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Nata

LumCAT: 2-2323-M	
Luminaire: 92.70.131.00	
Report No: 210727-B012	Voltage(V): 35.0800
Test No: 210727-C012	Current(A): 0.4800
LampCAT: TRIDONIC SLE G7 13MM	Power (W): 16.8380
Lamp flux(lm): 2456.4	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): 2231.27
Efficiency(%): 90.83%
Lumens(lm)/Power(W): 132.51
Central intensity(cd): 2879.438
Maximum intensity(cd): 4752.563
Angle of maximum intensity: C=90.0 γ =13.0
Beam Angle(50%Imax): [C0/180]Total=48.9
 [C90/270]Total=36.6
Field angle(10%Imax): [C0/180]Total=65.8
 [C90/270]Total=59.9
Maximum s/h(1/2): C0_180=0.68 C90_270=0.97
Maximum s/h(1/4): C0_180=0.72 C90_270=0.79
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.83%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.314%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2914.207	0.000	0	.000%	.000%
1.0	2919.480	2.791	2.791	.114%	.125%
2.0	2944.688	8.417	11.208	.343%	.502%
3.0	2981.848	14.174	25.382	.577%	1.138%
4.0	3016.863	20.080	45.462	.817%	2.037%
5.0	3055.043	26.121	71.583	1.063%	3.208%
6.0	3092.273	32.306	103.889	1.315%	4.656%
7.0	3130.840	38.627	142.516	1.572%	6.387%
8.0	3165.117	45.059	187.575	1.834%	8.407%
9.0	3187.266	51.483	239.057	2.096%	10.714%
10.0	3185.789	57.674	296.731	2.348%	13.299%
11.0	3170.777	63.515	360.246	2.586%	16.145%
12.0	3146.555	69.057	429.304	2.811%	19.240%
13.0	3104.191	74.181	503.484	3.020%	22.565%
14.0	3047.238	78.738	582.222	3.205%	26.094%
15.0	2969.438	82.600	664.822	3.363%	29.796%
16.0	2874.551	85.631	750.452	3.486%	33.633%
17.0	2767.641	87.864	838.316	3.577%	37.571%
18.0	2632.816	89.042	927.358	3.625%	41.562%
19.0	2519.824	89.645	1017.004	3.649%	45.580%
20.0	2408.238	90.197	1107.201	3.672%	49.622%
21.0	2294.930	90.310	1197.511	3.677%	53.669%
22.0	2181.762	89.961	1287.472	3.662%	57.701%
23.0	2066.660	89.143	1376.616	3.629%	61.696%
24.0	1928.900	87.357	1463.973	3.556%	65.612%
25.0	1806.086	84.925	1548.898	3.457%	69.418%
26.0	1666.501	81.971	1630.869	3.337%	73.092%
27.0	1507.602	77.655	1708.524	3.161%	76.572%
28.0	1347.638	72.289	1780.813	2.943%	79.812%
29.0	1179.299	66.112	1846.925	2.691%	82.775%
30.0	1021.665	59.426	1906.35	2.419%	85.438%
31.0	857.528	52.295	1958.646	2.129%	87.782%
32.0	703.951	44.735	2003.38	1.821%	89.787%
33.0	545.934	36.822	2040.202	1.499%	91.437%
34.0	445.992	30.019	2070.221	1.222%	92.782%
35.0	344.225	24.541	2094.762	.999%	93.882%
36.0	257.442	19.157	2113.919	.780%	94.741%
37.0	195.455	14.771	2128.69	.601%	95.403%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	137.373	11.109	2139.8	.452%	95.900%
39.0	101.415	8.151	2147.95	.332%	96.266%
40.0	75.800	6.181	2154.131	.252%	96.543%
41.0	58.588	4.786	2158.916	.195%	96.757%
42.0	45.439	3.779	2162.696	.154%	96.927%
43.0	36.049	3.019	2165.714	.123%	97.062%
44.0	30.607	2.516	2168.23	.102%	97.175%
45.0	26.715	2.203	2170.433	.090%	97.273%
46.0	23.885	1.979	2172.412	.081%	97.362%
47.0	22.184	1.832	2174.244	.075%	97.444%
48.0	20.879	1.741	2175.985	.071%	97.522%
49.0	19.814	1.671	2177.656	.068%	97.597%
50.0	18.896	1.614	2179.27	.066%	97.669%
51.0	18.116	1.566	2180.836	.064%	97.740%
52.0	17.462	1.527	2182.363	.062%	97.808%
53.0	16.882	1.494	2183.857	.061%	97.875%
54.0	16.281	1.462	2185.318	.060%	97.941%
55.0	15.884	1.436	2186.754	.058%	98.005%
56.0	15.420	1.415	2188.169	.058%	98.068%
57.0	15.043	1.393	2189.561	.057%	98.131%
58.0	14.699	1.375	2190.937	.056%	98.192%
59.0	14.393	1.360	2192.297	.055%	98.253%
60.0	14.119	1.347	2193.644	.055%	98.314%
61.0	13.897	1.337	2194.981	.054%	98.374%
62.0	13.736	1.332	2196.312	.054%	98.433%
63.0	13.574	1.328	2197.641	.054%	98.493%
64.0	13.373	1.322	2198.963	.054%	98.552%
65.0	13.194	1.315	2200.278	.054%	98.611%
66.0	13.032	1.309	2201.586	.053%	98.670%
67.0	12.941	1.306	2202.892	.053%	98.728%
68.0	12.818	1.305	2204.197	.053%	98.787%
69.0	12.748	1.304	2205.501	.053%	98.845%
70.0	12.691	1.307	2206.808	.053%	98.904%
71.0	12.646	1.310	2208.117	.053%	98.962%
72.0	12.572	1.311	2209.429	.053%	99.021%
73.0	12.470	1.310	2210.738	.053%	99.080%
74.0	12.315	1.303	2212.041	.053%	99.138%
75.0	12.157	1.293	2213.334	.053%	99.196%

