

Report No.:

Test Time: 2024/9/19 15:12:00

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP150CT095H107-24°-15.5W
Lamp Type:
Luminous Width: 88 mm
Luminous Length: 88 mm
Luminous Height: 82 mm

Voltage(V): 219.90 V
Current(A): 0.0740 A
Power(W): 15.47 W
Power Factor: 0.9460
Lamp Luminous Flux: 1482.42

Photometric Results

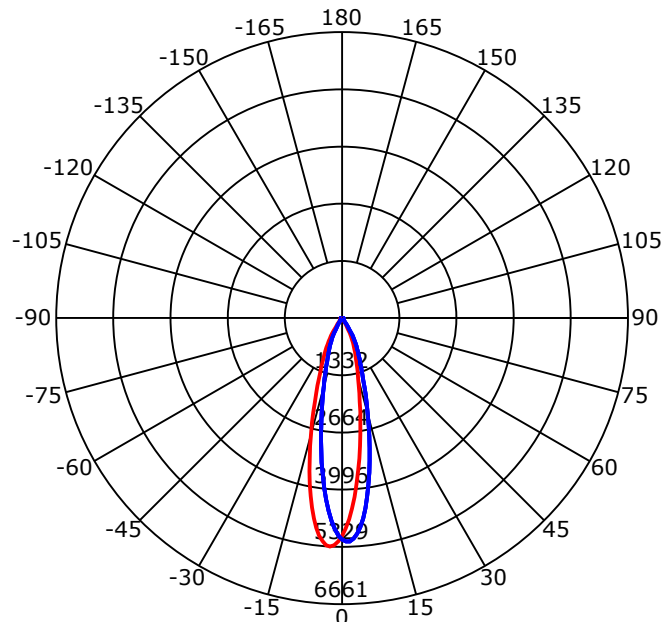
CIE Class: Direct
Luminaire Luminous Flux: 1482.417 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 95.83 lm/W
Beam Angle(50%) C0-180,C90-270: 24.7,24.6
Field Angle(10%) C0-180,C90-270: 56.6,56.5
S/MH C0-180,C90-270: 0.462,0.425

Max. Intensity: 5328.52 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 5072.99 cd
Effective Luminous Flux: 1267.90 lm
ERP(ϕ use)(120deg): 1462.55 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 24.7 deg,24.6 deg

C0-180 — C90-270 —

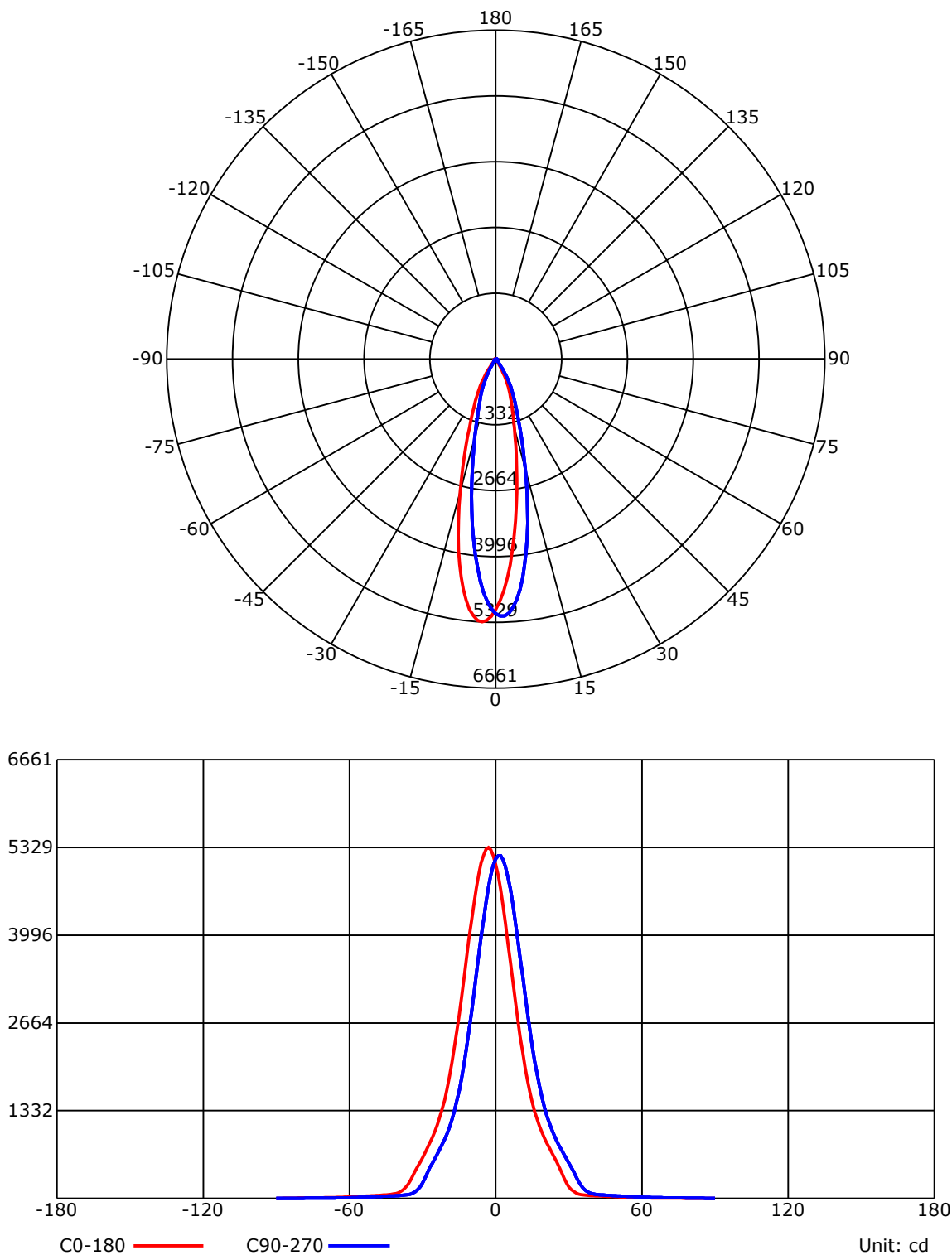
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/19 15:12:00

