

Report No.:

Test Time: 2024/9/24 18:09:31

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-24°-25W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 75 mm

Voltage(V): 219.80 V
Current(A): 0.1120 A
Power(W): 23.77 W
Power Factor: 0.9600
Lamp Luminous Flux: 2295.76

Photometric Results

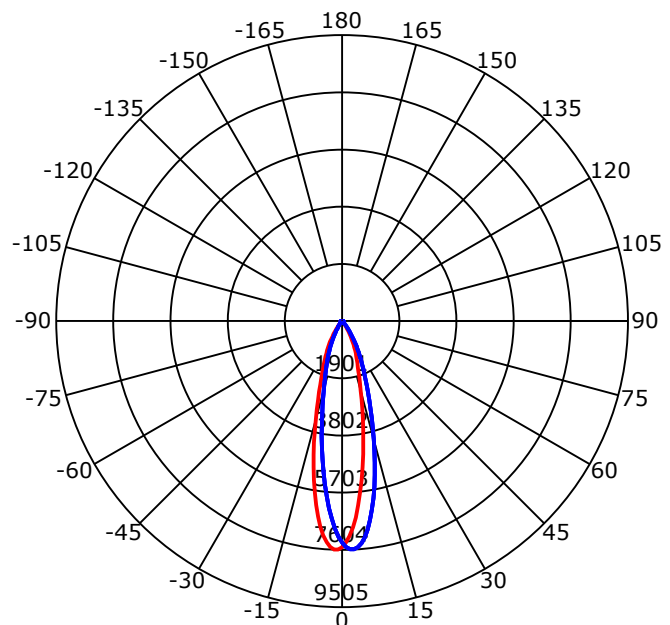
CIE Class: Direct
Luminaire Luminous Flux: 2295.762 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 96.58 lm/W
Beam Angle(50%) C0-180,C90-270: 24.6,26.0
Field Angle(10%) C0-180,C90-270: 57.6,58.0
S/MH C0-180,C90-270: 0.425,0.462

Max. Intensity: 7603.69 cd
Max.Intensity Angle: C=135 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 7514.55 cd
Effective Luminous Flux: 1925.81 lm
ERP(ϕ use)(120deg): 2264.49 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 24.6 deg,26.0 deg

