

Report No.:

Test Time: 2024/10/8 15:08:03

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H98-3F-60°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

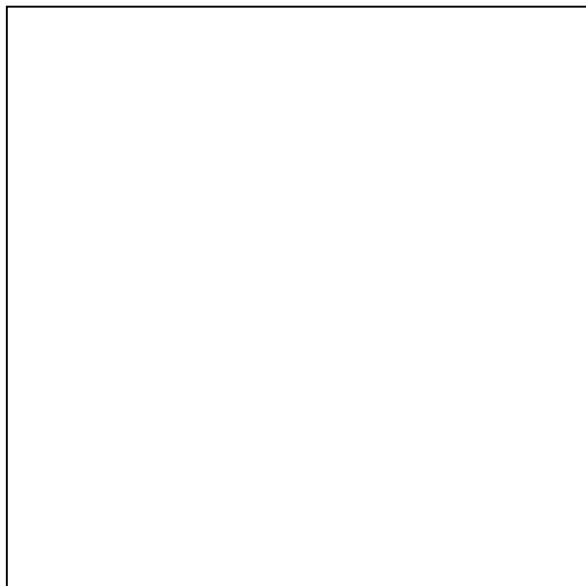
Voltage(V): 219.90 V
Current(A): 0.2060 A
Power(W): 43.05 W
Power Factor: 0.9460
Lamp Luminous Flux: 3991.83

Photometric Results

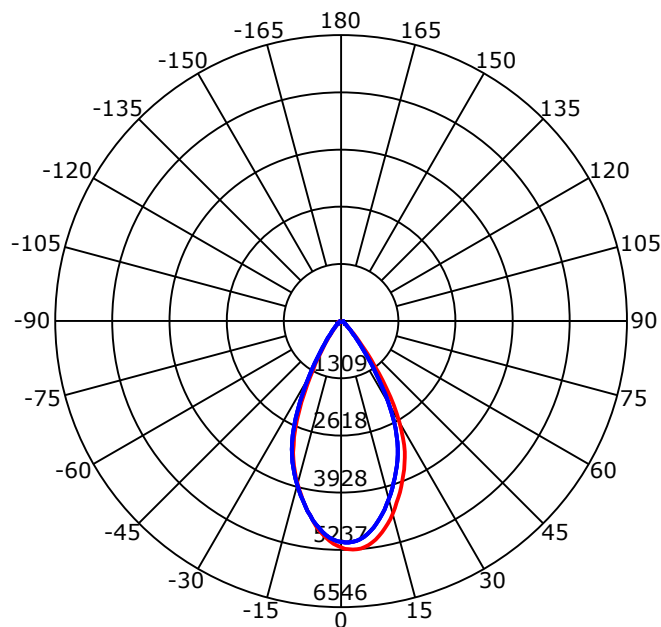
CIE Class: Direct
Luminaire Luminous Flux: 3991.831 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 92.73 lm/W
Beam Angle(50%) C0-180,C90-270: 53.6,52.7
Field Angle(10%) C0-180,C90-270: 79.4,79.1
S/MH C0-180,C90-270: 0.849,0.808

Max. Intensity: 5236.74 cd
Max.Intensity Angle: C=0 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 5179.28 cd
Effective Luminous Flux: 3591.57 lm
ERP(ϕ use)(120deg): 3912.52 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 53.6 deg,52.7 deg

