

Report No.:

Test Time: 2024/10/16 15:21:46

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP156CT085H69-24°-10W
Lamp Type:
Luminous Width: 67 mm
Luminous Length: 67 mm
Luminous Height: 63 mm

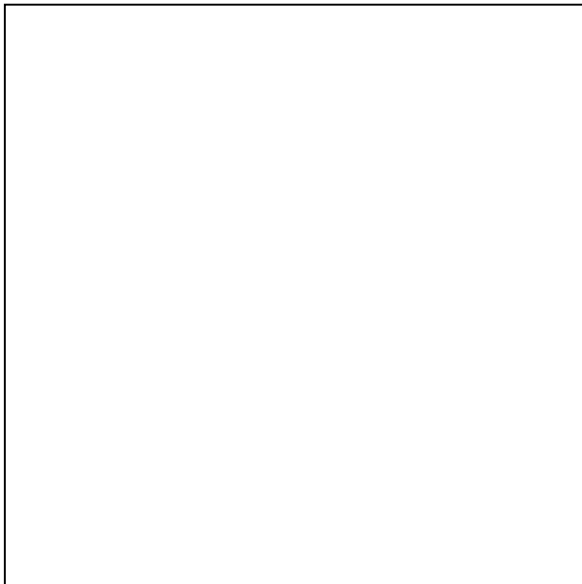
Voltage(V): 219.90 V
Current(A): 0.0530 A
Power(W): 10.77 W
Power Factor: 0.9170
Lamp Luminous Flux: 1147.06

Photometric Results

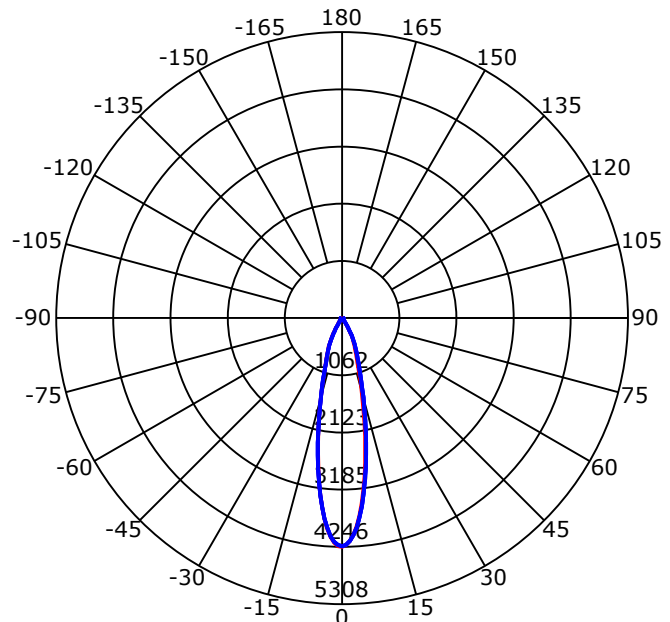
CIE Class: Direct
Luminaire Luminous Flux: 1147.057 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 106.50 lm/W
Beam Angle(50%) C0-180,C90-270: 23.4,24.0
Field Angle(10%) C0-180,C90-270: 55.0,55.2
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 4246.29 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4246.29 cd
Effective Luminous Flux: 945.21 lm
ERP(ϕ use)(120deg): 1118.80 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 23.4 deg,24.0 deg