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



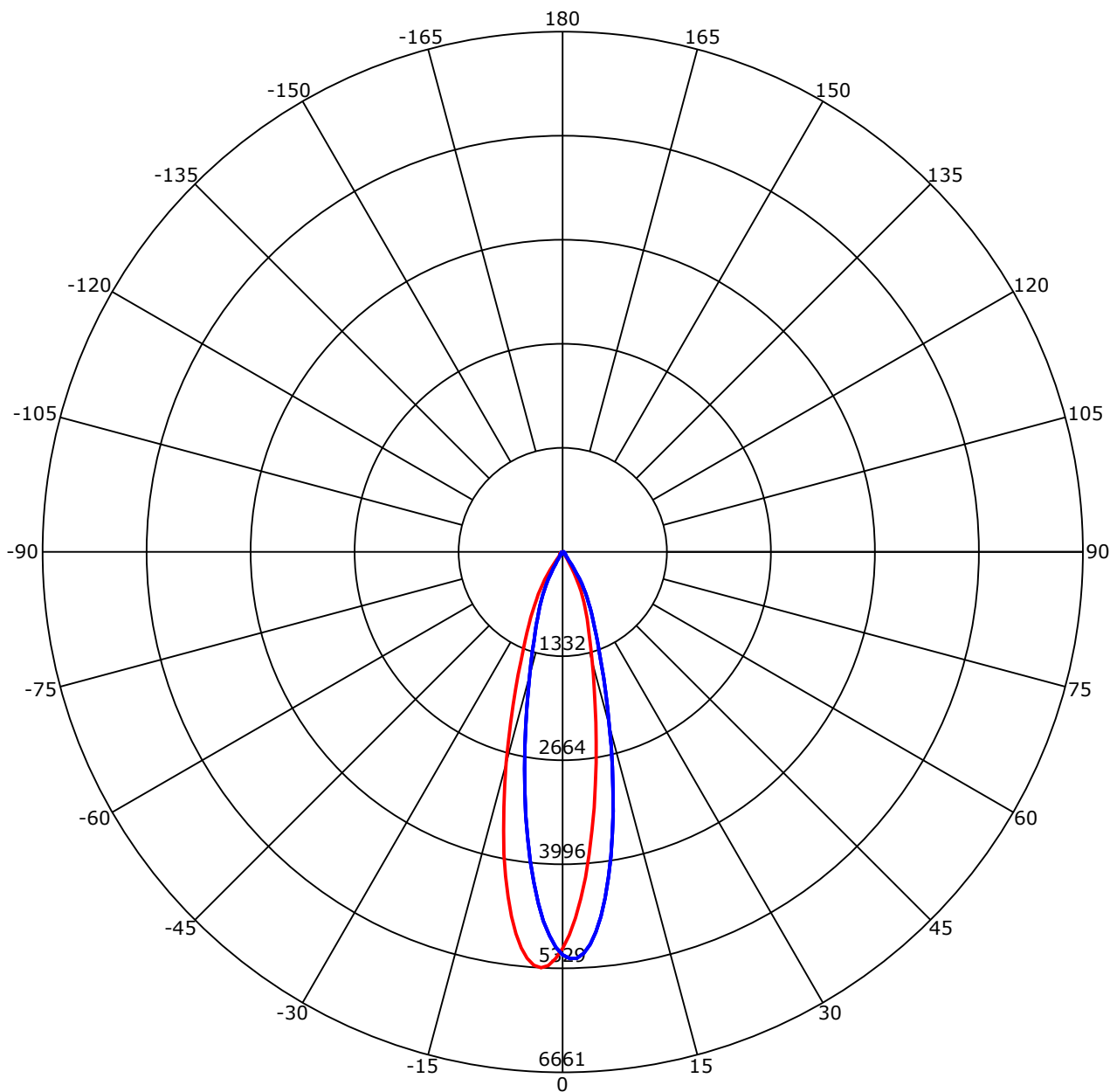
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Luminous Intensity Distribution Curve