C0-180 — C90-270 —

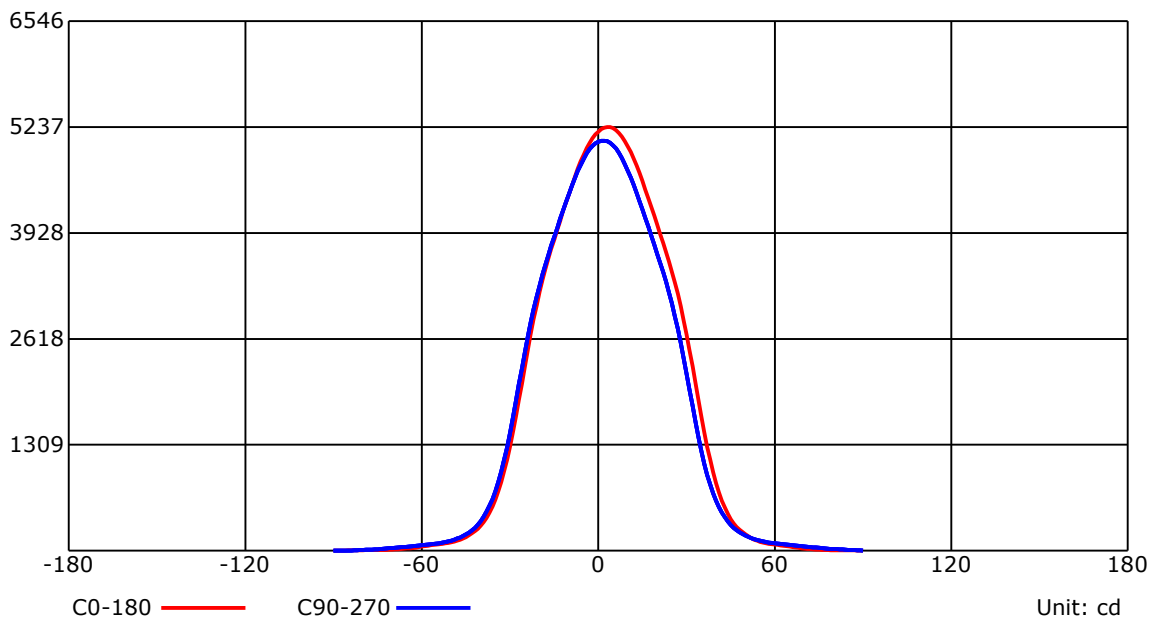
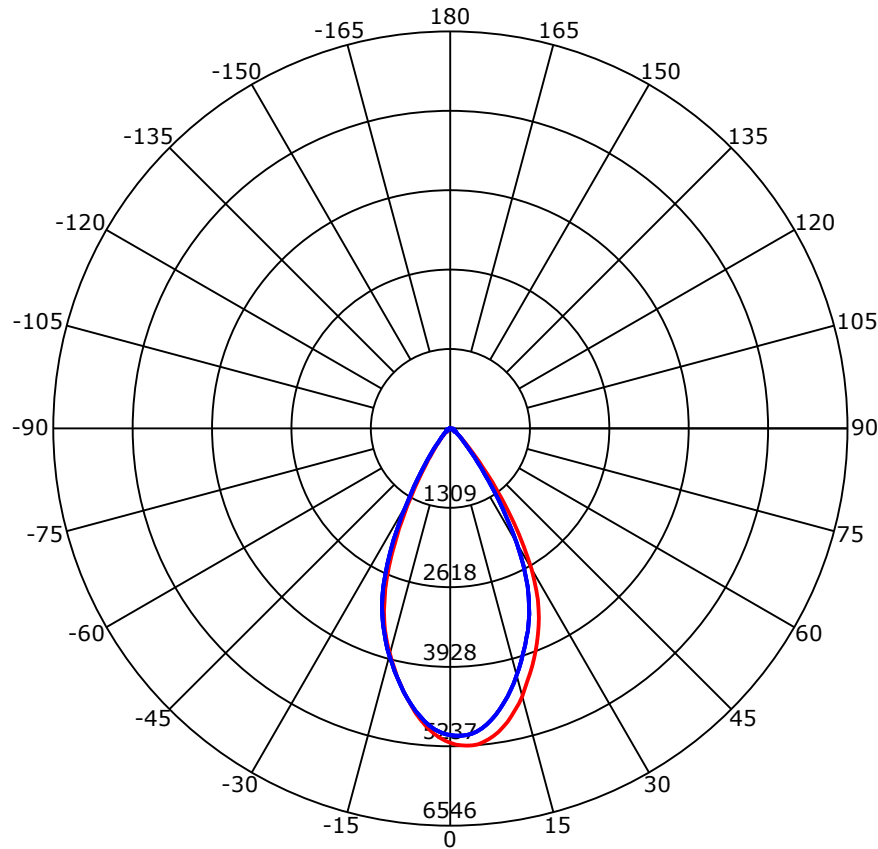
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/8 15:08:03

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



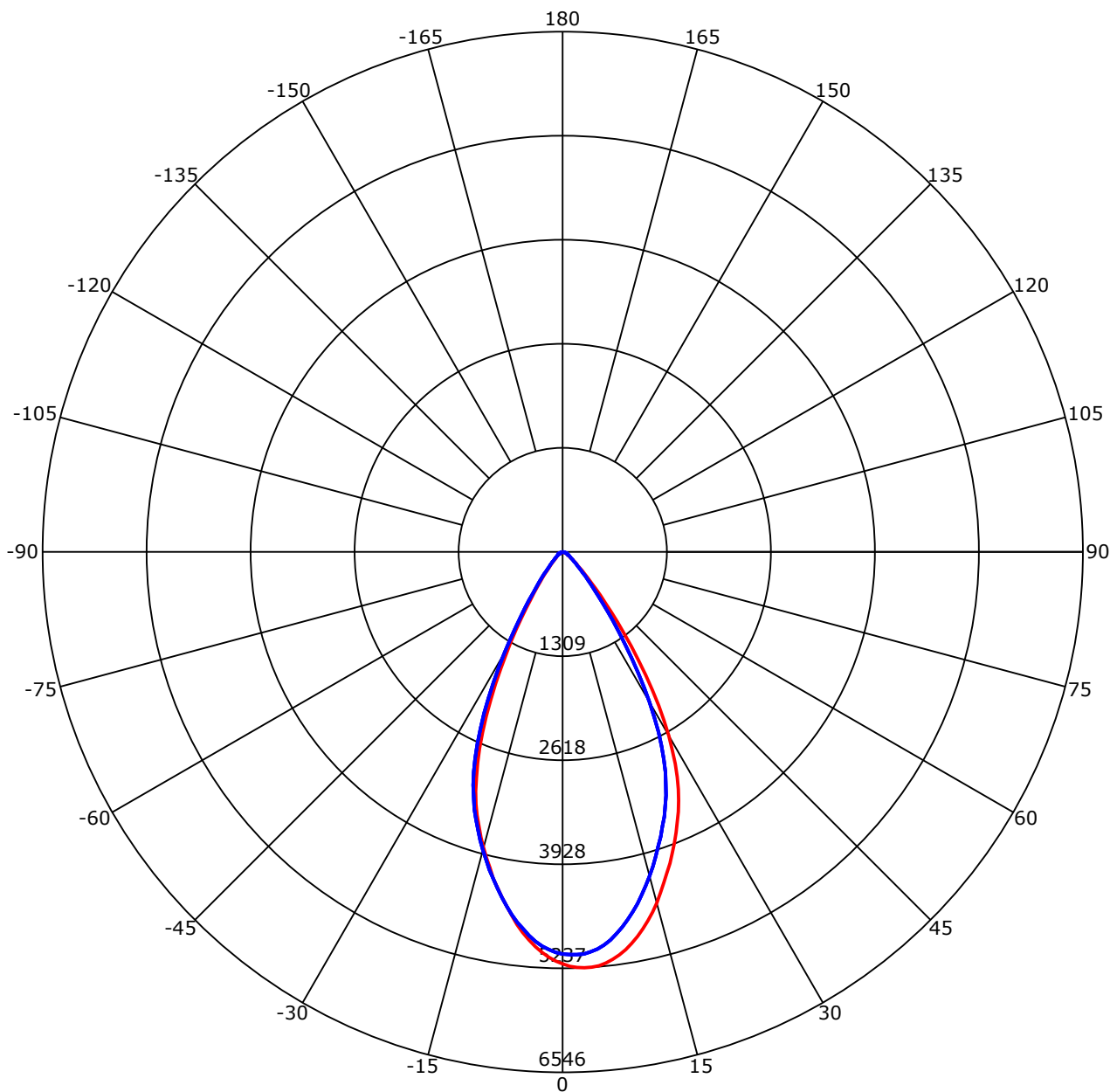
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

