.1	7.7	8.0	17.3	18.0	17.7	18.3	18.6
	6H	6.8	7.4	7.1	7.7	8.0	17.3	18.0	17.7	18.3	18.6
	8H	6.8	7.4	7.1	7.7	8.0	17.3	18.0	17.7	18.3	18.6
	12H	6.6	7.1	7.0	7.4	7.8	17.1	17.6	17.5	18.0	18.4
4H	2H	6.8	7.5	7.2	7.8	8.1	17.3	18.0	17.7	18.3	18.6
	3H	6.6	7.1	7.1	7.5	7.9	17.1	17.6	17.5	18.0	18.4
	4H	6.6	7.1	7.1	7.5	7.9	17.1	17.6	17.5	18.0	18.4
	6H	6.6	7.1	7.1	7.5	7.9	17.1	17.6	17.5	18.0	18.4
	8H	6.4	6.7	6.9	7.2	7.7	16.9	17.2	17.4	17.7	18.2
	12H	6.4	6.7	6.9	7.2	7.7	16.9	17.2	17.4	17.7	18.2
8H	4H	6.4	6.7	6.9	7.2	7.7	16.9	17.2	17.4	17.7	18.2
	6H	6.4	6.7	6.9	7.2	7.7	16.9	17.2	17.4	17.7	18.2
	8H	6.4	6.7	6.9	7.2	7.7	16.9	17.2	17.4	17.7	18.2
	12H	6.4	6.7	6.9	7.2	7.7	16.9	17.2	17.4	17.7	18.2
12H	4H	6.4	6.7	6.9	7.2	7.7	16.9	17.2	17.4	17.7	18.2
	6H	6.4	6.7	6.9	7.2	7.7	16.9	17.2	17.4	17.7	18.2
	8H	6.4	6.7	6.9	7.2	7.7	16.9	17.2	17.4	17.7	18.2

Variation with the observer position at spacings:		
S = 1.0H	4.5/-8.8	4.7/-14.8
S = 1.5H	6.8/-12.4	7.5/-20.6
S = 2.0H	8.8/-14.5	9.5/-23.7
Standard tables:	BK0	BK0
Uncorrected UGR	-6.8	3.8

Budgetary Estimate Table



Equipment: GMS-1800
Temperature(°C): 25.0

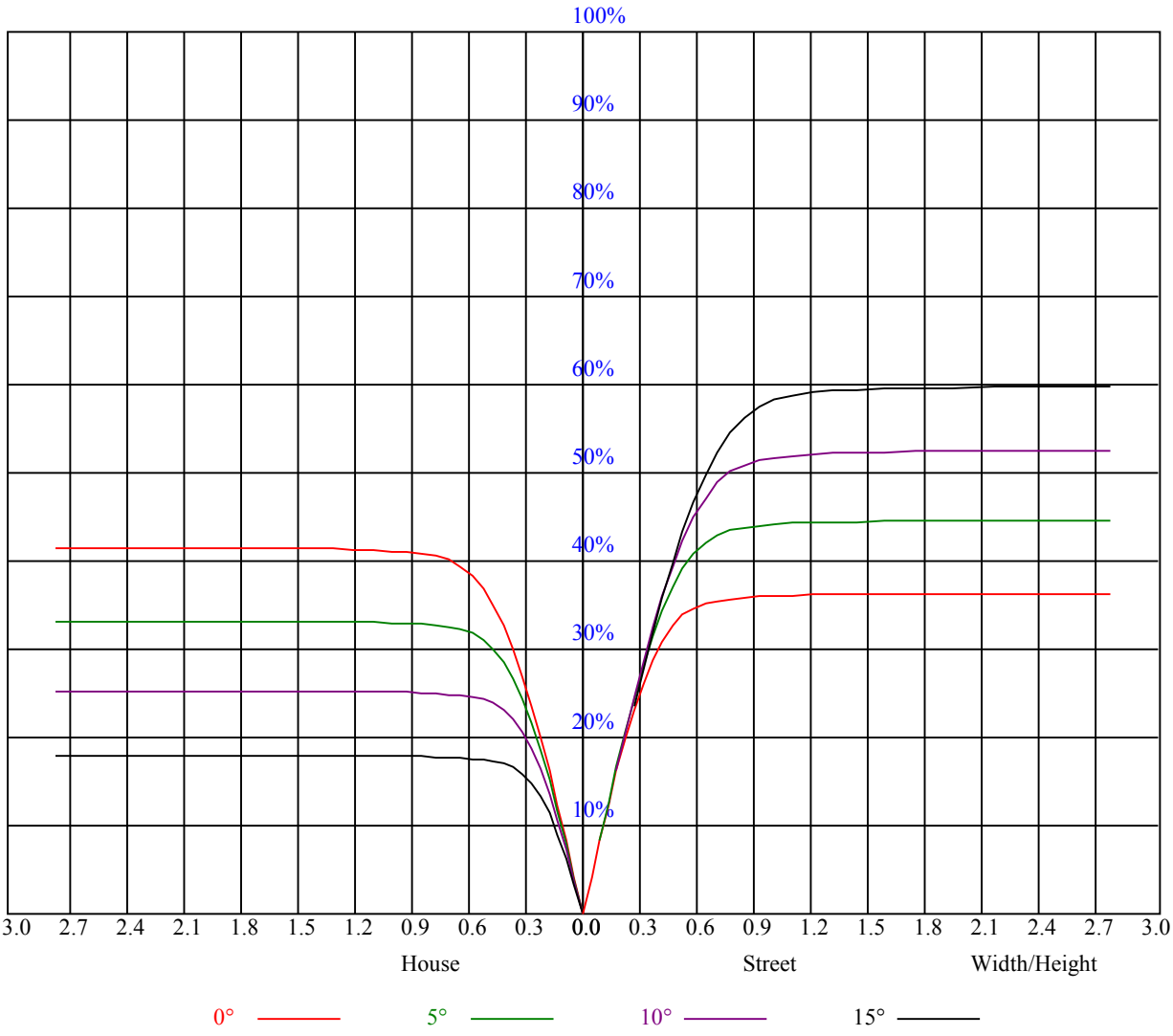
Date: 2022/8/26
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

