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Nata

LumCAT: 2-2323-M
Luminaire: 92.70.131.00
Report No: 210807-B004
Test No: 210807-C004
LampCAT: LUMINUS CXM-14-AC40 LES14
Lamp flux(lm): 2266.4
Number of Lamps: 1
Length(mm): 570
Phm Type: C

Voltage(V): 33.8900
Current(A): 0.5010
Power (W): 16.9780
PF: 0.0000
Ballast type: DC
Width(mm): 45
Height(mm): 20

Photometric Results

Lumens(lm): 2011.45
Efficiency(%): 88.75%
Lumens(lm)/Power(W): 118.47
Central intensity(cd): 2553.839
Maximum intensity(cd): 4085.903
Angle of maximum intensity: C=90.0 γ =14.0
Beam Angle(50%Imax): [C0/180]Total=48.8
 [C90/270]Total=38.9
Field angle(10%Imax): [C0/180]Total=66.4
 [C90/270]Total=61.4
Maximum s/h(1/2): C0_180=0.70 C90_270=1.01
Maximum s/h(1/4): C0_180=0.71 C90_270=0.83
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 88.75%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.257%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2593.500	0.000	0	.000%	.000%
1.0	2598.318	2.484	2.484	.110%	.124%
2.0	2617.625	7.486	9.971	.330%	.496%
3.0	2640.257	12.575	22.546	.555%	1.121%
4.0	2663.411	17.753	40.299	.783%	2.003%
5.0	2687.349	23.019	63.317	1.016%	3.148%
6.0	2707.292	28.350	91.668	1.251%	4.557%
7.0	2726.114	33.725	125.393	1.488%	6.234%
8.0	2737.691	39.103	164.496	1.725%	8.178%
9.0	2747.924	44.458	208.954	1.962%	10.388%
10.0	2757.820	49.825	258.779	2.198%	12.865%
11.0	2748.783	55.022	313.801	2.428%	15.601%
12.0	2732.351	59.917	373.718	2.644%	18.580%
13.0	2707.628	64.559	438.277	2.848%	21.789%
14.0	2667.631	68.803	507.08	3.036%	25.210%
15.0	2613.741	72.505	579.585	3.199%	28.814%
16.0	2544.764	75.587	655.171	3.335%	32.572%
17.0	2463.388	77.990	733.162	3.441%	36.449%
18.0	2372.713	79.737	812.899	3.518%	40.414%
19.0	2276.996	80.895	893.794	3.569%	44.435%
20.0	2168.171	81.359	975.153	3.590%	48.480%
21.0	2053.464	81.064	1056.217	3.577%	52.510%
22.0	1954.222	80.536	1136.753	3.553%	56.514%
23.0	1846.058	79.740	1216.493	3.518%	60.478%
24.0	1729.040	78.164	1294.658	3.449%	64.364%
25.0	1607.121	75.857	1370.515	3.347%	68.136%
26.0	1486.148	73.017	1443.532	3.222%	71.766%
27.0	1354.721	69.503	1513.034	3.067%	75.221%
28.0	1215.098	65.062	1578.096	2.871%	78.456%
29.0	1073.853	59.885	1637.982	2.642%	81.433%
30.0	951.378	54.681	1692.663	2.413%	84.151%
31.0	810.989	49.044	1741.707	2.164%	86.590%
32.0	677.923	42.656	1784.362	1.882%	88.710%
33.0	544.005	35.998	1820.361	1.588%	90.500%
34.0	450.836	30.107	1850.468	1.328%	91.997%
35.0	349.121	24.844	1875.311	1.096%	93.232%
36.0	278.549	19.985	1895.297	.882%	94.225%
37.0	202.898	15.702	1910.999	.693%	95.006%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	149.875	11.775	1922.774	.520%	95.591%
39.0	110.849	8.899	1931.673	.393%	96.034%
40.0	81.081	6.694	1938.367	.295%	96.367%
41.0	61.340	5.072	1943.438	.224%	96.619%
42.0	47.884	3.968	1947.407	.175%	96.816%
43.0	37.379	3.158	1950.565	.139%	96.973%
44.0	30.000	2.543	1953.108	.112%	97.100%
45.0	25.795	2.144	1955.252	.095%	97.206%
46.0	22.855	1.903	1957.155	.084%	97.301%
47.0	20.159	1.711	1958.866	.075%	97.386%
48.0	18.975	1.582	1960.448	.070%	97.464%
49.0	17.930	1.516	1961.963	.067%	97.540%
50.0	17.026	1.457	1963.421	.064%	97.612%
51.0	16.391	1.414	1964.835	.062%	97.683%
52.0	15.775	1.380	1966.215	.061%	97.751%
53.0	15.136	1.345	1967.559	.059%	97.818%
54.0	14.636	1.312	1968.872	.058%	97.883%
55.0	14.229	1.288	1970.16	.057%	97.947%
56.0	13.874	1.270	1971.43	.056%	98.010%
57.0	13.579	1.255	1972.685	.055%	98.073%
58.0	13.314	1.244	1973.929	.055%	98.135%
59.0	13.086	1.234	1975.163	.054%	98.196%
60.0	12.877	1.227	1976.39	.054%	98.257%
61.0	12.712	1.221	1977.611	.054%	98.318%
62.0	12.544	1.217	1978.828	.054%	98.378%
63.0	12.421	1.214	1980.042	.054%	98.439%
64.0	12.294	1.213	1981.255	.054%	98.499%
65.0	12.186	1.211	1982.466	.053%	98.559%
66.0	12.130	1.213	1983.679	.054%	98.619%
67.0	12.074	1.217	1984.896	.054%	98.680%
68.0	11.999	1.219	1986.116	.054%	98.741%
69.0	11.909	1.220	1987.336	.054%	98.801%
70.0	11.917	1.224	1988.559	.054%	98.862%
71.0	11.917	1.232	1989.791	.054%	98.923%
72.0	11.936	1.240	1991.031	.055%	98.985%
73.0	11.865	1.245	1992.276	.055%	99.047%
74.0	11.831	1.246	1993.522	.055%	99.109%
75.0	11.723	1.244	1994.766	.055%	99.171%

