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## Nata

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LumCAT: 2-2322-M	
Luminaire: 92.70.131.00	
Report No: 210726-B008	Voltage(V): 34.1300
Test No: 210726-C008	Current(A): 0.5000
LampCAT: SEOUL SAWx15 LES14.5	Power (W): 17.6500
Lamp flux(lm): 2268.5	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 570	Width(mm): 45
Phm Type: C	Height(mm): 20

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## Photometric Results

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Lumens(lm): 2190.53  
Efficiency(%): 96.56%  
Lumens(lm)/Power(W): 124.11  
Central intensity(cd): 2401.875  
Maximum intensity(cd): 2790.563  
Angle of maximum intensity: C=90.0  $\gamma$ =18.0  
Beam Angle(50%Imax): [C0/180]Total=41.1  
                                  [C90/270]Total=67.6  
Field angle(10%Imax): [C0/180]Total=65.2  
                                  [C90/270]Total=80.3  
Maximum s/h(1/2): C0\_180=0.63 C90\_270=1.20  
Maximum s/h(1/4): C0\_180=0.67 C90\_270=0.99  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 96.56%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.123%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2405.039	0.000	0	.000%	.000%
1.0	2406.867	2.302	2.302	.101%	.105%
2.0	2412.563	6.917	9.22	.305%	.421%
3.0	2420.191	11.558	20.778	.510%	.949%
4.0	2424.551	16.217	36.995	.715%	1.689%
5.0	2424.797	20.862	57.857	.920%	2.641%
6.0	2418.855	25.455	83.311	1.122%	3.803%
7.0	2409.926	29.972	113.283	1.321%	5.172%
8.0	2398.957	34.416	147.7	1.517%	6.743%
9.0	2385.246	38.773	186.473	1.709%	8.513%
10.0	2370.727	43.040	229.513	1.897%	10.477%
11.0	2353.184	47.202	276.714	2.081%	12.632%
12.0	2327.660	51.168	327.883	2.256%	14.968%
13.0	2293.453	54.841	382.724	2.418%	17.472%
14.0	2259.387	58.276	441	2.569%	20.132%
15.0	2227.500	61.598	502.598	2.715%	22.944%
16.0	2186.684	64.680	567.278	2.851%	25.897%
17.0	2130.750	67.234	634.512	2.964%	28.966%
18.0	2073.059	69.312	703.824	3.055%	32.130%
19.0	2020.887	71.226	775.05	3.140%	35.382%
20.0	1972.828	73.096	848.146	3.222%	38.719%
21.0	1919.500	74.741	922.886	3.295%	42.131%
22.0	1872.928	76.210	999.097	3.360%	45.610%
23.0	1816.042	77.405	1076.501	3.412%	49.143%
24.0	1750.496	77.977	1154.479	3.437%	52.703%
25.0	1678.127	77.959	1232.438	3.437%	56.262%
26.0	1612.561	77.677	1310.115	3.424%	59.808%
27.0	1532.454	76.943	1387.059	3.392%	63.321%
28.0	1441.361	75.291	1462.349	3.319%	66.758%
29.0	1344.684	72.891	1535.24	3.213%	70.085%
30.0	1256.284	70.226	1605.466	3.096%	73.291%
31.0	1145.985	66.852	1672.318	2.947%	76.343%
32.0	1042.889	62.709	1735.026	2.764%	79.206%
33.0	948.625	58.671	1793.697	2.586%	81.884%
34.0	849.076	54.404	1848.101	2.398%	84.368%
35.0	723.670	48.844	1896.944	2.153%	86.597%
36.0	640.069	43.422	1940.366	1.914%	88.580%
37.0	556.014	39.010	1979.376	1.720%	90.361%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	469.097	34.217	2013.592	1.508%	91.923%
39.0	381.818	29.044	2042.636	1.280%	93.248%
40.0	303.729	23.909	2066.546	1.054%	94.340%
41.0	234.158	19.154	2085.7	.844%	95.214%
42.0	164.352	14.479	2100.178	.638%	95.875%
43.0	121.897	10.604	2110.782	.467%	96.359%
44.0	78.585	7.567	2118.349	.334%	96.705%
45.0	54.461	5.113	2123.462	.225%	96.938%
46.0	39.192	3.663	2127.124	.161%	97.105%
47.0	30.716	2.780	2129.905	.123%	97.232%
48.0	25.678	2.280	2132.184	.100%	97.336%
49.0	21.653	1.944	2134.128	.086%	97.425%
50.0	18.925	1.692	2135.82	.075%	97.502%
51.0	17.336	1.534	2137.354	.068%	97.572%
52.0	16.316	1.444	2138.798	.064%	97.638%
53.0	15.564	1.387	2140.185	.061%	97.702%
54.0	15.050	1.349	2141.534	.059%	97.763%
55.0	14.678	1.327	2142.861	.058%	97.824%
56.0	14.411	1.314	2144.176	.058%	97.884%
57.0	14.182	1.307	2145.483	.058%	97.943%
58.0	14.063	1.306	2146.789	.058%	98.003%
59.0	14.010	1.312	2148.101	.058%	98.063%
60.0	14.038	1.325	2149.426	.058%	98.124%
61.0	14.084	1.342	2150.768	.059%	98.185%
62.0	14.171	1.361	2152.13	.060%	98.247%
63.0	14.295	1.384	2153.514	.061%	98.310%
64.0	14.428	1.409	2154.924	.062%	98.374%
65.0	14.572	1.435	2156.359	.063%	98.440%
66.0	14.695	1.460	2157.819	.064%	98.507%
67.0	14.787	1.482	2159.302	.065%	98.574%
68.0	14.818	1.500	2160.801	.066%	98.643%
69.0	14.769	1.509	2162.311	.067%	98.712%
70.0	14.681	1.513	2163.823	.067%	98.781%
71.0	14.607	1.514	2165.337	.067%	98.850%
72.0	14.632	1.520	2166.858	.067%	98.919%
73.0	14.688	1.533	2168.391	.068%	98.989%
74.0	14.674	1.544	2169.934	.068%	99.060%
75.0	14.555	1.544	2171.479	.068%	99.130%

