



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

LumCAT: 2-2323-M
Luminaire: 92.70.131.00
Report No: 210726-B009
Test No: 210726-C009
LampCAT: SEOUL SAWx15 LES14.5
Lamp flux(lm): 2268.5
Number of Lamps: 1
Length(mm): 570
Phm Type: C
Voltage(V): 34.0500
Current(A): 0.5000
Power (W): 17.0250
PF: 0.0000
Ballast type: DC
Width(mm): 45
Height(mm): 20

Photometric Results

Lumens(lm): 2029.62
Efficiency(%): 89.47%
Lumens(lm)/Power(W): 119.21
Central intensity(cd): 2528.438
Maximum intensity(cd): 4037.625
Angle of maximum intensity: C=90.0 γ =15.0
Beam Angle(50%Imax): [C0/180]Total=48.7
[C90/270]Total=40.7
Field angle(10%Imax): [C0/180]Total=67.2
[C90/270]Total=62.7
Maximum s/h(1/2): C0_180=0.75 C90_270=1.03
Maximum s/h(1/4): C0_180=0.73 C90_270=0.84
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.47%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.046%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2561.203	0.000	0	.000%	.000%
1.0	2570.063	2.455	2.455	.108%	.121%
2.0	2591.965	7.409	9.864	.327%	.486%
3.0	2617.629	12.460	22.324	.549%	1.100%
4.0	2642.203	17.606	39.93	.776%	1.967%
5.0	2662.488	22.821	62.751	1.006%	3.092%
6.0	2677.324	28.062	90.813	1.237%	4.474%
7.0	2695.359	33.348	124.161	1.470%	6.117%
8.0	2705.520	38.653	162.814	1.704%	8.022%
9.0	2711.320	43.901	206.715	1.935%	10.185%
10.0	2708.895	49.051	255.766	2.162%	12.602%
11.0	2701.969	54.066	309.831	2.383%	15.265%
12.0	2683.266	58.868	368.7	2.595%	18.166%
13.0	2655.949	63.363	432.063	2.793%	21.288%
14.0	2623.008	67.570	499.633	2.979%	24.617%
15.0	2578.887	71.414	571.047	3.148%	28.136%
16.0	2522.250	74.746	645.793	3.295%	31.818%
17.0	2448.176	77.403	723.196	3.412%	35.632%
18.0	2363.625	79.336	802.532	3.497%	39.541%
19.0	2272.043	80.651	883.183	3.555%	43.515%
20.0	2170.441	81.310	964.493	3.584%	47.521%
21.0	2062.547	81.282	1045.775	3.583%	51.526%
22.0	1951.847	80.671	1126.446	3.556%	55.500%
23.0	1842.483	79.615	1206.061	3.510%	59.423%
24.0	1738.603	78.295	1284.356	3.451%	63.281%
25.0	1610.842	76.159	1360.515	3.357%	67.033%
26.0	1500.300	73.439	1433.954	3.237%	70.651%
27.0	1375.731	70.363	1504.317	3.102%	74.118%
28.0	1238.713	66.192	1570.509	2.918%	77.380%
29.0	1106.775	61.365	1631.874	2.705%	80.403%
30.0	978.940	56.314	1688.187	2.482%	83.178%
31.0	837.826	50.558	1738.745	2.229%	85.669%
32.0	708.216	44.292	1783.038	1.953%	87.851%
33.0	578.232	37.899	1820.937	1.671%	89.718%
34.0	479.823	32.020	1852.957	1.412%	91.296%
35.0	378.176	26.646	1879.603	1.175%	92.609%
36.0	292.788	21.364	1900.967	.942%	93.661%
37.0	222.486	16.805	1917.772	.741%	94.489%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	172.888	13.197	1930.969	.582%	95.140%
39.0	121.729	10.056	1941.025	.443%	95.635%
40.0	90.345	7.396	1948.422	.326%	95.999%
41.0	68.207	5.646	1954.068	.249%	96.278%
42.0	51.666	4.355	1958.423	.192%	96.492%
43.0	40.388	3.410	1961.833	.150%	96.660%
44.0	32.154	2.738	1964.571	.121%	96.795%
45.0	27.570	2.295	1966.866	.101%	96.908%
46.0	24.177	2.024	1968.889	.089%	97.008%
47.0	22.152	1.843	1970.732	.081%	97.099%
48.0	20.514	1.725	1972.457	.076%	97.184%
49.0	19.399	1.639	1974.096	.072%	97.264%
50.0	18.510	1.581	1975.676	.070%	97.342%
51.0	17.828	1.537	1977.214	.068%	97.418%
52.0	17.184	1.502	1978.716	.066%	97.492%
53.0	16.622	1.471	1980.187	.065%	97.565%
54.0	16.137	1.444	1981.631	.064%	97.636%
55.0	15.743	1.423	1983.054	.063%	97.706%
56.0	15.363	1.406	1984.459	.062%	97.775%
57.0	15.015	1.389	1985.848	.061%	97.843%
58.0	14.745	1.376	1987.224	.061%	97.911%
59.0	14.516	1.368	1988.592	.060%	97.979%
60.0	14.354	1.364	1989.956	.060%	98.046%
61.0	14.358	1.370	1991.327	.060%	98.113%
62.0	14.210	1.377	1992.703	.061%	98.181%
63.0	14.147	1.379	1994.082	.061%	98.249%
64.0	14.041	1.383	1995.465	.061%	98.317%
65.0	13.950	1.385	1996.851	.061%	98.386%
66.0	13.883	1.389	1998.239	.061%	98.454%
67.0	13.848	1.394	1999.634	.061%	98.523%
68.0	13.778	1.399	2001.033	.062%	98.592%
69.0	13.627	1.398	2002.431	.062%	98.661%
70.0	13.528	1.395	2003.826	.061%	98.729%
71.0	13.475	1.396	2005.222	.062%	98.798%
72.0	13.419	1.398	2006.62	.062%	98.867%
73.0	13.402	1.403	2008.023	.062%	98.936%
74.0	13.286	1.403	2009.426	.062%	99.005%
75.0	13.191	1.399	2010.824	.062%	99.074%

