

Report No.:

Test Time: 2025/7/17 10:56:24

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP150CT075H86-60°-8W
Lamp Type:
Luminous Width: 63 mm
Luminous Length: 63 mm
Luminous Height: 65 mm

Voltage(V): 219.80 V
Current(A): 0.0420 A
Power(W): 8.66 W
Power Factor: 0.9320
Lamp Luminous Flux: 677.60

Photometric Results

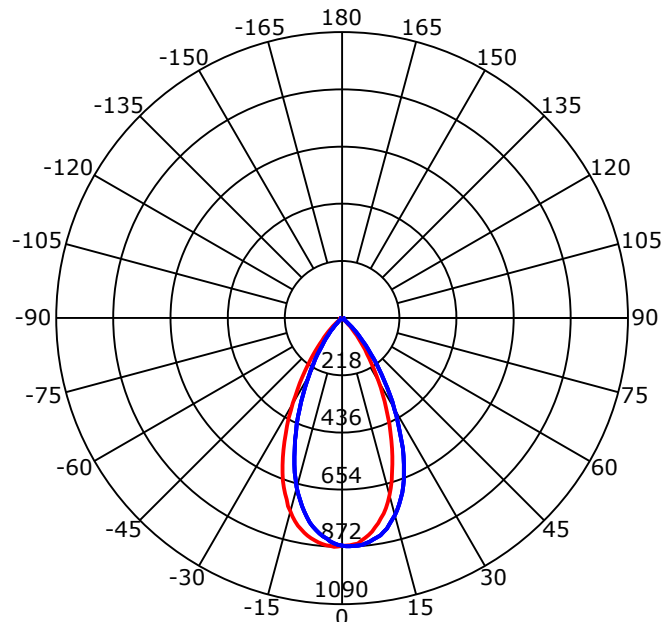
CIE Class: Direct
Luminaire Luminous Flux: 677.5978 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 78.26 lm/W
Beam Angle(50%) C0-180,C90-270: 52.1,52.0
Field Angle(10%) C0-180,C90-270: 84.0,83.3
S/MH C0-180,C90-270: 0.808,0.808

Max. Intensity: 872.10 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 868.42 cd
Effective Luminous Flux: 636.43 lm
ERP(ϕ use)(120deg): 671.92 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 52.1 deg,52.0 deg

C0-180 — C90-270 —

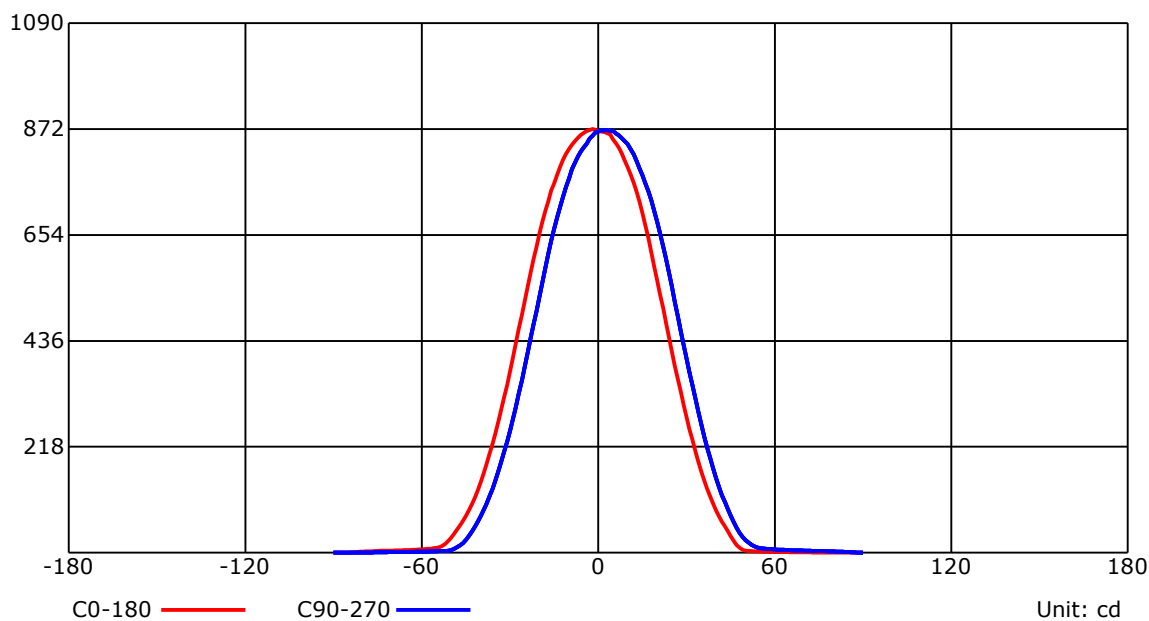
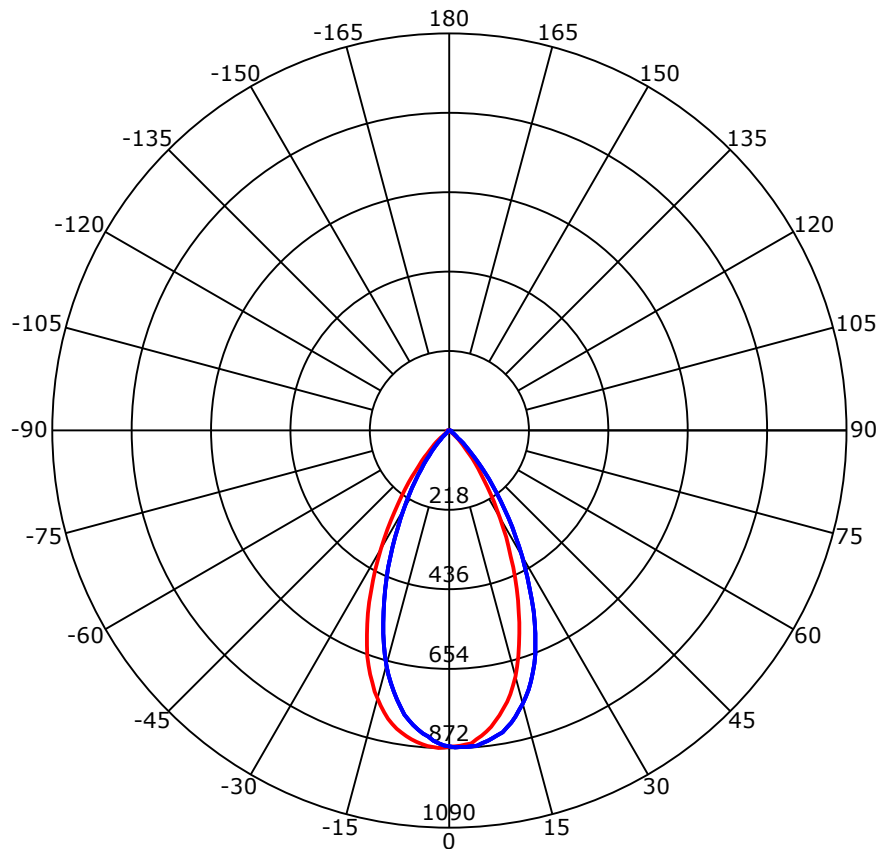
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 10:56:24