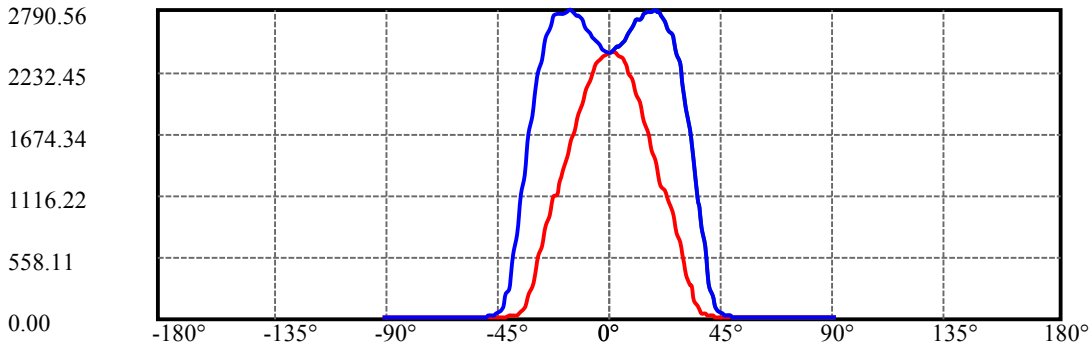
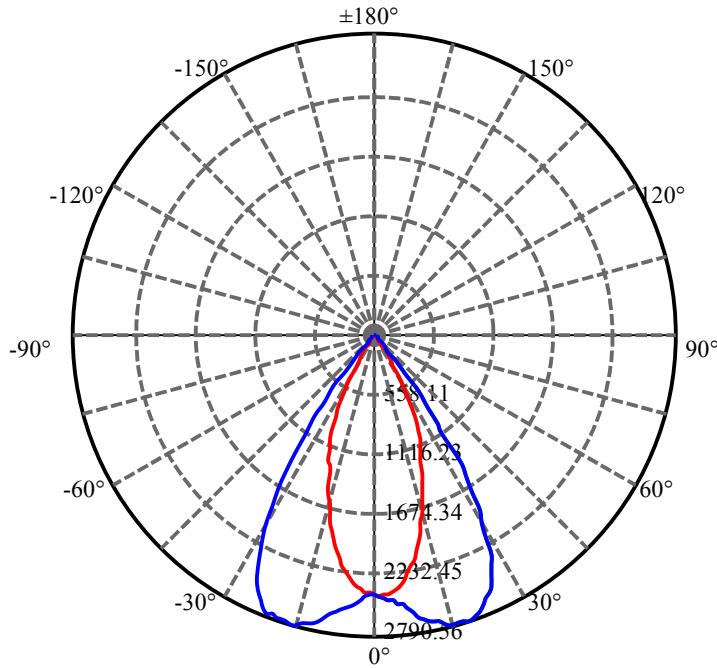
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.358	1.535	2173.014	.068%	99.200%
77.0	13.985	1.511	2174.525	.067%	99.269%
78.0	13.613	1.477	2176.002	.065%	99.337%
79.0	13.370	1.450	2177.452	.064%	99.403%
80.0	12.976	1.420	2178.872	.063%	99.468%
81.0	12.667	1.387	2180.259	.061%	99.531%
82.0	12.150	1.346	2181.605	.059%	99.592%
83.0	11.436	1.282	2182.887	.057%	99.651%
84.0	10.828	1.213	2184.1	.053%	99.706%
85.0	10.343	1.155	2185.255	.051%	99.759%
86.0	9.970	1.110	2186.366	.049%	99.810%
87.0	9.580	1.070	2187.436	.047%	99.859%
88.0	9.454	1.043	2188.478	.046%	99.906%
89.0	9.366	1.032	2189.51	.045%	99.953%
90.0	9.267	1.022	2190.531	.045%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1605.47	70.77%	73.29%
0-40	2066.55	91.10%	94.34%
0-60	2149.43	94.75%	98.12%
0-90	2189.51	96.52%	99.95%
0-120	2189.51	96.52%	99.95%
0-180	2190.53	96.56%	100.00%
60-90	41.41	1.83%	1.89%
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%
0-32.30	1752.43	77.25%	80.00%

ZONAL LUMEN SUMMARY

0-10	229.51
10-20	618.63
20-30	757.32
30-40	461.08
40-50	69.27
50-60	13.61
60-70	14.40
70-80	15.05
80-90	10.64
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