C0-180 — C90-270 —

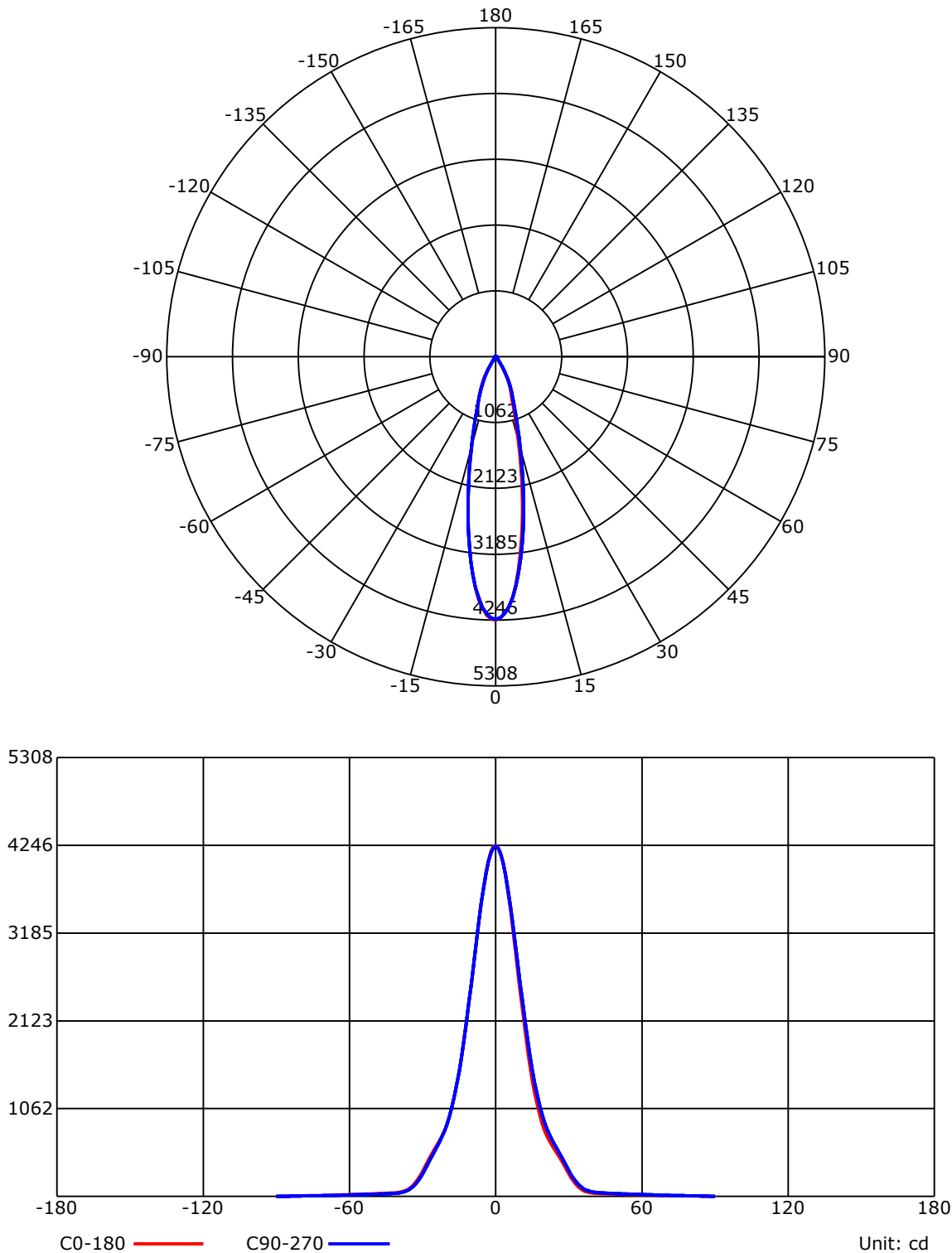
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/16 15:21:46

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



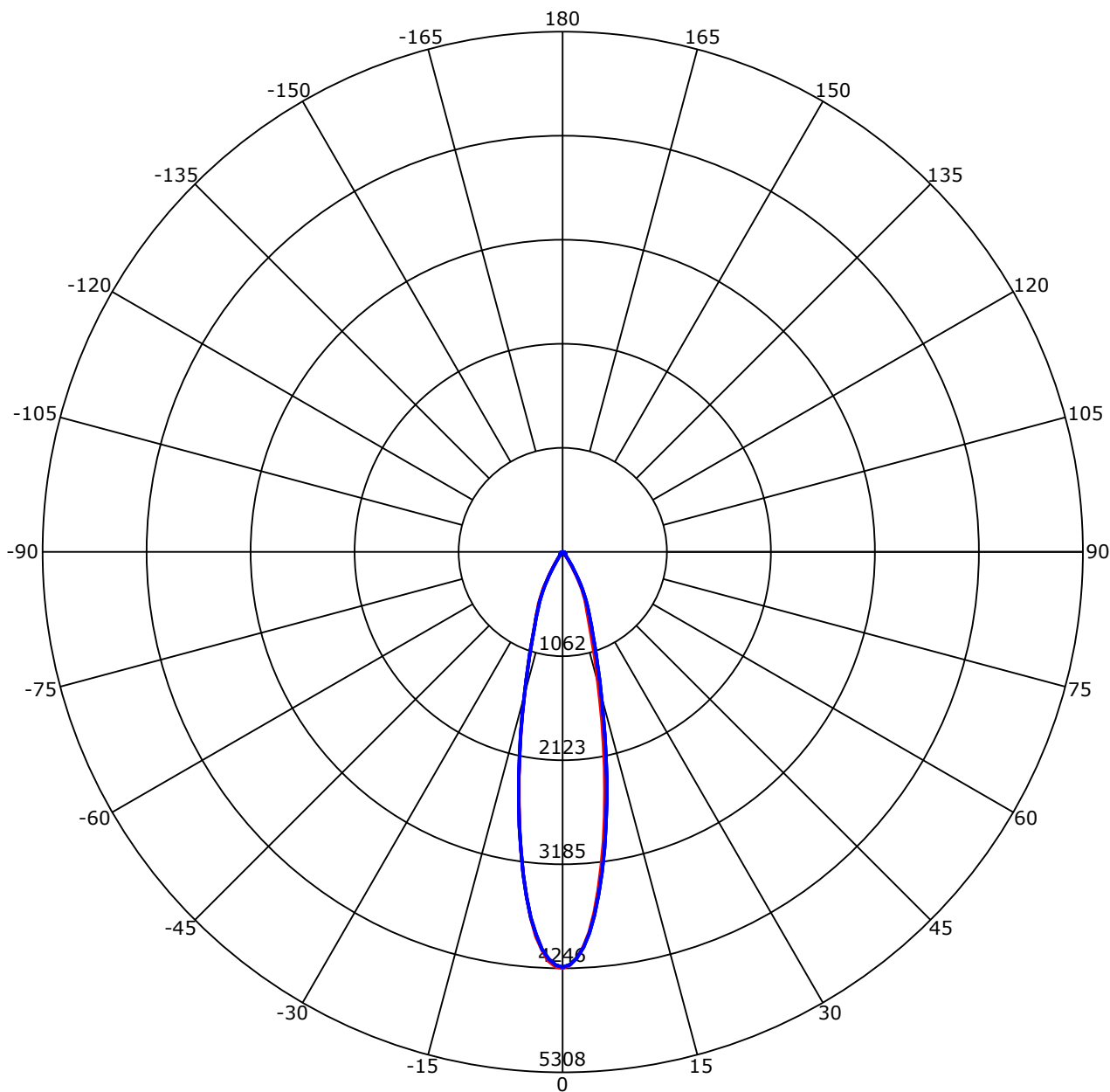
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Luminous Intensity Distribution Curve