C0-180 — C90-270 —

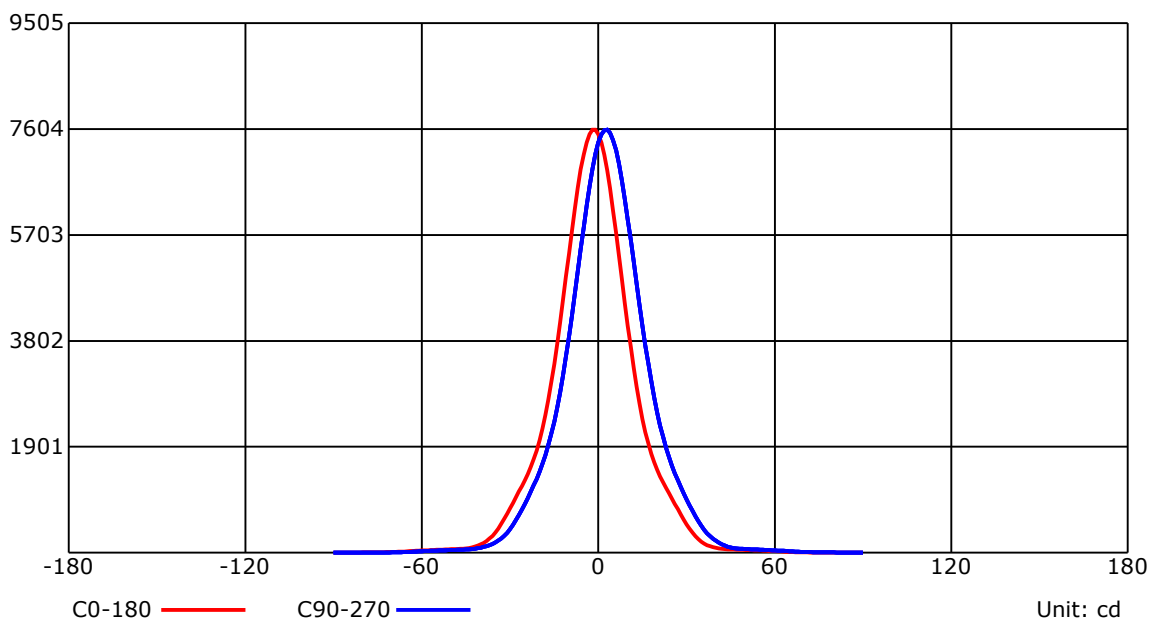
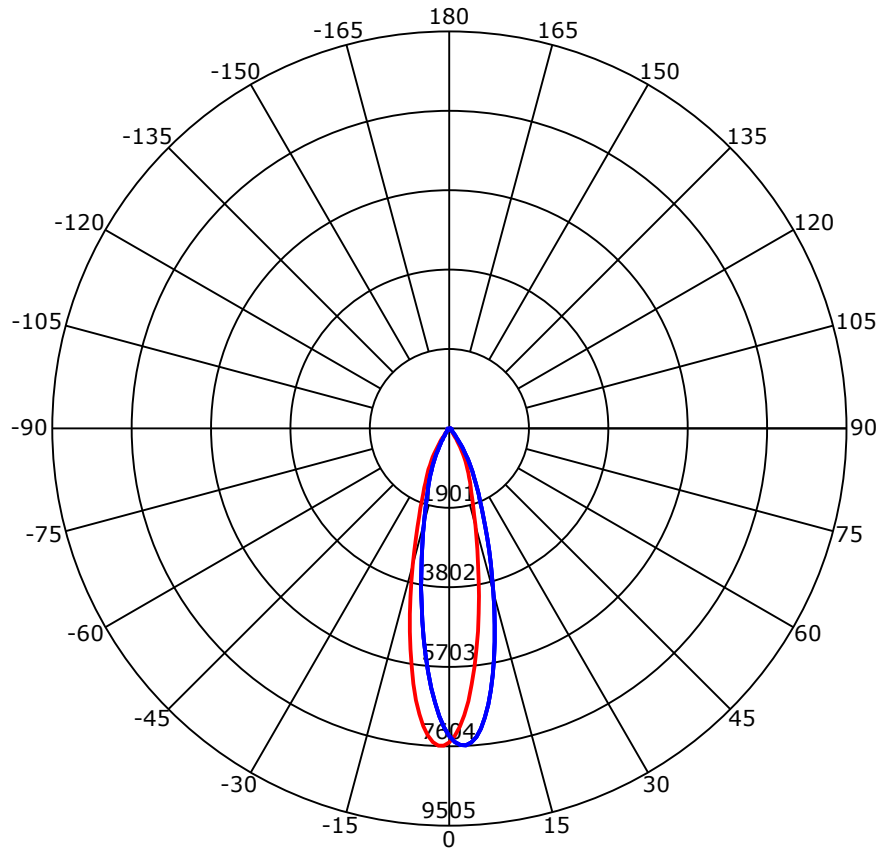
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/24 18:09:31