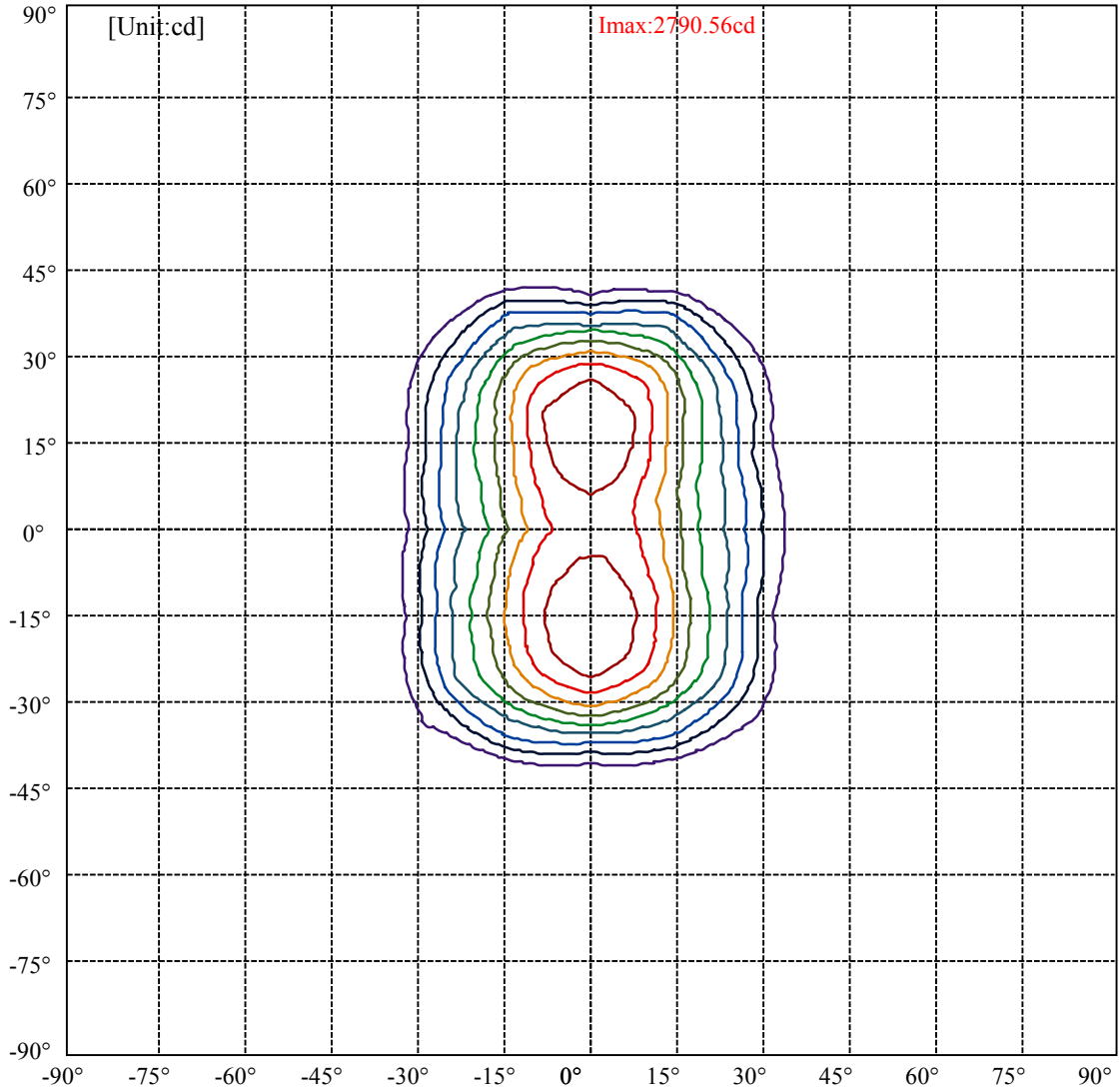


C90(Max): —————  
C0/C180: —————  
C90/C270: —————

Field angle(10%Imax):C0/180Left:32.7 Right:32.5  
:C90/270Left:58.1 Right:22.2

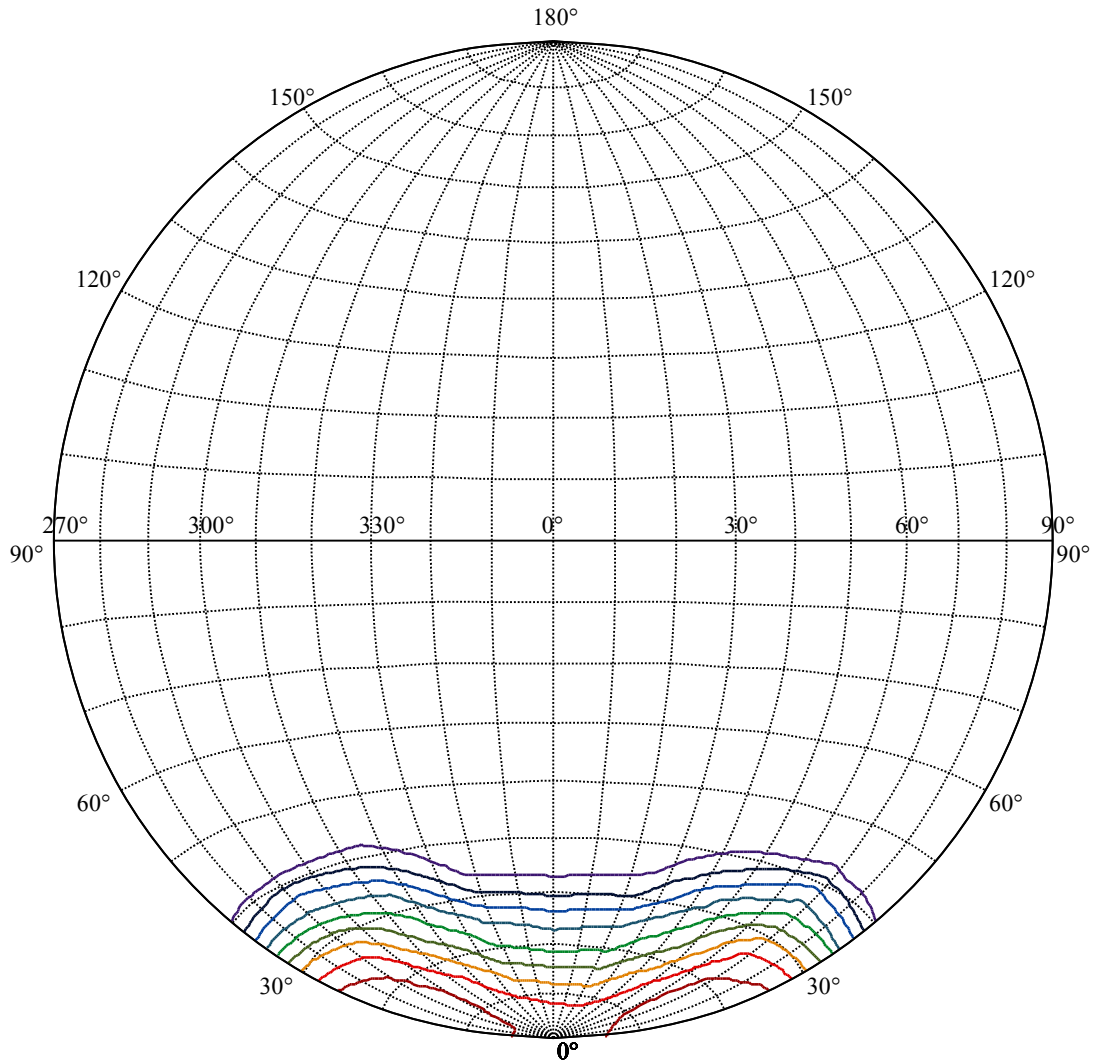
Beam Angle(50%Imax):C0/180Left:21.2 Right:20.0  
:C90/270Left:51.5 Right:16.1





(10%Imax) 279.056	—
(20%Imax) 558.112	—
(30%Imax) 837.169	—
(40%Imax) 1116.22	—
(50%Imax) 1395.28	—
(60%Imax) 1674.34	—
(70%Imax) 1953.39	—
(80%Imax) 2232.45	—
(90%Imax) 2511.51	—