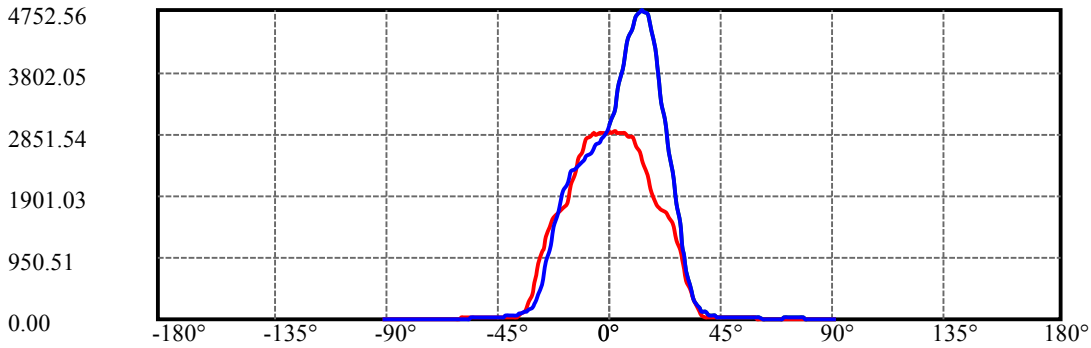
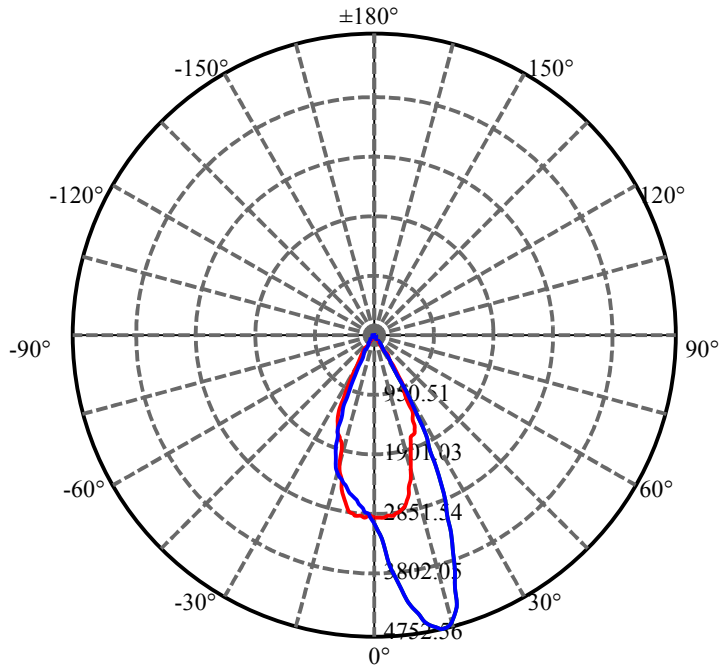
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.023	1.284	2214.618	.052%	99.254%
77.0	11.925	1.277	2215.895	.052%	99.311%
78.0	11.816	1.271	2217.165	.052%	99.368%
79.0	11.704	1.264	2218.429	.051%	99.424%
80.0	11.563	1.254	2219.683	.051%	99.481%
81.0	11.447	1.244	2220.928	.051%	99.536%
82.0	11.254	1.231	2222.159	.050%	99.592%
83.0	11.123	1.216	2223.375	.050%	99.646%
84.0	10.979	1.204	2224.579	.049%	99.700%
85.0	10.484	1.171	2225.751	.048%	99.753%
86.0	10.304	1.136	2226.887	.046%	99.804%
87.0	10.090	1.116	2228.003	.045%	99.854%
88.0	9.984	1.100	2229.103	.045%	99.903%
89.0	9.872	1.088	2230.191	.044%	99.952%
90.0	9.816	1.079	2231.271	.044%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1906.35	77.61%	85.44%
0-40	2154.13	87.69%	96.54%
0-60	2193.64	89.30%	98.31%
0-90	2230.19	90.79%	99.95%
0-120	2230.19	90.79%	99.95%
0-180	2231.27	90.83%	100.00%
60-90	37.89	1.54%	1.70%
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	1785.02	72.67%	80.00%

ZONAL LUMEN SUMMARY

0-10	296.73
10-20	810.47
20-30	799.15
30-40	247.78
40-50	25.14
50-60	14.37
60-70	13.16
70-80	12.88
80-90	10.51
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: ———