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



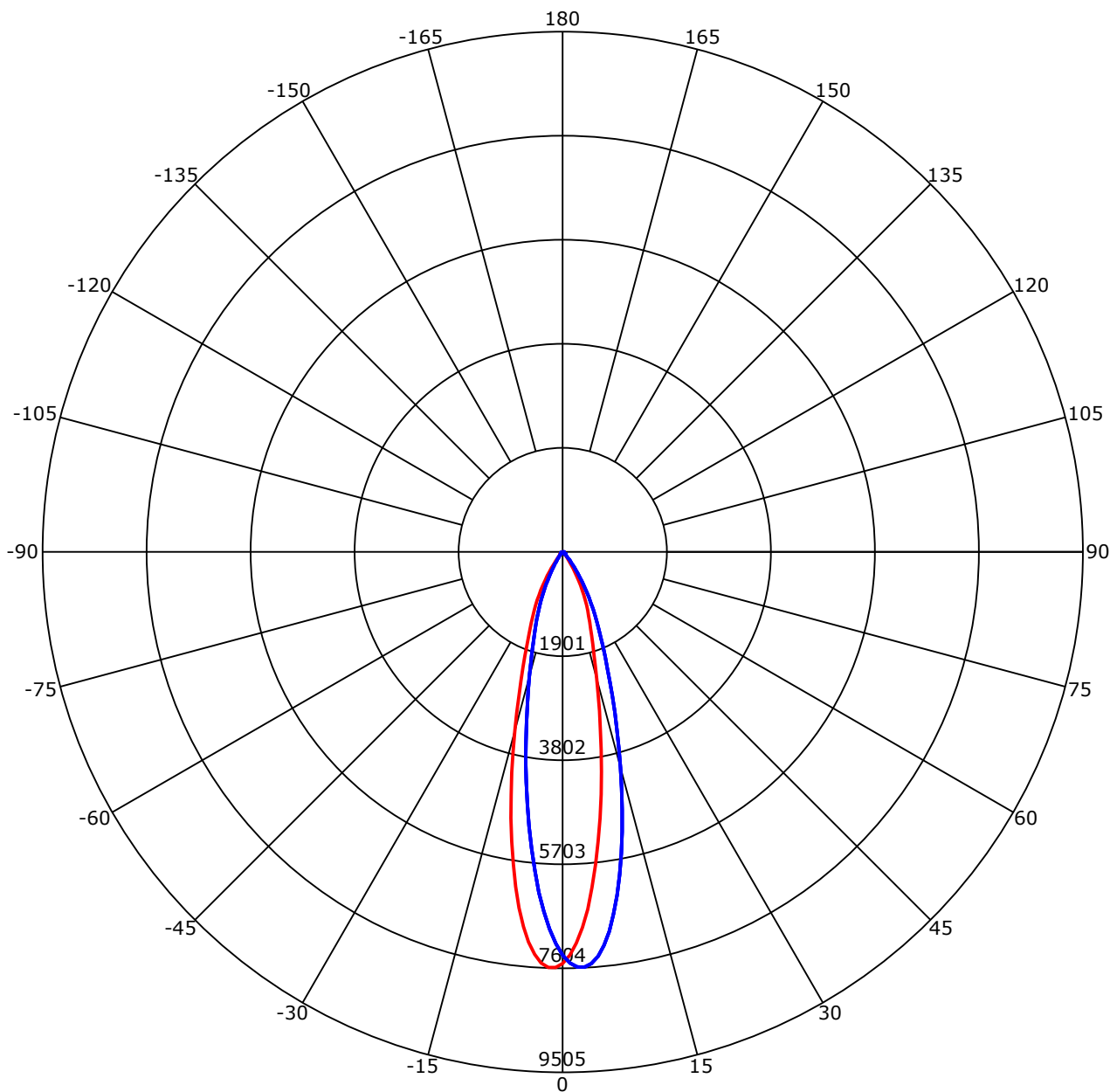
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