C0-180 — C90-270 —

Unit: cd/klm

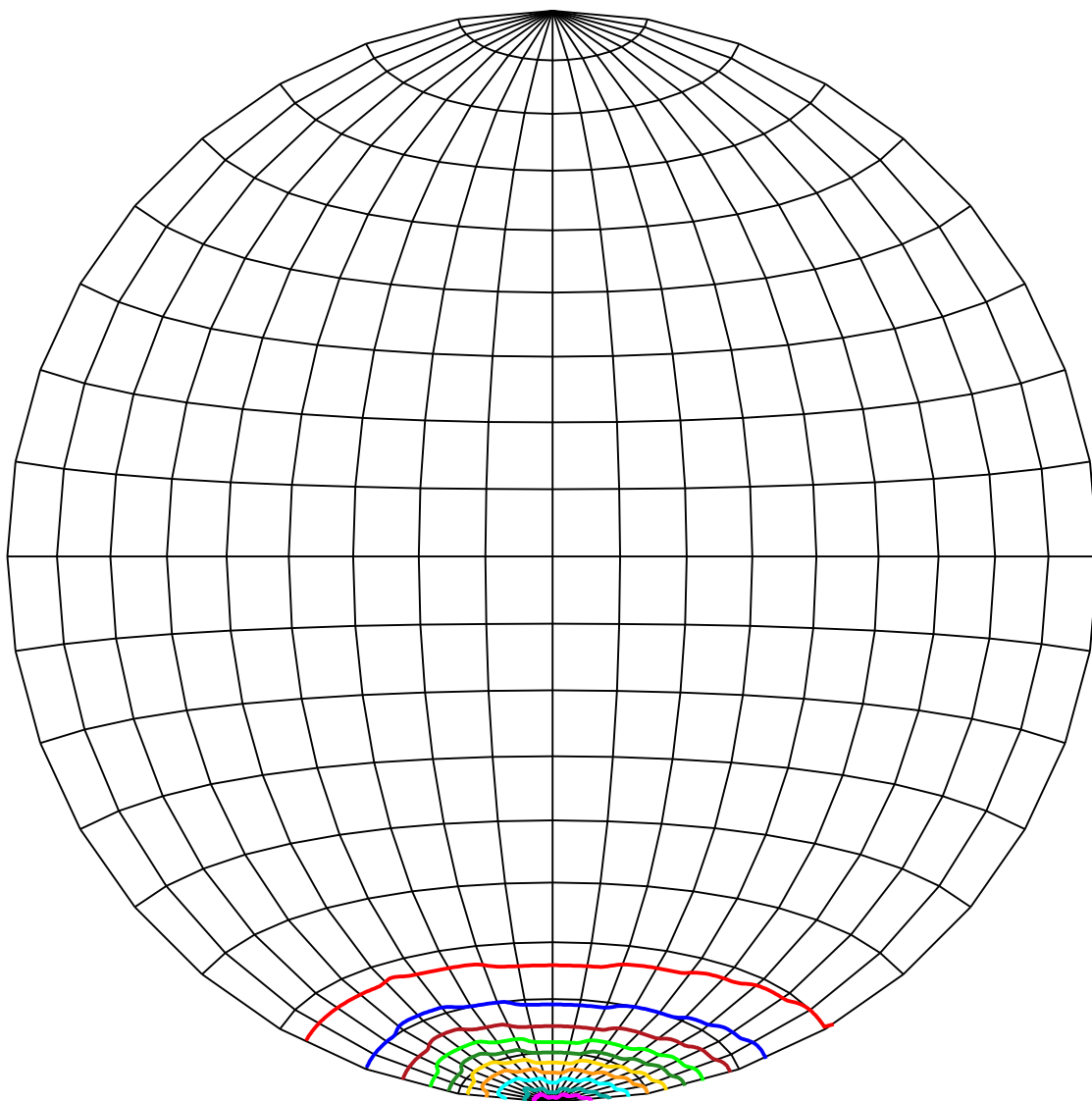
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 5328.521 cd

5062.095(95%I _{max})	2664.26(50%I _{max})
4795.669(90%I _{max})	2131.408(40%I _{max})
4262.817(80%I _{max})	1598.556(30%I _{max})
3729.965(70%I _{max})	1065.704(20%I _{max})
3197.113(60%I _{max})	532.852(10%I _{max})