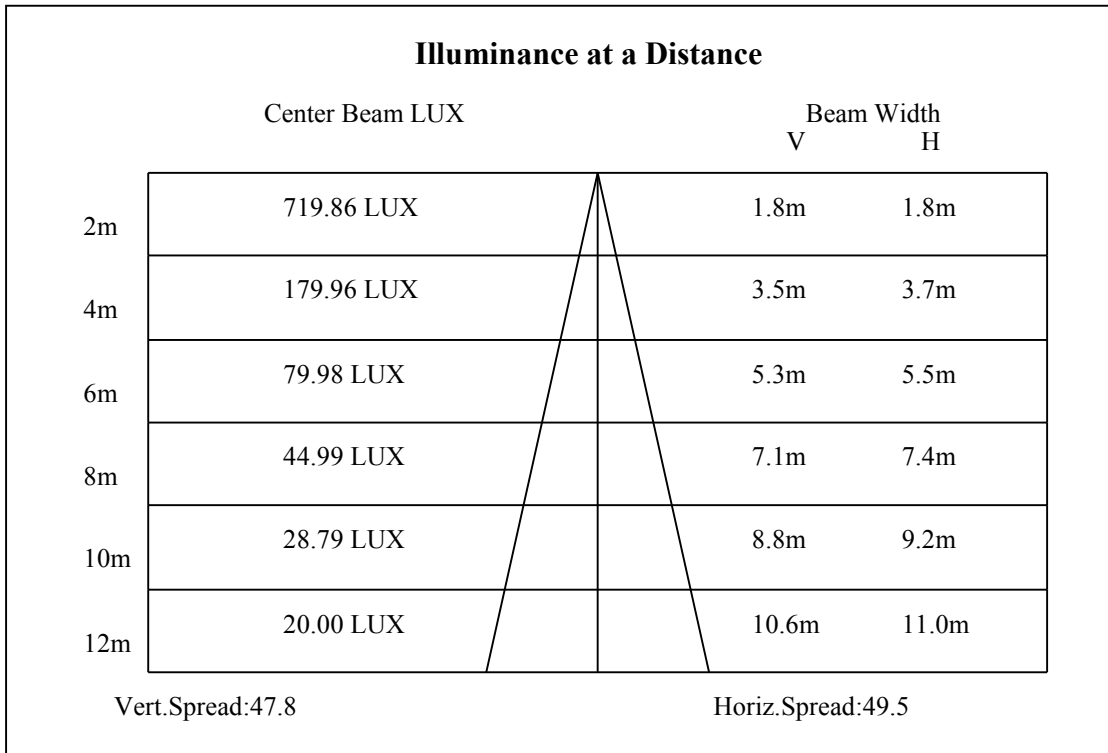
C90/C270: ———

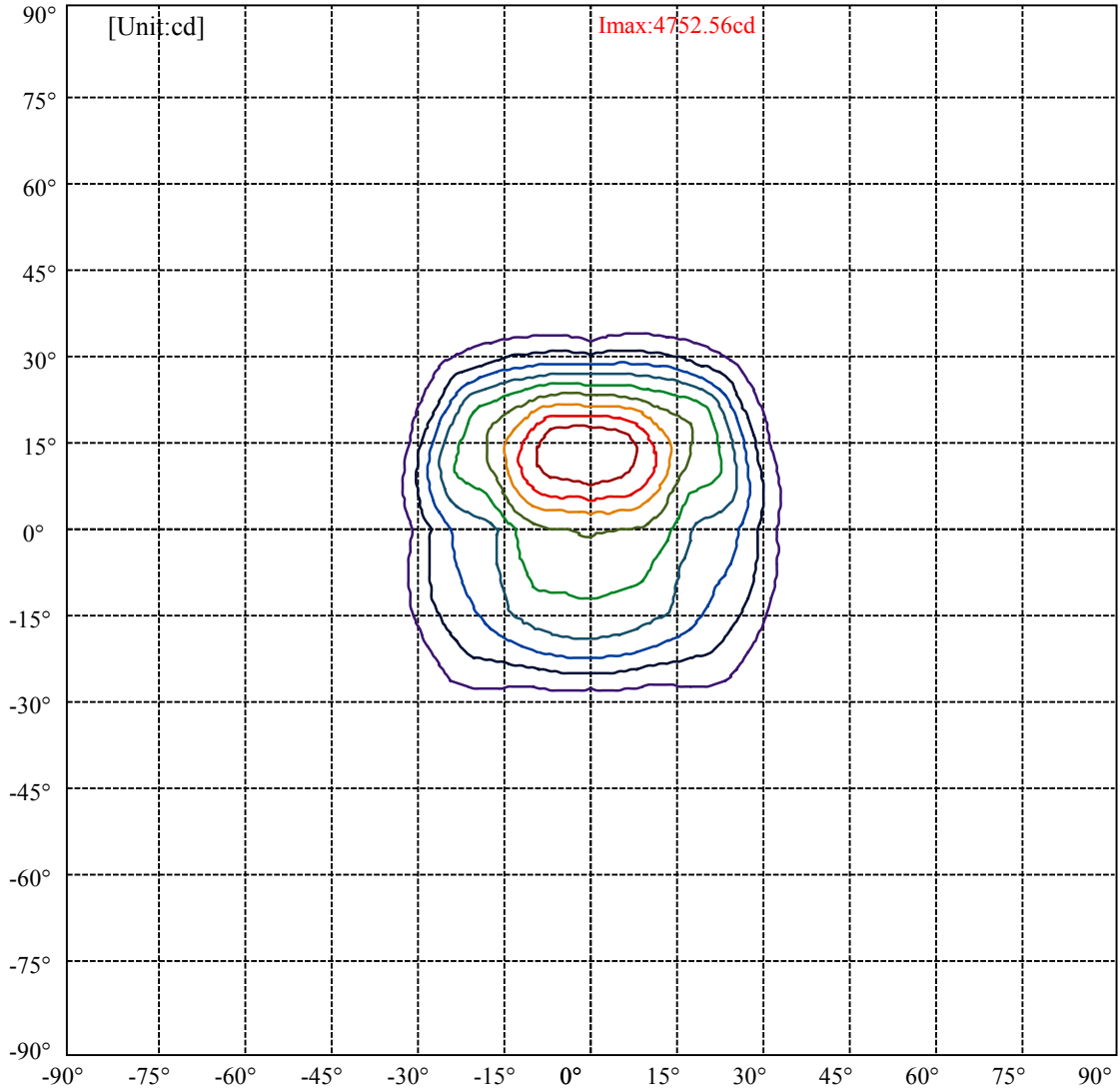
Field angle(10%Imax):C0/180Left:33.8 Right:32.0

:C90/270Left:40.5 Right:19.4

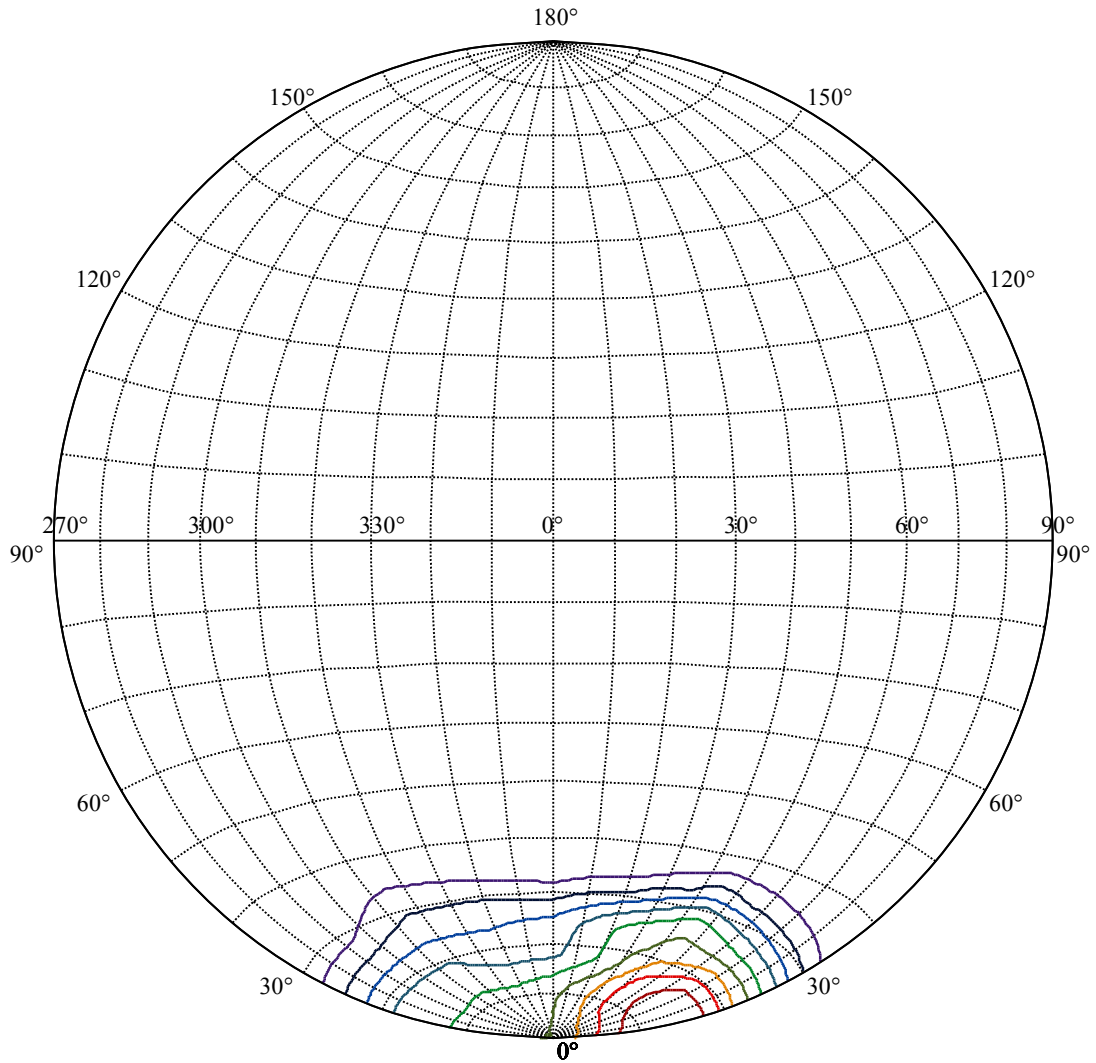
Beam Angle(50%Imax):C0/180Left:25.7 Right:23.2