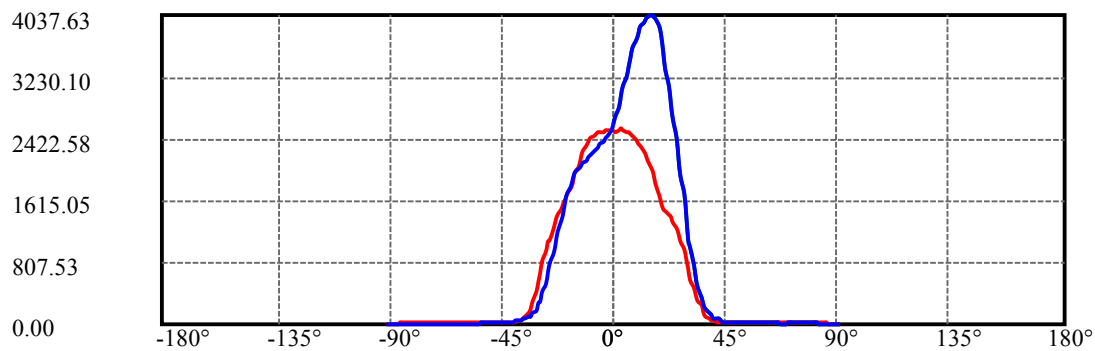
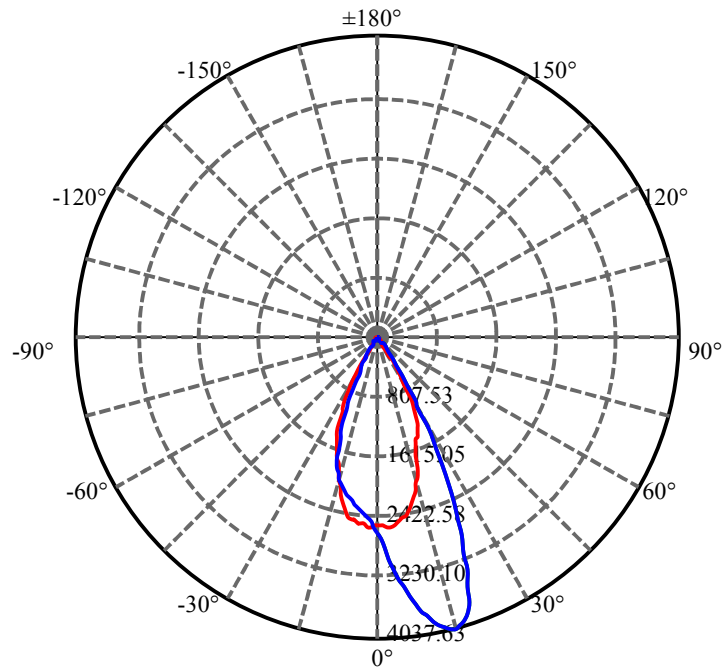
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.043	1.393	2012.217	.061%	99.143%
77.0	12.881	1.382	2013.599	.061%	99.211%
78.0	12.695	1.369	2014.968	.060%	99.278%
79.0	12.561	1.357	2016.325	.060%	99.345%
80.0	12.424	1.347	2017.672	.059%	99.411%
81.0	12.259	1.335	2019.007	.059%	99.477%
82.0	11.988	1.315	2020.322	.058%	99.542%
83.0	11.559	1.280	2021.602	.056%	99.605%
84.0	11.289	1.245	2022.847	.055%	99.666%
85.0	10.807	1.206	2024.053	.053%	99.726%
86.0	10.512	1.165	2025.218	.051%	99.783%
87.0	10.136	1.130	2026.348	.050%	99.839%
88.0	9.998	1.103	2027.451	.049%	99.893%
89.0	9.858	1.088	2028.539	.048%	99.947%
90.0	9.802	1.078	2029.617	.048%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1688.19	74.42%	83.18%
0-40	1948.42	85.89%	96.00%
0-60	1989.96	87.72%	98.05%
0-90	2028.54	89.42%	99.95%
0-120	2028.54	89.42%	99.95%
0-180	2029.62	89.47%	100.00%
60-90	39.95	1.76%	1.97%
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%
0-28.87	1623.69	71.58%	80.00%

ZONAL LUMEN SUMMARY

0-10	255.77
10-20	708.73
20-30	723.69
30-40	260.23
40-50	27.25
50-60	14.28
60-70	13.87
70-80	13.85
80-90	10.87
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

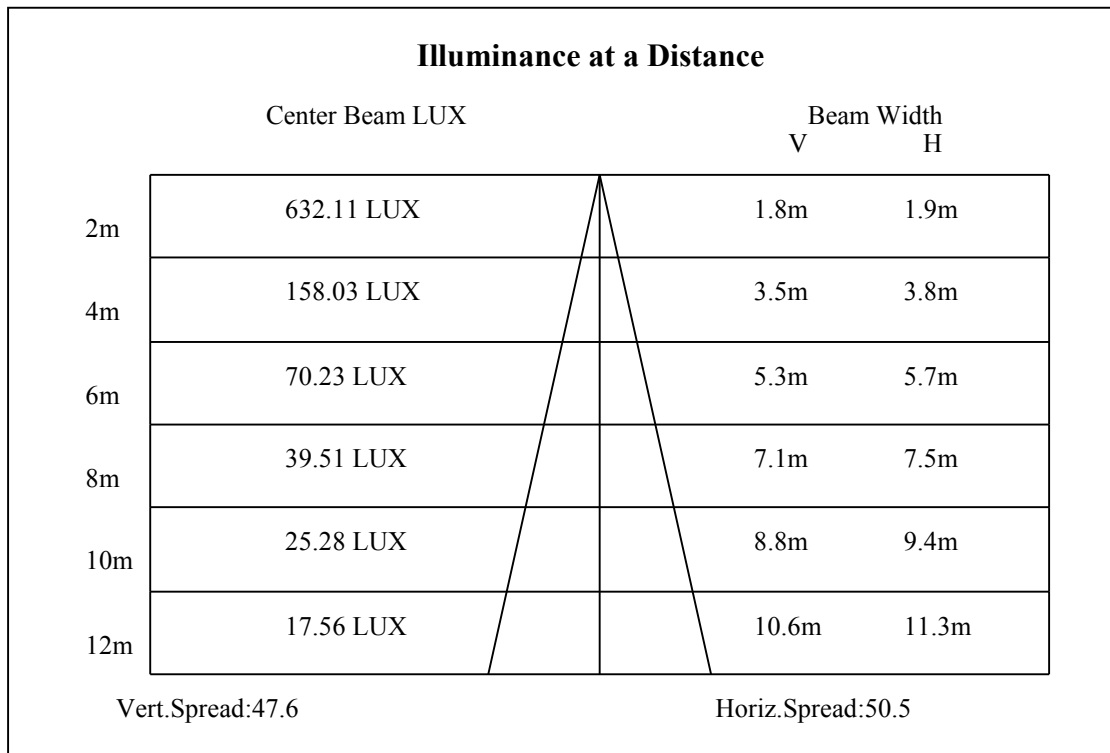
C90(Max): —————C0/C180: —————C90/C270: —————