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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Luminous Intensity Distribution Curve



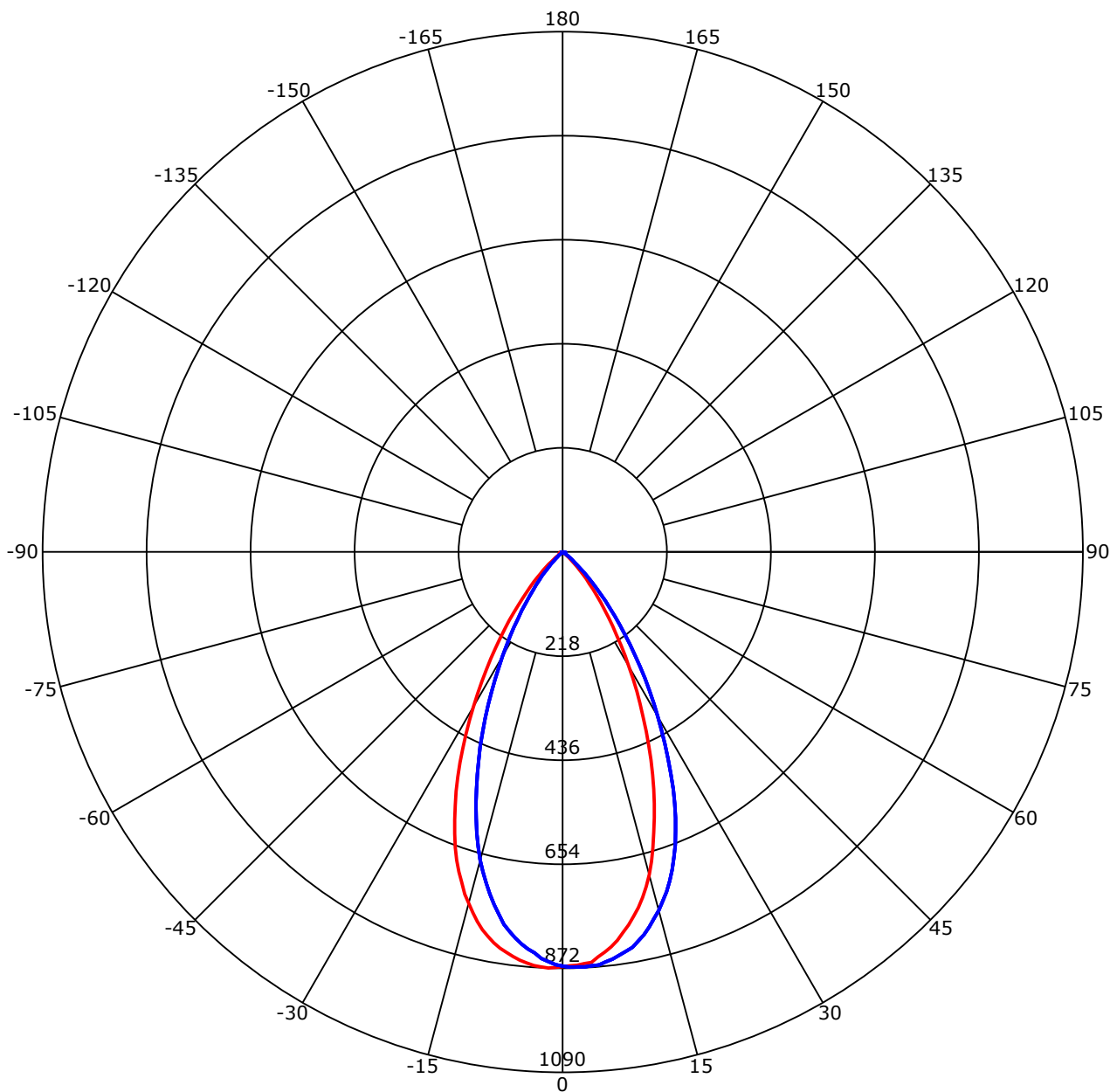
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 10:56:24