Utilization factor table for indoor luminaire

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	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	0.93	0.93	0.93	0.91	0.91	0.91	0.87	0.87	0.87	0.83	0.83	0.83	0.79	0.79	0.79	0.78
1	0.86	0.84	0.82	0.84	0.83	0.81	0.81	0.80	0.79	0.78	0.77	0.76	0.76	0.75	0.74	0.73
2	0.80	0.77	0.74	0.79	0.76	0.73	0.76	0.74	0.72	0.74	0.72	0.70	0.72	0.70	0.69	0.67
3	0.74	0.71	0.67	0.73	0.70	0.67	0.71	0.68	0.66	0.69	0.67	0.65	0.68	0.66	0.64	0.63
4	0.69	0.65	0.62	0.69	0.65	0.61	0.67	0.63	0.61	0.65	0.62	0.60	0.64	0.61	0.59	0.58
5	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.56	0.61	0.58	0.56	0.60	0.57	0.55	0.54
6	0.61	0.56	0.53	0.60	0.56	0.52	0.59	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.51	0.50
7	0.57	0.52	0.49	0.56	0.52	0.49	0.55	0.51	0.49	0.55	0.51	0.48	0.54	0.50	0.48	0.47
8	0.54	0.49	0.46	0.53	0.49	0.46	0.52	0.48	0.45	0.51	0.48	0.45	0.51	0.47	0.45	0.44
9	0.51	0.46	0.43	0.50	0.46	0.43	0.49	0.45	0.42	0.49	0.45	0.42	0.48	0.45	0.42	0.41
10	0.48	0.43	0.40	0.47	0.43	0.40	0.47	0.43	0.40	0.46	0.42	0.40	0.46	0.42	0.40	0.39

Coefficient Utilization Curve



Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/26
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