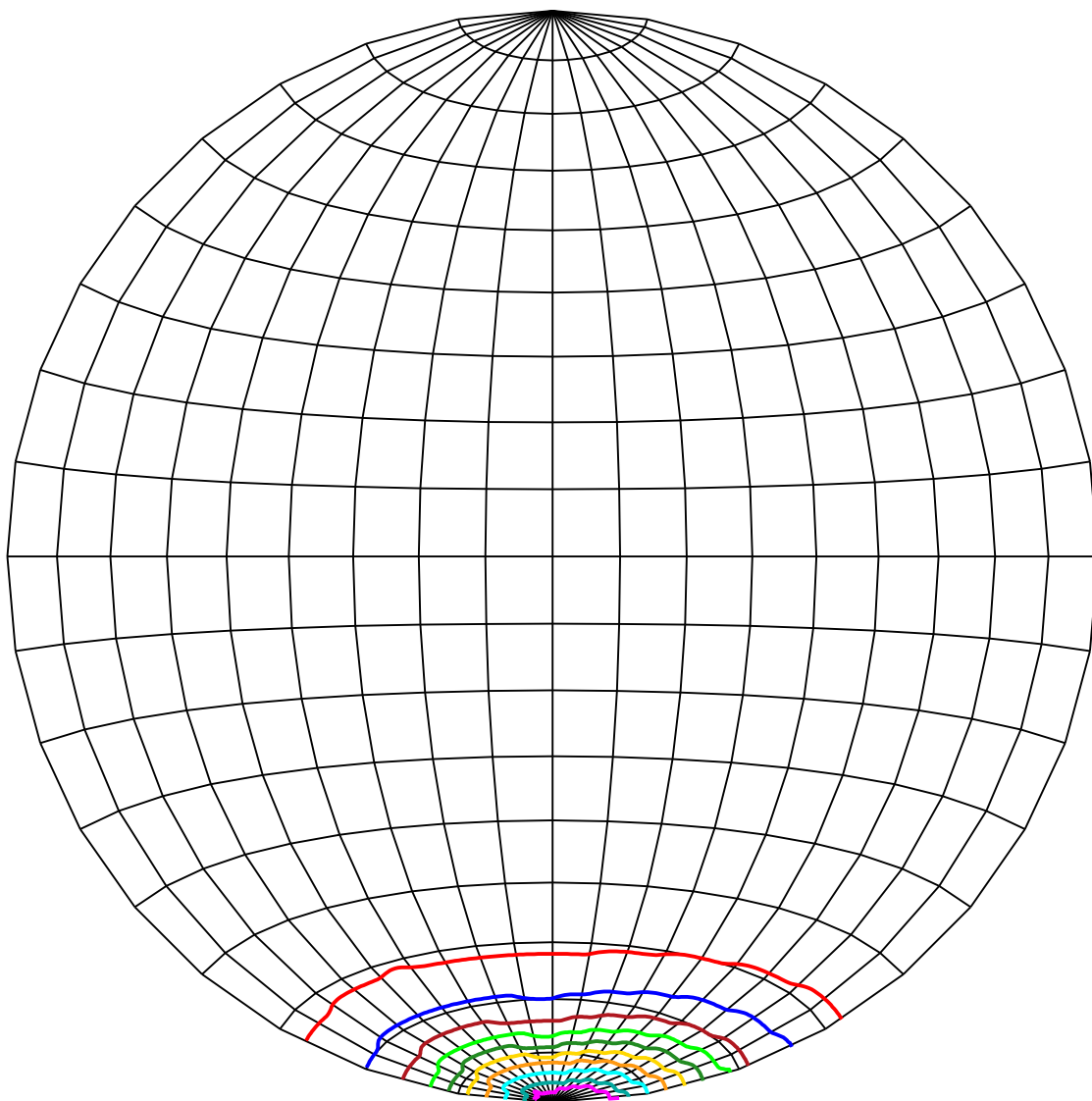
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 7603.686 cd

7223.501(95%I _{max})	3801.843(50%I _{max})
6843.317(90%I _{max})	3041.474(40%I _{max})
6082.949(80%I _{max})	2281.106(30%I _{max})
5322.58(70%I _{max})	1520.737(20%I _{max})
4562.212(60%I _{max})	760.369(10%I _{max})