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

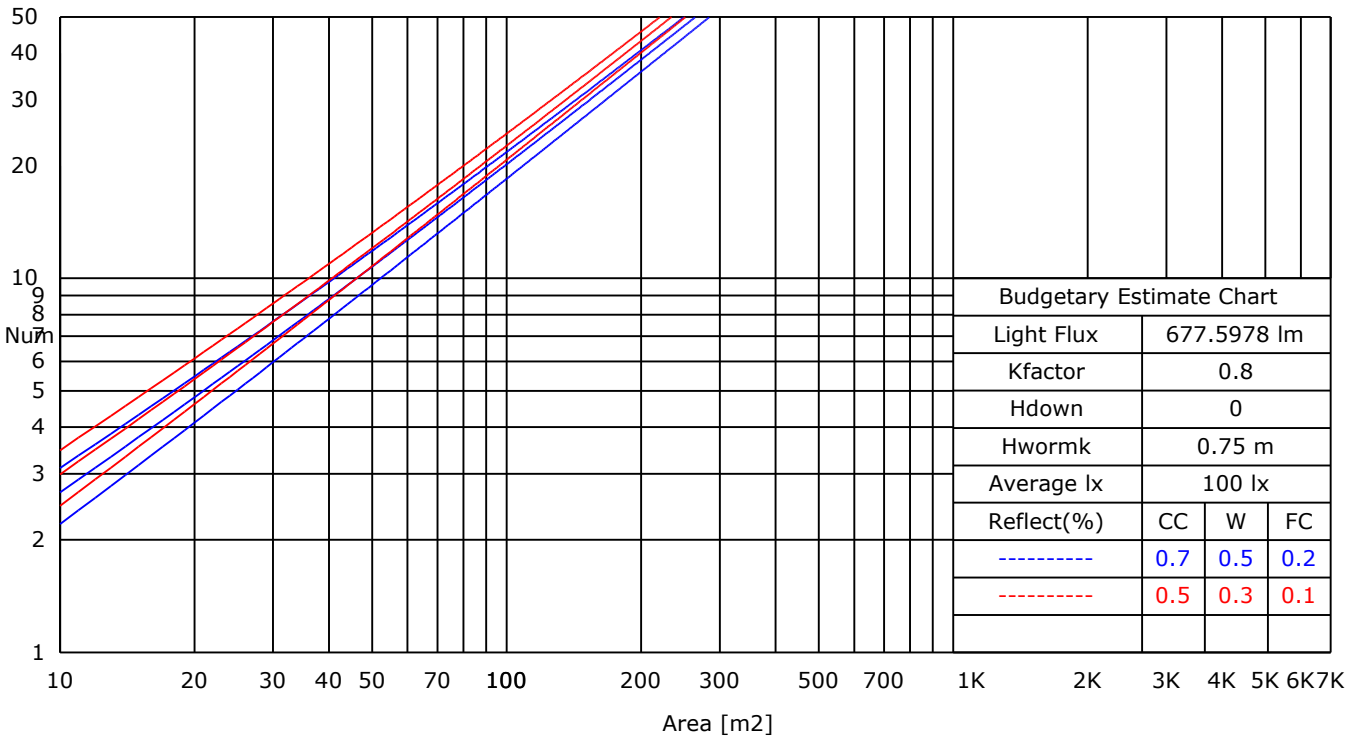
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UTILIZATION FACTORS TABLE