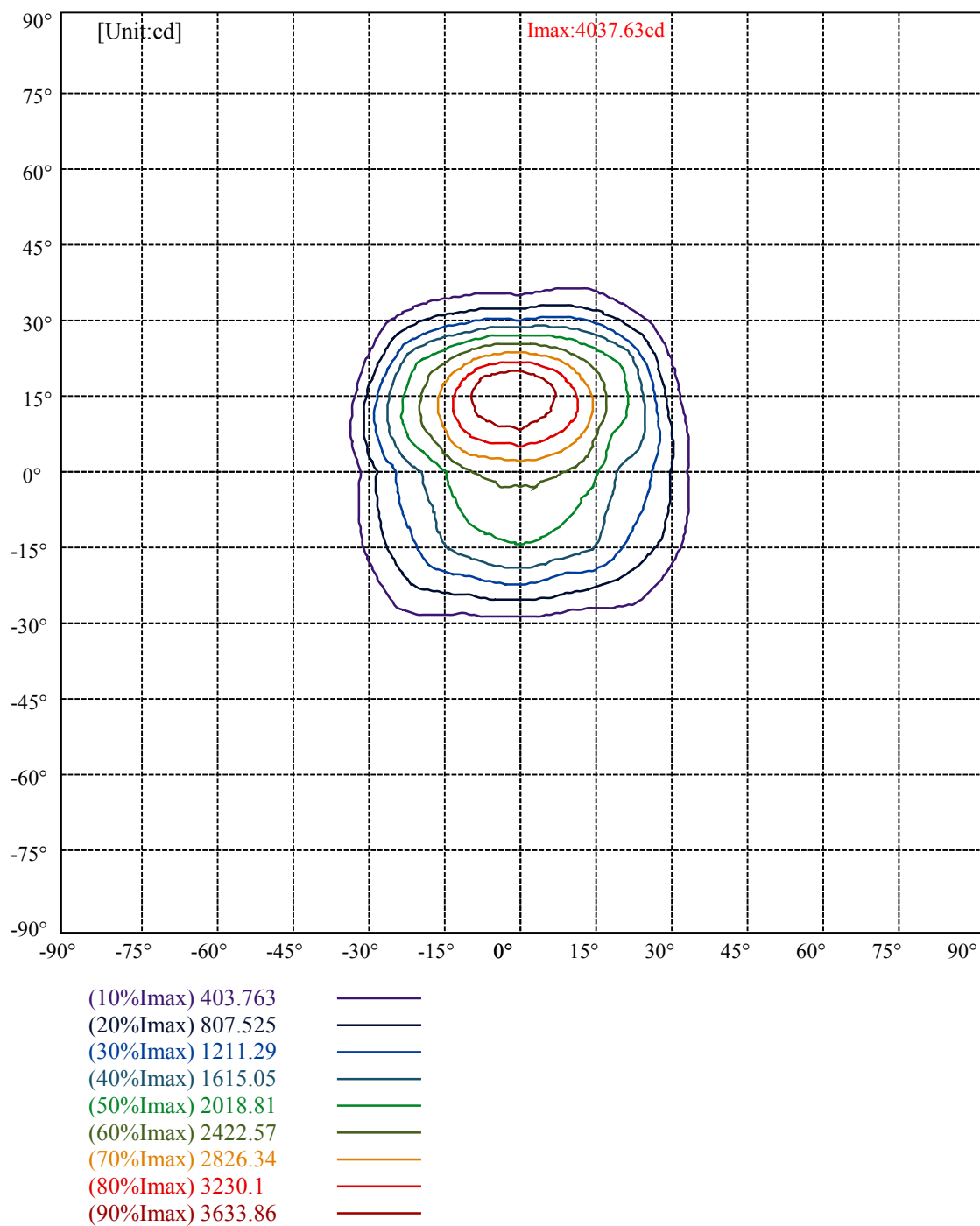
Field angle(10%Imax):C0/180Left:35.5 Right:31.7