:C90/270Left:25.0 Right:11.7





(10%Imax) 475.256	—
(20%Imax) 950.513	—
(30%Imax) 1425.77	—
(40%Imax) 1901.03	—
(50%Imax) 2376.28	—
(60%Imax) 2851.54	—
(70%Imax) 3326.79	—
(80%Imax) 3802.05	—
(90%Imax) 4277.31	—



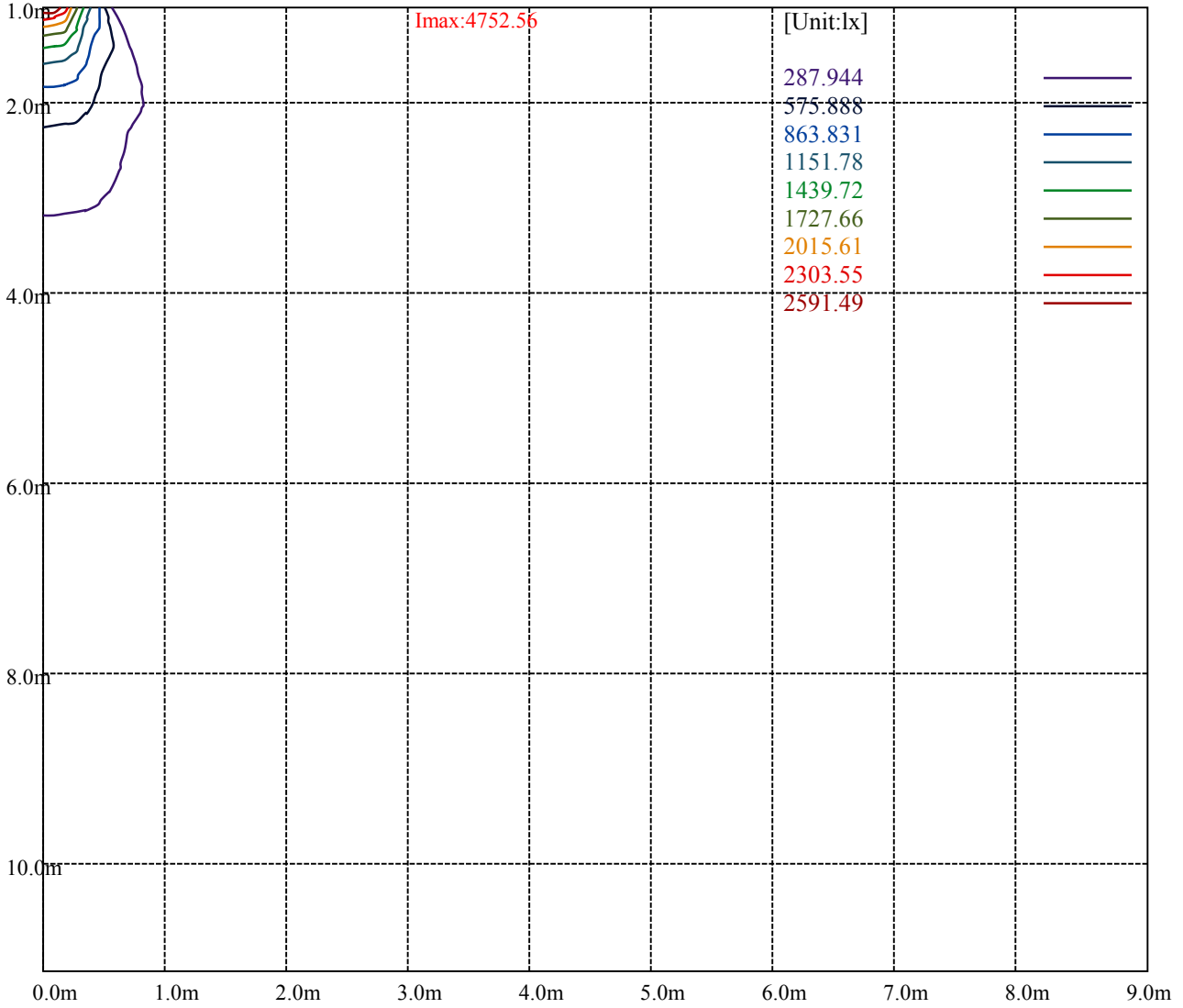
House

[Unit:cd]

Road

Imax:4752.56

(10%Imax) 475.256	—
(20%Imax) 950.513	—
(30%Imax) 1425.77	—
(40%Imax) 1901.03	—
(50%Imax) 2376.28	—
(60%Imax) 2851.54	—
(70%Imax) 3326.79	—
(80%Imax) 3802.05	—
(90%Imax) 4277.31	—



Luminance Table

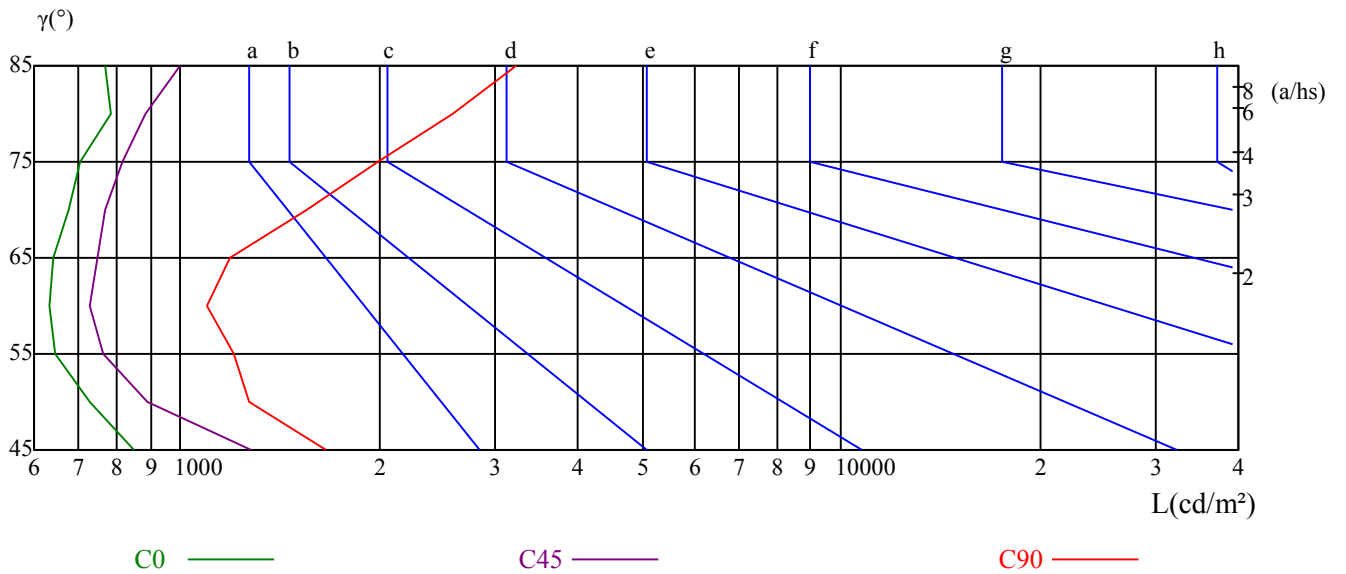
γ	45	50	55	60	65	70	75	80	85
C0	848	727	648	632	643	676	704	782	770
C45	1276	892	762	729	748	770	815	886	996
C90	1666	1271	1201	1096	1187	1550	1985	2591	3215