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	COEFFCIENTS OF UTILIZATION FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.08	1.07	1.06	1.07	1.05	1.04	1.03	1.01	0.99	0.98	0.96	0.94	0.91	0.89	0.87	0.82
2	1.01	0.99	0.98	1.00	0.98	0.96	0.97	0.94	0.92	0.92	0.90	0.87	0.87	0.84	0.81	0.77
3	0.96	0.95	0.94	0.95	0.93	0.92	0.92	0.90	0.88	0.89	0.86	0.83	0.84	0.81	0.78	0.73
4	0.92	0.91	0.90	0.91	0.89	0.88	0.89	0.86	0.84	0.85	0.82	0.79	0.81	0.78	0.75	0.70
5	0.89	0.87	0.86	0.88	0.86	0.84	0.85	0.83	0.81	0.82	0.79	0.76	0.79	0.75	0.72	0.68
6	0.86	0.84	0.83	0.85	0.83	0.81	0.82	0.80	0.78	0.80	0.76	0.74	0.76	0.72	0.69	0.65
7	0.83	0.81	0.80	0.82	0.80	0.79	0.80	0.77	0.75	0.77	0.74	0.71	0.74	0.70	0.67	0.63
8	0.80	0.79	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.75	0.71	0.69	0.72	0.68	0.65	0.61
9	0.77	0.76	0.75	0.77	0.75	0.74	0.75	0.72	0.70	0.72	0.69	0.66	0.70	0.66	0.63	0.59
10	0.75	0.74	0.73	0.74	0.73	0.71	0.72	0.70	0.68	0.70	0.67	0.64	0.68	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



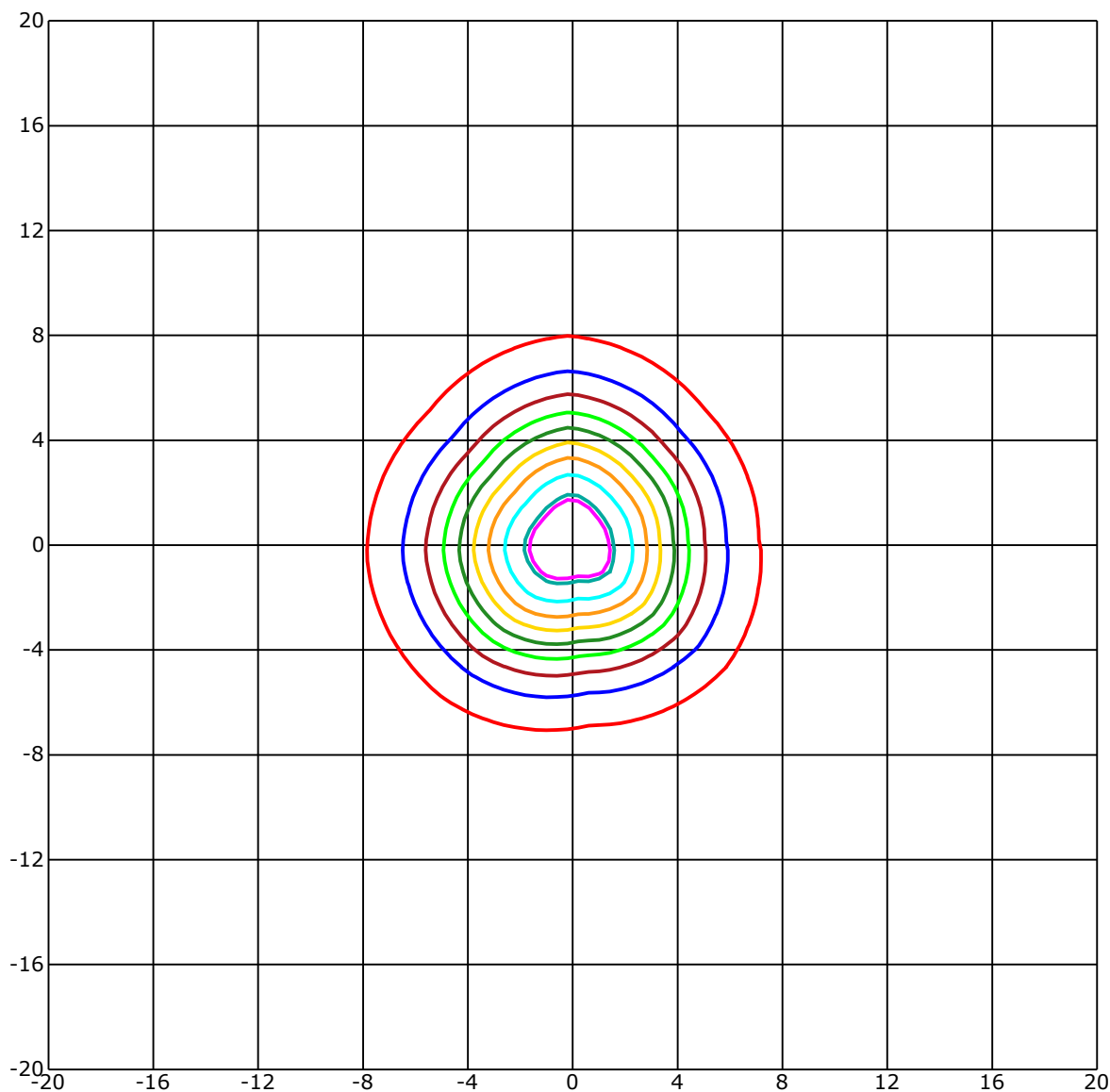
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ISOLX DIAGRAM



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

8.017(92%Emax)	4.357(50%Emax)
7.843(90%Emax)	3.486(40%Emax)
6.971(80%Emax)	2.614(30%Emax)
6.1(70%Emax)	1.743(20%Emax)
5.228(60%Emax)	0.871(10%Emax)