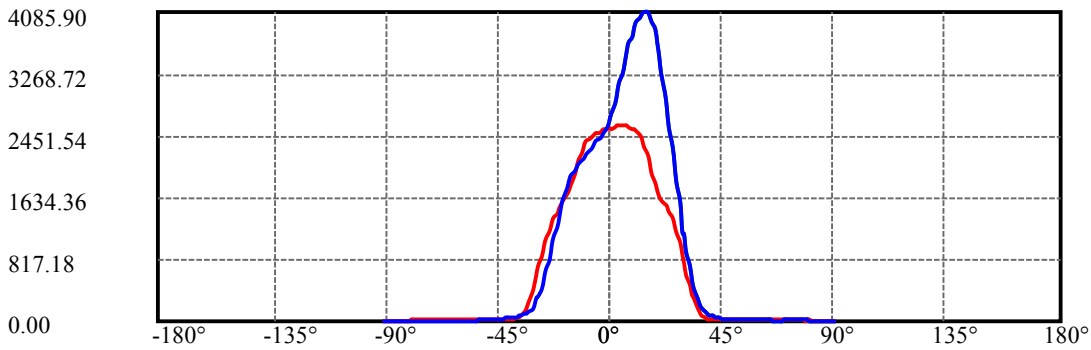
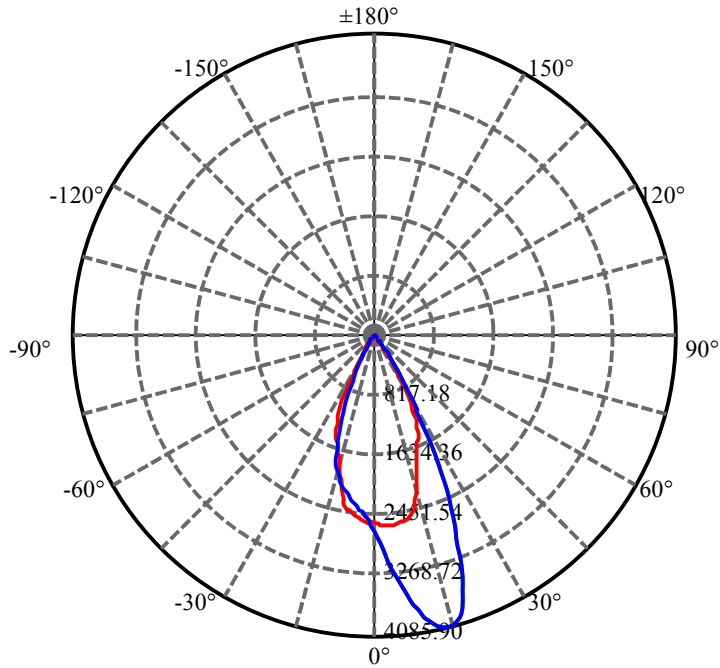
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.644	1.240	1996.007	.055%	99.232%
77.0	11.573	1.238	1997.245	.055%	99.294%
78.0	11.424	1.231	1998.476	.054%	99.355%
79.0	11.271	1.219	1999.695	.054%	99.416%
80.0	11.080	1.205	2000.9	.053%	99.476%
81.0	10.845	1.186	2002.086	.052%	99.534%
82.0	10.498	1.157	2003.243	.051%	99.592%
83.0	10.210	1.126	2004.369	.050%	99.648%
84.0	9.867	1.094	2005.463	.048%	99.702%
85.0	9.482	1.056	2006.519	.047%	99.755%
86.0	9.250	1.024	2007.543	.045%	99.806%
87.0	9.090	1.004	2008.546	.044%	99.856%
88.0	8.873	0.984	2009.53	.043%	99.905%
89.0	8.735	0.965	2010.495	.043%	99.953%
90.0	8.664	0.954	2011.449	.042%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1692.66	74.68%	84.15%
0-40	1938.37	85.53%	96.37%
0-60	1976.39	87.20%	98.26%
0-90	2010.50	88.71%	99.95%
0-120	2010.50	88.71%	99.95%
0-180	2011.45	88.75%	100.00%
60-90	35.33	1.56%	1.76%
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%
0-28.52	1609.16	71.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	258.78
10-20	716.37
20-30	717.51
30-40	245.70
40-50	25.05
50-60	12.97
60-70	12.17
70-80	12.34
80-90	9.60
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: ———