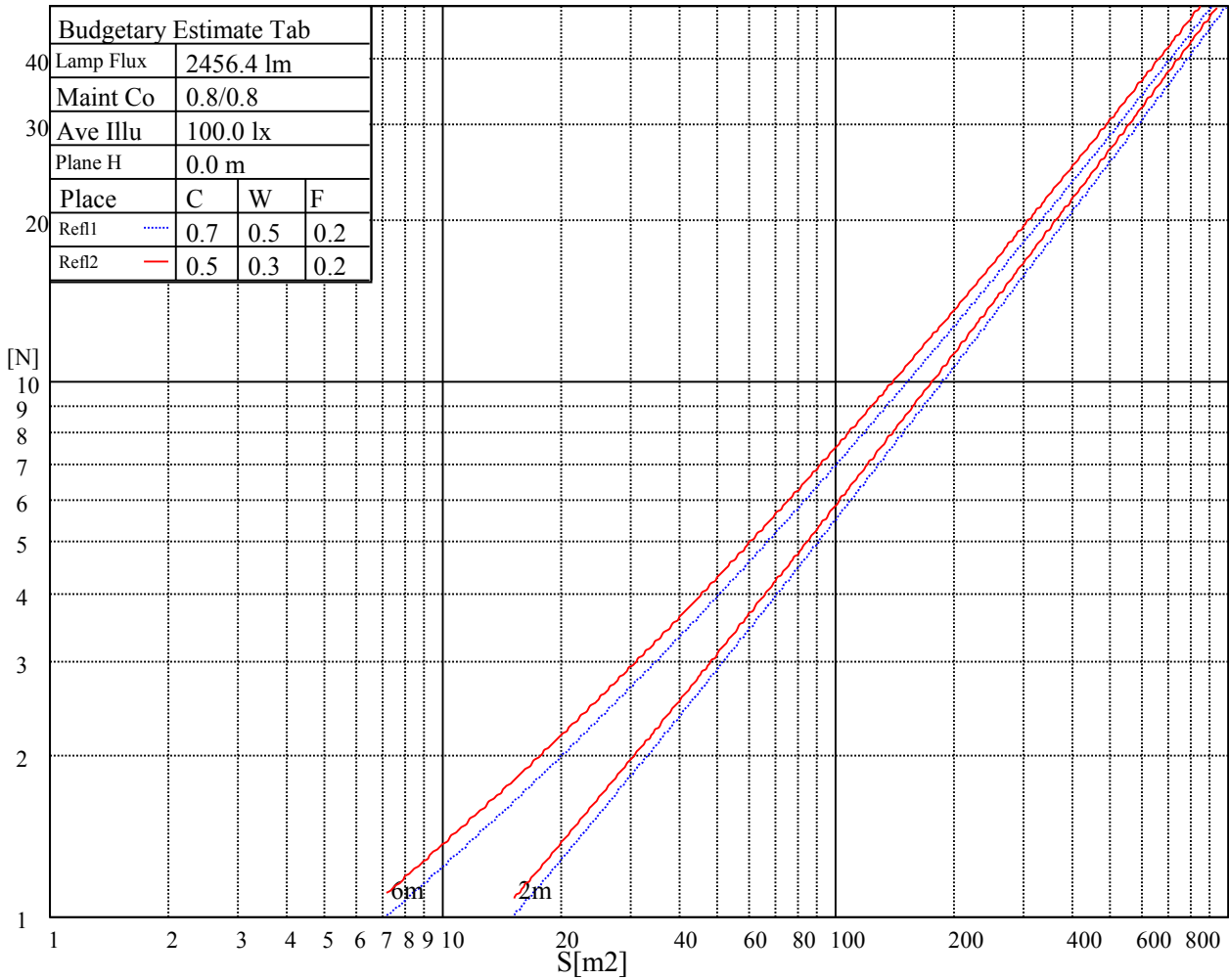
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1251	1181	1212	1826	1945	1758	4542	4579	4705

Glare Table

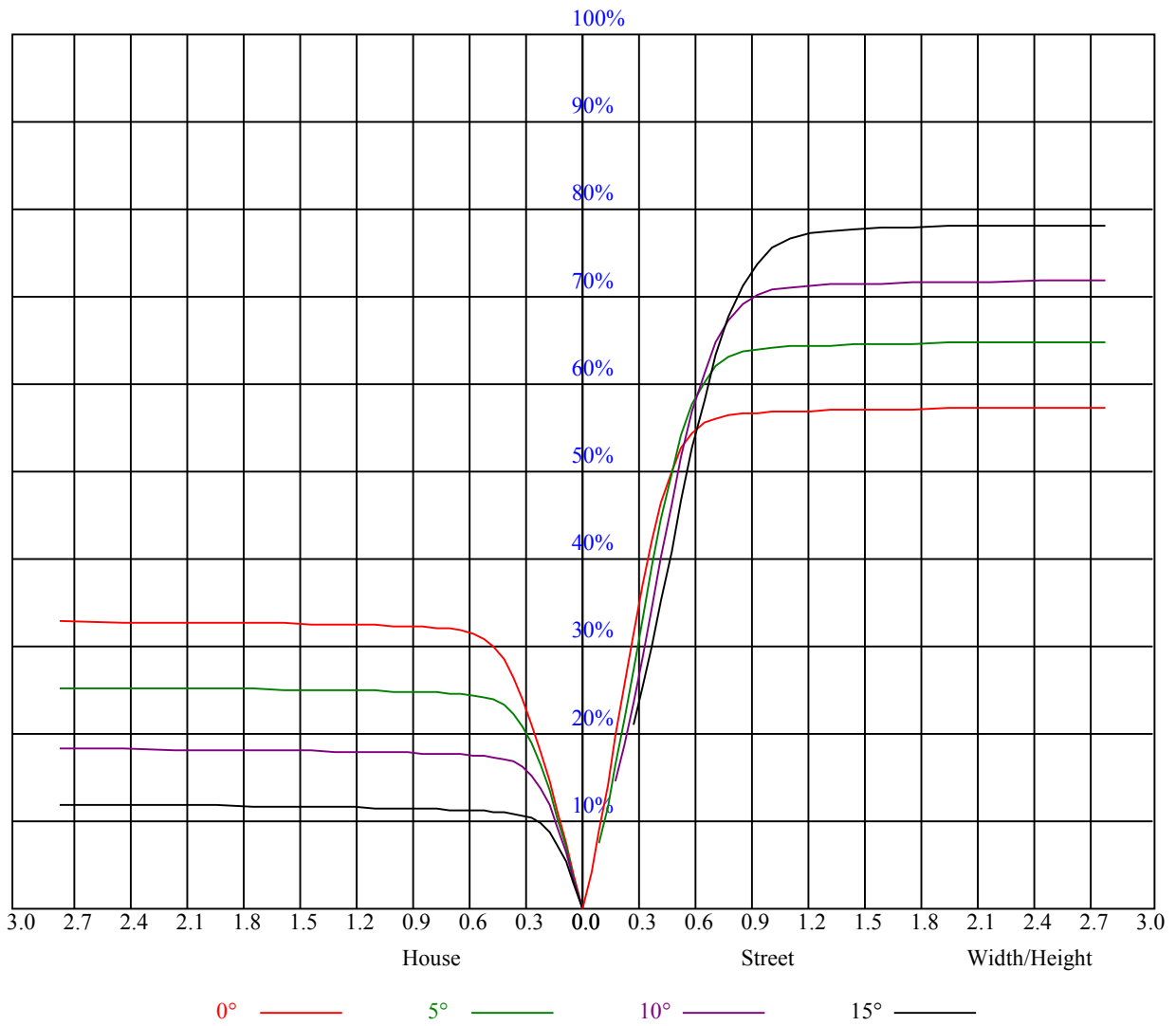
Glare	Quality	Service Values Illuminance(lx)							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.08	1.08	1.08	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.01	0.99	0.97	0.99	0.97	0.95	0.95	0.94	0.92	0.92	0.91	0.90	0.89	0.88	0.87	0.85
2	0.95	0.91	0.88	0.93	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.82	0.80
3	0.89	0.85	0.81	0.88	0.84	0.81	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
4	0.84	0.79	0.76	0.83	0.79	0.75	0.81	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.71
5	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
6	0.75	0.70	0.67	0.74	0.70	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.64
7	0.71	0.66	0.63	0.71	0.66	0.63	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.61
8	0.68	0.63	0.60	0.67	0.63	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.58
9	0.65	0.60	0.56	0.64	0.60	0.56	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.55
10	0.62	0.57	0.54	0.61	0.57	0.54	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.56	0.53	0.52