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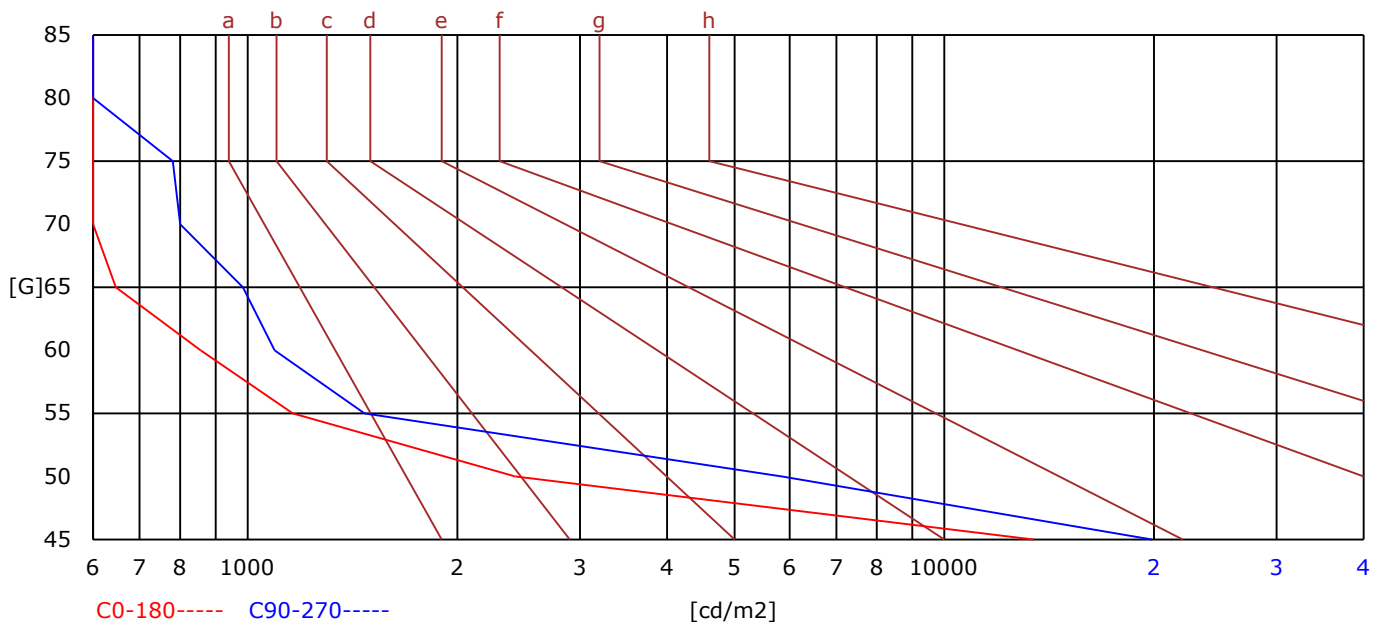
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	13437	2423	1161	856	647	452	0	0	0
C90	19878	5846	1472	1094	985	800	781	274	0
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
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



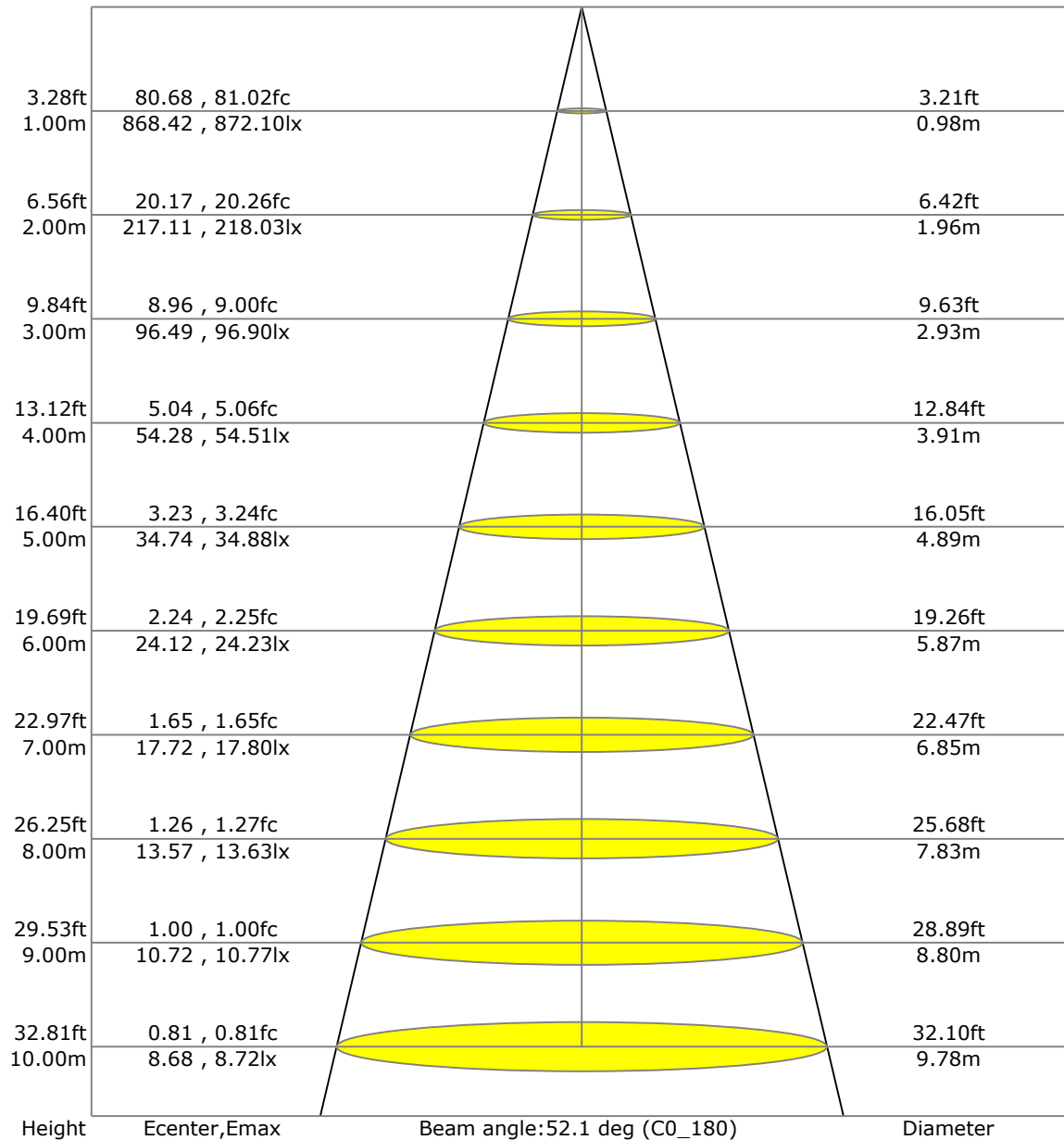
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G Interval: 1.0 Deg
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/7/17 10:56:24