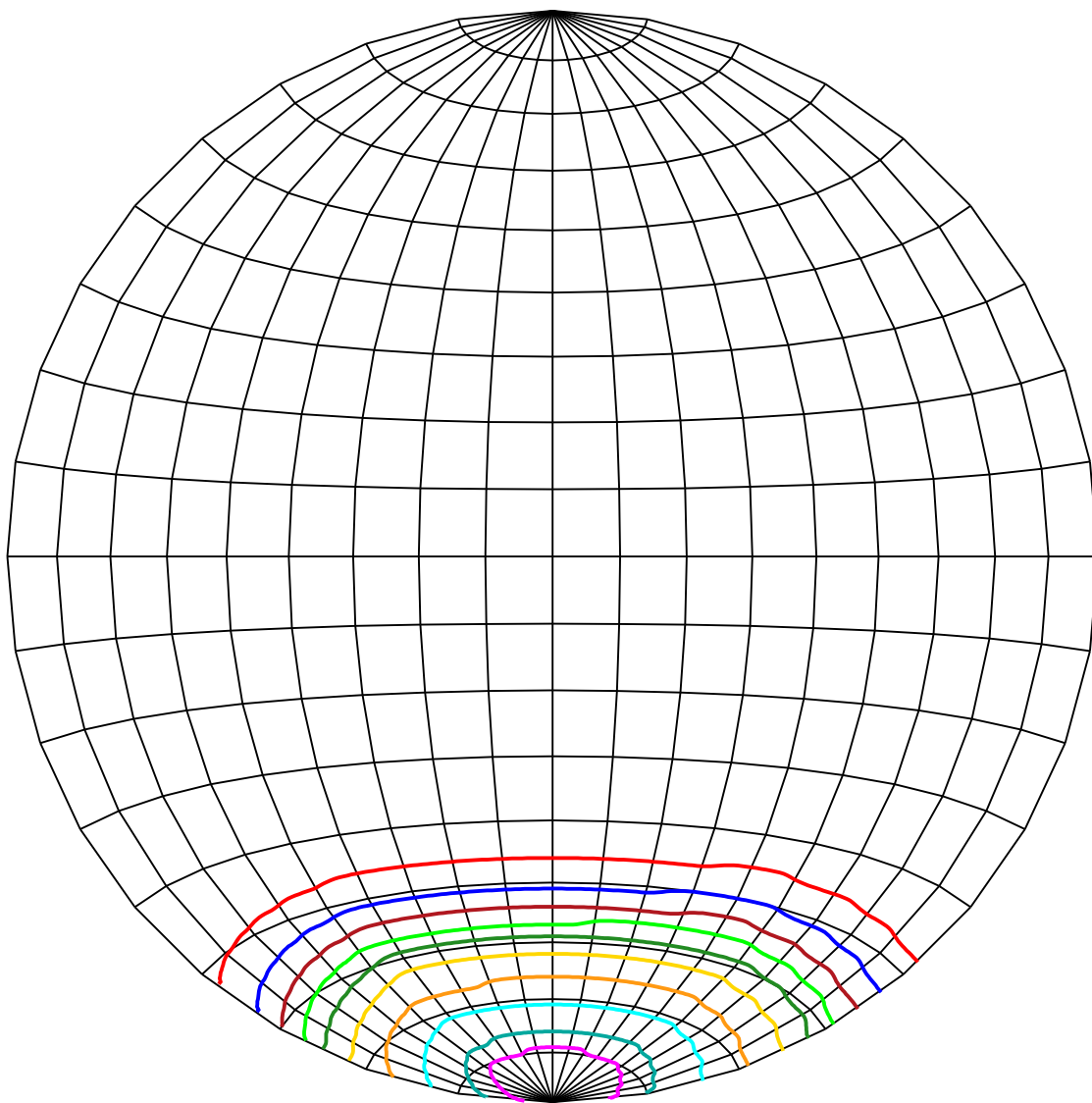
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 5236.743 cd