C0-180 — C90-270 —

Unit: cd/klm

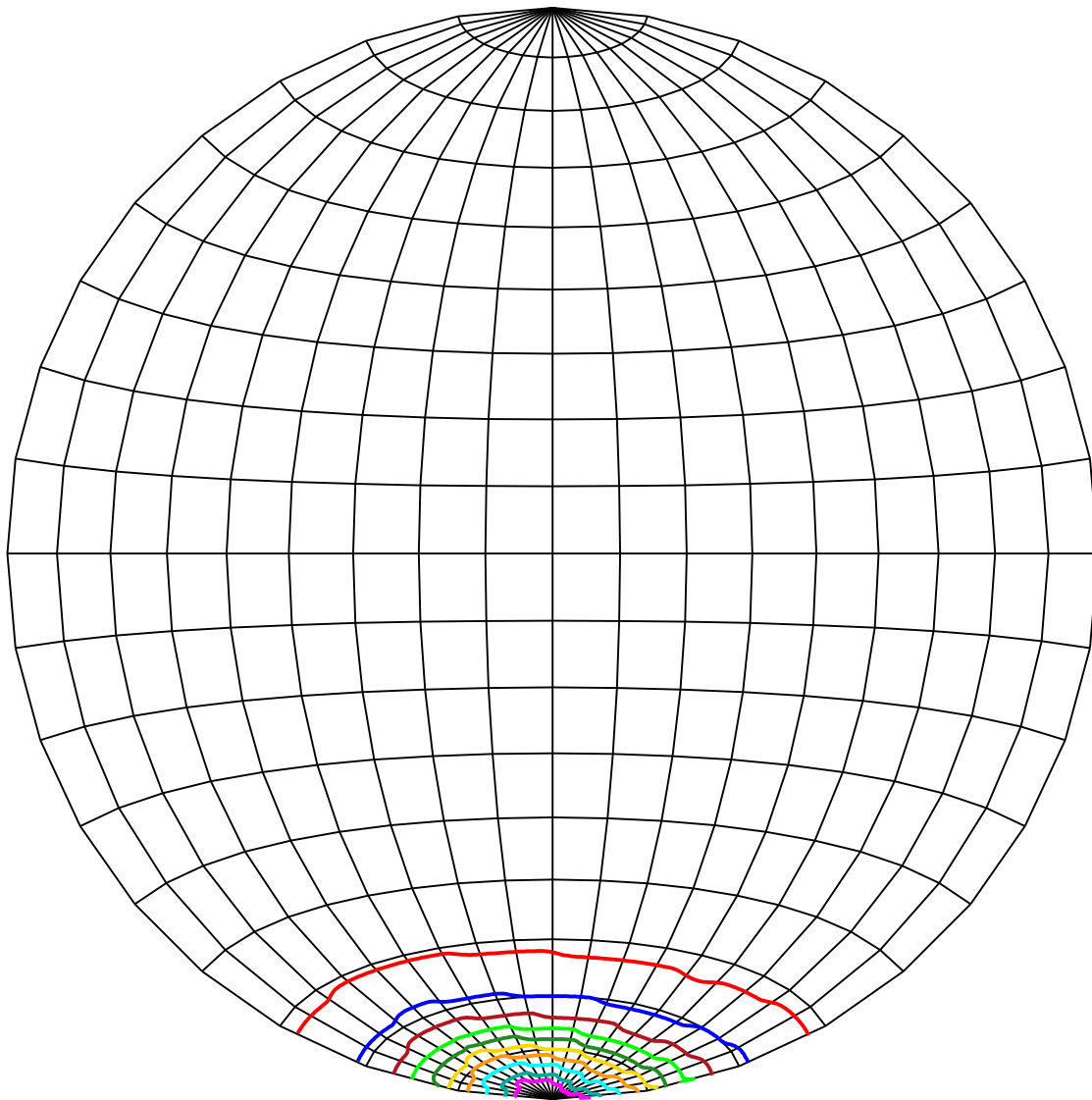
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 4246.288 cd

4033.974(95%Imax)	2123.144(50%Imax)
3821.659(90%Imax)	1698.515(40%Imax)
3397.031(80%Imax)	1273.886(30%Imax)
2972.402(70%Imax)	849.258(20%Imax)
2547.773(60%Imax)	424.629(10%Imax)