House

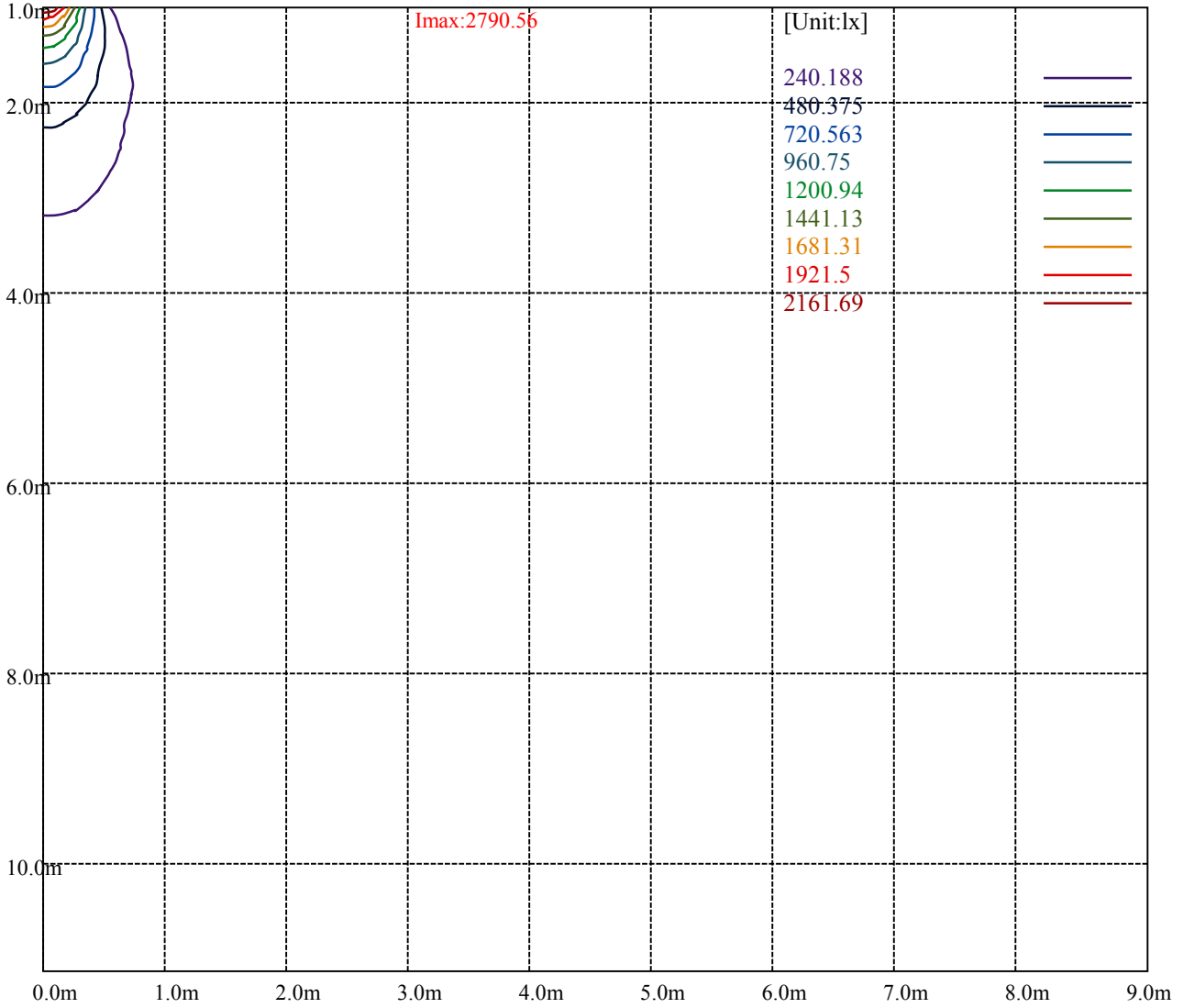
[Unit:cd]

Road

**Imax:2790.56**

(10%Imax) 279.056	—
(20%Imax) 558.112	—
(30%Imax) 837.169	—
(40%Imax) 1116.22	—
(50%Imax) 1395.28	—
(60%Imax) 1674.34	—
(70%Imax) 1953.39	—
(80%Imax) 2232.45	—
(90%Imax) 2511.51	—





Luminance Table

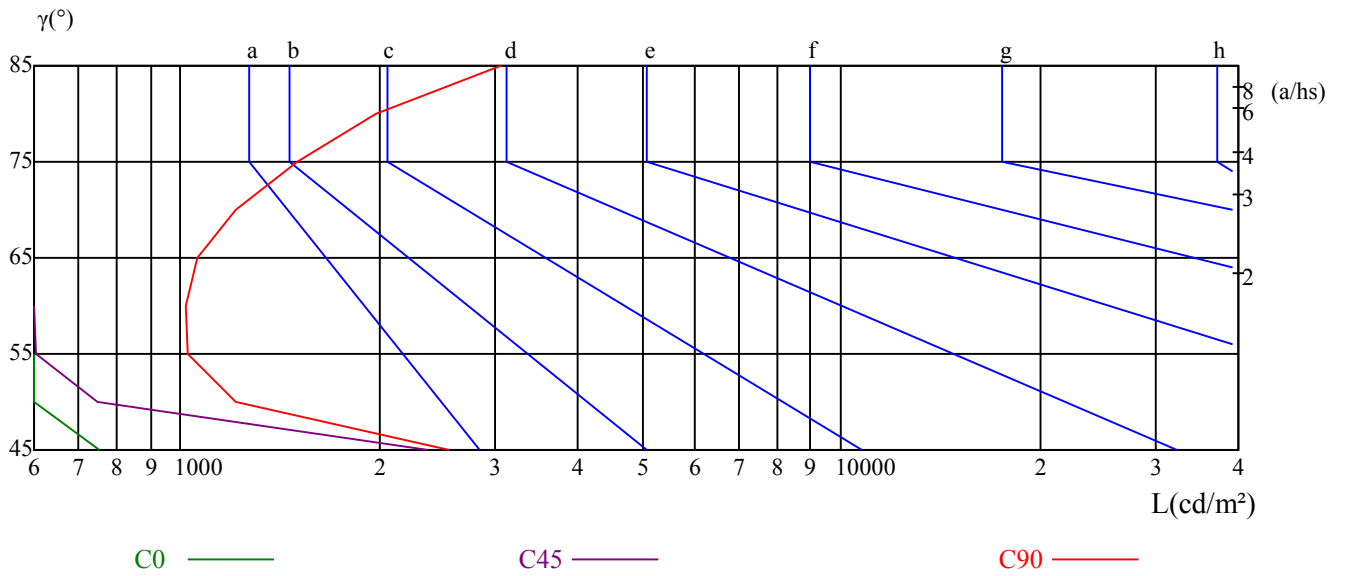
$\gamma$	45	50	55	60	65	70	75	80	85
C0	754	600	564	637	776	811	921	918	840
C45	2365	751	603	580	616	694	782	760	867
C90	2553	1215	1023	1021	1057	1211	1506	1980	3053