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	3043.58	3037.91	3023.99	3005.96	2977.61	2947.20	2903.91	2854.95	2801.35
22.5	3036.88	3040.49	3036.88	3028.63	3015.23	2994.62	2967.82	2934.83	2893.09
45.0	3035.33	3035.85	3031.73	3018.84	3003.38	2984.31	2959.57	2930.20	2900.30
67.5	3034.30	3034.82	3037.40	3034.30	3032.24	3024.51	3014.72	2995.13	2988.43
90.0	3076.05	3075.53	3077.08	3077.59	3077.08	3070.89	3063.16	3054.40	3045.64
112.5	3068.83	3068.32	3066.77	3061.62	3052.34	3042.55	3028.12	3016.78	3003.90
135.0	3058.53	3059.04	3056.98	3053.89	3046.16	3035.85	3021.42	3003.38	2982.25
157.5	3050.79	3045.13	3035.85	3020.90	3004.93	2981.73	2956.48	2926.07	2892.06
180.0	3043.58	3046.16	3038.43	3029.15	3015.23	2999.26	2975.03	2947.20	2915.25
202.5	3037.40	3032.76	3020.90	3008.02	2994.62	2972.46	2945.14	2915.77	2879.17
225.0	3035.33	3033.79	3033.27	3025.03	3016.26	3004.93	2986.37	2965.24	2942.05
247.5	3034.30	3030.18	3028.63	3022.96	3011.63	3000.80	2985.34	2969.88	2952.36
270.0	3076.05	3074.50	3070.89	3062.65	3051.83	3042.03	3030.18	3015.23	2998.23
292.5	3068.83	3068.32	3067.80	3063.16	3055.43	3043.58	3029.66	3015.23	2999.26
315.0	3058.53	3054.40	3049.25	3037.40	3014.72	2991.01	2975.55	2946.69	2913.19
337.5	3050.79	3052.34	3047.70	3037.91	3022.96	3001.32	2973.49	2942.05	2899.79
360.0	3043.58	3037.91	3023.99	3005.96	2977.61	2947.20	2903.91	2854.95	2801.35

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2737.96	2666.84	2590.04	2507.07	2418.42	2323.59	2226.19	2122.08	2020.03
22.5	2845.16	2792.07	2731.26	2665.81	2593.65	2515.31	2431.82	2379.77	2288.55
45.0	2863.71	2820.94	2784.86	2736.41	2672.51	2625.61	2564.28	2499.85	2433.37
67.5	2974.52	2951.84	2929.17	2904.43	2878.66	2848.25	2813.72	2779.70	2741.57
90.0	3034.82	3021.93	3006.47	2986.89	2969.36	2946.17	2922.47	2895.15	2866.29
112.5	2982.25	2967.30	2945.14	2914.22	2894.12	2865.77	2832.79	2799.29	2764.76
135.0	2959.06	2932.77	2903.91	2871.44	2836.91	2797.23	2756.00	2709.10	2661.17
157.5	2850.83	2804.44	2774.55	2702.40	2667.35	2609.11	2545.72	2476.66	2402.96
180.0	2877.11	2834.85	2787.44	2732.81	2674.05	2611.18	2542.63	2465.32	2390.59
202.5	2838.97	2792.07	2741.57	2687.45	2628.70	2566.34	2495.21	2425.12	2350.39
225.0	2914.73	2884.84	2866.29	2830.73	2775.58	2749.30	2704.46	2657.56	2606.02
247.5	2930.20	2907.00	2880.72	2852.89	2824.03	2791.04	2763.73	2720.95	2691.57
270.0	2978.64	2957.51	2934.83	2911.13	2882.78	2854.95	2822.48	2790.01	2755.48
292.5	2978.64	2954.42	2929.68	2913.19	2883.81	2852.89	2817.84	2781.77	2743.11
315.0	2876.08	2834.33	2788.98	2739.50	2685.39	2628.18	2568.91	2506.04	2439.04
337.5	2861.13	2797.23	2750.33	2684.87	2599.84	2538.51	2456.05	2372.04	2282.88
360.0	2737.96	2666.84	2590.04	2507.07	2418.42	2323.59	2226.19	2122.08	2020.03

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1924.17	1856.14	1661.84	1572.68	1427.35	1158.32	1008.39	1008.39	876.56
22.5	2155.06	2098.37	2006.63	1870.57	1798.94	1664.42	1523.72	1387.66	1246.45
45.0	2362.76	2290.61	2212.79	2134.45	2054.56	1978.29	1902.53	1813.37	1704.62
67.5	2701.88	2659.11	2614.27	2567.37	2520.98	2472.02	2422.55	2373.07	2339.05
90.0	2836.40	2803.41	2768.88	2733.32	2697.24	2676.11	2627.15	2603.44	2564.79
112.5	2726.62	2685.91	2644.16	2600.87	2557.58	2514.28	2469.45	2423.58	2373.58
135.0	2609.63	2567.88	2510.68	2451.92	2390.08	2326.69	2258.66	2189.59	2118.47
157.5	2327.20	2244.74	2160.73	2077.76	2003.54	1936.54	1862.33	1768.01	1646.38
180.0	2306.07	2217.42	2129.81	2043.74	1997.87	1895.83	1804.09	1735.54	1602.06
202.5	2267.93	2187.02	2101.98	2022.10	1952.52	1881.40	1794.81	1730.91	1548.46
225.0	2551.91	2496.76	2435.95	2374.10	2309.16	2241.65	2168.46	2098.89	2026.73
247.5	2650.34	2609.11	2565.31	2520.47	2476.15	2428.73	2382.86	2332.35	2284.42
270.0	2719.41	2684.87	2647.25	2611.18	2572.01	2531.29	2506.04	2461.71	2414.30
292.5	2701.88	2658.59	2613.24	2568.91	2522.01	2474.60	2425.64	2374.62	2322.05
315.0	2368.95	2296.79	2220.52	2144.24	2065.90	1988.60	1944.79	1870.57	1779.35
337.5	2190.11	2094.76	2004.57	1912.32	1797.39	1662.36	1522.18	1384.57	1244.90
360.0	1924.17	1856.14	1661.84	1572.68	1427.35	1158.32	1008.39	1008.39	876.56