4974.905(95%I _{max})	2618.371(50%I _{max})
4713.068(90%I _{max})	2094.697(40%I _{max})
4189.394(80%I _{max})	1571.023(30%I _{max})
3665.72(70%I _{max})	1047.349(20%I _{max})
3142.046(60%I _{max})	523.674(10%I _{max})

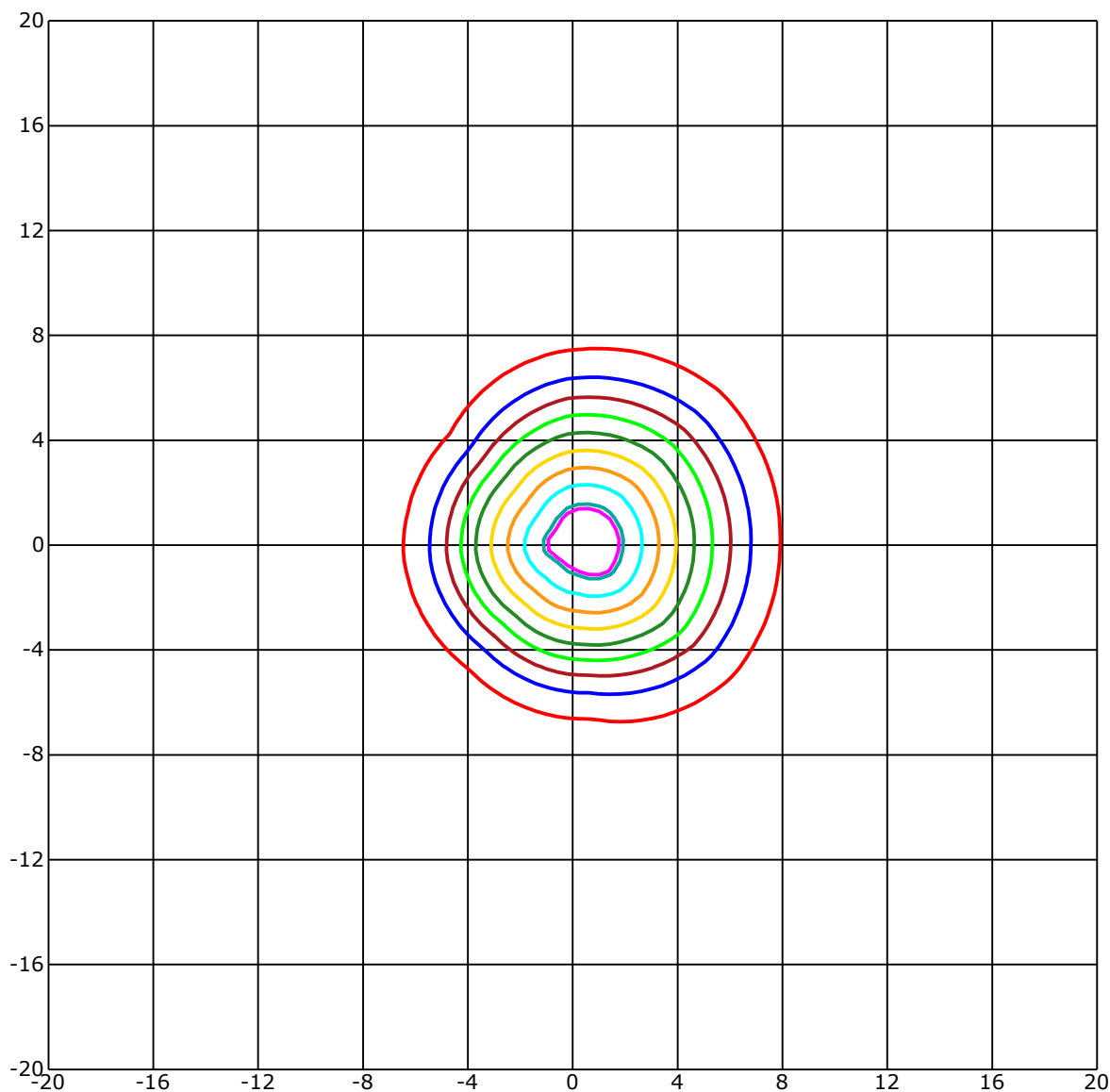
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ISOLX DIAGRAM



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

48.012(92%Emax)	26.093(50%Emax)
46.968(90%Emax)	20.875(40%Emax)
41.749(80%Emax)	15.656(30%Emax)
36.531(70%Emax)	10.437(20%Emax)
31.312(60%Emax)	5.219(10%Emax)