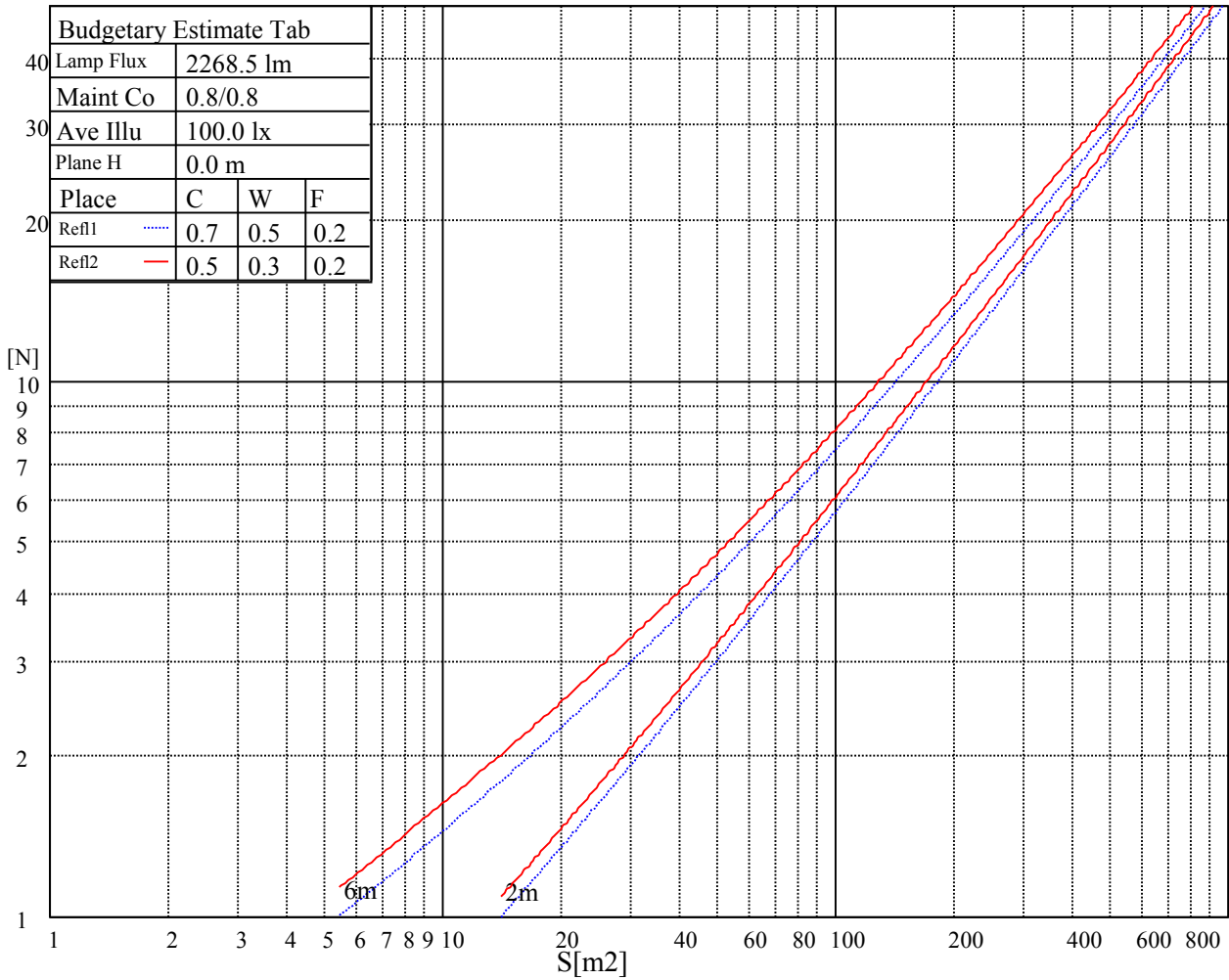
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1852	1142	1162	2906	1699	2063	4831	4340	4586