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	2879.44	2861.44	2882.25	2868.75	2864.81	2853.56	2859.19	2838.38	2818.13
22.5	2883.38	2944.13	2951.44	2992.50	3027.94	3090.38	3133.69	3192.75	3244.50
45.0	2945.81	3038.63	3101.63	3216.94	3348.00	3463.31	3590.44	3720.38	3839.63
67.5	2904.19	2988.56	3141.00	3303.00	3465.00	3664.69	3814.31	3982.50	4151.25
90.0	2968.31	3079.69	3220.31	3440.25	3637.13	3840.75	4003.88	4209.19	4343.06
112.5	2903.06	2991.38	3147.19	3286.69	3440.81	3636.00	3814.88	3957.19	4144.50
135.0	2947.50	3018.38	3083.63	3193.31	3317.63	3439.13	3588.19	3729.38	3870.00
157.5	2876.63	2929.50	2940.75	2989.13	3033.56	3063.94	3124.69	3206.25	3248.44
180.0	2879.44	2859.75	2857.50	2869.31	2853.56	2842.88	2854.69	2846.81	2816.44
202.5	2883.38	2872.13	2859.19	2823.75	2816.44	2782.69	2739.94	2720.81	2702.25
225.0	2945.81	2877.19	2846.81	2813.06	2763.00	2725.88	2683.69	2651.63	2608.88
247.5	2904.19	2838.94	2808.56	2774.25	2730.38	2688.19	2626.88	2583.56	2545.31
270.0	2979.00	2878.88	2817.56	2775.38	2729.25	2676.38	2629.13	2581.88	2549.81
292.5	2903.06	2828.25	2794.50	2766.94	2734.88	2674.69	2620.69	2574.00	2535.75
315.0	2947.50	2859.75	2824.88	2802.38	2739.94	2710.69	2678.06	2622.94	2584.13
337.5	2876.63	2845.13	2837.81	2793.94	2767.50	2727.56	2714.06	2675.81	2639.81
360.0	2879.44	2861.44	2882.25	2868.75	2864.81	2853.56	2859.19	2838.38	2818.13
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2795.63	2731.50	2643.19	2577.38	2462.06	2347.31	2215.13	2067.19	1941.75
22.5	3254.63	3222.56	3169.69	3134.81	3032.44	2923.31	2775.94	2655.00	2535.19
45.0	3920.06	4019.06	4038.75	4035.94	4026.94	3983.63	3921.19	3826.69	3692.81
67.5	4289.06	4375.69	4449.38	4521.94	4550.06	4546.69	4538.25	4477.50	4355.44
90.0	4456.69	4587.75	4654.13	4711.50	4752.56	4735.69	4696.88	4574.81	4417.88
112.5	4285.13	4384.13	4498.88	4573.13	4643.44	4681.69	4697.44	4672.13	4568.63
135.0	4005.56	4086.56	4154.63	4194.56	4181.63	4178.81	4100.06	4026.94	3916.69
157.5	3336.75	3357.00	3355.88	3314.25	3243.94	3161.25	3018.38	2881.13	2749.50
180.0	2770.31	2674.69	2575.13	2469.94	2337.19	2206.69	2057.06	1882.13	1784.81
202.5	2670.19	2616.75	2561.06	2467.69	2381.06	2270.25	2145.94	2035.69	1922.06
225.0	2553.75	2531.81	2499.19	2459.25	2415.38	2388.94	2300.06	2233.69	2167.88
247.5	2504.25	2463.75	2421.00	2362.50	2320.31	2282.63	2242.69	2203.88	2144.81
270.0	2506.50	2462.06	2418.19	2374.88	2342.25	2299.50	2261.25	2166.75	2072.81
292.5	2500.31	2444.06	2396.25	2351.81	2321.44	2280.38	2237.06	2184.75	2070.56
315.0	2538.56	2481.19	2445.75	2410.31	2355.75	2288.25	2224.13	2151.00	2090.25
337.5	2608.88	2534.06	2451.38	2385.00	2300.63	2180.81	2079.56	1953.56	1851.19
360.0	2795.63	2731.50	2643.19	2577.38	2462.06	2347.31	2215.13	2067.19	1941.75
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1812.94	1753.31	1710.56	1692.00	1661.06	1613.81	1563.19	1466.44	1356.19
22.5	2472.75	2463.75	2457.56	2461.50	2462.63	2436.75	2406.94	2291.63	2156.06
45.0	3528.56	3421.69	3280.50	3134.25	3033.56	2974.50	2916.00	2837.81	2741.06
67.5	4196.81	4000.50	3721.50	3515.06	3295.69	3008.25	2773.13	2565.56	2316.38
90.0	4162.50	3897.00	3629.25	3346.31	3080.25	2838.38	2577.94	2269.13	2028.38
112.5	4361.06	4163.06	3942.56	3692.25	3449.81	3254.63	2903.06	2674.13	2440.69
135.0	3748.50	3606.19	3472.31	3283.88	3120.19	2999.25	2886.75	2788.31	2691.56
157.5	2586.94	2532.38	2517.19	2517.75	2509.31	2495.81	2489.06	2435.06	2307.38
180.0	1722.38	1683.00	1654.31	1610.44	1569.94	1502.44	1415.25	1281.94	1106.44
202.5	1754.44	1640.81	1575.56	1526.06	1489.50	1456.31	1411.88	1362.38	1305.00
225.0	2059.88	1969.31	1886.06	1771.31	1674.56	1557.56	1419.19	1332.00	1257.75
247.5	2025.56	1923.75	1817.44	1668.38	1540.13	1394.44	1113.19	1036.58	878.91
270.0	1989.56	1852.31	1719.56	1600.31	1404.00	1215.00	1054.69	880.31	720.56
292.5	1967.06	1865.81	1742.63	1622.81	1494.00	1332.00	1112.34	1000.29	834.30
315.0	2018.25	1932.19	1836.56	1749.94	1635.75	1533.38	1413.00	1313.44	1229.06
337.5	1717.88	1612.13	1568.25	1526.63	1487.81	1454.06	1406.81	1362.38	1294.31
360.0	1812.94	1753.31	1710.56	1692.00	1661.06	1613.81	1563.19	1466.44	1356.19