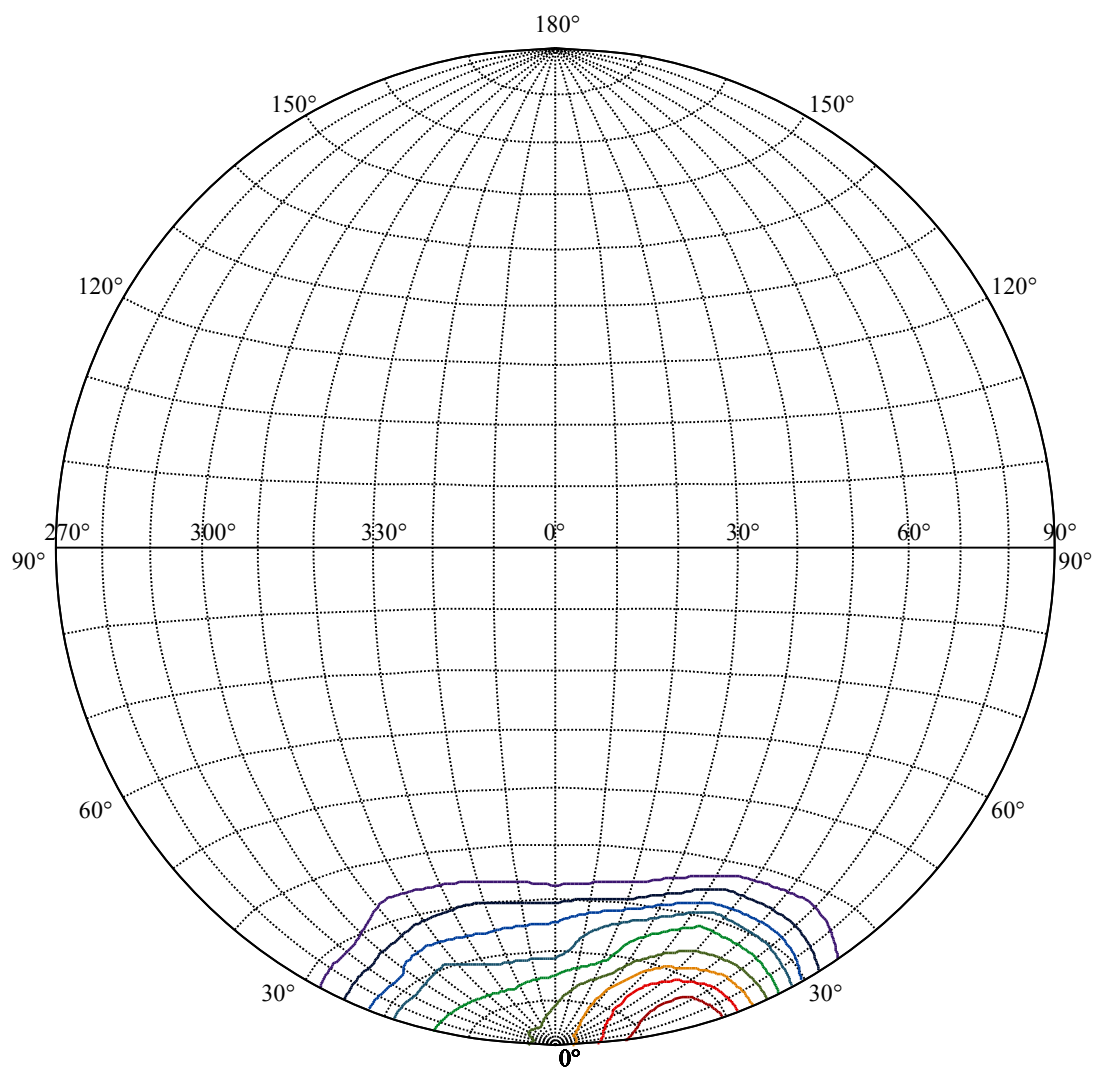
:C90/270Left:43.1 Right:19.5

Beam Angle(50%Imax):C0/180Left:26.9 Right:21.8

:C90/270Left:29.1 Right:11.6







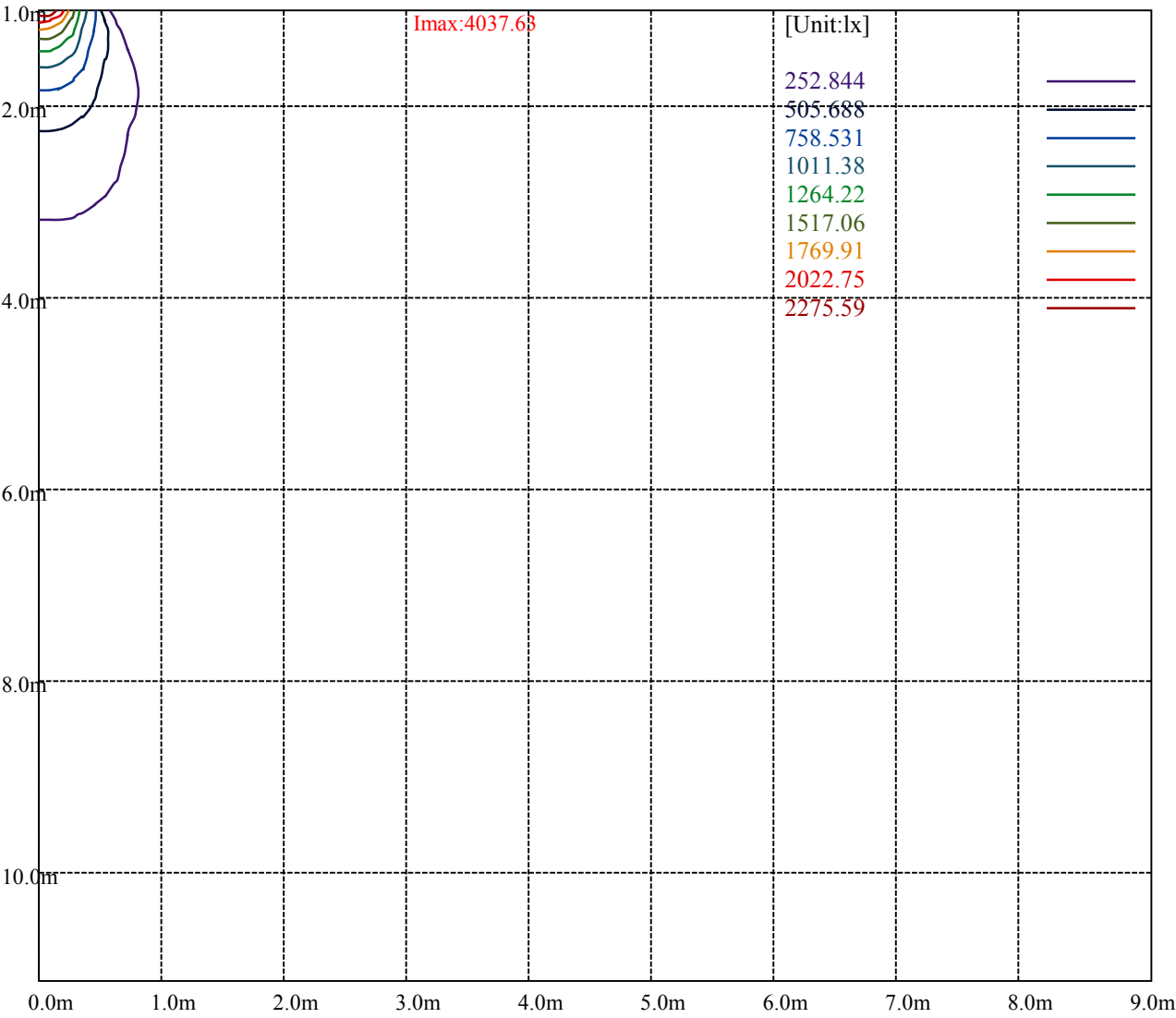
House

[Unit:cd]

Road

Imax:4037.63

(10%Imax)	403.763	—
(20%Imax)	807.525	—
(30%Imax)	1211.29	—
(40%Imax)	1615.05	—
(50%Imax)	2018.81	—
(60%Imax)	2422.57	—
(70%Imax)	2826.34	—
(80%Imax)	3230.1	—
(90%Imax)	3633.86	—



Luminance Table

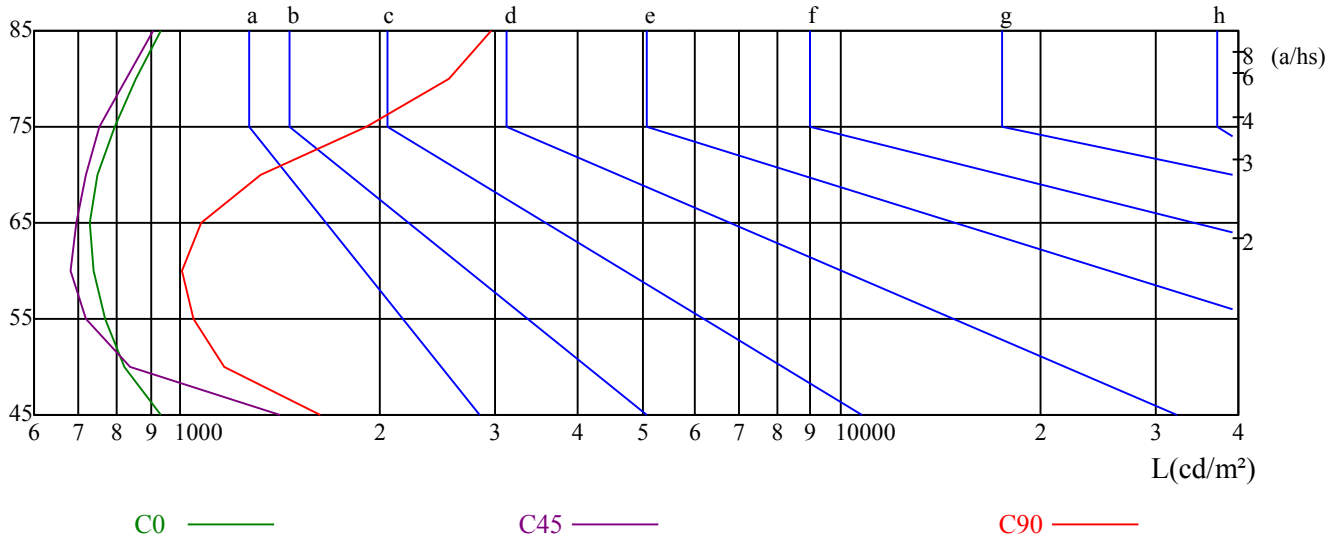
γ	45	50	55	60	65	70	75	80	85
C0	932	823	767	739	731	751	797	854	935
C45	1417	838	721	680	694	717	755	825	908
C90	1624	1163	1045	1005	1076	1322	1910	2549	2963