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	740.50	616.45	496.57	378.55	281.76	220.94	191.88	173.12	154.56
22.5	1108.33	977.42	850.64	721.27	600.16	485.75	372.88	281.14	281.14
45.0	1584.02	1463.42	1342.31	1220.68	982.93	982.93	913.51	795.03	676.28
67.5	2287.00	2206.09	2168.98	2106.10	2039.62	1965.92	1886.04	1801.00	1710.81
90.0	2523.56	2479.24	2435.43	2386.98	2335.96	2279.79	2217.42	2148.36	2072.09
112.5	2325.14	2272.57	2218.97	2162.28	2099.92	2060.75	1990.66	1882.94	1833.98
135.0	2046.32	1978.80	1917.99	1863.36	1802.54	1727.30	1627.31	1510.32	1387.15
157.5	1508.78	1373.75	1241.29	980.36	980.36	878.78	750.96	625.41	514.40
180.0	1458.27	1318.09	1178.93	1038.23	909.39	778.48	650.15	530.07	414.62
202.5	1461.88	1326.33	955.15	955.15	930.78	807.09	678.76	559.96	446.06
225.0	1957.16	1898.40	1839.14	1775.74	1728.84	1631.95	1467.03	1392.82	1269.64
247.5	2230.31	2174.65	2117.44	2055.60	1989.63	1918.50	1841.71	1760.80	1675.76
270.0	2364.82	2312.25	2257.11	2196.81	2130.84	2054.56	1969.01	1876.24	1773.68
292.5	2265.87	2206.60	2144.24	2076.73	2003.54	1925.20	1873.67	1787.60	1655.66
315.0	1621.64	1548.98	1427.35	1308.29	1015.45	1015.45	916.96	799.82	678.96
337.5	1105.23	973.81	843.42	767.14	595.52	481.62	413.59	311.03	278.56
360.0	740.50	616.45	496.57	378.55	281.76	220.94	191.88	173.12	154.56

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	141.78	119.88	105.76	96.63	85.76	74.58	65.66	58.91	52.41
22.5	215.58	176.62	157.71	141.11	122.97	107.35	95.40	83.90	72.82
45.0	565.53	460.13	353.14	266.55	205.69	171.67	150.03	129.41	110.70
67.5	1622.16	1534.55	1447.45	1354.68	1243.36	1095.96	920.21	730.04	564.08
90.0	1987.05	1893.77	1789.14	1665.97	1509.29	1397.45	1078.95	953.71	766.11
112.5	1747.40	1659.27	1570.11	1477.34	1374.26	1018.08	946.08	910.93	746.89
135.0	1268.61	1146.46	1071.73	895.99	777.97	704.27	544.50	481.11	374.42
157.5	398.75	296.03	225.58	185.95	165.64	148.02	129.05	112.71	100.24
180.0	306.39	271.35	256.92	166.26	152.24	130.49	116.99	104.26	93.54
202.5	334.64	250.22	199.09	173.68	154.46	137.14	121.63	104.67	95.60
225.0	1145.43	1019.68	900.11	782.09	664.58	548.62	442.45	335.77	260.01
247.5	1623.19	1501.56	1417.55	1367.56	1024.78	988.96	988.96	801.62	642.68
270.0	1652.05	1502.08	998.86	912.38	876.97	734.06	548.36	366.13	232.95
292.5	1598.97	1504.65	1413.95	1321.18	1204.19	1044.42	852.70	671.28	531.10
315.0	564.65	457.76	352.67	260.27	196.36	161.16	148.64	121.94	111.37
337.5	264.65	179.87	161.11	144.20	126.11	109.67	97.30	86.22	74.78
360.0	141.78	119.88	105.76	96.63	85.76	74.58	65.66	58.91	52.41