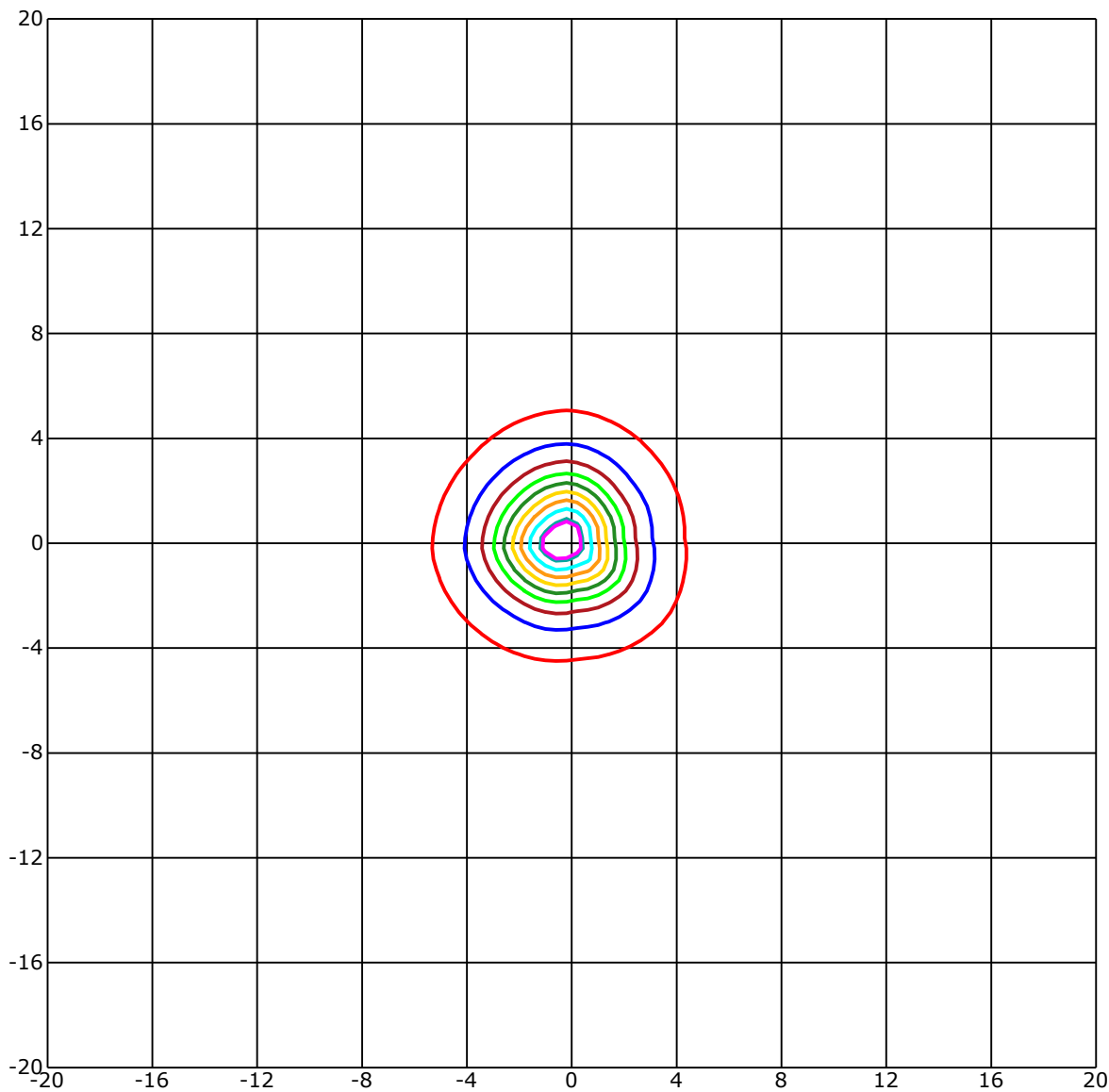
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ISOLX DIAGRAM



Unit of illumination:lx Height of plane:10.0(m)/32.81(ft)

- | | |
|-----------------|-----------------|
| 48.821(92%Emax) | 26.533(50%Emax) |
| 47.76(90%Emax) | 21.227(40%Emax) |
| 42.453(80%Emax) | 15.92(30%Emax) |
| 37.147(70%Emax) | 10.613(20%Emax) |
| 31.84(60%Emax) | 5.307(10%Emax) |