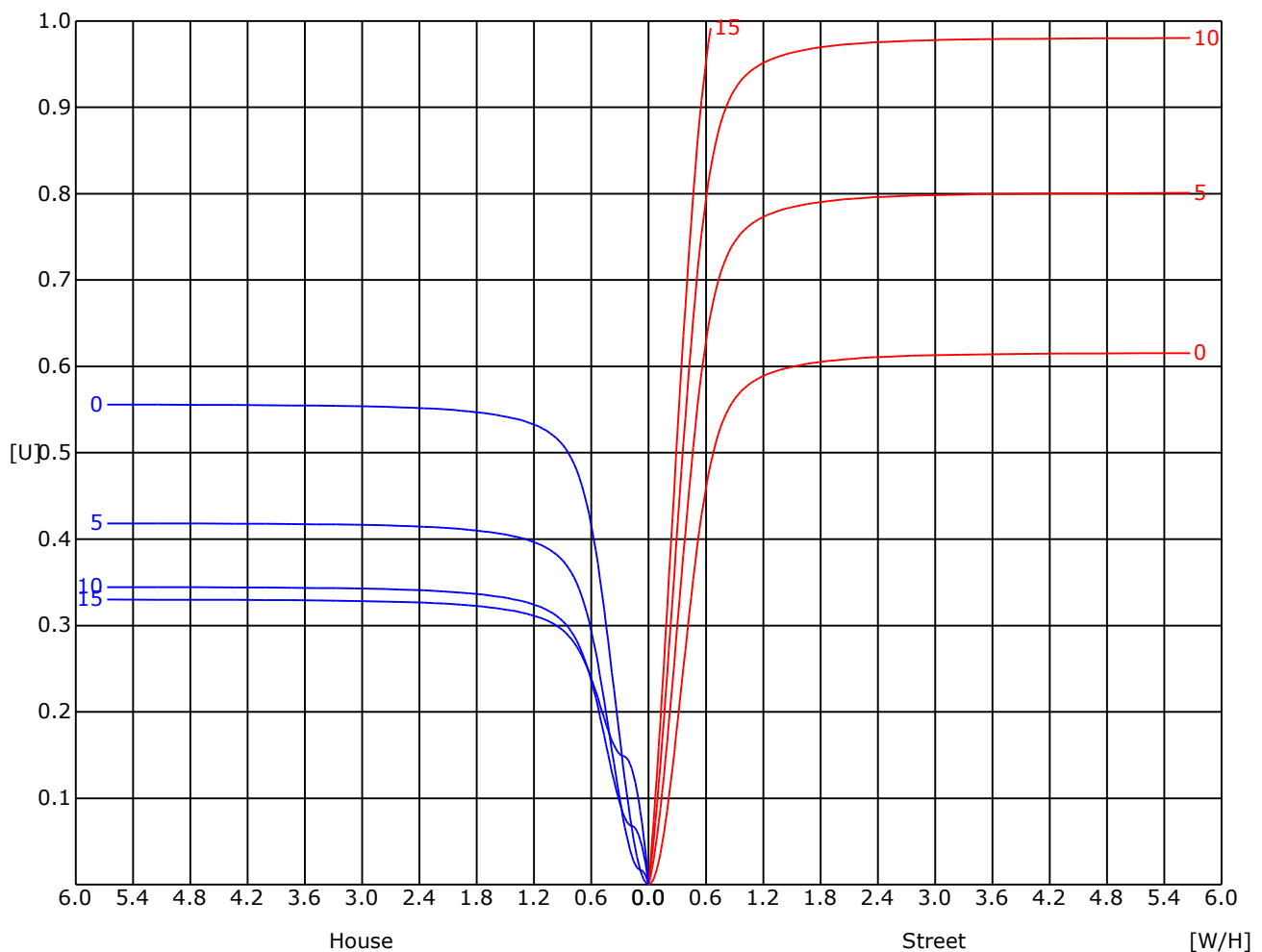
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UTILIZATION FACTOR DIAGRAM (ROAD)



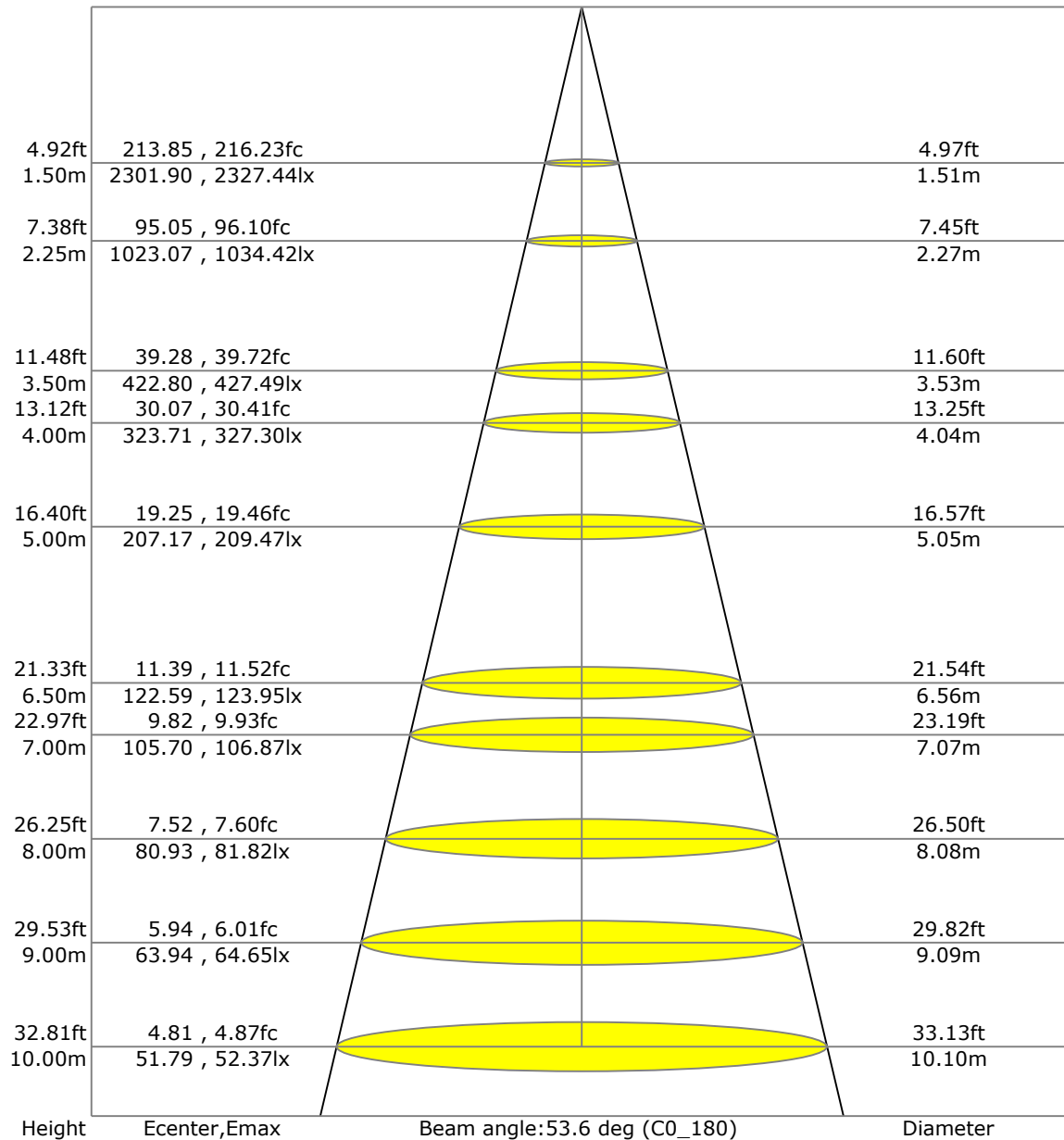
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/10/8 15:08:03