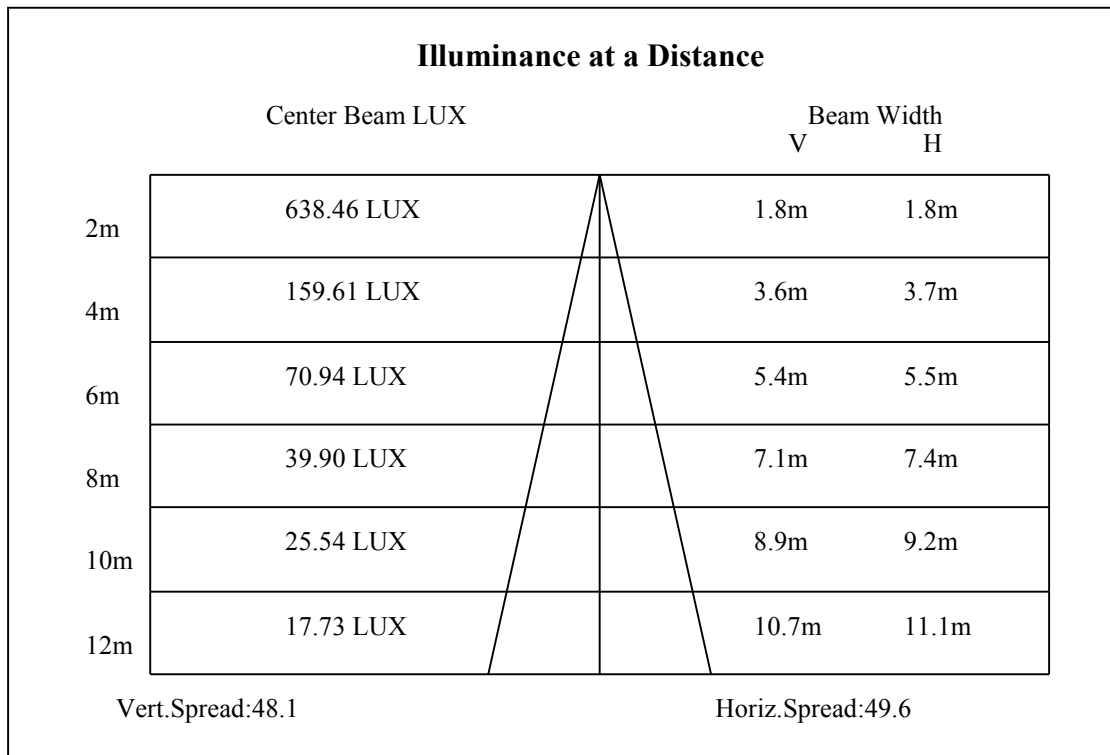
C90/C270: ———

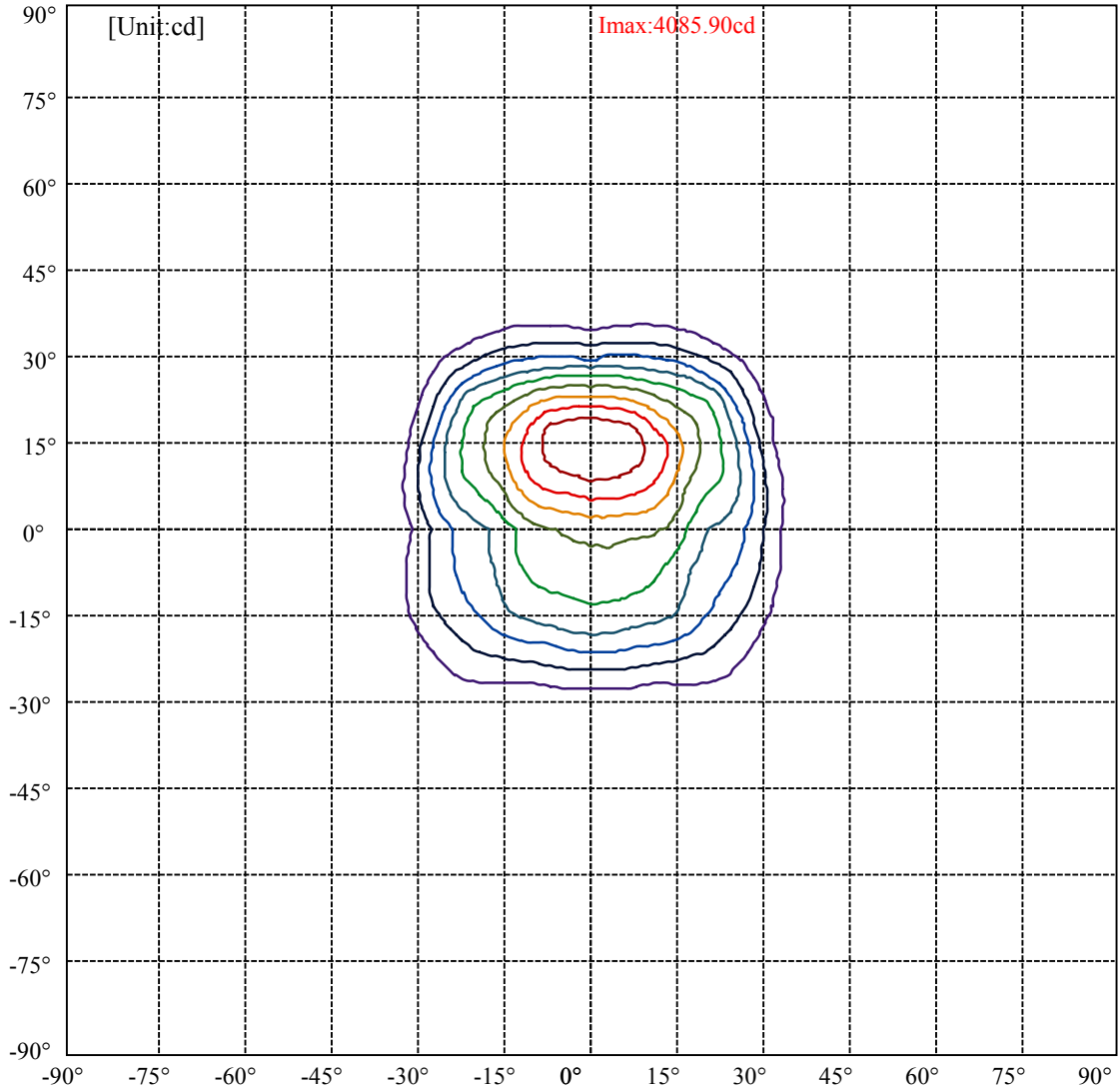
Field angle(10%Imax):C0/180Left:37.0 Right:29.4

:C90/270Left:41.3 Right:20.1

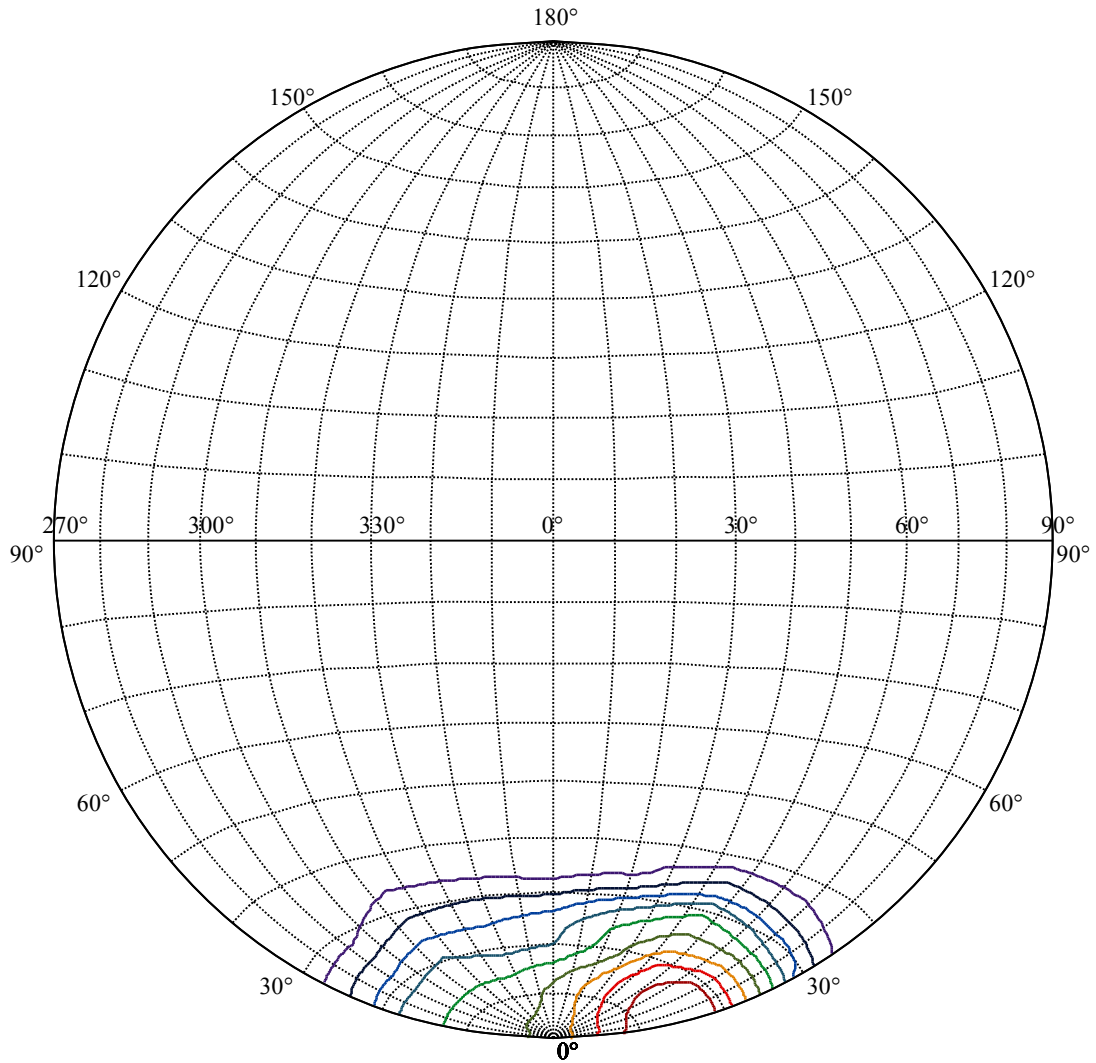
Beam Angle(50%Imax):C0/180Left:28.0 Right:20.8