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	1214.44	1052.44	907.88	777.38	580.50	465.19	378.00	289.13	177.92
22.5	1928.25	1679.06	1456.31	1224.56	963.00	780.19	614.25	410.63	295.31
45.0	2634.75	2497.50	2295.00	2071.69	1814.63	1519.88	1101.09	1075.11	845.83
67.5	2111.63	1899.00	1658.25	1425.94	1208.81	980.44	804.38	637.88	489.38
90.0	1772.44	1476.00	1115.72	967.95	734.29	521.61	403.88	296.55	218.64
112.5	2126.25	1841.06	1643.06	1356.75	1136.81	947.81	732.38	584.44	465.75
135.0	2543.06	2431.13	2249.44	2034.56	1847.25	1587.94	1119.66	1092.43	893.36
157.5	2131.31	1962.56	1760.63	1488.38	1222.31	973.69	723.94	489.38	316.69
180.0	1025.61	863.49	692.72	548.55	396.51	267.24	181.18	115.14	74.59
202.5	1188.00	1118.93	1011.94	903.26	778.67	644.57	524.48	394.88	291.99
225.0	1161.00	1087.88	1007.44	916.31	832.50	750.38	649.13	545.63	456.19
247.5	719.10	564.69	443.70	329.63	254.36	189.28	135.39	95.96	74.59
270.0	545.63	394.31	284.06	248.46	180.79	147.60	122.96	107.61	98.04
292.5	695.93	538.65	400.39	302.01	237.09	182.70	141.81	108.45	90.51
315.0	1131.75	1040.06	959.06	880.31	778.50	699.75	614.25	501.19	417.94
337.5	1192.50	1115.44	983.19	870.92	754.43	604.97	488.19	391.50	300.88
360.0	1214.44	1052.44	907.88	777.38	580.50	465.19	378.00	289.13	177.92
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	115.26	66.60	43.03	38.36	34.59	31.28	27.17	24.58	23.46
22.5	158.40	91.35	61.65	50.79	43.37	37.91	33.64	29.76	28.41
45.0	640.52	486.39	356.29	268.09	194.06	134.61	89.55	55.80	36.90
67.5	391.50	306.00	197.94	149.79	114.24	94.95	72.62	61.48	53.94
90.0	163.97	125.44	106.65	78.92	71.04	63.39	59.23	41.96	34.54
112.5	327.94	286.88	176.91	130.73	106.93	83.53	69.19	62.44	54.62
135.0	686.48	540.00	410.06	302.01	196.93	135.56	91.29	56.42	40.44
157.5	221.85	113.68	72.28	57.26	46.91	39.94	34.14	29.64	27.84
180.0	51.86	43.43	37.41	32.91	28.80	25.59	24.53	23.40	22.56
202.5	202.95	130.89	86.01	51.36	39.77	36.56	31.84	27.51	23.79
225.0	364.50	285.75	204.69	139.16	95.12	63.62	39.38	31.33	27.28
247.5	66.32	59.96	52.48	40.61	31.95	28.01	24.19	21.49	19.52
270.0	88.03	73.01	64.13	60.13	55.86	52.09	43.14	35.33	29.59
292.5	83.42	74.03	57.88	44.66	34.65	27.39	23.79	20.81	18.68
315.0	336.38	285.75	172.07	120.94	81.68	50.68	34.09	28.63	25.37
337.5	219.71	158.12	98.49	56.93	36.90	32.29	29.25	26.21	22.78
360.0	115.26	66.60	43.03	38.36	34.59	31.28	27.17	24.58	23.46
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	22.22	21.04	20.19	19.58	18.84	18.34	17.78	17.16	16.54
22.5	26.94	25.48	24.47	23.57	22.56	21.71	20.98	19.86	18.79
45.0	30.99	27.84	25.54	23.23	21.94	20.64	19.74	18.68	17.89
67.5	45.96	33.36	27.90	25.03	23.18	21.38	20.08	19.01	18.06
90.0	31.28	28.58	26.49	24.75	22.95	21.83	20.81	19.91	19.24
112.5	38.70	31.22	27.28	25.26	23.68	21.71	20.08	18.90	18.11
135.0	34.65	31.67	29.76	26.44	23.34	21.09	19.97	18.90	17.49
157.5	26.16	24.86	23.79	22.61	21.38	20.48	19.58	19.01	18.39
180.0	21.77	20.76	20.14	19.46	18.79	18.34	17.94	17.38	17.16
202.5	22.39	21.49	20.76	20.08	19.52	18.90	18.39	17.89	17.44
225.0	23.63	20.98	19.86	18.56	18.17	17.49	16.88	16.88	16.48
247.5	18.00	17.21	16.37	15.75	15.36	14.91	14.51	14.29	14.01
270.0	24.64	21.43	19.91	18.73	17.83	17.38	16.71	16.31	15.75
292.5	17.55	16.48	15.53	15.08	14.63	14.18	13.84	13.56	13.33
315.0	22.33	20.36	18.23	17.78	17.16	16.76	15.69	15.30	15.53
337.5	20.25	19.41	18.73	18.17	17.72	17.21	16.88	16.37	15.92
360.0	22.22	21.04	20.19	19.58	18.84	18.34	17.78	17.16	16.54