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.87 m
 Remarks:

UGR(Unified Glare Rating) TABLE

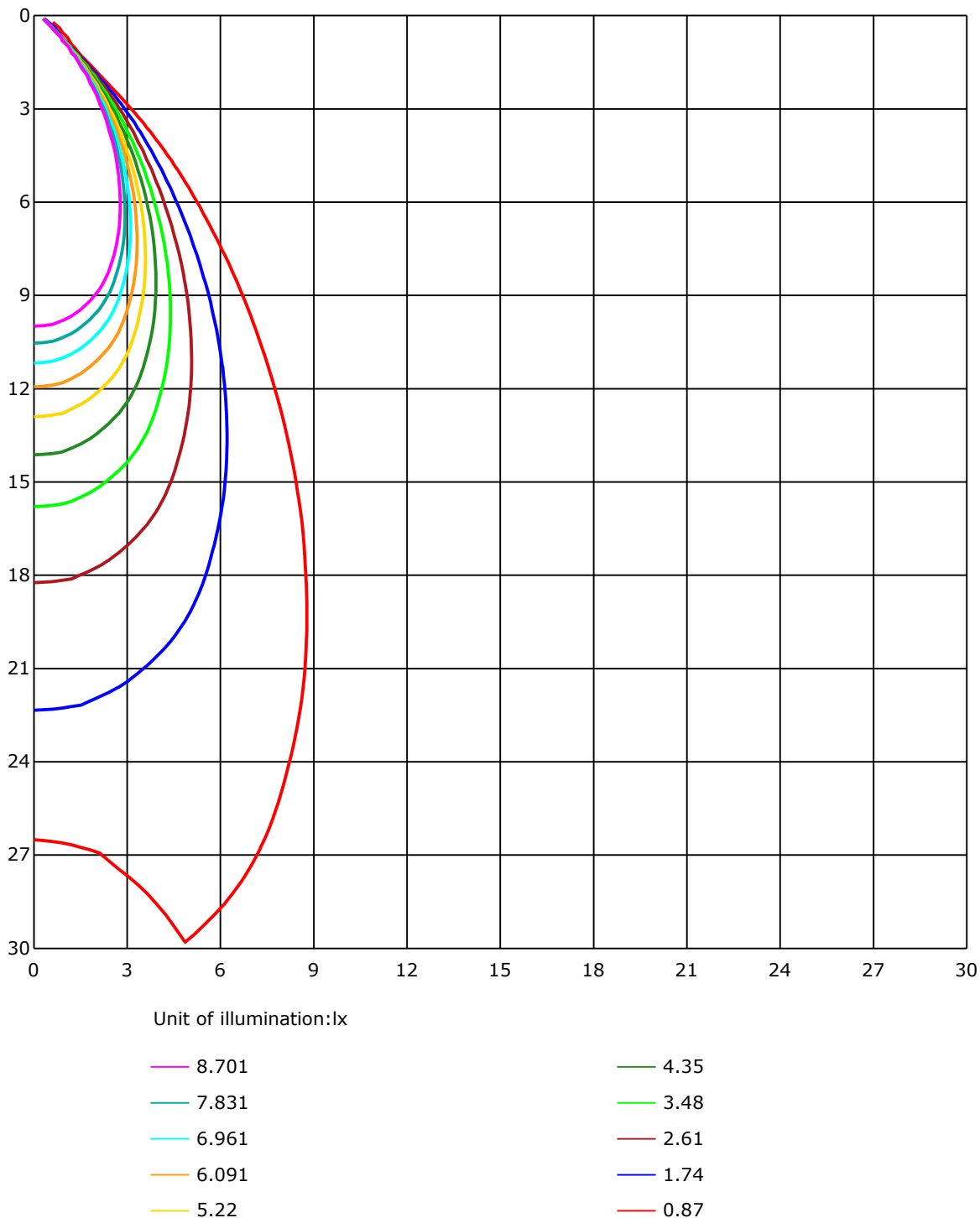
RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	14.55	14.60	14.75	14.78	15.03	14.76	14.81	14.96	15.00	15.24
3H	14.52	14.57	14.73	14.76	15.01	14.73	14.79	14.94	14.98	15.22
4H	14.51	14.56	14.72	14.75	15.00	14.72	14.77	14.93	14.97	15.21
6H	14.49	14.54	14.70	14.74	14.99	14.70	14.75	14.92	14.95	15.20
8H	14.48	14.53	14.70	14.73	14.99	14.69	14.74	14.91	14.95	15.20
12H	14.47	14.52	14.69	14.73	14.98	14.68	14.73	14.90	14.94	15.19
4H 2H	14.51	14.56	14.72	14.76	15.00	14.80	14.85	15.01	15.04	15.29
3H	14.47	14.53	14.70	14.73	14.99	14.76	14.81	14.98	15.02	15.27
4H	14.45	14.50	14.68	14.72	14.98	14.74	14.79	14.97	15.00	15.26
6H	14.43	14.48	14.67	14.70	14.96	14.72	14.77	14.95	14.99	15.25
8H	14.42	14.47	14.66	14.69	14.96	14.70	14.75	14.95	14.98	15.24
12H	14.41	14.45	14.65	14.68	14.95	14.69	14.74	14.94	14.97	15.24
8H 4H	14.48	14.53	14.70	14.74	14.99	14.84	14.89	15.06	15.09	15.34
6H	14.39	14.43	14.64	14.67	14.94	14.76	14.80	15.01	15.04	15.31
8H	14.37	14.42	14.64	14.66	14.94	14.74	14.78	15.00	15.03	15.31
12H	14.36	14.40	14.63	14.65	14.93	14.72	14.76	14.99	15.02	15.30
12H 4H	14.40	14.45	14.65	14.68	14.95	14.80	14.85	15.05	15.08	15.35
6H	14.37	14.41	14.63	14.66	14.94	14.78	14.82	15.04	15.06	15.34