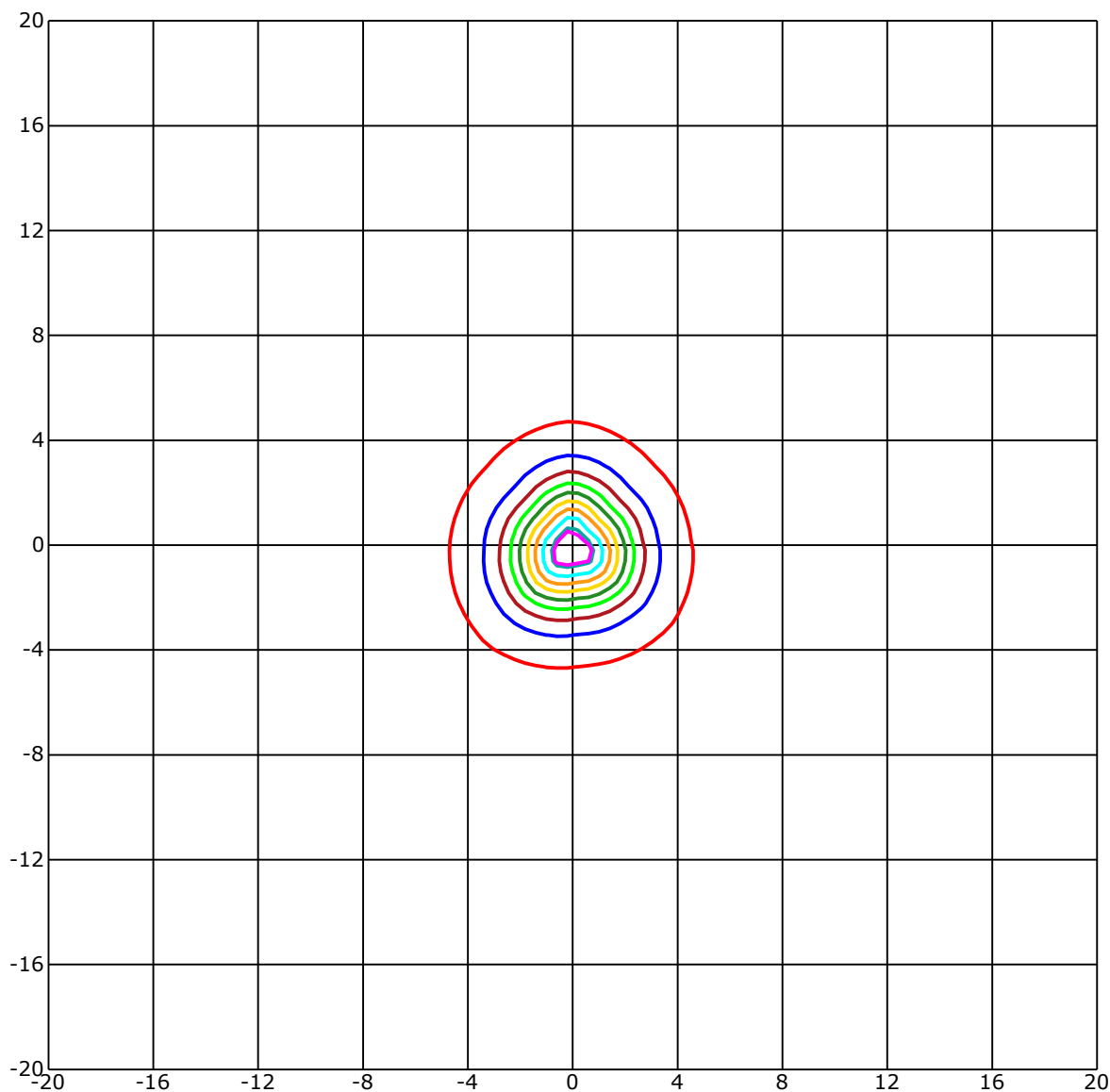
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ISOLX DIAGRAM