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	15.92	15.58	15.30	15.19	14.91	14.57	14.34	14.12	14.06
22.5	18.11	17.78	17.33	17.10	16.82	16.54	16.26	15.98	15.75
45.0	17.21	16.65	16.14	15.75	15.41	15.13	14.85	14.63	14.46
67.5	17.44	16.82	16.26	15.81	15.36	14.91	14.46	14.18	13.89
90.0	18.68	18.56	17.89	16.93	16.14	15.30	14.91	14.51	14.34
112.5	17.16	16.54	16.14	15.53	15.08	14.74	14.29	14.01	13.78
135.0	16.48	15.92	15.36	14.91	14.51	14.23	14.01	13.78	13.61
157.5	17.89	17.44	16.93	16.43	15.98	15.53	15.08	14.68	14.40
180.0	16.76	16.26	15.98	15.75	15.36	15.19	14.74	14.46	14.18
202.5	16.99	16.54	16.09	15.81	15.41	15.19	14.96	14.79	14.68
225.0	15.81	15.53	14.85	14.51	14.34	14.18	13.95	13.89	13.95
247.5	13.78	13.56	13.39	13.16	12.99	12.83	12.77	12.66	12.54
270.0	15.30	14.79	14.29	13.84	13.39	13.11	12.83	12.60	12.43
292.5	13.05	12.83	12.60	12.38	12.26	12.09	11.98	11.87	11.70
315.0	14.46	14.18	13.33	13.05	12.83	12.60	12.49	12.49	12.54
337.5	15.47	15.19	14.85	14.57	14.40	14.18	14.01	13.73	13.44
360.0	15.92	15.58	15.30	15.19	14.91	14.57	14.34	14.12	14.06
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.95	13.84	13.61	13.39	13.16	13.28	13.28	13.16	12.88
22.5	15.58	15.24	15.02	14.79	14.63	14.51	14.40	14.23	14.06
45.0	14.34	14.23	14.01	13.84	13.67	13.44	13.28	13.05	12.88
67.5	13.73	13.56	13.44	13.28	13.11	12.99	12.94	12.83	12.77
90.0	14.18	14.06	13.84	13.78	13.73	13.78	14.18	14.91	15.53
112.5	13.50	13.33	13.22	12.99	12.88	12.77	12.54	12.49	12.43
135.0	13.44	13.28	13.05	12.88	12.77	12.60	12.43	12.21	12.04
157.5	14.01	13.73	13.50	13.33	13.16	12.99	12.88	12.77	12.71
180.0	13.84	13.61	13.50	13.39	13.16	13.11	13.05	12.88	12.66
202.5	14.51	14.40	14.29	14.18	14.01	13.89	13.84	13.67	13.67
225.0	13.67	13.50	13.33	13.22	13.33	13.05	12.88	13.05	12.99
247.5	12.43	12.32	12.15	12.04	11.93	11.81	11.76	11.70	11.59
270.0	12.26	11.93	11.76	11.59	11.48	11.42	11.36	11.31	11.19
292.5	11.59	11.48	11.36	11.25	11.19	11.08	11.03	10.91	10.86
315.0	12.83	12.38	12.15	11.93	12.38	12.09	11.98	11.87	12.15
337.5	13.33	13.11	12.88	12.66	12.49	12.26	12.15	12.04	11.93
360.0	13.95	13.84	13.61	13.39	13.16	13.28	13.28	13.16	12.88
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.88	12.77	12.60	12.43	12.38	12.15	12.09	12.21	12.26
22.5	14.01	13.95	13.89	13.73	13.56	13.56	13.56	13.44	13.16
45.0	12.66	12.54	12.38	12.26	12.15	11.98	11.87	11.70	11.53
67.5	12.71	12.60	12.43	12.21	12.09	12.09	11.98	11.93	11.81
90.0	15.69	15.53	15.24	14.91	14.85	15.02	14.63	14.12	13.84
112.5	12.49	12.43	12.38	12.09	11.98	11.93	11.81	11.81	11.76
135.0	11.87	11.70	11.59	11.48	11.36	11.31	11.19	11.08	11.03
157.5	12.77	12.66	12.54	12.54	12.26	11.70	11.53	11.48	11.31
180.0	12.66	12.71	12.60	11.81	11.19	11.08	11.08	11.03	10.69
202.5	13.56	13.39	13.39	13.39	13.28	13.16	12.71	12.26	12.04
225.0	12.66	12.54	12.15	12.09	12.04	11.93	11.87	11.81	11.64
247.5	11.48	11.42	11.42	11.36	11.42	11.25	11.19	11.08	11.03
270.0	11.08	11.03	10.97	10.91	10.86	10.86	10.80	10.74	10.74
292.5	10.80	10.74	10.74	10.69	10.58	10.52	10.46	10.41	10.35
315.0	11.93	11.59	10.97	10.86	10.80	10.74	10.69	10.63	10.52
337.5	11.93	11.93	11.76	11.76	11.59	11.53	11.59	11.53	11.31
360.0	12.88	12.77	12.60	12.43	12.38	12.15	12.09	12.21	12.26

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	12.04	11.98	11.87	11.19	10.46	10.41	9.79	9.68	9.45
22.5	12.83	12.15	11.81	11.76	11.19	11.03	10.80	10.63	10.46
45.0	11.48	11.36	11.25	11.19	10.86	10.69	10.63	10.46	10.41
67.5	11.70	11.64	11.70	11.64	10.52	10.35	10.29	10.18	10.07
90.0	13.39	12.38	11.98	11.76	10.07	9.90	9.73	9.68	9.68
112.5	11.70	11.70	11.81	11.70	10.29	9.84	9.79	9.62	9.56
135.0	11.03	11.14	11.25	11.25	9.90	9.73	9.62	9.51	9.45
157.5	11.14	10.80	10.63	10.52	10.41	9.79	9.62	9.45	9.28
180.0	10.63	10.35	10.13	10.01	9.84	9.73	9.39	9.28	9.11
202.5	11.98	11.98	11.70	11.48	11.48	11.48	10.91	10.91	10.69
225.0	11.53	11.42	11.36	11.25	11.19	11.08	10.86	10.74	10.63
247.5	10.97	10.86	10.80	10.74	10.69	10.58	10.35	10.29	10.24
270.0	10.69	10.69	10.63	10.52	10.41	10.29	10.18	10.13	10.01
292.5	10.29	10.24	10.13	10.07	10.07	10.01	9.90	9.84	9.73
315.0	10.41	10.35	10.29	10.24	10.13	10.07	9.84	9.73	9.68
337.5	11.36	11.03	10.63	10.35	10.24	9.90	9.73	9.62	9.51
360.0	12.04	11.98	11.87	11.19	10.46	10.41	9.79	9.68	9.45

C/γ(°)	90.0
0.0	9.17
22.5	10.46
45.0	10.41
67.5	10.07
90.0	9.68
112.5	9.56
135.0	9.45
157.5	9.28
180.0	9.11
202.5	10.58
225.0	10.58
247.5	10.18
270.0	9.84
292.5	9.68
315.0	9.62
337.5	9.39
360.0	9.17