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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	868.42	867.62	867.15	871.4	868.42	867.62	867.15	871.4	868.42	
G1	867.15	865.87	869.89	867.9	870.64	871.16	864.6	869.18	867.15	
G2	866.06	864.03	869.7	868.75	872.1	871.07	858.61	869.6	866.06	
G3	863.37	860.97	870.22	865.31	870.07	870.92	852.52	866.44	863.37	
G4	861.72	855.16	868.94	861.63	868.52	867.43	841.85	864.74	861.72	
G5	851.01	849.83	868.42	857.05	864.03	860.92	834.82	859.5	851.01	
G6	842.65	843.03	863.23	849.26	859.93	852.61	825.47	854.64	842.65	
G7	833.21	834.06	858.84	840.53	853.89	844.87	814.71	848.36	833.21	
G8	821.65	823.21	852.85	832.84	846.9	838.55	802.3	840.39	821.65	
G9	807.21	812.35	846.9	820.85	840.01	830.05	789.6	830.15	807.21	
G10	793.57	799.52	840.86	809.29	831.09	818.06	770.58	819.1	793.57	
G11	777.33	783.56	829.96	795.65	820.47	805.84	752.22	804.38	777.33	
G12	761.71	767.42	819.86	781.39	808.86	794.04	732.64	788.85	761.71	
G13	742.97	750.38	806.03	765.01	794.42	779.79	712.06	772.28	742.97	
G14	722.68	732.12	791.11	745.52	778.84	763.22	690.63	752.79	722.68	
G15	699.65	712.96	777.29	727.45	761.43	745.62	668.21	731.32	699.65	
G16	674.59	689.31	760.91	707.53	745.57	727.3	641.97	710.27	674.59	
G17	647.21	667.65	743.87	684.78	723.48	706.54	615.35	687.61	647.21	
G18	617.67	640.84	724.94	662.36	704.22	682.09	586.75	663.4	617.67	
G19	589.02	615.16	703.71	636.21	682.28	659.34	557.87	636.03	589.02	
G20	561.08	587.41	681.43	611.01	658.59	631.16	528.89	608.6	561.08	
G21	532.15	558.06	657.97	583.21	631.68	604.73	499.2	578.92	532.15	
G22	503.5	528.04	630.55	555.08	604.88	577.5	470.08	549.89	503.5	
G23	472.63	497.12	604.73	524.88	576.7	548.48	442.66	520.11	472.63	
G24	443.41	466.4	576.75	495.47	548.81	518.17	412.83	490.94	443.41	
G25	414.01	436.95	548.43	465.93	519.83	489.38	384.18	461.73	414.01	
G26	384.84	408.21	516.76	437.42	490.71	460.69	355.63	432.84	384.84	
G27	356.9	378.9	485.61	408.63	461.63	432.09	328.3	403.06	356.9	
G28	331.46	349.54	455.64	380.12	432.65	403.91	300.97	375.17	331.46	
G29	303.81	323.2	427.56	351.66	402.87	376.16	276.43	348.41	303.81	
G30	278.74	295.97	399.29	324.67	374.46	347.37	251.94	322.4	278.74	
G31	253.92	270.34	371.3	298.28	346.43	318.77	229.28	296.54	253.92	
G32	230.75	246.23	342.93	274.03	320.09	291.91	208.0	271.52	230.75	