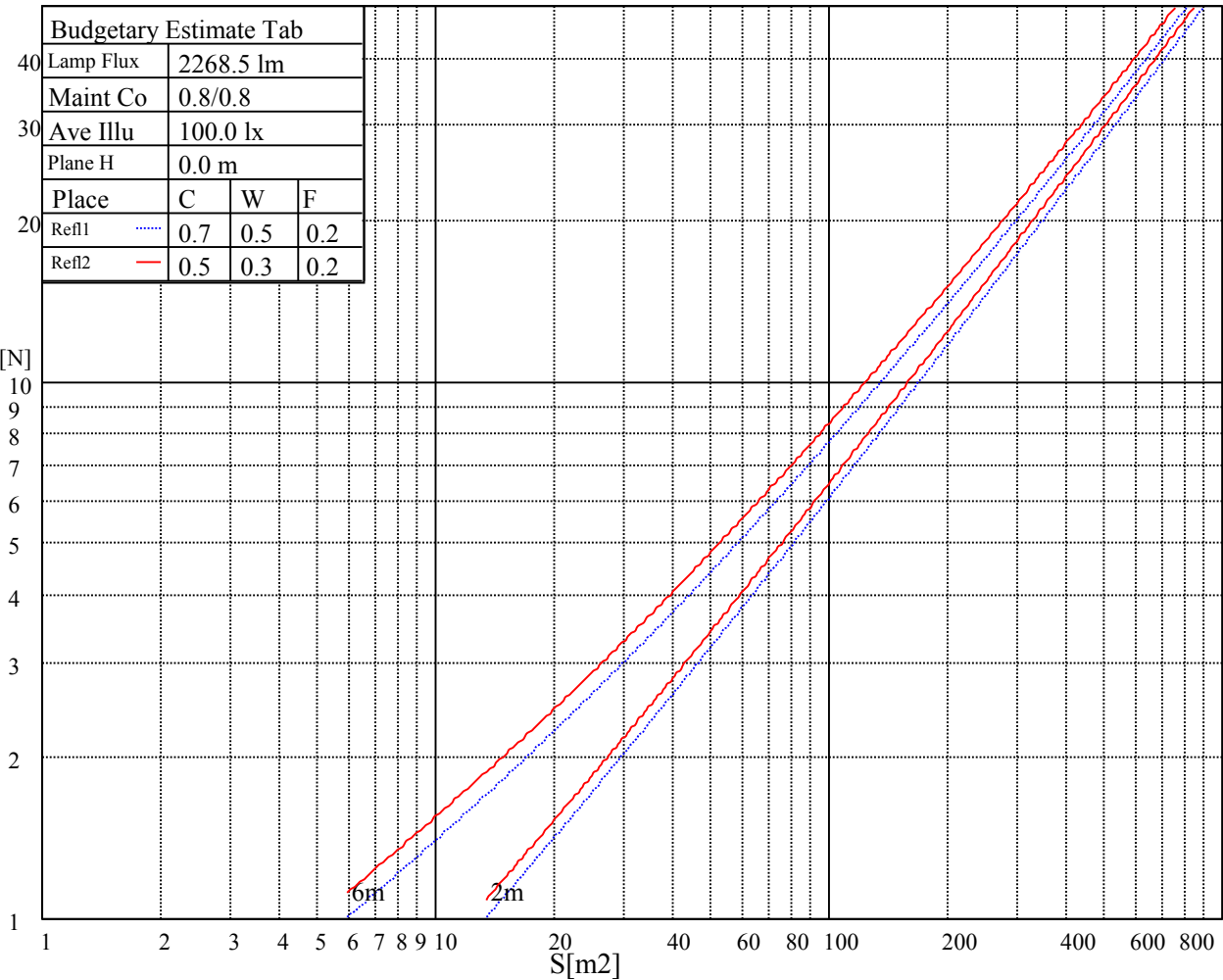
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1668	1053	1222	2394	1817	1883	5687	4139	4774

Glare Table

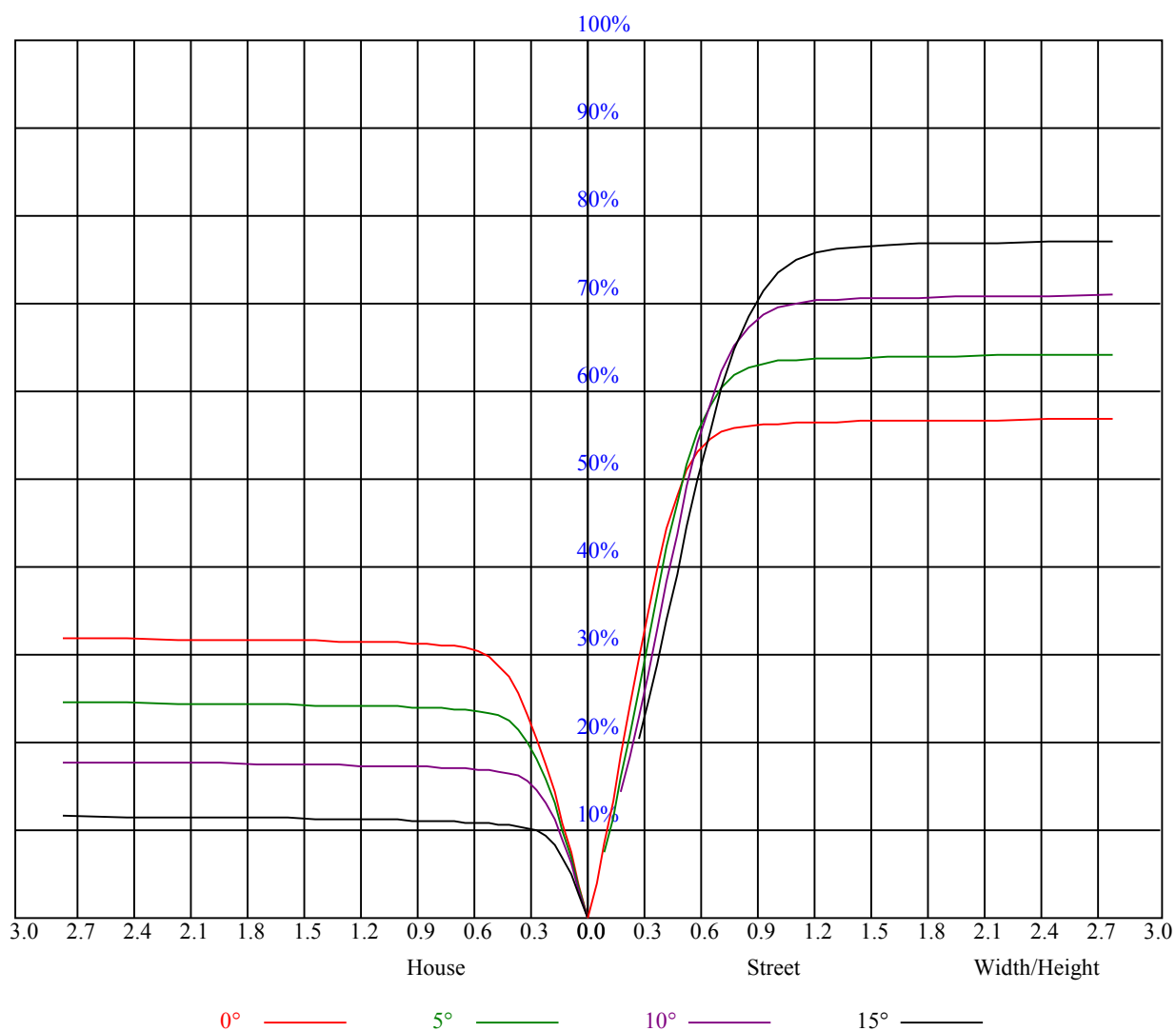
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