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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	13.30	13.35	13.50	13.54	13.78	13.30	13.35	13.50	13.53	13.78
3H	13.29	13.34	13.50	13.53	13.78	13.28	13.33	13.49	13.53	13.77
4H	13.28	13.33	13.49	13.52	13.77	13.27	13.32	13.48	13.51	13.76
6H	13.26	13.31	13.47	13.51	13.76	13.25	13.30	13.46	13.50	13.75
8H	13.25	13.30	13.47	13.50	13.76	13.24	13.29	13.46	13.49	13.75
12H	13.24	13.29	13.46	13.50	13.75	13.23	13.28	13.45	13.49	13.74
4H 2H	13.41	13.46	13.62	13.66	13.91	13.50	13.56	13.72	13.75	14.00
3H	13.41	13.47	13.64	13.67	13.93	13.51	13.56	13.73	13.77	14.02
4H	13.40	13.45	13.63	13.66	13.92	13.49	13.55	13.72	13.76	14.02
6H	13.38	13.43	13.62	13.65	13.91	13.47	13.52	13.71	13.74	14.00
8H	13.37	13.42	13.61	13.64	13.91	13.46	13.51	13.70	13.73	14.00
12H	13.35	13.40	13.60	13.63	13.90	13.44	13.49	13.69	13.72	13.99
8H 4H	13.39	13.44	13.61	13.65	13.90	13.53	13.58	13.75	13.79	14.04
6H	13.36	13.40	13.61	13.64	13.91	13.51	13.55	13.76	13.79	14.06
8H	13.34	13.39	13.60	13.63	13.91	13.49	13.54	13.76	13.78	14.06
12H	13.33	13.37	13.60	13.62	13.90	13.48	13.52	13.75	13.77	14.05
12H 4H	13.37	13.42	13.62	13.65	13.92	13.54	13.59	13.79	13.82	14.09
6H	13.35	13.39	13.61	13.64	13.91	13.52	13.56	13.78	13.81	14.08