G33	207.52	223.15	316.41	250.47	294.56	267.75	187.28	248.11	207.52	
G34	186.62	201.15	289.36	227.58	269.59	244.57	167.55	226.31	186.62	
G35	167.03	179.82	264.21	205.83	246.04	221.92	149.33	204.41	167.03	
G36	149.33	159.53	239.67	185.96	223.95	199.93	131.49	184.26	149.33	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	131.68	140.88	216.78	167.08	202.19	180.53	115.44	165.66	131.68	
G38	115.68	123.99	194.31	149.05	181.85	162.36	100.53	148.39	115.68	
G39	100.86	108.03	173.21	131.87	162.78	144.61	87.79	131.96	100.86	
G40	87.27	93.31	153.58	116.29	144.85	128.19	75.47	116.58	87.27	
G41	75.04	80.19	135.83	101.28	128.42	112.85	64.42	102.61	75.04	
G42	64.14	68.34	118.7	88.16	113.56	98.55	53.38	90.0	64.14	
G43	54.09	57.72	104.26	76.08	99.21	86.13	43.33	78.3	54.09	
G44	44.08	47.15	89.77	65.56	87.03	74.81	34.69	67.82	44.08	
G45	33.6	37.71	75.75	55.79	75.75	64.75	26.29	58.1	33.6	
G46	24.5	29.12	63.15	46.11	65.89	55.69	19.87	48.24	24.5	
G47	16.05	21.33	51.73	36.81	56.64	47.01	15.1	39.46	16.05	
G48	9.86	14.54	40.49	28.74	47.48	38.84	11.33	31.48	9.86	
G49	5.85	9.39	32.61	21.33	38.94	31.57	8.21	24.31	5.85	
G50	4.15	6.18	26.19	14.91	31.29	24.92	5.71	18.55	4.15	
G51	3.59	4.34	21.14	9.82	24.5	19.3	4.39	14.16	3.59	
G52	3.21	3.45	16.85	6.47	18.74	14.91	3.59	11.37	3.21	
G53	2.83	3.07	13.26	4.48	14.25	11.89	3.45	9.72	2.83	
G54	2.55	2.88	10.62	3.78	11.52	9.96	3.16	8.97	2.55	
G55	2.36	2.64	9.34	3.35	9.82	9.11	2.97	8.31	2.36	
G56	2.27	2.36	8.54	3.07	9.11	8.45	2.69	7.79	2.27	
G57	1.98	2.12	8.17	2.88	8.4	7.93	2.5	7.32	1.98	
G58	1.75	1.94	7.6	2.6	7.93	7.46	2.31	6.8	1.75	
G59	1.65	1.75	7.13	2.41	7.46	7.03	2.17	6.37	1.65	
G60	1.6	1.7	6.65	2.17	7.08	6.7	2.03	6.09	1.6	
G61	1.46	1.56	6.32	2.12	6.56	6.47	1.89	5.66	1.46	
G62	1.37	1.51	6.18	1.98	6.23	6.14	1.84	5.57	1.37	
G63	1.27	1.46	5.85	1.89	5.99	5.76	1.7	5.33	1.27	
G64	1.32	1.32	5.52	1.75	5.71	5.43	1.65	5.1	1.32	
G65	1.13	1.09	5.29	1.65	5.43	5.19	1.42	4.72	1.13	
G66	1.04	0.9	5.0	1.56	5.19	4.86	1.37	4.58	1.04	
G67	1.04	0.94	4.81	1.42	5.05	4.58	1.32	4.25	1.04	
G68	1.09	0.8	4.48	1.27	4.86	4.44	1.32	4.15	1.09	
G69	0.94	0.76	4.48	1.27	4.53	4.39	1.27	3.92	0.94	
G70	0.85	0.61	4.2	1.09	4.29	4.11	1.37	3.78	0.85	
G71	0.66	0.52	4.01	1.09	4.25	4.01	1.27	3.63	0.66	
G72	0.66	0.38	3.87	1.04	4.11	3.82	1.04	3.4	0.66	
G73	0.42	0.24	3.78	0.94	3.92	3.78	1.09	3.26	0.42	

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