 $\gamma(^{\circ})$ 



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	1.07	1.07	1.07	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	0.99	0.97	0.95	0.97	0.95	0.93	0.94	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84
2	0.93	0.89	0.86	0.91	0.88	0.85	0.88	0.86	0.84	0.86	0.84	0.82	0.83	0.82	0.80	0.79
3	0.87	0.83	0.80	0.86	0.82	0.79	0.84	0.80	0.78	0.81	0.79	0.76	0.79	0.77	0.75	0.74
4	0.82	0.77	0.74	0.81	0.77	0.73	0.79	0.75	0.73	0.77	0.74	0.72	0.76	0.73	0.71	0.70
5	0.77	0.73	0.69	0.77	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.72	0.69	0.67	0.66
6	0.73	0.68	0.65	0.73	0.68	0.65	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	0.64	0.61	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	0.57	0.65	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	0.54	0.62	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)										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	2528.44	2518.88	2529.00	2550.38	2544.75	2520.00	2501.44	2472.75	2445.19		
22.5	2550.94	2591.44	2635.31	2661.75	2669.63	2685.94	2708.44	2728.69	2735.44		
45.0	2591.44	2661.19	2749.50	2826.00	2888.44	2958.19	3035.25	3094.31	3148.31		
67.5	2548.13	2642.63	2757.94	2851.88	2994.75	3117.38	3210.19	3342.94	3422.25		
90.0	2611.69	2706.19	2833.88	2976.19	3103.88	3243.94	3364.31	3495.38	3619.69		
112.5	2549.81	2640.94	2752.31	2862.00	2991.38	3120.75	3245.06	3361.50	3467.25		
135.0	2576.81	2649.94	2720.81	2826.00	2928.38	3013.31	3076.31	3156.75	3238.31		
157.5	2532.38	2569.50	2603.81	2653.31	2700.00	2715.75	2757.38	2815.88	2846.81		
180.0	2528.44	2523.38	2535.19	2544.19	2505.94	2508.19	2496.38	2472.19	2458.69		
202.5	2550.94	2527.88	2509.31	2489.63	2477.25	2442.94	2387.25	2370.94	2322.56		
225.0	2591.44	2535.19	2493.56	2454.75	2421.56	2399.06	2370.94	2318.63	2264.63		
247.5	2548.13	2496.94	2455.31	2413.69	2387.25	2352.94	2312.44	2282.63	2250.56		
270.0	2611.69	2535.75	2464.31	2424.38	2390.63	2350.13	2315.25	2283.75	2247.75		
292.5	2549.81	2491.31	2448.56	2413.13	2392.88	2369.81	2337.19	2301.19	2269.13		
315.0	2576.81	2521.13	2479.50	2453.06	2432.81	2399.63	2351.25	2301.19	2261.25		
337.5	2532.38	2508.75	2503.13	2481.75	2445.75	2401.88	2368.13	2327.06	2290.50		
360.0	2528.44	2518.88	2529.00	2550.38	2544.75	2520.00	2501.44	2472.75	2445.19		
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0		
0.0	2413.13	2369.25	2328.75	2265.19	2197.69	2126.81	2024.44	1948.50	1820.81		
22.5	2745.56	2737.13	2711.25	2674.69	2633.63	2562.19	2473.31	2372.63	2233.13		
45.0	3173.63	3219.75	3248.44	3262.50	3267.56	3261.38	3246.19	3225.38	3156.19		
67.5	3479.06	3549.94	3618.00	3661.31	3696.75	3714.19	3705.75	3695.06	3669.19		
90.0	3714.19	3798.00	3877.31	3930.75	3977.44	4022.44	4037.63	4023.00	3976.88		
112.5	3587.63	3687.19	3751.88	3799.13	3846.94	3876.19	3908.81	3924.56	3913.88		
135.0	3305.25	3362.63	3413.81	3462.19	3490.88	3500.44	3476.25	3429.00	3387.38		
157.5	2882.25	2917.13	2937.94	2925.56	2886.75	2828.25	2782.13	2684.81	2593.13		
180.0	2442.94	2390.63	2340.00	2253.94	2154.38	2065.50	1972.13	1863.00	1775.81		
202.5	2288.25	2239.31	2210.06	2165.63	2080.13	2003.63	1937.81	1840.50	1748.81		
225.0	2237.63	2194.31	2146.50	2111.63	2070.00	2030.63	1992.94	1953.00	1878.75		
247.5	2215.69	2164.50	2112.75	2064.94	2040.19	2006.44	1949.06	1884.94	1805.06		
270.0	2211.75	2176.88	2139.75	2106.56	2066.06	2022.75	1976.06	1909.13	1818.00		
292.5	2223.56	2172.94	2128.50	2082.38	2040.19	1990.13	1933.88	1868.63	1781.44		
315.0	2213.44	2166.19	2122.31	2073.38	2021.63	1978.88	1938.38	1900.13	1859.63		
337.5	2247.19	2196.56	2144.25	2092.50	2025.00	1978.31	1907.44	1833.75	1752.75		
360.0	2413.13	2369.25	2328.75	2265.19	2197.69	2126.81	2024.44	1948.50	1820.81		
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0		
0.0	1686.38	1591.88	1513.13	1470.38	1431.00	1395.56	1326.38	1263.94	1180.69		
22.5	2117.25	2048.06	2007.00	1973.81	1958.63	1930.50	1877.63	1801.13	1692.56		
45.0	3090.38	2998.69	2849.06	2688.19	2568.38	2454.75	2381.06	2332.13	2261.25		
67.5	3603.38	3479.63	3327.75	3189.38	3016.13	2826.56	2658.94	2450.25	2284.88		
90.0	3890.81	3759.75	3564.00	3341.81	3121.31	2882.25	2681.44	2440.69	2168.44		
112.5	3870.56	3771.00	3611.81	3432.38	3209.63	2976.75	2773.69	2553.75	2371.50		
135.0	3309.19	3207.38	3124.13	2984.63	2849.63	2750.06	2640.38	2489.06	2398.50		
157.5	2521.69	2462.63	2418.75	2374.88	2310.75	2239.31	2155.50	2044.13	1946.81		
180.0	1716.75	1641.94	1571.63	1501.88	1437.75	1360.13	1265.06	1109.93	1067.23		
202.5	1657.13	1574.44	1525.50	1459.13	1391.06	1319.63	1249.88	1118.98	1090.18		
225.0	1804.50	1744.31	1652.06	1575.00	1498.50	1397.81	1312.31	1250.44	1168.88		
247.5	1710.00	1617.19	1518.75	1397.25	1291.50	1109.25	1068.30	924.47	800.55		
270.0	1715.63	1604.25	1463.63	1343.25	1213.31	1062.00	934.31	804.38	670.50		
292.5	1666.13	1558.69	1449.00	1321.31	1116.68	1089.79	983.48	842.91	736.88		
315.0	1801.69	1745.44	1670.06	1577.25	1488.94	1396.13	1274.06	1155.94	1047.94		
337.5	1656.56	1547.44	1460.81	1370.25	1326.38	1289.25	1235.25	1191.38	1118.03		
360.0	1686.38	1591.88	1513.13	1470.38	1431.00	1395.56	1326.38	1263.94	1180.69		