:C90/270Left:26.7 Right:12.2





(10%Imax) 408.59	—
(20%Imax) 817.181	—
(30%Imax) 1225.77	—
(40%Imax) 1634.36	—
(50%Imax) 2042.95	—
(60%Imax) 2451.54	—
(70%Imax) 2860.13	—
(80%Imax) 3268.72	—
(90%Imax) 3677.31	—



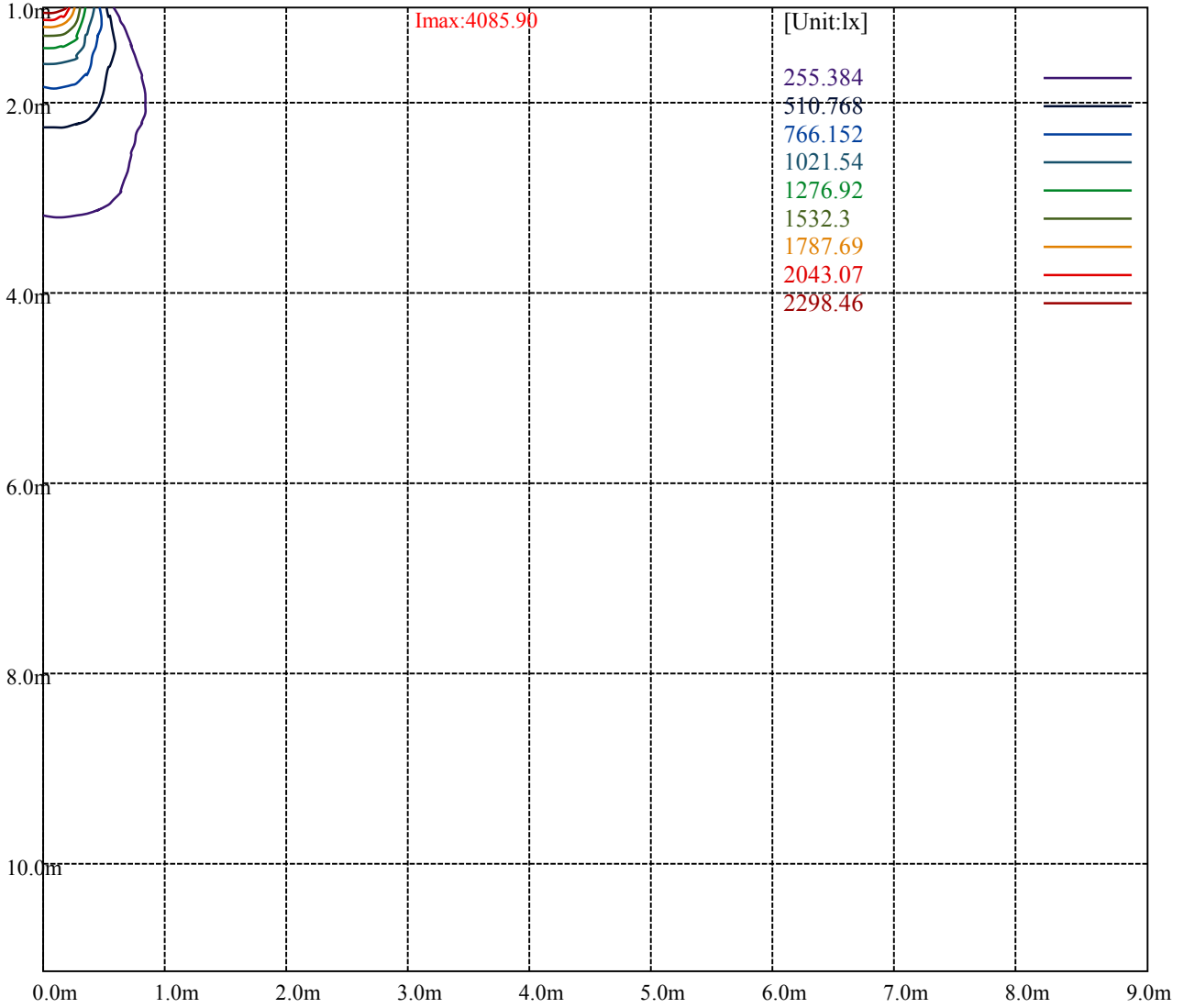
House

[Unit:cd]

Road

Imax:4085.90

(10%Imax) 408.59	—
(20%Imax) 817.181	—
(30%Imax) 1225.77	—
(40%Imax) 1634.36	—
(50%Imax) 2042.95	—
(60%Imax) 2451.54	—
(70%Imax) 2860.13	—
(80%Imax) 3268.72	—
(90%Imax) 3677.31	—



Luminance Table

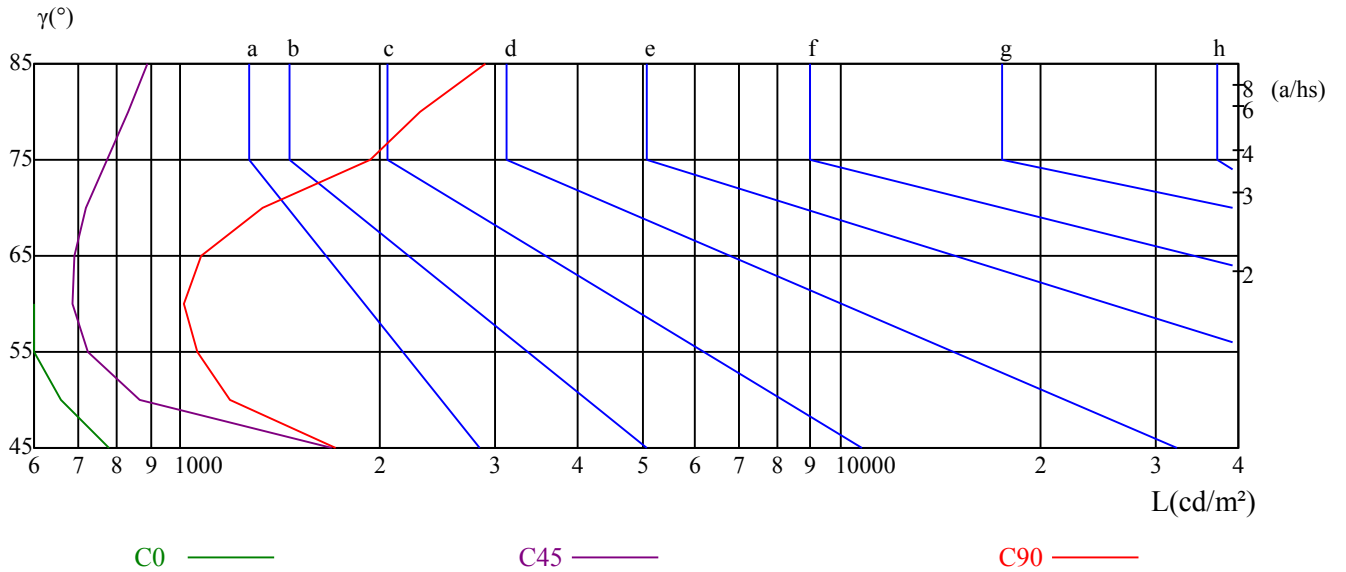
γ	45	50	55	60	65	70	75	80	85
C0	780	661	599	598	638	708	752	812	739
C45	1695	870	725	687	689	719	775	831	894
C90	1719	1190	1060	1015	1077	1336	1934	2305	2900