Glare Table

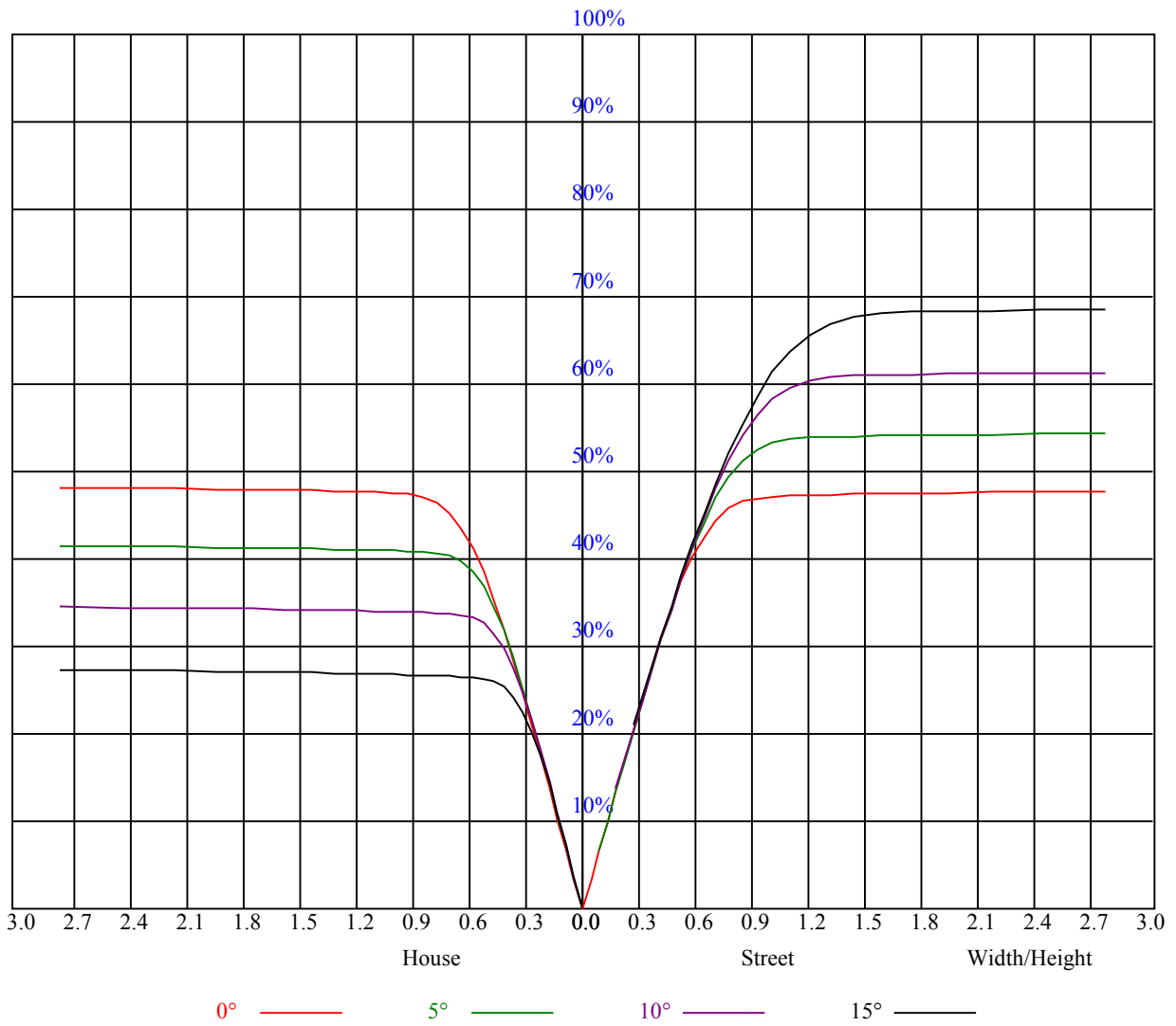
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.03	1.03	1.03	0.99	0.99	0.99	0.97
1	1.07	1.04	1.02	1.05	1.02	1.00	1.01	0.99	0.97	0.97	0.96	0.94	0.94	0.93	0.92	0.90
2	0.99	0.95	0.92	0.98	0.94	0.91	0.94	0.91	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.84
3	0.93	0.88	0.84	0.91	0.87	0.83	0.89	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.79	0.78
4	0.87	0.81	0.77	0.86	0.81	0.77	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.73
5	0.81	0.76	0.72	0.80	0.75	0.71	0.79	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.68
6	0.76	0.71	0.67	0.76	0.70	0.66	0.74	0.69	0.66	0.73	0.69	0.65	0.72	0.68	0.65	0.64
7	0.72	0.66	0.62	0.71	0.66	0.62	0.70	0.65	0.62	0.69	0.64	0.61	0.68	0.64	0.61	0.60
8	0.68	0.62	0.58	0.67	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.56
9	0.64	0.58	0.55	0.64	0.58	0.55	0.63	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.53
10	0.61	0.55	0.51	0.60	0.55	0.51	0.59	0.55	0.51	0.59	0.54	0.51	0.58	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	2401.88	2409.19	2408.06	2398.50	2381.63	2350.69	2315.25	2280.94	2219.06
22.5	2408.63	2403.00	2392.88	2374.31	2356.31	2333.81	2296.69	2258.44	2219.63
45.0	2408.06	2409.19	2409.19	2416.50	2413.69	2404.13	2387.81	2372.63	2358.00
67.5	2409.75	2410.88	2427.19	2444.06	2454.75	2460.38	2477.25	2491.88	2504.25
90.0	2401.31	2414.25	2438.44	2453.63	2464.31	2489.06	2509.88	2540.81	2588.06
112.5	2408.06	2409.19	2426.06	2440.13	2449.13	2457.56	2474.44	2487.94	2506.50
135.0	2400.19	2399.63	2401.88	2412.56	2413.69	2406.38	2397.38	2391.75	2378.25
157.5	2402.44	2396.25	2381.06	2373.19	2364.75	2350.69	2329.88	2300.63	2263.50
180.0	2401.88	2389.50	2375.44	2358.00	2334.38	2302.88	2260.69	2204.44	2152.13
202.5	2408.63	2411.44	2409.19	2400.75	2400.19	2394.56	2381.63	2357.44	2335.50
225.0	2408.06	2412.00	2421.00	2431.13	2442.38	2459.25	2469.38	2465.44	2449.69
247.5	2409.75	2417.63	2435.06	2468.81	2494.69	2508.19	2513.25	2525.63	2534.63
270.0	2401.31	2403.56	2421.00	2451.94	2486.25	2519.44	2534.06	2553.75	2577.94
292.5	2408.06	2414.25	2432.25	2469.38	2498.06	2516.06	2526.19	2535.75	2548.69
315.0	2400.19	2403.56	2415.38	2427.19	2442.38	2460.38	2468.81	2460.38	2444.63
337.5	2402.44	2406.38	2406.94	2403.00	2396.25	2383.31	2359.13	2331.00	2302.88
360.0	2401.88	2409.19	2408.06	2398.50	2381.63	2350.69	2315.25	2280.94	2219.06
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2159.44	2105.44	2023.31	1954.69	1879.31	1785.38	1704.38	1622.81	1517.63
22.5	2159.44	2103.19	2041.31	1962.00	1892.25	1822.50	1745.44	1665.00	1593.56
45.0	2334.94	2306.81	2282.63	2261.25	2236.50	2203.31	2166.19	2120.63	2044.13
67.5	2535.75	2568.94	2593.13	2613.38	2613.38	2600.44	2605.50	2612.81	2594.81
90.0	2637.56	2676.94	2702.25	2701.13	2723.63	2761.31	2776.50	2781.00	2772.56
112.5	2531.25	2572.88	2600.44	2617.31	2604.94	2607.75	2617.31	2624.06	2612.25
135.0	2359.13	2343.94	2322.56	2307.38	2280.94	2239.88	2192.63	2125.69	2064.38
157.5	2213.44	2152.13	2088.56	2026.13	1946.25	1878.75	1815.19	1730.81	1650.94
180.0	2083.50	2007.56	1939.50	1858.50	1780.88	1698.75	1610.44	1532.25	1451.81
202.5	2301.75	2235.94	2190.94	2129.06	2051.44	1973.81	1906.88	1823.06	1742.06
225.0	2436.19	2421.56	2392.31	2368.13	2349.00	2331.56	2310.19	2279.25	2201.63
247.5	2547.00	2584.69	2620.69	2636.44	2638.13	2633.63	2638.69	2639.25	2611.13
270.0	2610.56	2655.56	2701.69	2730.38	2735.44	2755.69	2783.25	2788.31	2772.56
292.5	2567.25	2594.81	2626.31	2645.44	2646.56	2631.38	2635.88	2630.81	2603.81
315.0	2421.00	2402.44	2376.56	2349.56	2321.44	2302.88	2282.06	2247.75	2184.19
337.5	2265.75	2198.81	2148.75	2081.81	1995.19	1923.19	1849.50	1763.44	1674.56
360.0	2159.44	2105.44	2023.31	1954.69	1879.31	1785.38	1704.38	1622.81	1517.63
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1433.81	1351.13	1254.94	1202.63	1161.00	1107.00	1049.06	978.75	883.69
22.5	1509.75	1437.19	1358.44	1294.88	1246.50	1195.88	1137.94	1070.44	995.06
45.0	1964.81	1908.56	1859.06	1781.44	1711.69	1639.69	1558.69	1520.44	1477.13
67.5	2569.50	2535.19	2526.75	2502.56	2457.56	2418.19	2340.00	2282.06	2249.44
90.0	2790.56	2781.00	2766.94	2739.38	2687.63	2637.56	2605.50	2571.19	2481.75
112.5	2597.06	2580.19	2568.38	2539.13	2505.38	2446.31	2392.88	2300.63	2233.69
135.0	2001.38	1945.13	1890.56	1811.81	1748.81	1690.88	1627.31	1560.94	1501.88
157.5	1572.75	1499.63	1421.44	1359.56	1307.25	1258.88	1195.88	1117.13	1037.81
180.0	1345.50	1274.06	1223.44	1122.24	1101.04	1035.73	943.82	848.87	758.81
202.5	1650.38	1560.94	1487.25	1410.19	1346.06	1303.31	1261.13	1119.26	1109.87
225.0	2138.63	2078.44	2018.81	1959.75	1892.81	1802.81	1711.69	1635.75	1571.06
247.5	2577.94	2534.63	2505.94	2474.44	2451.94	2412.00	2336.63	2284.31	2207.81
270.0	2759.06	2761.31	2750.06	2756.25	2731.50	2664.56	2617.88	2547.00	2466.56
292.5	2550.94	2526.19	2511.00	2471.63	2459.25	2421.00	2341.13	2282.63	2198.81
315.0	2112.19	2049.75	1979.44	1919.25	1845.56	1754.44	1669.50	1613.81	1550.81
337.5	1594.69	1510.88	1442.81	1366.88	1312.88	1268.44	1218.94	1116.84	1076.79
360.0	1433.81	1351.13	1254.94	1202.63	1161.00	1107.00	1049.06	978.75	883.69