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	1078.31	967.50	856.13	731.25	586.13	482.06	371.25	295.31	241.54
22.5	1560.38	1382.06	1216.69	1040.06	817.88	677.25	515.25	407.81	291.94
45.0	2178.56	2072.25	1965.38	1841.63	1668.38	1431.56	1117.58	1053.90	859.56
67.5	2118.38	1954.13	1772.44	1604.25	1368.00	1198.13	1033.88	830.81	702.56
90.0	1934.44	1711.13	1425.38	1105.31	1001.14	784.63	608.51	470.70	344.31
112.5	2130.75	1857.94	1644.19	1451.25	1184.63	1010.25	839.81	678.38	545.06
135.0	2296.69	2153.25	2027.25	1884.38	1730.25	1510.31	1245.38	1116.73	910.86
157.5	1828.13	1681.31	1548.56	1412.44	1192.50	1022.63	840.38	633.94	439.31
180.0	961.26	826.59	684.79	560.93	436.95	299.93	209.59	145.35	88.37
202.5	1013.79	930.60	841.73	757.80	670.33	559.13	466.09	372.99	257.91
225.0	1090.13	1004.06	916.31	830.25	734.06	646.88	577.69	509.63	421.88
247.5	683.78	554.68	453.32	368.21	290.76	223.14	178.76	140.29	109.13
270.0	535.50	419.63	309.38	288.00	182.98	146.19	110.76	89.04	80.16
292.5	610.43	491.68	380.53	286.82	214.59	164.81	130.39	102.09	87.30
315.0	915.19	824.63	752.06	667.13	587.25	532.13	466.31	395.44	337.50
337.5	1076.01	987.98	914.29	833.34	739.41	642.43	540.11	434.76	333.45
360.0	1078.31	967.50	856.13	731.25	586.13	482.06	371.25	295.31	241.54
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	148.61	97.03	62.72	43.93	38.81	34.71	28.69	26.33	25.37
22.5	171.56	110.93	71.33	49.22	39.71	35.04	29.25	26.10	24.86
45.0	665.72	516.09	396.28	275.06	208.91	159.86	110.25	71.21	46.41
67.5	595.69	485.44	384.19	286.31	206.89	151.54	111.04	86.29	68.51
90.0	261.34	201.88	146.31	113.51	86.18	72.96	63.00	53.38	34.76
112.5	426.94	320.63	291.38	176.12	128.76	101.70	80.72	69.98	58.11
135.0	726.53	581.51	439.48	328.50	243.68	162.23	112.39	73.86	50.06
157.5	297.00	178.43	114.24	78.98	57.38	45.34	39.21	34.20	31.05
180.0	64.97	49.05	41.63	36.51	32.68	29.42	28.13	27.06	26.38
202.5	184.61	123.36	76.05	51.53	39.15	33.58	27.62	23.29	21.32
225.0	361.13	302.06	286.31	172.58	124.71	82.69	52.09	35.27	25.71
247.5	86.74	76.95	69.02	59.40	47.31	40.22	32.34	24.47	20.42
270.0	66.38	53.16	44.49	39.04	32.96	27.96	23.91	20.70	18.45
292.5	77.96	64.41	51.64	42.53	35.61	30.04	25.09	20.19	17.16
315.0	286.31	205.26	146.31	98.72	65.25	42.41	29.53	24.36	19.69
337.5	263.14	193.61	144.84	95.74	57.54	41.63	33.41	29.53	26.21
360.0	148.61	97.03	62.72	43.93	38.81	34.71	28.69	26.33	25.37
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	24.41	23.51	22.67	21.77	21.32	20.76	20.36	19.91	19.29
22.5	23.68	22.50	21.60	20.59	19.86	19.13	18.62	18.00	17.27
45.0	34.43	29.81	25.93	22.28	20.42	19.41	18.51	17.72	17.04
67.5	56.19	45.51	36.28	28.07	23.12	20.93	19.35	18.06	17.10
90.0	30.49	27.34	25.31	23.12	21.54	19.97	18.84	18.06	17.27
112.5	48.04	31.33	27.06	24.64	22.89	20.87	19.41	18.39	17.27
135.0	38.03	32.51	29.03	26.27	23.91	22.33	20.87	19.01	17.44
157.5	29.59	27.96	26.83	25.76	24.81	23.74	23.12	22.44	21.83
180.0	25.54	24.81	24.02	23.68	23.34	22.50	22.11	21.60	21.21
202.5	20.03	19.18	18.51	18.00	17.55	17.04	16.65	16.31	15.98
225.0	21.71	18.73	16.88	16.26	15.75	15.30	15.08	14.74	14.57
247.5	17.94	16.59	15.86	15.36	14.91	14.57	14.29	14.01	13.78
270.0	16.31	15.41	14.79	14.18	13.73	13.44	13.11	12.83	12.54
292.5	15.19	13.89	13.28	12.94	12.60	12.32	12.15	11.93	11.76
315.0	16.76	15.98	15.19	14.63	14.40	14.18	13.44	12.99	12.99
337.5	22.78	21.77	21.21	20.70	20.25	19.69	19.35	18.96	18.62
360.0	24.41	23.51	22.67	21.77	21.32	20.76	20.36	19.91	19.29