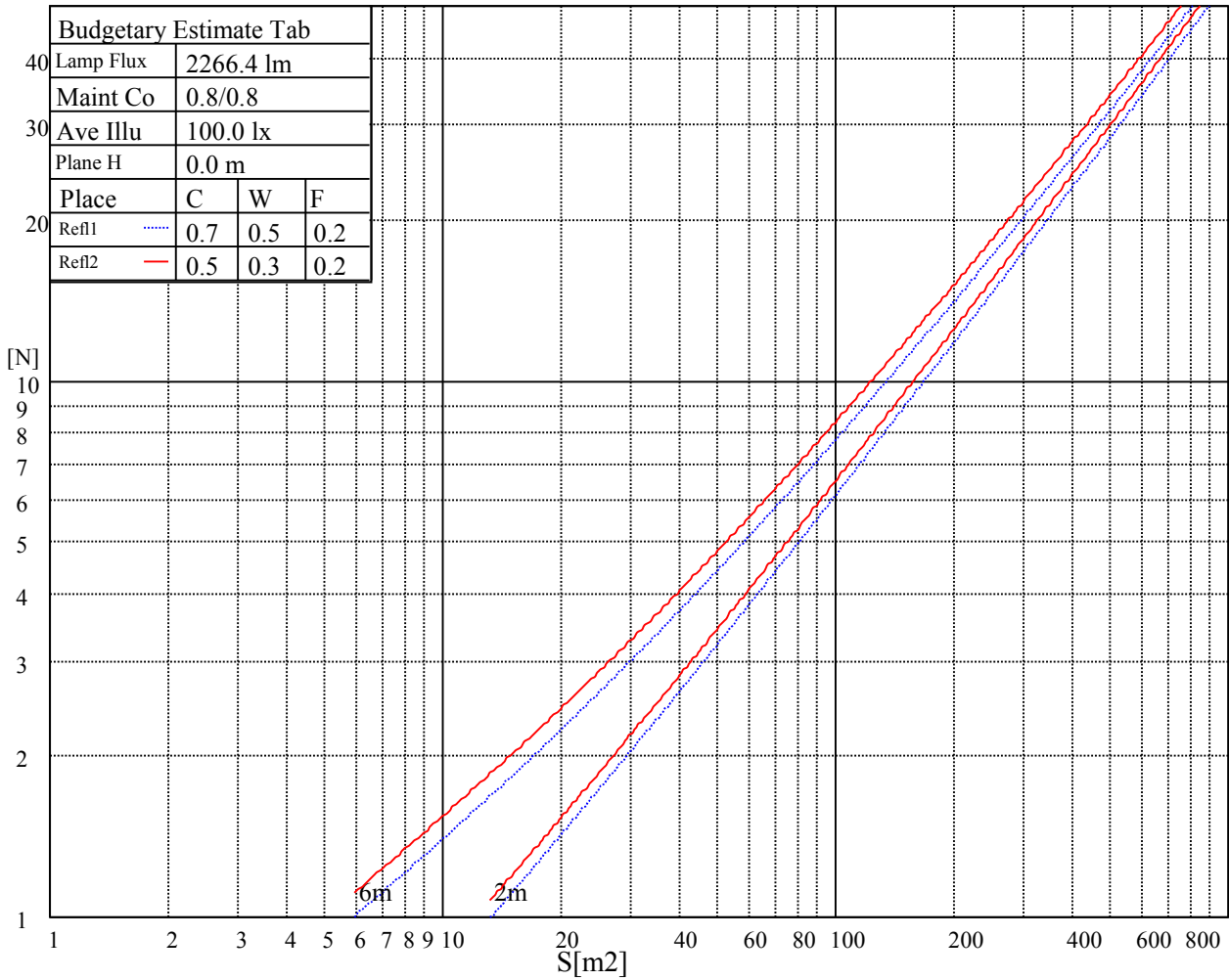
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1232	1045	1107	1971	1827	1663	4183	4210	4176