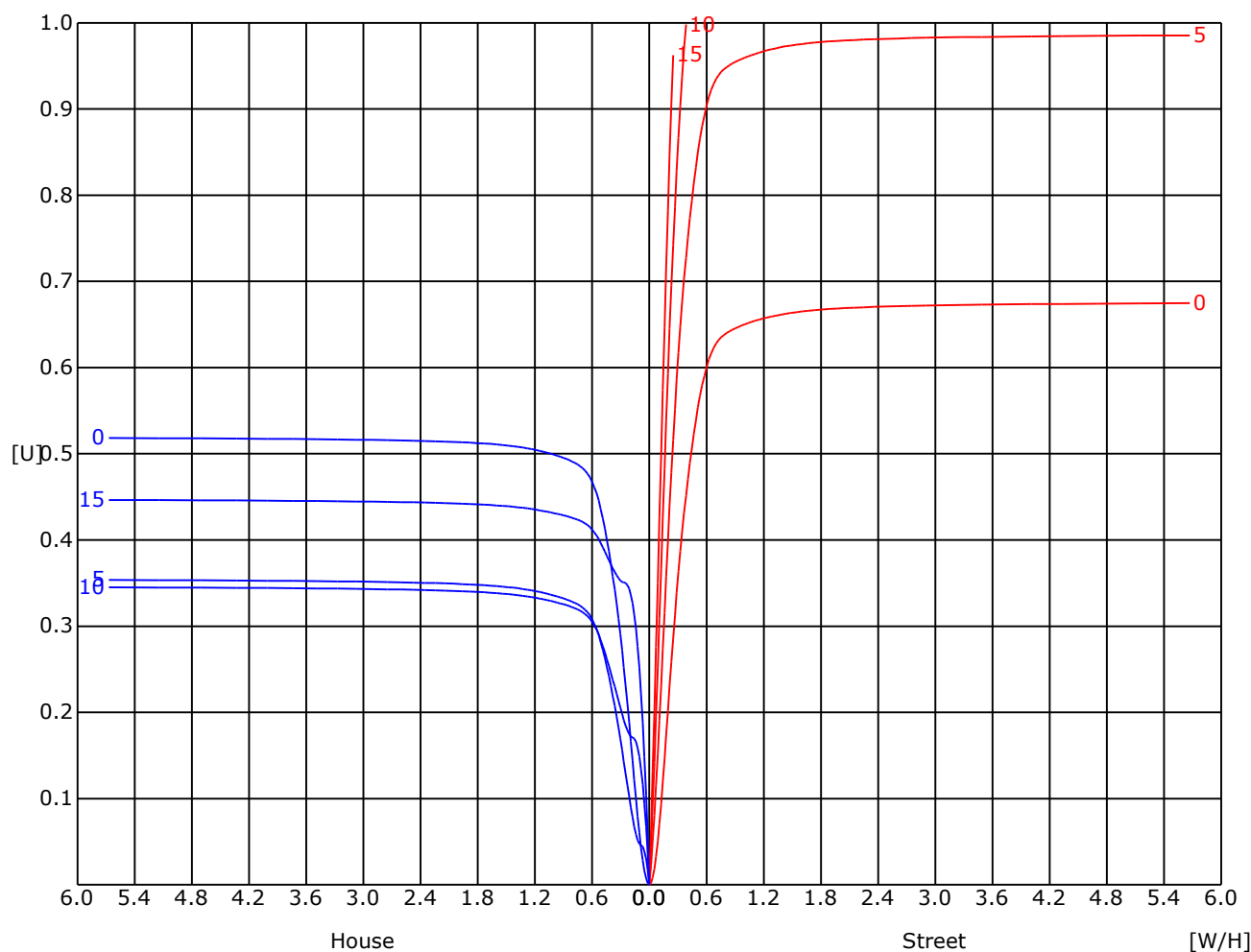
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UTILIZATION FACTOR DIAGRAM (ROAD)