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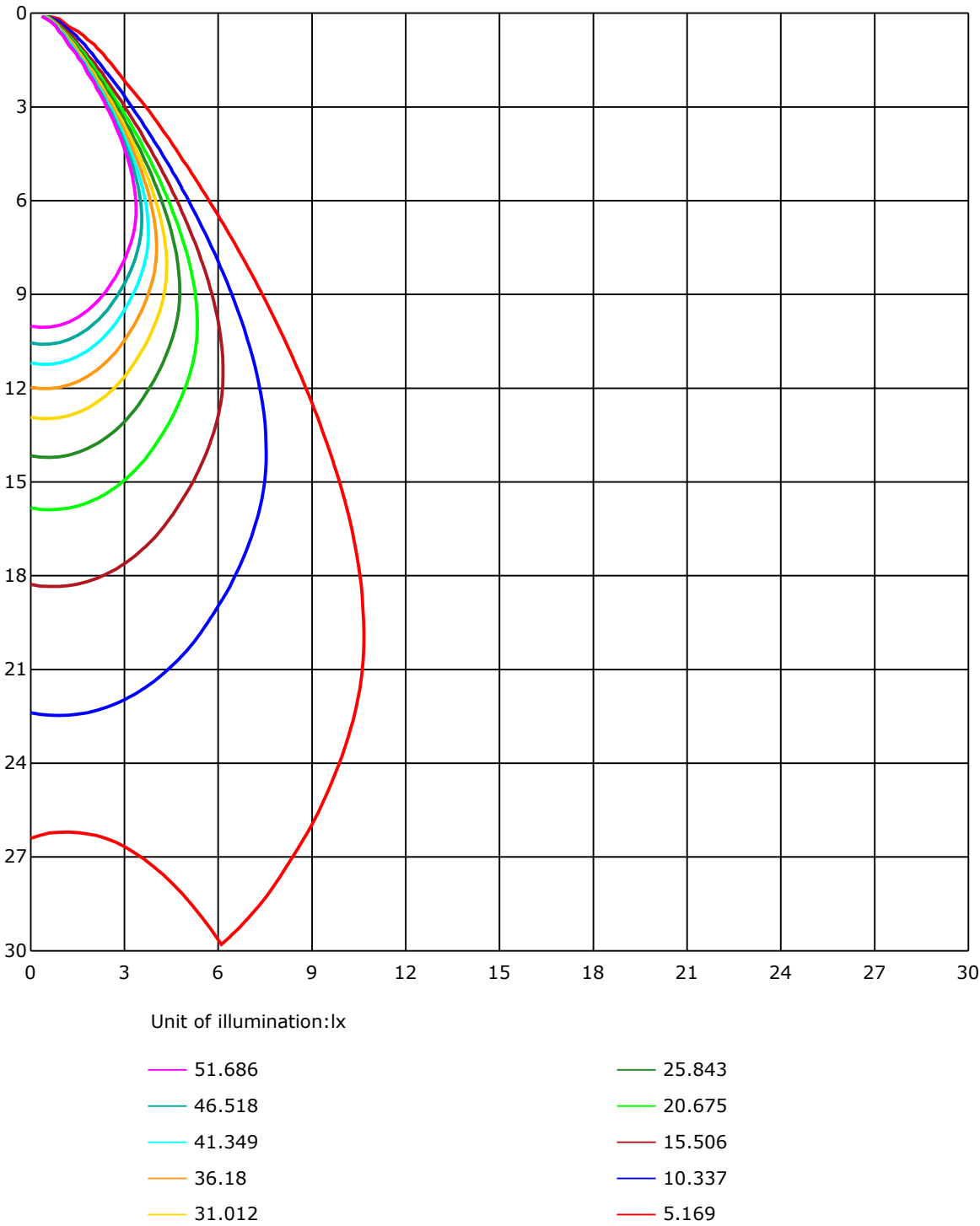
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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
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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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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	5179.28	5019.24	5056.06	5114.64	5179.28	5019.24	5056.06	5114.64	5179.28	
G1	5213.88	5061.63	5065.89	5072.66	5145.66	4969.43	5036.58	5143.16	5213.88	
G2	5228.21	5087.74	5068.17	5027.59	5097.43	4913.92	5005.0	5164.77	5228.21	
G3	5236.74	5109.67	5062.79	4962.8	5039.6	4850.38	4964.05	5173.07	5236.74	
G4	5235.91	5112.83	5042.43	4891.61	4974.02	4775.86	4911.83	5172.51	5235.91	
G5	5224.73	5114.4	5012.42	4807.44	4897.04	4692.24	4843.61	5158.69	5224.73	
G6	5198.3	5099.79	4971.61	4721.41	4812.63	4598.24	4767.74	5132.58	5198.3	
G7	5162.12	5077.58	4917.03	4626.62	4722.2	4506.32	4694.05	5099.28	5162.12	
G8	5116.91	5045.4	4852.52	4527.75	4617.81	4407.12	4604.45	5060.98	5116.91	
G9	5063.39	5004.21	4779.61	4423.45	4511.61	4300.18	4511.24	5000.78	5063.39	
G10	4998.46	4949.44	4699.75	4316.41	4410.79	4203.11	4413.47	4936.23	4998.46	
G11	4927.23	4888.23	4610.29	4208.03	4298.42	4083.6	4308.9	4861.84	4927.23	
G12	4846.02	4819.36	4521.25	4103.45	4198.85	3978.05	4202.14	4778.45	4846.02	
G13	4761.2	4738.71	4423.45	3992.43	4075.39	3869.2	4103.91	4693.96	4761.2	
G14	4669.15	4645.59	4320.77	3873.1	3967.2	3753.03	3985.66	4601.16	4669.15	
G15	4570.5	4554.55	4217.95	3755.17	3848.2	3634.4	3883.4	4500.06	4570.5	
G16	4460.18	4455.44	4113.98	3637.88	3733.69	3511.6	3771.4	4402.39	4460.18	
G17	4350.22	4358.01	4002.72	3525.74	3609.27	3373.54	3649.1	4298.55	4350.22	
G18	4245.87	4246.2	3889.47	3397.75	3484.0	3239.23	3533.63	4190.68	4245.87	
G19	4143.47	4149.92	3784.99	3258.71	3350.16	3080.39	3417.36	4099.46	4143.47	
G20	4032.17	4044.51	3669.56	3110.17	3201.44	2920.03	3277.12	3983.15	4032.17	
G21	3918.92	3925.74	3563.96	2944.84	3032.67	2745.79	3142.26	3866.84	3918.92	
G22	3805.3	3822.32	3444.31	2771.62	2863.68	2565.16	2986.06	3751.46	3805.3	
G23	3689.68	3711.76	3325.21	2582.55	2681.1	2372.88	2823.33	3639.41	3689.68	
G24	3574.16	3601.06	3188.96	2382.2	2479.78	2176.43	2643.99	3523.7	3574.16	
G25	3450.1	3483.17	3058.92	2176.01	2275.4	1977.25	2454.55	3408.23	3450.1	
G26	3321.32	3372.19	2901.57	1965.09	2068.47	1782.6	2257.5	3282.83	3321.32	
G27	3175.46	3239.09	2740.6	1759.14	1860.52	1582.4	2059.15	3149.26	3175.46	
G28	3019.92	3095.79	2563.76	1557.82	1659.57	1399.35	1852.96	2988.94	3019.92	
G29	2844.52	2936.44	2377.56	1373.06	1471.7	1226.97	1654.28	2826.81	2844.52	
G30	2671.22	2778.62	2185.15	1197.62	1295.1	1065.54	1463.95	2647.57	2671.22	
G31	2477.32	2592.93	1991.81	1041.7	1133.71	922.79	1288.61	2455.75	2477.32	