Glare Table

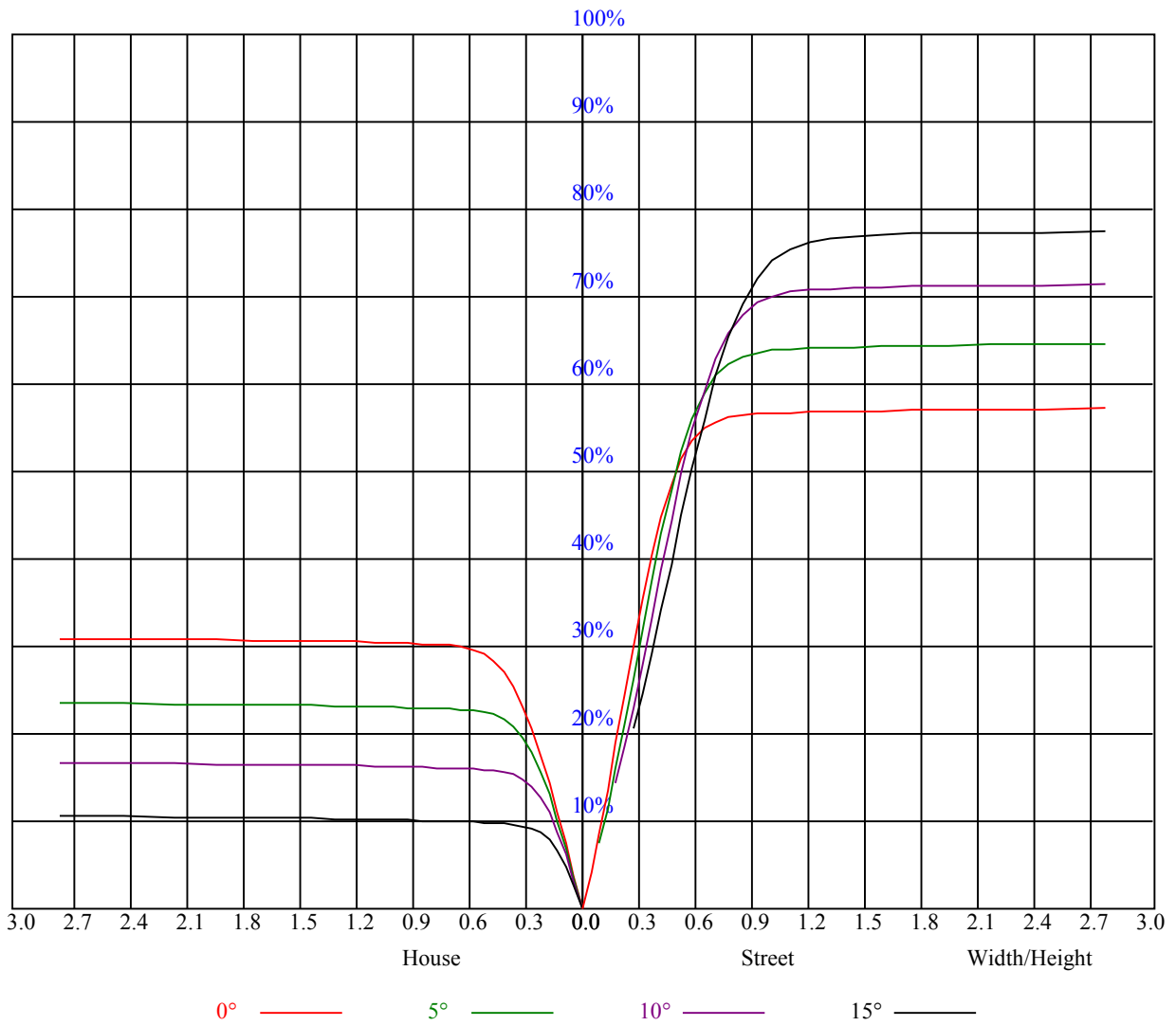
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.06	1.06	1.06	1.03	1.03	1.03	0.99	0.99	0.99	0.94	0.94	0.94	0.91	0.91	0.91	0.89
1	0.98	0.96	0.94	0.97	0.95	0.93	0.93	0.91	0.90	0.90	0.88	0.87	0.87	0.86	0.85	0.83
2	0.92	0.89	0.86	0.91	0.88	0.85	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.80	0.78
3	0.87	0.83	0.79	0.85	0.82	0.79	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.77	0.75	0.74
4	0.82	0.77	0.74	0.81	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.72	0.75	0.73	0.71	0.69
5	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
6	0.73	0.68	0.65	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
7	0.69	0.64	0.61	0.69	0.64	0.61	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.59
8	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.56
9	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.57	0.54	0.53
10	0.60	0.55	0.52	0.59	0.55	0.52	0.59	0.54	0.52	0.58	0.54	0.51	0.57	0.54	0.51	0.50



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	2553.84	2549.06	2570.57	2590.29	2580.73	2594.47	2586.70	2575.95	2556.83
22.5	2576.55	2619.57	2673.34	2702.03	2757.60	2804.20	2834.68	2866.35	2904.59
45.0	2633.91	2708.00	2802.41	2881.88	2967.33	3067.71	3147.78	3239.20	3291.79
67.5	2592.68	2690.08	2797.63	2916.54	3053.97	3178.26	3304.34	3432.80	3541.55
90.0	2645.26	2749.23	2860.37	2995.41	3136.43	3261.91	3408.31	3551.71	3668.23
112.5	2580.73	2660.80	2788.07	2895.03	2991.83	3116.11	3235.62	3340.19	3457.30
135.0	2610.60	2672.75	2740.87	2820.93	2898.02	2963.74	3048.00	3136.43	3200.37
157.5	2554.44	2593.87	2611.20	2660.80	2681.71	2704.42	2754.01	2763.57	2802.41
180.0	2553.84	2534.72	2539.50	2519.18	2498.87	2488.71	2452.86	2437.92	2404.46
202.5	2576.55	2529.34	2516.19	2468.99	2452.86	2413.42	2372.79	2341.72	2299.29
225.0	2633.91	2564.59	2499.46	2468.99	2419.39	2389.52	2350.68	2312.44	2253.28
247.5	2592.68	2518.58	2461.82	2425.37	2393.10	2347.69	2308.85	2271.81	2235.95
270.0	2645.26	2564.59	2497.67	2446.88	2411.63	2376.97	2330.96	2292.72	2252.09
292.5	2580.73	2524.56	2478.55	2445.09	2418.20	2388.32	2347.09	2310.05	2264.04
315.0	2610.60	2547.86	2513.80	2484.53	2467.79	2427.16	2391.31	2360.84	2323.19
337.5	2554.44	2545.47	2530.54	2522.17	2485.12	2474.97	2442.70	2384.14	2347.69
360.0	2553.84	2549.06	2570.57	2590.29	2580.73	2594.47	2586.70	2575.95	2556.83
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2549.06	2549.06	2514.40	2459.43	2408.04	2311.24	2207.87	2097.92	1950.33
22.5	2944.03	2957.17	2938.05	2938.65	2885.47	2831.69	2759.99	2618.97	2505.44
45.0	3352.14	3425.04	3486.58	3514.67	3523.63	3538.57	3520.04	3496.14	3425.04
67.5	3646.72	3747.10	3814.63	3869.00	3935.33	3962.81	3969.98	3947.28	3896.49
90.0	3768.62	3882.74	3953.85	4013.00	4067.38	4085.90	4078.73	4039.89	3967.59
112.5	3555.30	3648.51	3735.75	3802.67	3858.84	3914.41	3940.70	3919.79	3880.95
135.0	3266.09	3364.69	3399.34	3419.06	3451.33	3430.41	3387.99	3337.20	3259.52
157.5	2819.74	2835.87	2822.73	2783.29	2719.95	2648.85	2542.49	2436.13	2350.68
180.0	2384.74	2323.19	2243.12	2138.56	2019.05	1924.04	1811.11	1729.25	1667.11
202.5	2264.04	2233.56	2198.91	2164.25	2089.56	1996.34	1909.70	1800.35	1720.88
225.0	2221.61	2187.55	2135.57	2098.52	2066.26	2020.25	1984.39	1932.41	1878.03
247.5	2189.35	2139.15	2090.16	2044.15	2005.90	1952.72	1887.59	1826.05	1739.41
270.0	2203.69	2163.05	2122.42	2078.21	2027.42	1980.21	1918.07	1846.96	1744.78
292.5	2225.20	2182.77	2137.96	2092.55	2043.55	1986.19	1925.84	1861.90	1756.74
315.0	2262.24	2200.10	2153.49	2117.64	2080.00	2039.37	1995.75	1928.23	1882.22
337.5	2314.23	2285.55	2233.56	2183.97	2140.35	2059.08	1979.61	1897.75	1789.00
360.0	2549.06	2549.06	2514.40	2459.43	2408.04	2311.24	2207.87	2097.92	1950.33
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1832.02	1729.85	1638.42	1591.82	1558.95	1519.52	1454.39	1382.08	1281.10
22.5	2400.87	2292.72	2231.77	2199.50	2167.24	2141.54	2097.92	1996.94	1890.58
45.0	3347.95	3263.70	3145.99	2984.06	2843.64	2701.43	2622.55	2503.05	2416.41
67.5	3815.82	3701.69	3499.13	3341.98	3148.98	2899.21	2714.57	2515.60	2289.73
90.0	3845.10	3673.61	3494.35	3263.70	3021.11	2806.00	2573.56	2317.81	2082.39
112.5	3823.59	3727.39	3523.63	3370.06	3174.07	2988.24	2767.75	2559.81	2340.52
135.0	3168.70	3079.66	2988.24	2855.59	2757.60	2673.34	2557.42	2482.14	2404.46
157.5	2293.91	2266.43	2216.83	2175.01	2142.74	2094.94	2039.37	1944.36	1853.53
180.0	1593.61	1541.62	1488.44	1416.14	1361.77	1294.25	1185.44	1098.14	994.83
202.5	1628.86	1540.43	1486.05	1420.92	1376.71	1318.15	1265.57	1183.76	1121.14
225.0	1797.96	1707.14	1600.18	1501.59	1414.95	1303.81	1193.27	1113.20	1032.53
247.5	1612.73	1508.76	1405.39	1182.81	1153.41	1037.43	886.43	766.87	645.81
270.0	1627.67	1511.75	1377.90	1238.08	1110.81	979.95	818.61	693.13	570.64
292.5	1654.56	1552.38	1430.48	1310.38	1185.38	1078.30	943.50	817.18	680.76
315.0	1834.41	1757.33	1670.69	1596.00	1487.25	1385.67	1271.54	1150.84	1052.25
337.5	1685.63	1577.48	1493.22	1407.78	1362.96	1315.16	1272.74	1189.02	1121.68
360.0	1832.02	1729.85	1638.42	1591.82	1558.95	1519.52	1454.39	1382.08	1281.10