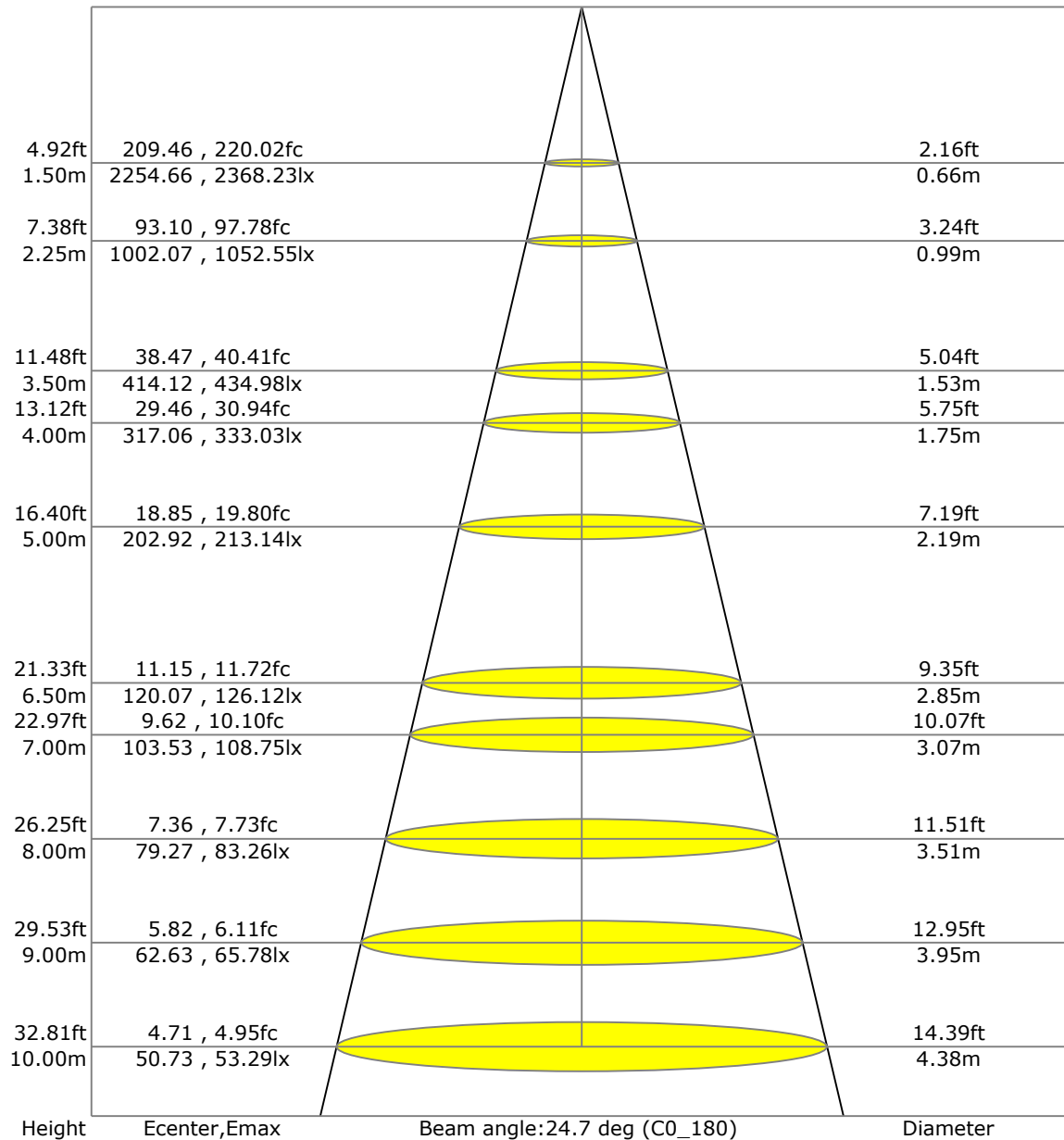
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 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	4.67	4.73	4.87	4.92	5.16	5.49	5.54	5.69	5.73	5.98
	3H	4.73	4.79	4.93	4.98	5.22	5.50	5.56	5.71	5.75	6.00
	4H	4.74	4.79	4.95	4.99	5.24	5.49	5.55	5.70	5.75	6.00
	6H	4.73	4.79	4.94	4.99	5.24	5.48	5.54	5.70	5.74	5.99
	8H	4.72	4.78	4.94	4.98	5.24	5.47	5.53	5.69	5.73	5.99
	12H	4.71	4.77	4.93	4.98	5.23	5.46	5.52	5.68	5.73	5.98
4H	2H	5.25	5.31	5.46	5.51	5.76	6.58	6.64	6.79	6.84	7.09
	3H	5.41	5.47	5.63	5.67	5.93	6.69	6.74	6.91	6.95	7.21
	4H	5.45	5.51	5.68	5.73	5.99	6.70	6.76	6.93	6.97	7.23
	6H	5.47	5.53	5.71	5.75	6.02	6.69	6.75	6.93	6.97	7.23
	8H	5.47	5.53	5.72	5.76	6.02	6.68	6.74	6.92	6.96	7.23
	12H	5.46	5.52	5.71	5.75	6.02	6.67	6.72	6.92	6.95	7.22
8H	4H	5.38	5.44	5.60	5.65	5.90	7.12	7.18	7.34	7.38	7.64
	6H	5.69	5.75	5.95	5.99	6.26	7.41	7.47	7.67	7.71	7.98
	8H	5.70	5.75	5.96	6.00	6.28	7.40	7.46	7.66	7.70	7.98
	12H	5.70	5.75	5.97	6.00	6.28	7.39	7.44	7.66	7.69	7.97
12H	4H	5.64	5.70	5.89	5.93	6.20	7.64	7.70	7.89	7.93	8.20
	6H	5.68	5.74	5.94	5.98	6.26	7.68	7.73	7.94	7.98	8.25