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	785.25	694.13	592.31	500.63	406.69	317.25	291.94	180.28	121.28
22.5	886.50	789.19	690.75	586.69	485.44	405.56	317.81	291.38	179.38
45.0	1416.94	1352.25	1301.06	1217.25	1120.22	1097.04	1020.66	918.51	800.89
67.5	2200.50	2102.63	1989.56	1928.81	1797.19	1641.38	1523.25	1428.19	1266.19
90.0	2383.88	2304.00	2133.00	2006.44	1890.00	1715.06	1569.38	1417.50	1100.03
112.5	2188.69	2103.75	1999.69	1913.06	1783.69	1653.75	1526.63	1397.81	1278.56
135.0	1455.19	1392.19	1323.56	1252.13	1120.61	1078.48	1017.51	945.79	857.42
157.5	954.56	824.06	731.81	659.25	528.19	449.44	371.25	286.88	205.31
180.0	658.41	565.65	462.66	367.26	292.50	220.89	155.98	103.73	67.56
202.5	1023.08	919.24	807.81	713.36	617.18	505.29	415.63	327.15	247.11
225.0	1511.44	1452.38	1409.63	1353.38	1294.31	1248.75	1182.38	1113.19	973.69
247.5	2129.63	1996.88	1891.69	1812.38	1675.69	1515.38	1404.56	1293.75	1114.76
270.0	2338.88	2241.56	2131.88	1999.13	1836.00	1679.63	1506.38	1303.88	1122.75
292.5	2114.44	2009.81	1887.19	1796.06	1656.00	1494.00	1373.63	1257.19	1178.56
315.0	1485.00	1451.81	1399.50	1327.50	1271.25	1200.94	1126.69	1033.88	916.31
337.5	986.91	862.26	762.86	667.24	560.81	463.39	374.34	286.14	213.75
360.0	785.25	694.13	592.31	500.63	406.69	317.25	291.94	180.28	121.28
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	78.02	56.70	46.24	40.95	35.94	27.23	24.69	22.95	21.21
22.5	124.14	80.10	57.26	46.80	41.51	36.56	27.62	25.20	23.40
45.0	708.86	609.75	509.01	403.31	336.60	267.41	198.79	144.79	99.39
67.5	1170.56	1101.38	998.44	862.88	724.50	556.88	341.44	284.63	119.93
90.0	1002.38	837.23	659.93	455.46	302.18	200.64	124.14	83.19	64.01
112.5	1173.38	1070.44	981.56	869.06	734.63	611.44	418.50	295.88	184.89
135.0	728.10	633.15	549.62	443.81	366.98	298.63	229.44	165.83	120.09
157.5	150.92	96.08	65.87	50.96	45.23	40.22	35.49	31.22	29.31
180.0	48.26	43.03	37.97	32.51	28.13	25.82	23.79	22.11	20.81
202.5	178.26	125.04	76.39	53.16	45.62	39.71	34.82	29.36	26.55
225.0	869.06	774.00	644.06	524.25	441.56	370.13	295.31	286.88	152.66
247.5	1066.28	967.44	831.32	697.28	528.86	352.80	216.51	116.61	78.58
270.0	933.19	768.38	595.69	428.06	284.06	220.28	119.53	86.06	68.79
292.5	1041.64	922.16	799.88	657.73	484.54	326.81	220.28	135.73	92.14
315.0	810.56	709.88	584.44	491.63	414.56	332.44	284.63	193.05	130.89
337.5	157.50	101.48	67.89	51.24	44.78	39.54	34.65	26.89	24.69
360.0	78.02	56.70	46.24	40.95	35.94	27.23	24.69	22.95	21.21
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	19.74	18.62	17.49	16.65	15.81	15.13	14.63	14.23	13.84
22.5	21.49	20.14	19.01	17.89	16.88	16.09	15.36	14.85	14.34
45.0	57.43	35.44	27.90	23.63	19.91	17.38	15.92	15.02	14.23
67.5	78.75	56.36	42.58	32.34	25.09	19.63	18.06	16.26	15.30
90.0	47.93	38.36	31.61	26.33	23.63	20.87	19.18	17.94	16.93
112.5	114.41	72.11	55.74	43.54	31.28	24.81	20.59	18.34	16.65
135.0	76.50	50.34	34.76	27.45	23.79	20.93	19.01	18.11	17.27
157.5	27.73	25.88	24.75	23.46	21.49	19.52	18.06	17.16	16.76
180.0	19.58	18.68	17.83	17.16	16.76	16.43	16.26	16.26	16.37
202.5	24.58	22.84	20.98	19.80	18.73	17.66	17.04	16.59	16.20
225.0	98.27	51.41	32.29	27.23	23.51	19.46	17.72	16.82	15.81
247.5	59.06	45.73	34.88	28.52	21.15	18.45	16.37	15.24	14.51
270.0	53.33	43.03	35.44	28.35	24.36	20.81	18.68	17.44	16.48
292.5	67.56	54.28	41.85	32.91	24.53	20.25	17.89	16.14	15.13
315.0	82.13	52.93	34.71	27.17	22.33	18.96	16.93	15.64	14.63
337.5	22.89	20.93	19.63	18.45	17.21	16.43	15.69	15.02	14.57
360.0	19.74	18.62	17.49	16.65	15.81	15.13	14.63	14.23	13.84