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	1163.99	1037.91	896.29	763.04	614.26	473.84	363.90	305.93	186.61
22.5	1763.31	1578.07	1402.40	1207.01	964.41	777.39	612.47	442.17	321.47
45.0	2335.14	2231.17	2090.16	1952.13	1769.28	1520.71	1170.80	1124.67	899.58
67.5	2077.61	1887.59	1671.29	1500.40	1294.25	1088.70	924.97	752.89	607.69
90.0	1837.40	1561.34	1186.87	1137.87	920.02	725.64	565.92	419.64	300.26
112.5	2106.89	1864.89	1615.12	1429.89	1235.09	1048.66	892.11	766.63	604.70
135.0	2308.85	2163.05	2036.38	1885.80	1691.01	1495.02	1189.44	1060.37	835.76
157.5	1690.41	1547.60	1410.17	1183.11	970.39	804.87	592.15	413.49	308.32
180.0	871.32	737.29	615.87	485.25	369.57	256.82	169.94	114.61	72.54
202.5	1059.42	975.71	887.21	807.56	708.25	601.41	511.84	409.07	317.17
225.0	927.37	844.91	769.62	687.16	605.30	533.59	453.52	378.24	314.90
247.5	518.60	416.60	315.20	236.14	182.60	135.58	100.56	77.26	66.09
270.0	437.99	328.04	307.13	203.88	158.17	128.47	106.66	95.66	83.77
292.5	563.29	436.85	329.96	258.91	199.51	150.88	119.39	93.69	75.47
315.0	961.42	861.64	783.96	708.07	612.47	543.75	470.85	395.56	323.86
337.5	1052.55	968.89	864.03	775.83	681.24	561.44	459.56	363.48	267.75
360.0	1163.99	1037.91	896.29	763.04	614.26	473.84	363.90	305.93	186.61
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	127.99	83.24	50.07	36.99	33.04	29.40	25.16	22.35	21.33
22.5	306.53	126.97	81.56	57.18	43.38	37.29	32.92	28.44	25.99
45.0	731.26	573.99	410.92	311.67	237.46	170.06	131.52	88.91	56.05
67.5	495.35	403.33	301.75	259.51	174.66	127.81	97.58	75.65	62.20
90.0	230.83	178.42	135.04	113.17	86.52	72.18	60.35	51.15	38.48
112.5	494.16	390.78	311.91	215.53	163.30	119.09	91.18	73.79	61.49
135.0	673.77	521.64	404.05	292.13	201.13	140.96	96.56	58.74	38.72
157.5	160.97	101.22	67.88	50.13	39.62	34.54	28.38	25.99	24.68
180.0	49.24	38.66	32.92	27.49	23.54	22.17	20.97	20.32	19.42
202.5	224.55	150.76	100.98	62.20	41.59	32.63	28.98	23.66	20.14
225.0	268.53	190.37	142.87	90.94	62.38	43.08	28.92	24.14	20.85
247.5	57.84	44.87	32.57	23.06	20.44	18.70	17.39	16.31	15.60
270.0	71.64	60.23	58.26	55.39	51.09	42.13	32.92	26.35	21.15
292.5	65.19	51.99	38.36	28.38	23.66	19.90	17.75	16.13	15.06
315.0	308.32	193.36	140.96	94.77	60.95	41.77	28.80	23.30	20.32
337.5	190.61	136.54	87.90	55.03	34.54	29.76	26.77	22.83	18.52
360.0	127.99	83.24	50.07	36.99	33.04	29.40	25.16	22.35	21.33
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	20.44	19.66	18.64	17.93	17.33	16.67	16.31	15.83	15.30
22.5	24.92	23.78	22.83	21.87	20.61	20.02	19.30	18.40	17.51
45.0	41.17	31.61	26.89	24.92	22.29	20.14	19.54	18.70	17.27
67.5	51.93	42.96	28.38	25.22	22.77	20.91	19.36	18.28	17.15
90.0	32.27	28.26	25.69	23.84	22.17	20.44	19.42	18.46	17.75
112.5	49.30	40.15	27.73	24.80	23.00	20.85	19.60	18.16	16.97
135.0	30.29	26.35	24.62	22.11	20.20	18.64	17.69	16.49	15.72
157.5	23.48	22.65	21.75	20.79	19.90	19.24	18.34	17.57	16.85
180.0	18.70	18.05	17.63	17.09	16.73	16.31	15.95	15.60	15.18
202.5	19.42	18.22	17.57	17.09	16.55	16.07	15.72	15.36	15.00
225.0	17.69	16.19	15.72	15.24	14.94	14.64	14.34	14.10	13.80
247.5	14.94	14.46	13.98	13.50	13.21	12.85	12.61	12.37	12.19
270.0	18.40	16.61	15.83	15.30	14.64	14.10	13.68	13.21	12.61
292.5	14.28	13.56	13.15	12.73	12.31	12.07	11.83	11.59	11.41
315.0	17.69	15.89	15.60	15.12	14.58	14.22	13.80	13.74	13.32
337.5	17.81	17.27	16.55	16.07	15.66	15.24	14.76	14.52	14.16
360.0	20.44	19.66	18.64	17.93	17.33	16.67	16.31	15.83	15.30