G32	2279.01	2405.25	1791.23	900.07	983.78	799.11	1125.64	2260.0	2279.01	
G33	2071.02	2200.5	1593.3	777.59	849.7	690.49	980.34	2052.7	2071.02	
G34	1865.15	2008.46	1407.65	674.03	735.66	598.67	850.63	1846.88	1865.15	
G35	1661.56	1810.66	1235.46	584.39	634.7	517.74	737.24	1643.2	1661.56	
G36	1468.5	1618.57	1078.11	508.37	546.82	450.54	639.9	1451.25	1468.5	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1285.92	1438.45	938.14	444.19	469.74	394.66	555.03	1273.91	1285.92	
G38	1123.18	1273.3	816.27	389.79	405.98	347.26	482.03	1109.73	1123.18	
G39	970.61	1109.87	709.55	342.49	352.37	308.22	419.66	963.09	970.61	
G40	836.35	967.08	618.05	302.93	308.49	274.04	366.56	832.45	836.35	
G41	719.8	839.55	538.57	270.0	271.53	246.4	320.46	721.89	719.8	
G42	619.82	727.83	470.95	241.34	241.02	222.65	282.52	623.16	619.82	
G43	531.1	631.04	413.35	218.39	213.84	202.8	251.36	541.53	531.1	
G44	454.81	546.03	362.75	196.87	190.14	185.41	224.6	471.32	454.81	
G45	390.3	474.66	319.44	179.99	168.44	169.83	202.01	411.31	390.3	
G46	338.55	415.44	283.5	164.87	150.58	156.43	182.4	361.18	338.55	
G47	295.14	364.24	254.05	151.88	134.63	144.42	165.28	320.46	295.14	
G48	260.22	322.08	228.12	140.8	122.25	134.21	150.35	285.03	260.22	
G49	229.19	285.82	206.65	131.24	111.58	124.84	136.81	256.04	229.19	
G50	202.25	255.35	187.64	122.11	103.19	116.54	124.89	231.56	202.25	
G51	178.22	229.38	171.36	113.85	96.56	108.57	115.62	210.32	178.22	
G52	156.47	207.63	156.8	106.43	90.39	101.7	107.08	192.14	156.47	
G53	137.51	188.94	144.04	99.71	85.7	95.53	100.13	176.74	137.51	
G54	121.88	173.08	133.42	93.45	81.16	89.74	93.96	162.87	121.88	
G55	109.35	158.79	124.01	87.93	76.2	84.27	88.81	151.14	109.35	
G56	99.48	146.5	115.01	82.41	71.33	79.26	84.22	140.84	99.48	
G57	91.5	135.74	108.1	77.26	66.41	74.43	79.91	131.34	91.5	
G58	85.24	126.33	101.8	72.35	61.59	70.21	75.96	122.66	85.24	
G59	79.86	117.38	96.6	67.57	56.76	65.02	72.02	115.29	79.86	
G60	75.08	109.4	91.59	62.84	51.11	60.43	68.27	108.1	75.08	
G61	70.49	102.21	87.0	58.43	43.92	55.7	64.79	102.12	70.49	
G62	66.09	95.58	82.64	53.98	38.31	50.83	60.85	95.81	66.09	
G63	61.17	89.37	78.65	49.44	33.99	45.59	56.76	90.39	61.17	
G64	56.58	83.89	74.71	44.61	30.56	40.3	52.59	85.05	56.58	
G65	51.11	78.19	71.05	39.98	27.08	34.64	49.34	80.0	51.11	
G66	44.85	73.41	67.2	35.06	23.93	29.96	45.87	74.85	44.85	
G67	40.12	68.31	62.42	30.56	21.01	25.97	42.81	69.75	40.12	
G68	35.01	63.4	58.48	26.02	18.32	22.68	39.7	64.65	35.01	
G69	29.17	58.57	55.05	21.75	15.63	19.66	36.73	59.73	29.17	
G70	25.14	54.12	51.99	18.13	13.4	17.07	33.85	54.68	25.14	
G71	21.89	49.07	48.23	15.4	11.41	14.33	30.75	49.85	21.89	
G72	18.97	43.73	45.12	12.8	10.39	12.2	27.55	44.15	18.97	
G73	16.14	38.17	42.06	10.39	9.46	10.25	23.93	38.68	16.14	

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