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	13.67	13.56	13.61	13.73	13.89	14.12	14.46	14.85	15.30
22.5	14.01	13.78	13.56	13.56	13.56	13.56	13.73	13.84	14.01
45.0	13.56	13.16	12.83	12.38	12.21	11.98	11.81	11.70	11.59
67.5	14.57	13.95	13.50	13.11	12.88	12.60	12.43	12.15	11.93
90.0	16.09	15.81	15.30	14.79	14.51	14.01	13.89	13.56	13.28
112.5	15.75	14.91	14.34	13.95	13.61	13.39	13.11	12.88	12.66
135.0	16.37	15.69	15.30	14.68	14.18	13.95	13.78	13.67	13.61
157.5	16.59	16.43	16.37	16.31	16.31	16.59	17.04	17.61	18.11
180.0	16.59	16.88	17.27	17.83	18.56	19.24	20.14	20.98	21.77
202.5	15.98	15.92	15.92	16.03	16.26	16.65	17.16	17.78	18.51
225.0	15.24	14.57	14.18	13.67	13.22	13.05	12.94	12.94	13.05
247.5	13.89	13.44	13.11	12.83	12.60	12.43	12.21	11.93	11.76
270.0	15.81	15.41	14.96	14.51	14.18	13.89	13.50	13.22	12.99
292.5	14.40	13.84	13.44	13.16	12.88	12.66	12.43	12.15	11.98
315.0	14.12	13.73	13.28	12.94	12.66	12.49	12.26	12.09	11.98
337.5	14.18	13.78	13.61	13.44	13.50	13.56	13.73	14.01	14.23
360.0	13.67	13.56	13.61	13.73	13.89	14.12	14.46	14.85	15.30
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	15.64	16.09	16.43	16.59	16.71	16.71	16.37	15.81	15.36
22.5	14.23	14.68	15.02	15.41	15.64	15.75	15.64	15.36	15.13
45.0	11.53	11.53	11.53	11.53	11.53	11.59	11.64	11.76	11.93
67.5	11.76	11.59	11.48	11.36	11.25	11.19	11.08	10.97	10.86
90.0	13.11	12.77	12.32	12.21	12.09	11.87	11.70	11.64	11.59
112.5	12.54	12.38	12.32	12.26	12.26	12.15	12.04	11.98	11.87
135.0	13.67	13.61	13.67	13.78	13.95	14.01	14.12	14.23	14.34
157.5	18.62	19.24	19.69	20.14	20.59	21.04	21.21	21.09	20.93
180.0	22.61	23.23	23.74	23.85	23.63	23.12	22.61	22.39	22.56
202.5	19.18	19.97	20.98	21.77	22.39	22.78	22.73	22.33	21.83
225.0	13.11	13.16	13.33	13.61	13.84	14.12	14.46	14.85	15.36
247.5	11.70	11.64	11.59	11.53	11.48	11.42	11.36	11.19	11.08
270.0	12.83	12.49	12.43	12.26	12.21	12.09	11.98	11.98	11.93
292.5	11.81	11.81	11.70	11.64	11.48	11.42	11.36	11.25	11.14
315.0	11.87	11.87	11.87	11.87	11.93	11.98	12.04	12.15	12.21
337.5	14.51	14.79	15.08	15.30	15.64	15.86	15.98	15.92	15.64
360.0	15.64	16.09	16.43	16.59	16.71	16.71	16.37	15.81	15.36
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.53	15.92	16.20	16.26	15.81	15.08	15.30	15.30	14.40
22.5	15.02	14.96	15.08	15.13	14.68	14.06	13.67	13.22	12.83
45.0	12.04	12.09	11.98	11.76	11.59	10.97	10.13	10.01	9.90
67.5	10.80	10.63	10.58	10.46	10.41	10.29	10.24	10.13	10.01
90.0	11.48	11.42	11.31	11.31	11.14	11.03	10.91	10.74	10.58
112.5	11.64	11.59	11.42	11.31	11.25	11.08	10.97	10.86	10.69
135.0	14.51	14.63	14.63	14.57	14.34	13.11	11.36	11.03	10.80
157.5	20.93	20.87	20.81	20.64	20.19	19.52	18.62	17.27	16.37
180.0	23.06	23.40	23.12	22.33	22.05	22.16	21.21	21.15	20.76
202.5	21.71	21.94	22.39	22.61	22.22	21.49	21.38	21.15	19.80
225.0	15.86	16.14	16.14	15.98	15.75	15.47	15.30	15.13	14.63
247.5	11.03	10.91	10.86	10.74	10.63	10.58	10.46	10.35	10.29
270.0	11.76	11.70	11.59	11.25	11.14	11.03	10.97	10.91	10.74
292.5	11.03	10.91	10.86	10.74	10.69	10.63	10.58	10.46	10.35
315.0	12.21	12.32	12.38	12.49	12.54	12.32	11.93	11.64	11.42
337.5	15.53	15.58	15.47	15.30	15.30	14.96	14.79	14.57	14.06
360.0	15.53	15.92	16.20	16.26	15.81	15.08	15.30	15.30	14.40

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	14.74	14.40	14.12	12.38	11.42	11.36	10.35	9.96	9.84
22.5	12.21	11.36	10.80	10.74	10.63	9.79	9.73	9.62	9.56
45.0	9.79	9.68	9.62	9.56	9.45	9.34	9.28	9.17	9.06
67.5	9.90	9.73	9.62	9.51	9.39	9.17	9.00	8.94	8.83
90.0	10.35	10.18	10.01	9.73	9.56	9.34	9.11	8.94	8.83
112.5	10.52	10.29	10.13	9.96	9.84	9.62	9.45	9.34	9.28
135.0	10.58	10.46	10.35	10.24	10.07	9.90	9.79	9.68	9.62
157.5	15.47	14.06	12.54	11.81	10.63	10.18	10.07	10.01	9.96
180.0	19.63	17.83	13.28	12.32	10.18	10.01	9.96	9.90	9.68
202.5	19.41	18.56	17.04	13.73	12.21	10.13	9.84	9.73	9.68
225.0	14.18	13.44	12.54	11.48	11.03	10.80	9.39	9.28	9.17
247.5	10.24	10.13	10.01	9.96	9.84	9.28	8.94	8.83	8.78
270.0	10.58	10.41	10.24	10.07	9.84	9.45	9.23	9.00	8.94
292.5	10.29	10.18	10.07	9.96	9.79	9.68	9.34	9.28	9.17
315.0	11.14	10.80	10.63	10.58	10.46	10.41	9.79	9.68	9.62
337.5	13.67	12.88	11.98	11.25	11.14	11.08	10.01	9.90	9.84
360.0	14.74	14.40	14.12	12.38	11.42	11.36	10.35	9.96	9.84
C/γ(°)	90.0								
0.0	9.79								
22.5	9.45								
45.0	9.06								
67.5	8.78								
90.0	8.83								
112.5	9.11								
135.0	9.45								
157.5	9.73								
180.0	9.62								
202.5	9.56								
225.0	9.11								
247.5	8.72								
270.0	8.89								
292.5	9.06								
315.0	9.45								
337.5	9.68								
360.0	9.79								