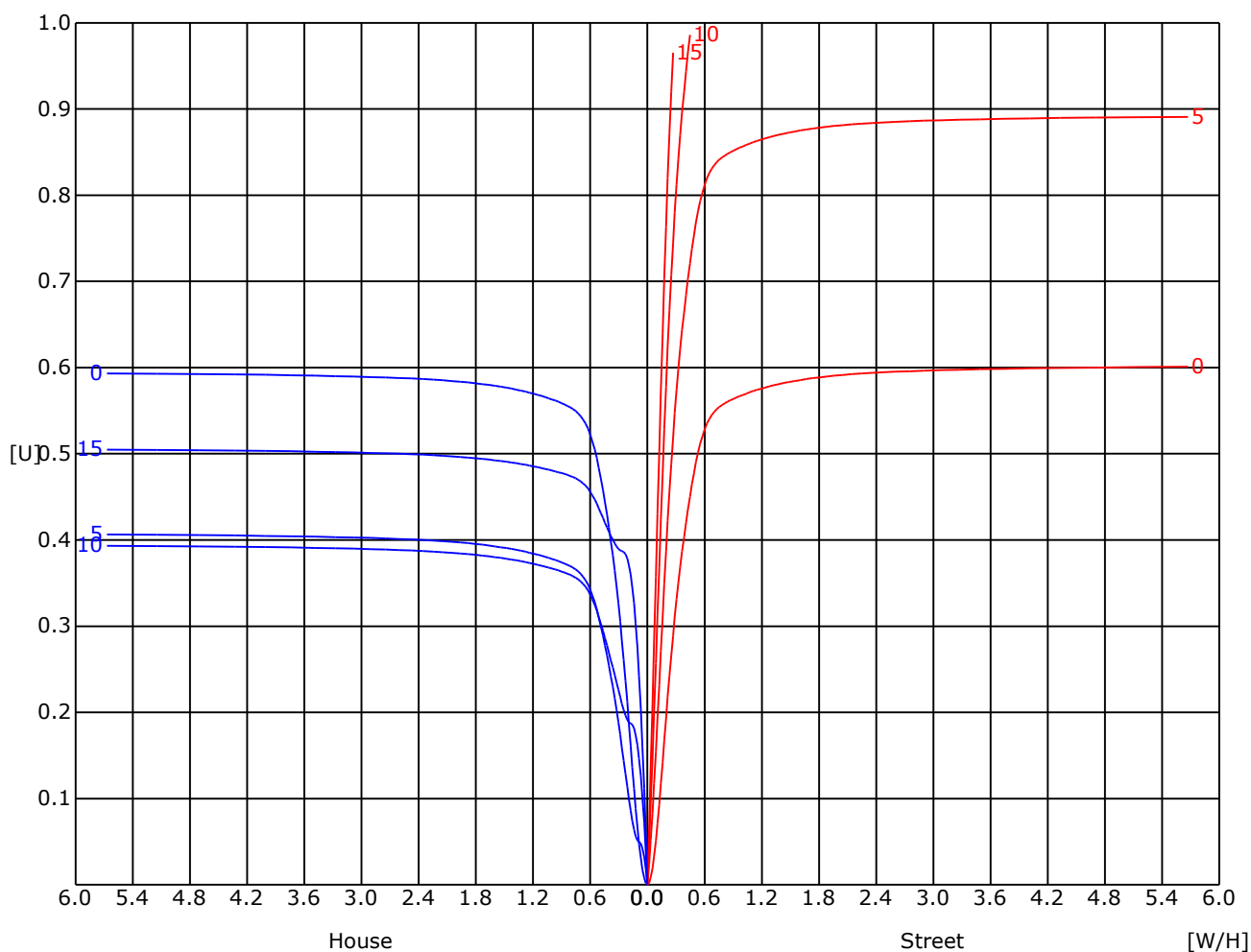
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UTILIZATION FACTOR DIAGRAM (ROAD)



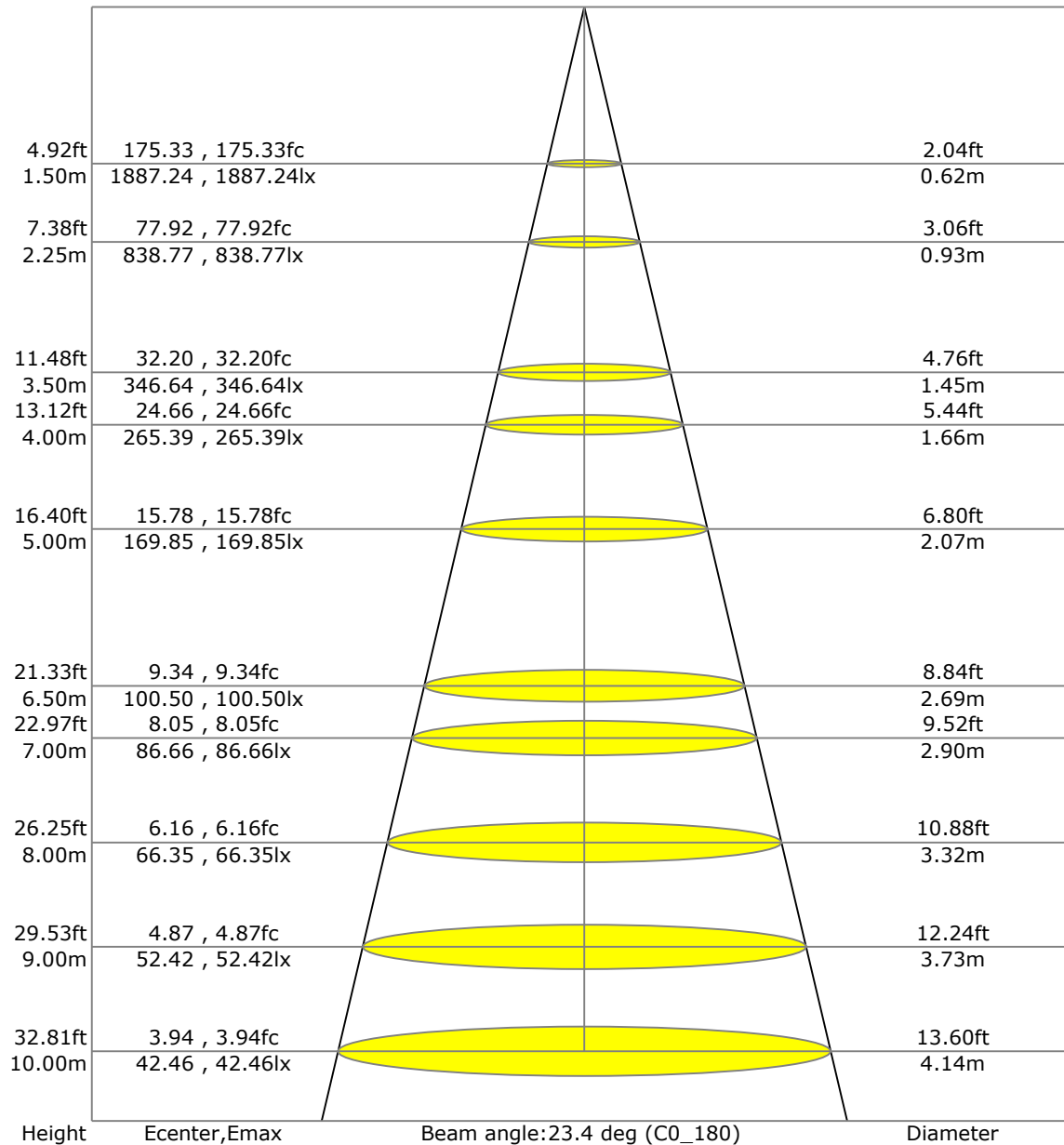
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