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	14.82	14.40	14.16	13.86	13.80	13.68	13.56	13.50	13.38
22.5	16.85	16.31	15.83	15.48	15.24	15.06	14.82	14.76	14.64
45.0	16.31	15.83	15.30	14.94	14.52	14.22	13.98	13.68	13.44
67.5	16.43	15.83	15.12	14.70	14.22	13.80	13.44	13.15	12.85
90.0	16.97	16.37	16.01	15.30	14.76	14.34	13.80	13.38	13.09
112.5	16.13	15.54	14.94	14.52	14.16	13.62	13.38	13.09	12.73
135.0	14.94	14.46	14.10	13.80	13.44	13.27	13.03	12.79	12.61
157.5	16.25	15.83	15.36	15.12	14.76	14.40	14.22	14.04	13.80
180.0	14.64	14.40	14.22	13.98	13.98	13.86	13.62	13.44	13.32
202.5	14.70	14.40	14.16	13.98	13.68	13.44	13.32	13.21	13.21
225.0	13.62	13.27	13.03	12.91	12.73	12.67	12.49	12.61	12.37
247.5	12.01	11.83	11.65	11.47	11.29	11.23	11.11	10.99	10.88
270.0	12.31	11.89	11.65	11.41	11.17	10.99	10.82	10.64	10.52
292.5	11.17	10.99	10.82	10.70	10.58	10.46	10.34	10.22	10.16
315.0	13.15	12.73	12.25	11.89	11.65	11.47	11.41	11.29	11.17
337.5	13.86	13.56	13.38	13.21	13.03	12.85	12.67	12.61	12.55
360.0	14.82	14.40	14.16	13.86	13.80	13.68	13.56	13.50	13.38
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.38	13.44	13.50	13.80	13.80	13.44	13.21	13.80	13.74
22.5	14.58	14.58	14.52	14.58	14.70	14.52	14.40	14.52	14.58
45.0	13.27	13.03	12.91	12.79	12.61	12.43	12.31	12.19	12.13
67.5	12.61	12.43	12.19	12.07	11.89	11.71	11.59	11.53	11.35
90.0	12.91	12.73	12.55	12.43	12.43	12.49	12.55	12.85	13.44
112.5	12.49	12.31	12.07	11.89	11.65	11.47	11.35	11.17	11.11
135.0	12.43	12.25	12.13	11.95	11.83	11.71	11.65	11.53	11.41
157.5	13.50	13.27	13.15	13.03	12.91	12.91	12.73	12.73	12.67
180.0	13.21	13.21	13.21	13.09	13.09	13.15	13.15	12.97	12.79
202.5	13.27	13.21	13.15	13.21	13.27	13.27	13.09	13.09	13.27
225.0	12.25	12.13	11.95	11.89	11.77	11.71	11.71	11.65	11.65
247.5	10.76	10.64	10.52	10.40	10.34	10.22	10.16	10.10	10.04
270.0	10.40	10.22	10.10	10.04	9.98	9.92	9.86	9.86	9.80
292.5	10.04	9.92	9.86	9.80	9.74	9.74	9.68	9.68	9.62
315.0	11.17	10.93	10.99	10.88	10.82	10.88	10.76	10.76	10.76
337.5	12.49	12.43	12.19	12.25	12.37	12.43	12.37	12.25	12.31
360.0	13.38	13.44	13.50	13.80	13.80	13.44	13.21	13.80	13.74
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.68	13.21	13.38	13.27	12.79	12.97	12.55	13.15	12.73
22.5	14.28	14.16	14.28	13.86	13.98	13.62	13.80	13.56	13.15
45.0	11.95	11.83	11.77	11.65	11.53	11.41	11.23	11.05	10.82
67.5	11.29	11.35	11.23	10.93	10.93	10.82	10.58	10.52	10.46
90.0	14.28	14.76	14.88	14.52	14.22	14.10	13.68	12.97	12.31
112.5	10.99	10.88	10.82	10.70	10.58	10.52	10.46	10.40	10.40
135.0	11.23	11.17	11.11	10.93	10.93	10.82	10.64	10.52	10.40
157.5	12.79	12.79	12.67	12.67	12.67	12.55	12.49	12.25	12.01
180.0	12.97	12.91	12.85	12.91	12.97	12.97	12.91	12.85	12.61
202.5	13.32	13.09	13.15	13.15	13.03	13.09	12.97	12.79	12.61
225.0	11.53	11.29	11.11	11.17	11.11	10.99	10.76	10.34	10.22
247.5	10.04	9.98	9.98	9.92	9.86	9.80	9.80	9.74	9.74
270.0	9.80	9.74	9.74	9.74	9.68	9.74	9.74	9.86	9.98
292.5	9.56	9.56	9.62	9.56	9.44	9.44	9.38	9.38	9.32
315.0	10.88	10.70	10.46	10.40	10.52	10.34	10.22	9.68	9.32
337.5	12.37	12.43	12.25	12.19	12.07	12.01	11.59	11.29	11.23
360.0	13.68	13.21	13.38	13.27	12.79	12.97	12.55	13.15	12.73

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	12.49	12.49	12.13	11.11	10.04	9.92	9.80	8.66	8.48
22.5	12.67	11.77	11.17	11.05	10.93	9.86	9.74	9.50	9.32
45.0	10.70	10.64	10.58	10.52	9.74	9.56	9.44	9.26	9.20
67.5	10.28	10.10	9.98	9.86	9.44	9.32	9.14	9.02	8.90
90.0	11.53	10.70	10.16	9.92	9.08	8.84	8.66	8.60	8.48
112.5	10.40	10.52	10.52	10.58	8.96	8.78	8.66	8.54	8.43
135.0	10.34	10.40	10.40	9.14	8.84	8.66	8.54	8.43	8.37
157.5	11.41	10.58	10.16	9.26	8.78	8.66	8.48	8.25	8.31
180.0	12.19	10.46	10.04	8.78	8.66	8.54	8.37	8.19	8.19
202.5	12.37	11.83	11.11	10.82	10.70	9.80	9.68	9.50	9.44
225.0	10.10	9.98	9.92	9.92	9.86	9.62	9.50	9.38	9.26
247.5	9.62	9.56	9.56	9.50	9.50	9.26	9.20	9.14	9.02
270.0	10.04	10.16	9.86	9.92	9.74	9.74	10.16	9.68	8.90
292.5	9.20	9.14	9.02	9.02	8.96	8.96	8.66	8.60	8.48
315.0	9.26	9.14	9.02	8.96	8.90	8.96	8.72	8.66	8.60
337.5	10.93	10.52	9.74	9.50	9.56	9.50	8.66	8.54	8.37
360.0	12.49	12.49	12.13	11.11	10.04	9.92	9.80	8.66	8.48

C/γ(°)	90.0
0.0	8.25
22.5	9.32
45.0	9.14
67.5	8.84
90.0	8.48
112.5	8.43
135.0	8.43
157.5	8.31
180.0	8.19
202.5	9.32
225.0	9.20
247.5	8.90
270.0	8.54
292.5	8.48
315.0	8.48
337.5	8.31
360.0	8.25