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	45.87	40.66	36.33	32.31	28.14	24.79	22.16	19.74	17.42
22.5	63.86	56.59	49.79	43.34	38.24	33.60	29.43	25.46	22.26
45.0	93.13	78.90	69.78	58.03	49.37	43.86	38.19	33.19	28.76
67.5	438.85	324.95	279.08	168.07	97.87	73.34	62.00	52.83	45.46
90.0	511.52	400.71	281.66	281.66	125.08	109.31	95.71	83.23	72.15
112.5	598.36	438.49	309.33	182.39	131.53	98.90	84.99	73.13	62.93
135.0	274.44	274.44	152.45	130.08	111.94	94.83	80.09	69.16	59.99
157.5	88.49	77.00	71.43	60.71	53.65	49.84	41.64	38.81	34.43
180.0	81.79	72.10	64.58	57.77	51.18	45.04	40.35	36.23	32.01
202.5	83.80	73.29	65.20	58.08	51.33	44.99	39.99	35.56	31.18
225.0	260.01	145.13	132.87	107.35	90.76	83.03	67.67	62.15	53.34
247.5	494.10	344.69	215.12	136.94	94.21	79.21	67.93	58.39	51.49
270.0	155.08	123.85	107.82	94.21	81.95	71.33	62.26	54.42	47.57
292.5	399.68	287.84	287.84	110.09	75.86	64.83	59.17	47.78	43.60
315.0	94.62	79.57	68.29	58.91	50.46	43.45	37.83	33.09	28.66
337.5	67.26	58.24	52.77	46.23	39.43	35.77	31.44	27.26	23.81
360.0	45.87	40.66	36.33	32.31	28.14	24.79	22.16	19.74	17.42

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	15.26	13.50	11.96	10.57	9.23	8.04	7.47	6.60	5.62
22.5	19.58	18.19	15.87	13.14	12.16	10.72	9.43	8.25	7.22
45.0	25.00	21.80	18.91	16.34	14.12	12.27	10.72	9.33	7.99
67.5	39.01	33.45	28.76	24.79	21.34	18.40	15.82	13.66	12.37
90.0	62.93	55.15	48.34	41.80	37.57	28.60	25.00	19.74	14.59
112.5	53.86	46.69	40.25	34.79	30.05	25.61	21.75	18.35	15.62
135.0	51.54	46.08	39.32	34.32	30.61	26.49	22.52	20.20	17.52
157.5	30.05	26.34	23.40	20.77	18.30	16.03	14.12	12.58	11.08
180.0	27.99	25.00	22.47	19.95	17.47	15.41	13.86	12.32	10.82
202.5	27.32	24.17	21.49	19.02	16.70	14.74	13.14	11.65	10.20
225.0	46.59	40.87	35.66	30.97	27.01	23.60	20.56	17.88	15.56
247.5	44.63	37.42	33.14	28.71	24.64	21.29	18.19	15.62	13.35
270.0	41.02	33.91	27.99	22.06	18.24	14.64	12.99	10.00	8.76
292.5	37.67	32.57	27.99	24.17	20.67	17.73	15.00	12.83	10.87
315.0	24.79	21.65	18.91	16.39	14.17	12.42	10.87	9.38	8.09
337.5	21.08	18.71	16.34	14.28	12.63	11.18	9.79	8.45	7.47
360.0	15.26	13.50	11.96	10.57	9.23	8.04	7.47	6.60	5.62

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	5.21	4.48	3.92	3.40	2.99	2.42	2.01	1.70	1.39
22.5	6.39	5.62	5.00	4.38	3.81	3.30	2.94	2.47	1.96
45.0	6.96	6.03	5.26	4.43	3.81	3.30	2.83	2.32	2.11
67.5	9.90	8.45	7.63	6.49	5.51	4.59	3.81	3.25	2.68
90.0	12.73	10.57	8.56	7.01	5.88	4.74	4.02	3.40	2.73
112.5	13.19	11.13	9.33	7.83	6.55	5.88	4.48	3.66	3.20
135.0	15.26	13.30	11.54	9.90	8.50	7.42	6.34	5.36	4.64
157.5	9.64	8.45	7.52	6.65	5.82	5.36	4.43	3.87	3.56
180.0	9.95	8.76	7.83	7.06	6.18	5.36	4.74	4.23	3.61
202.5	9.48	8.30	7.11	6.65	5.82	5.00	4.43	3.92	3.30
225.0	13.55	11.80	10.26	8.92	7.68	6.65	5.72	4.84	4.48
247.5	11.44	9.59	8.19	6.91	5.77	4.74	3.97	3.30	2.73
270.0	7.42	6.24	5.15	4.33	3.61	3.09	2.58	2.16	1.80
292.5	9.17	7.73	6.55	5.51	4.59	3.87	3.45	2.68	2.22
315.0	7.42	6.44	5.57	4.74	4.02	3.45	2.99	2.47	2.11
337.5	6.60	5.82	5.10	4.69	3.87	3.40	3.14	2.42	2.16
360.0	5.21	4.48	3.92	3.40	2.99	2.42	2.01	1.70	1.39