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G Interval: 1.0 Deg

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UGR(Unified Glare Rating) TABLE

RHOCC		70	70	50	50	30	70	70	50	50	30
RHOW		50	30	50	30	30	50	30	50	30	30
RHOF		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewed Endwise					Viewed Crosswise				
2H	2H	8.94	8.99	9.14	9.18	9.42	9.26	9.32	9.46	9.51	9.75
	3H	9.04	9.10	9.24	9.29	9.54	9.33	9.39	9.53	9.58	9.83
	4H	9.06	9.12	9.27	9.31	9.56	9.34	9.40	9.55	9.59	9.84
	6H	9.05	9.11	9.27	9.32	9.57	9.33	9.39	9.54	9.59	9.84
	8H	9.04	9.11	9.26	9.31	9.56	9.32	9.38	9.54	9.58	9.84
	12H	9.04	9.10	9.26	9.30	9.56	9.31	9.37	9.53	9.58	9.83
4H	2H	10.36	10.42	10.57	10.62	10.87	10.99	11.05	11.20	11.25	11.50
	3H	10.62	10.68	10.85	10.89	11.15	11.21	11.27	11.43	11.48	11.73
	4H	10.70	10.76	10.93	10.98	11.24	11.27	11.33	11.50	11.54	11.80
	6H	10.74	10.80	10.98	11.02	11.28	11.28	11.34	11.52	11.56	11.83
	8H	10.74	10.80	10.98	11.03	11.29	11.28	11.34	11.52	11.56	11.83
	12H	10.73	10.79	10.98	11.02	11.29	11.27	11.33	11.52	11.56	11.83
8H	4H	10.90	10.96	11.12	11.16	11.41	11.73	11.79	11.95	12.00	12.25
	6H	11.53	11.59	11.79	11.83	12.10	12.31	12.37	12.57	12.61	12.88
	8H	11.55	11.61	11.82	11.85	12.13	12.32	12.37	12.58	12.62	12.90
	12H	11.56	11.61	11.83	11.86	12.15	12.31	12.36	12.58	12.62	12.90
12H	4H	11.59	11.65	11.84	11.88	12.15	12.55	12.60	12.80	12.84	13.11
	6H	11.71	11.76	11.97	12.01	12.29	12.66	12.71	12.92	12.96	13.23