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	18.79	18.45	18.06	17.55	17.27	16.99	16.76	16.48	16.14		
22.5	16.71	16.14	15.75	15.30	14.74	14.46	14.23	13.89	13.78		
45.0	16.31	15.75	15.30	14.79	14.51	14.18	13.84	13.61	13.44		
67.5	16.31	15.69	15.08	14.63	14.18	13.84	13.44	13.22	12.94		
90.0	16.54	16.14	16.03	15.19	14.57	14.29	13.67	13.28	12.99		
112.5	16.54	15.92	15.36	14.96	14.79	14.29	14.06	13.73	13.39		
135.0	16.43	15.98	15.30	14.79	14.12	13.84	13.56	13.33	13.11		
157.5	21.32	20.93	20.48	20.08	19.80	19.58	19.41	19.24	19.18		
180.0	21.04	20.87	20.64	20.59	20.70	20.70	20.76	20.76	20.98		
202.5	15.64	15.41	15.19	15.13	15.08	15.19	15.24	15.47	15.75		
225.0	14.29	14.12	13.89	13.50	13.39	13.22	13.16	13.39	13.28		
247.5	13.44	12.94	12.49	12.21	11.87	11.70	11.53	11.42	11.25		
270.0	12.26	12.04	11.81	11.64	11.48	11.31	11.14	10.97	10.80		
292.5	11.53	11.31	11.14	11.03	10.80	10.69	10.52	10.41	10.29		
315.0	12.71	12.21	11.59	11.42	11.48	11.03	11.64	14.18	13.95		
337.5	18.34	18.00	17.72	17.44	17.16	16.99	16.71	16.37	16.09		
360.0	18.79	18.45	18.06	17.55	17.27	16.99	16.76	16.48	16.14		
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	15.86	15.64	15.47	15.24	15.13	14.96	14.68	14.63	14.57		
22.5	13.61	13.56	13.50	13.28	13.16	12.99	12.83	12.71	12.54		
45.0	13.28	13.16	12.99	12.77	12.54	12.38	12.26	12.15	11.98		
67.5	12.71	12.49	12.38	12.15	12.04	11.87	11.76	11.70	11.64		
90.0	12.83	12.60	12.54	12.54	12.49	12.38	12.49	12.71	13.22		
112.5	13.28	13.28	13.50	13.44	14.01	14.51	14.06	13.89	14.29		
135.0	12.94	12.88	12.71	12.60	12.43	12.43	12.32	12.15	12.04		
157.5	19.07	18.90	18.90	18.90	19.01	19.07	19.01	18.84	18.45		
180.0	20.87	20.81	20.70	20.59	20.48	19.74	19.01	18.62	18.51		
202.5	16.03	16.20	16.37	16.59	16.71	16.76	16.76	16.59	16.09		
225.0	13.22	13.11	13.22	13.28	13.22	13.33	13.44	13.56	13.56		
247.5	11.19	11.14	11.19	11.14	11.08	11.08	10.91	10.69	10.69		
270.0	10.58	10.46	10.29	10.18	10.13	10.07	10.07	10.01	9.96		
292.5	10.18	10.07	10.01	9.90	9.84	9.84	9.79	9.79	9.79		
315.0	14.85	14.79	14.06	14.46	14.46	14.46	14.23	14.18	14.18		
337.5	15.86	15.58	15.36	15.08	14.85	14.57	14.40	14.23	14.12		
360.0	15.86	15.64	15.47	15.24	15.13	14.96	14.68	14.63	14.57		
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	14.51	14.51	14.29	14.06	13.73	13.61	13.56	13.61	13.39		
22.5	12.43	12.15	12.04	11.81	11.76	11.59	11.64	11.48	11.42		
45.0	11.76	11.64	11.53	11.36	11.31	11.14	10.97	10.86	10.74		
67.5	11.53	11.48	11.36	11.25	11.14	11.14	11.08	11.19	11.19		
90.0	14.12	14.51	14.46	14.34	13.84	14.06	13.84	13.95	13.61		
112.5	14.06	14.18	14.63	15.19	15.24	14.57	13.95	13.61	13.28		
135.0	12.04	12.04	11.98	11.87	11.64	11.19	10.97	10.74	10.69		
157.5	18.23	18.00	17.61	17.49	17.33	16.88	16.54	16.20	15.58		
180.0	18.56	18.68	18.39	17.72	17.21	17.38	17.04	16.48	16.59		
202.5	15.69	15.58	15.58	15.53	15.53	15.24	14.74	14.63	14.51		
225.0	13.67	13.84	13.61	13.61	13.56	13.39	12.99	12.83	12.66		
247.5	10.69	10.63	10.63	10.69	10.58	10.35	10.29	10.24	10.24		
270.0	9.90	9.90	9.84	9.79	9.73	9.68	9.68	9.62	9.51		
292.5	9.73	9.68	9.62	9.62	9.62	9.62	9.56	9.56	9.56		
315.0	13.84	13.84	13.33	13.16	13.05	12.94	13.05	12.88	12.77		
337.5	13.95	13.78	13.67	13.56	13.44	13.33	13.22	13.11	13.05		
360.0	14.51	14.51	14.29	14.06	13.73	13.61	13.56	13.61	13.39		

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Intensity data(cd)									Appendix Page: 19 Total:19		
C/ $\gamma(^{\circ})$	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	13.39	13.28	13.11	12.94	12.71	12.38	11.98	11.87	11.70		
22.5	11.25	11.08	10.91	10.69	10.29	10.07	9.90	9.56	9.45		
45.0	10.69	10.58	10.46	10.46	9.90	9.73	9.62	9.45	9.34		
67.5	11.03	10.80	10.58	10.46	9.68	9.51	9.28	9.23	9.11		
90.0	13.78	12.21	11.48	10.80	9.28	9.06	8.89	8.78	8.72		
112.5	13.16	12.99	11.93	10.86	9.62	9.17	8.89	8.78	8.61		
135.0	10.58	10.52	10.52	10.52	9.17	9.00	8.72	8.61	8.55		
157.5	15.19	14.57	13.56	13.39	13.16	11.81	11.59	11.42	11.31		
180.0	16.03	15.30	13.33	13.11	12.71	11.70	11.36	11.08	11.08		
202.5	13.95	13.89	13.16	12.15	11.42	11.31	9.84	9.79	9.56		
225.0	12.32	11.98	11.59	11.25	11.19	11.19	9.90	9.73	9.56		
247.5	10.18	10.13	10.07	10.01	10.01	9.96	9.39	9.28	9.17		
270.0	9.45	9.45	9.39	9.34	9.23	9.11	9.00	8.89	8.89		
292.5	9.51	9.56	9.56	9.56	9.56	9.51	9.45	9.39	8.89		
315.0	12.71	12.60	12.54	12.43	12.43	12.43	12.21	12.09	12.04		
337.5	12.94	12.88	12.77	12.66	12.54	12.26	12.15	12.04	11.76		
360.0	13.39	13.28	13.11	12.94	12.71	12.38	11.98	11.87	11.70		
C/ $\gamma(^{\circ})$	90.0										
0.0	11.48										
22.5	9.45										
45.0	9.39										
67.5	9.11										
90.0	8.78										
112.5	8.61										
135.0	8.55										
157.5	11.31										
180.0	11.03										
202.5	9.51										
225.0	9.45										
247.5	9.11										
270.0	8.78										
292.5	8.66										
315.0	11.93										
337.5	11.70										
360.0	11.48										