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	1.08	0.93	0.82	0.67	0.57	0.52	0.46	0.36	0.31
22.5	1.65	1.34	1.03	0.77	0.77	0.62	0.52	0.46	0.41
45.0	1.65	1.34	1.19	0.98	0.72	0.67	0.57	0.46	0.41
67.5	2.22	1.80	1.49	1.24	1.03	0.82	0.72	0.62	0.52
90.0	2.32	1.91	1.60	1.34	1.13	0.98	0.77	0.77	0.62
112.5	2.63	2.11	1.70	1.39	1.13	0.88	0.72	0.67	0.52
135.0	3.97	3.30	2.78	2.37	2.01	1.55	1.24	1.03	0.82
157.5	2.78	2.42	2.01	1.60	1.24	1.03	0.88	0.57	0.46
180.0	2.99	2.47	2.11	1.65	1.34	1.19	0.82	0.72	0.67
202.5	2.73	2.22	1.91	1.49	1.19	0.98	0.77	0.57	0.52
225.0	3.56	3.20	2.68	2.27	1.86	1.49	1.24	0.98	0.72
247.5	2.42	1.80	1.65	1.39	1.03	0.88	0.77	0.67	0.57
270.0	1.60	1.34	1.13	1.03	0.88	0.72	0.67	0.67	0.57
292.5	2.01	1.60	1.44	1.19	0.98	0.82	0.77	0.72	0.57
315.0	1.86	1.49	1.19	0.98	0.82	0.67	0.57	0.52	0.52
337.5	1.80	1.44	1.13	0.98	0.77	0.62	0.57	0.52	0.41
360.0	1.08	0.93	0.82	0.67	0.57	0.52	0.46	0.36	0.31

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	0.31	0.36	0.31	0.36	0.36	0.36	0.36	0.36	0.36
22.5	0.36	0.36	0.36	0.31	0.41	0.36	0.36	0.36	0.41
45.0	0.41	0.36	0.36	0.36	0.36	0.41	0.41	0.41	0.36
67.5	0.46	0.52	0.41	0.41	0.41	0.46	0.46	0.46	0.41
90.0	0.52	0.41	0.36	0.36	0.31	0.36	0.31	0.36	0.36
112.5	0.41	0.41	0.31	0.36	0.36	0.31	0.26	0.36	0.31
135.0	0.67	0.52	0.46	0.31	0.31	0.31	0.31	0.31	0.36
157.5	0.46	0.31	0.36	0.31	0.31	0.31	0.36	0.31	0.31
180.0	0.52	0.41	0.36	0.36	0.31	0.36	0.31	0.31	0.36
202.5	0.46	0.36	0.36	0.31	0.36	0.41	0.36	0.36	0.41
225.0	0.67	0.57	0.52	0.41	0.36	0.36	0.41	0.36	0.41
247.5	0.46	0.46	0.41	0.41	0.41	0.41	0.41	0.41	0.41
270.0	0.52	0.52	0.52	0.52	0.52	0.46	0.46	0.46	0.52
292.5	0.57	0.52	0.46	0.46	0.52	0.52	0.46	0.46	0.52
315.0	0.41	0.36	0.36	0.41	0.41	0.41	0.46	0.46	0.41
337.5	0.36	0.36	0.31	0.41	0.36	0.36	0.41	0.41	0.41
360.0	0.31	0.36	0.31	0.36	0.36	0.36	0.36	0.36	0.36

C/γ(°)	90.0
0.0	0.41
22.5	0.41
45.0	0.36
67.5	0.46
90.0	0.36
112.5	0.36
135.0	0.36
157.5	0.31
180.0	0.31
202.5	0.36
225.0	0.36
247.5	0.41
270.0	0.57
292.5	0.52
315.0	0.52
337.5	0.41
360.0	0.41