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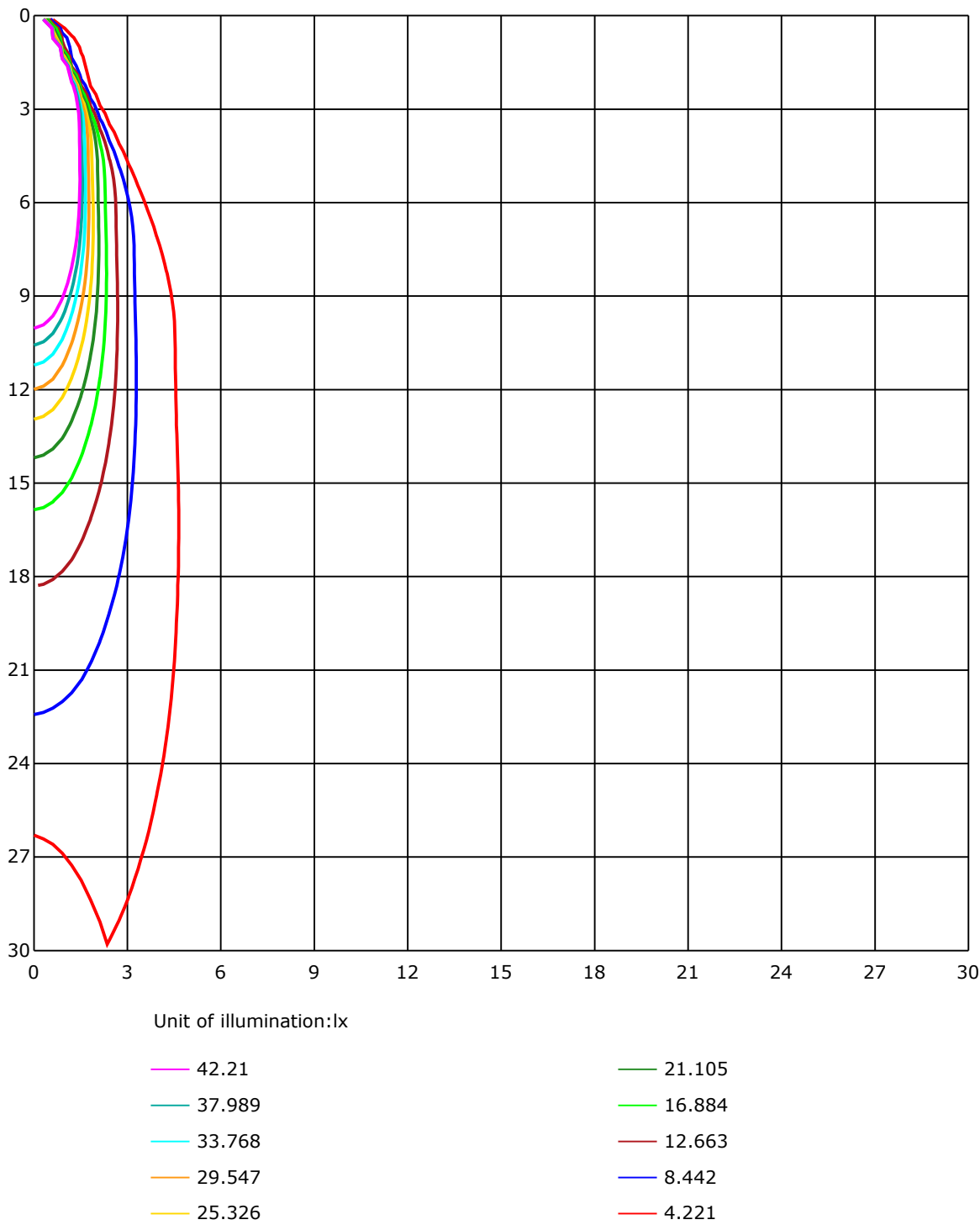
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SPACE ISOLX DIAGRAM