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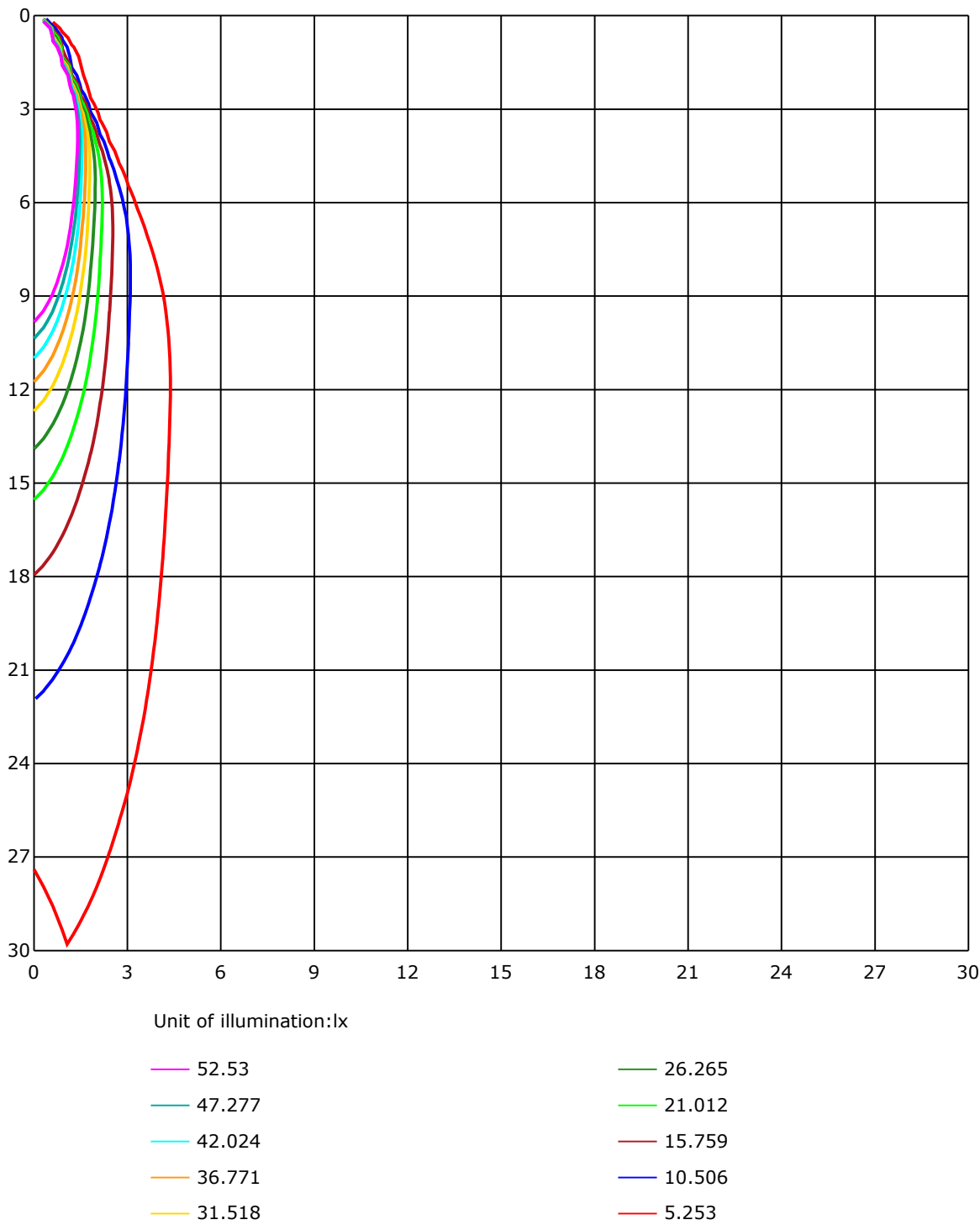
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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

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SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
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Test Date: 2024/9/19 15:12:00