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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4246.29	4159.33	4235.34	4210.07	4246.29	4159.33	4235.34	4210.07	4246.29	
G1	4214.2	4055.31	4211.04	4129.51	4232.7	4210.49	4213.78	4243.04	4214.2	
G2	4143.33	3925.41	4141.9	4003.93	4173.99	4230.43	4151.64	4229.18	4143.33	
G3	4030.87	3747.24	4037.23	3849.26	4066.35	4202.28	4054.76	4184.84	4030.87	
G4	3883.44	3544.76	3896.1	3657.78	3930.89	4132.99	3907.98	4074.88	3883.44	
G5	3686.2	3326.6	3718.39	3447.18	3748.91	4020.81	3739.95	3940.72	3686.2	
G6	3465.92	3090.92	3508.91	3207.46	3534.97	3877.55	3536.36	3769.08	3465.92	
G7	3224.35	2847.86	3291.08	2968.91	3305.6	3686.16	3312.97	3579.45	3224.35	
G8	2982.03	2605.97	3057.39	2713.42	3071.58	3479.6	3068.15	3341.31	2982.03	
G9	2727.29	2369.63	2823.56	2474.26	2824.95	3254.17	2828.8	3105.21	2727.29	
G10	2480.66	2139.05	2581.71	2228.88	2576.1	3024.88	2585.14	2854.87	2480.66	
G11	2236.35	1924.61	2349.83	2004.05	2335.55	2779.46	2352.8	2611.95	2236.35	
G12	2003.03	1721.62	2122.54	1789.75	2108.07	2539.79	2116.61	2362.91	2003.03	
G13	1780.29	1534.63	1912.04	1591.67	1890.48	2308.32	1902.3	2129.64	1780.29	
G14	1578.92	1369.49	1709.93	1417.3	1689.2	2085.21	1698.85	1906.43	1578.92	
G15	1400.0	1220.48	1531.39	1265.79	1507.73	1877.4	1515.94	1702.42	1400.0	
G16	1246.91	1091.93	1369.76	1127.73	1349.41	1686.19	1352.65	1516.45	1246.91	
G17	1103.84	978.86	1228.32	1011.93	1204.39	1510.19	1207.87	1349.08	1103.84	
G18	985.77	882.49	1102.36	911.85	1078.01	1352.93	1081.07	1202.21	985.77	
G19	881.01	803.09	991.94	828.51	968.98	1206.8	969.35	1074.3	881.01	
G20	797.95	734.92	898.31	757.51	880.82	1082.46	874.79	964.39	797.95	
G21	727.97	674.4	820.3	698.7	802.31	977.38	794.65	871.5	727.97	
G22	667.72	621.02	749.86	643.05	737.06	888.84	724.58	793.31	667.72	
G23	616.8	573.67	689.06	596.91	679.32	809.87	663.13	725.69	616.8	
G24	571.45	524.79	634.56	550.95	629.93	741.6	606.74	666.52	571.45	
G25	527.81	471.51	584.48	502.11	581.88	678.44	554.24	617.41	527.81	
G26	479.48	416.92	530.87	448.09	530.73	623.62	496.87	567.5	479.48	
G27	427.63	361.64	476.05	393.55	475.68	569.13	440.8	518.07	427.63	
G28	375.09	307.33	420.49	336.6	419.33	511.9	383.81	465.29	375.09	
G29	321.53	255.49	365.63	281.69	362.48	453.33	328.25	409.83	321.53	
G30	270.23	209.02	310.67	230.49	306.27	395.08	274.82	352.88	270.23	
G31	220.66	168.39	259.15	184.99	252.98	337.2	224.69	296.95	220.66	
G32	176.92	135.56	212.63	147.01	206.23	282.15	181.1	244.4	176.92	
G33	140.24	108.47	173.49	116.45	166.58	232.48	145.57	197.75	140.24	
G34	110.47	87.93	141.12	92.75	133.8	189.54	116.26	158.37	110.47	
G35	86.91	72.07	115.52	74.99	107.69	151.97	93.31	126.75	86.91	
G36	69.56	59.96	94.79	61.54	87.7	122.29	75.45	102.49	69.56	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	56.95	51.15	79.4	51.89	72.35	99.38	62.05	83.85	56.95	
G38	48.23	44.75	67.48	45.03	61.63	82.22	52.5	70.12	48.23	
G39	42.67	40.35	59.32	40.95	54.58	69.19	45.36	60.43	42.67	
G40	39.47	37.56	53.29	38.07	50.13	59.87	40.67	53.8	39.47	
G41	37.1	35.71	48.93	36.22	46.38	53.15	37.75	49.39	37.1	
G42	35.48	34.36	45.31	34.64	43.69	48.46	35.66	45.91	35.48	
G43	33.99	33.02	42.94	33.48	41.83	45.4	34.18	43.36	33.99	
G44	32.88	31.95	41.09	32.32	40.25	42.85	32.7	41.41	32.88	
G45	31.86	30.98	39.51	31.35	38.63	40.9	31.58	39.84	31.86	
G46	31.03	30.14	38.07	30.33	37.43	39.05	30.33	38.31	31.03	
G47	29.96	29.03	36.92	29.17	35.9	37.56	29.4	37.15	29.96	
G48	29.03	28.1	35.52	28.2	34.78	36.22	28.43	35.71	29.03	
G49	28.24	27.22	34.32	27.45	33.58	34.83	27.69	34.41	28.24	
G50	27.36	26.25	33.21	26.48	32.32	33.62	26.62	33.21	27.36	
G51	26.43	25.46	32.14	25.65	31.16	32.42	25.65	32.05	26.43	
G52	25.6	24.63	30.98	24.81	30.28	31.3	24.9	30.98	25.6	
G53	24.86	23.79	29.87	23.98	29.08	30.24	24.02	29.96	24.86	
G54	23.93	22.96	28.89	23.0	28.15	28.94	23.05	28.94	23.93	
G55	23.1	21.94	27.83	22.31	26.99	27.92	22.31	28.01	23.1	
G56	22.21	21.15	26.99	21.43	26.2	26.94	21.38	26.99	22.21	
G57	21.33	20.17	25.97	20.68	25.04	26.06	20.64	26.11	21.33	
G58	20.5	19.29	25.04	19.71	23.88	25.09	19.66	25.0	20.5	
G59	19.66	18.41	24.16	18.78	23.05	24.02	18.88	24.02	19.66	
G60	18.88	17.48	23.0	17.9	22.12	23.05	18.04	23.1	18.88	
G61	17.85	16.42	21.8	17.16	21.15	22.08	16.93	21.98	17.85	
G62	16.88	15.49	20.82	16.09	20.13	21.01	16.0	21.15	16.88	
G63	15.68	14.47	19.9	15.16	19.11	19.99	15.3	20.03	15.68	
G64	14.98	13.4	18.69	14.14	18.13	19.01	14.33	18.88	14.98	
G65	13.59	12.01	17.53	13.12	17.21	18.09	13.4	17.95	13.59	
G66	12.43	10.76	16.19	11.69	16.19	17.16	12.34	16.6	12.43	
G67	10.9	10.02	14.84	10.53	14.61	16.0	10.94	15.26	10.9	
G68	10.02	9.69	13.45	9.92	13.63	14.7	10.16	13.87	10.02	
G69	9.79	9.37	12.71	9.74	12.85	13.54	9.97	12.99	9.79	
G70	9.55	9.0	12.38	9.51	12.48	12.94	9.37	12.43	9.55	
G71	9.14	8.53	12.15	9.18	12.06	12.24	9.18	12.24	9.14	
G72	8.81	8.44	11.64	8.77	11.59	12.01	8.81	11.64	8.81	
G73	8.44	7.84	11.18	8.44	11.27	11.64	8.53	11.32	8.44	

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