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 DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	5072.99	5215.55	5154.94	5216.94	5072.99	5215.55	5154.94	5216.94	5072.99	
G1	4901.77	5130.68	5204.28	5266.33	5205.49	5247.41	5059.49	5126.55	4901.77	
G2	4687.6	4994.47	5202.29	5259.7	5294.39	5221.11	4913.55	4989.1	4687.6	
G3	4441.49	4806.42	5141.95	5200.8	5328.52	5135.41	4728.18	4815.28	4441.49	
G4	4176.68	4589.84	5033.57	5092.61	5303.39	5001.15	4503.72	4602.13	4176.68	
G5	3880.43	4335.52	4881.6	4941.61	5217.64	4820.43	4240.77	4369.0	3880.43	
G6	3582.55	4060.27	4691.59	4747.8	5093.4	4603.94	3971.93	4114.53	3582.55	
G7	3296.46	3770.42	4461.8	4528.07	4919.95	4352.77	3688.06	3836.0	3296.46	
G8	3008.28	3469.58	4203.76	4278.57	4707.55	4087.31	3403.64	3567.48	3008.28	
G9	2731.23	3176.21	3938.68	4017.24	4465.97	3798.2	3105.21	3284.59	2731.23	
G10	2462.9	2886.59	3658.38	3747.24	4213.13	3487.2	2820.69	3005.45	2462.9	
G11	2222.57	2605.92	3381.93	3465.41	3940.49	3190.82	2543.96	2736.7	2222.57	
G12	1991.53	2349.09	3096.02	3190.91	3646.88	2900.27	2284.86	2486.59	1991.53	
G13	1791.97	2108.07	2819.57	2920.4	3350.53	2613.53	2045.14	2245.81	1791.97	
G14	1614.63	1890.15	2561.49	2659.16	3071.26	2347.56	1834.27	2026.45	1614.63	
G15	1457.28	1695.33	2307.54	2404.88	2793.88	2103.62	1638.56	1826.11	1457.28	
G16	1318.61	1522.2	2082.57	2180.79	2526.52	1874.75	1472.95	1652.89	1318.61	
G17	1196.55	1370.88	1878.84	1972.7	2288.94	1676.17	1322.6	1492.11	1196.55	
G18	1087.52	1238.29	1693.7	1777.69	2057.48	1496.51	1192.52	1348.2	1087.52	
G19	998.52	1124.71	1526.01	1604.1	1853.79	1339.57	1081.82	1220.71	998.52	
G20	913.84	1026.67	1381.03	1451.99	1666.94	1210.23	985.49	1113.63	913.84	
G21	836.86	943.85	1252.94	1315.88	1497.07	1095.17	897.84	1010.63	836.86	
G22	764.37	871.18	1142.66	1195.9	1355.2	998.76	818.54	921.26	764.37	
G23	693.14	802.07	1044.16	1084.32	1231.66	913.89	744.38	837.88	693.14	
G24	623.39	739.33	956.83	987.49	1117.94	839.92	674.35	758.99	623.39	
G25	556.37	675.98	876.37	894.78	1021.9	771.37	604.65	682.93	556.37	
G26	480.41	611.79	803.28	806.9	930.86	705.52	538.38	611.52	480.41	
G27	391.88	547.7	733.44	722.82	848.22	641.57	470.72	537.36	391.88	
G28	307.98	481.38	665.73	646.25	769.19	577.34	392.3	450.31	307.98	
G29	233.32	405.37	600.39	570.98	693.28	513.48	309.7	364.93	233.32	
G30	175.44	320.09	536.2	501.14	623.06	449.89	236.84	288.13	175.44	
G31	134.49	243.75	473.92	435.29	554.38	373.14	179.71	222.93	134.49	
G32	103.84	182.03	400.5	373.05	485.33	295.23	135.93	174.37	103.84	
G33	81.9	135.23	322.17	303.35	421.1	225.34	103.7	136.11	81.9	
G34	67.43	102.49	253.07	240.46	346.99	169.37	81.25	107.78	67.43	
G35	58.11	79.95	196.45	187.27	275.2	129.3	66.09	88.16	58.11	
G36	52.27	65.81	151.6	146.46	214.49	101.29	57.04	75.27	52.27	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	48.14	57.04	118.68	114.6	166.63	82.92	51.85	66.83	48.14	
G38	45.26	51.66	95.16	90.62	131.29	71.56	47.81	61.12	45.26	
G39	42.81	47.49	79.44	73.55	105.83	64.79	45.03	57.04	42.81	
G40	40.72	44.75	69.52	62.84	87.56	60.15	42.85	53.75	40.72	
G41	38.96	42.71	63.3	55.93	75.55	56.53	40.67	50.78	38.96	
G42	37.15	40.67	58.99	51.15	67.71	53.56	39.1	47.86	37.15	
G43	35.52	38.77	55.28	47.49	62.14	51.2	37.29	45.68	35.52	
G44	33.85	37.15	52.4	45.12	58.29	48.37	35.71	43.64	33.85	
G45	32.32	35.25	49.76	42.71	55.23	46.42	33.81	41.65	32.32	
G46	30.7	33.72	47.12	40.86	52.36	44.29	32.32	39.56	30.7	
G47	29.03	32.05	44.8	39.0	49.81	42.43	30.75	37.75	29.03	
G48	27.36	30.52	42.81	37.29	47.16	40.53	29.17	35.85	27.36	
G49	26.02	28.94	40.58	35.29	45.22	38.68	27.36	33.85	26.02	
G50	24.21	27.36	38.91	33.76	42.99	36.73	25.69	31.91	24.21	
G51	22.54	25.6	36.64	32.05	41.0	34.92	24.02	30.14	22.54	
G52	20.73	24.02	34.74	30.7	39.1	32.93	22.31	28.24	20.73	
G53	19.01	22.54	32.97	28.99	37.05	31.07	20.54	26.43	19.01	
G54	17.3	21.01	31.07	27.36	35.25	29.08	18.97	24.44	17.3	
G55	15.12	19.34	29.17	25.79	33.44	27.13	17.39	22.4	15.12	
G56	13.26	17.81	27.32	24.07	31.44	25.41	15.35	20.08	13.26	
G57	12.24	16.05	25.51	22.45	29.59	23.74	13.4	17.99	12.24	
G58	11.27	13.82	23.79	20.92	27.83	21.89	12.29	16.7	11.27	
G59	10.25	12.52	22.26	19.29	26.02	19.62	11.32	15.35	10.25	
G60	9.51	11.59	20.13	17.48	24.25	17.95	10.43	14.33	9.51	
G61	8.49	10.57	18.23	15.54	22.4	16.56	9.74	13.26	8.49	
G62	7.74	9.74	16.97	14.24	20.08	15.44	8.86	12.52	7.74	
G63	7.19	8.95	15.63	13.12	18.55	14.52	8.39	11.64	7.19	
G64	6.59	8.12	14.52	12.2	17.58	13.59	7.7	10.94	6.59	
G65	6.17	7.7	13.59	11.27	16.28	12.52	7.14	9.92	6.17	
G66	5.94	7.19	12.85	10.34	15.16	11.87	6.68	9.46	5.94	
G67	5.7	6.63	12.01	9.41	14.28	11.18	6.21	9.18	5.7	
G68	5.57	6.21	11.27	8.72	13.22	10.62	6.21	9.09	5.57	
G69	5.33	5.89	10.62	8.21	12.57	9.88	5.94	8.58	5.33	
G70	5.15	5.57	10.02	7.74	11.59	9.6	5.7	8.16	5.15	
G71	4.92	5.47	9.37	7.23	10.99	9.23	5.43	7.98	4.92	
G72	4.68	5.1	9.14	7.19	10.34	8.95	5.24	7.65	4.68	
G73	4.45	5.05	8.95	7.05	10.3	8.63	4.96	7.1	4.45	

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