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Humidity: 60

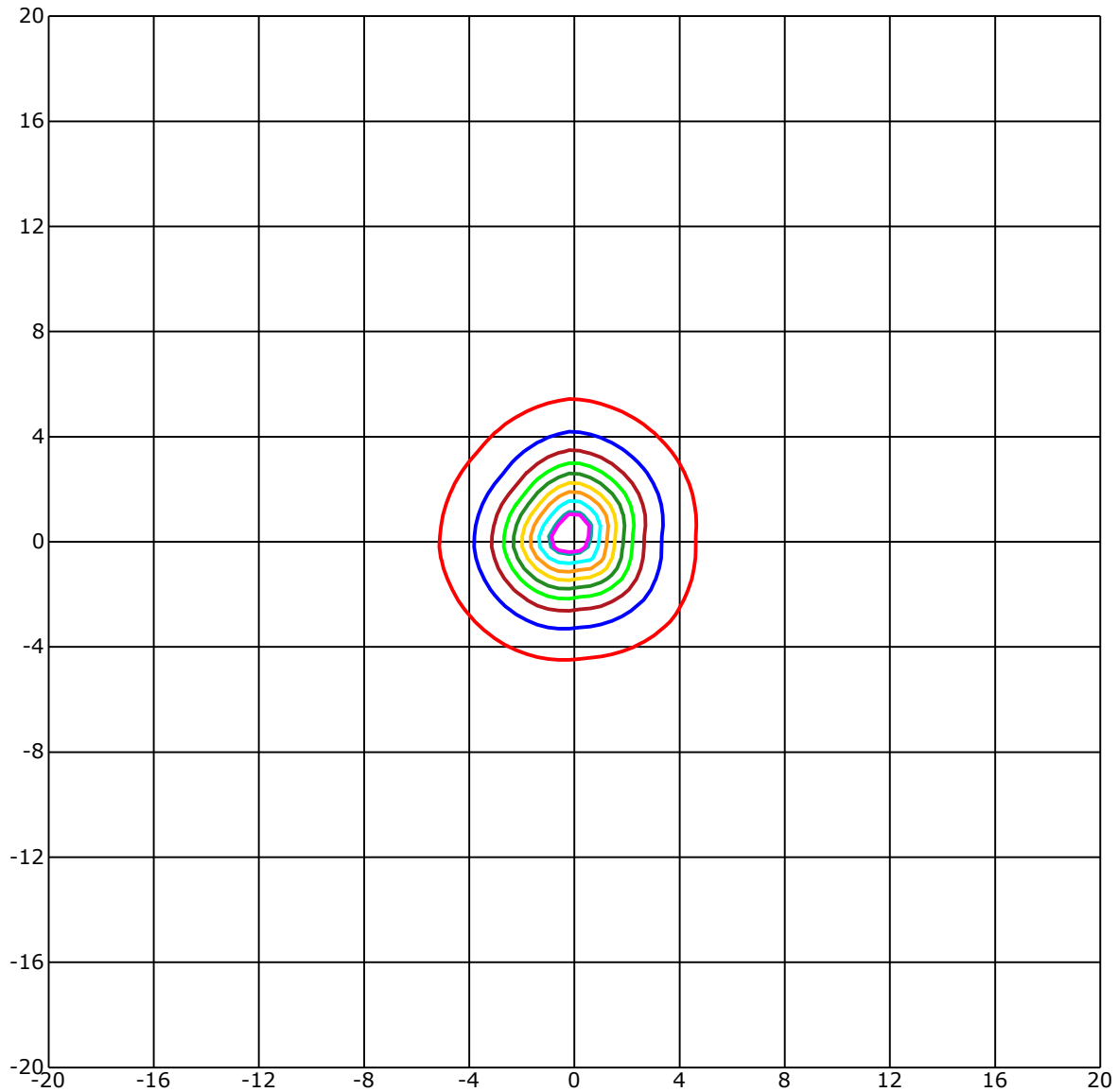
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ISOLX DIAGRAM



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

69.922(92%Emax)	38.001(50%Emax)
68.402(90%Emax)	30.401(40%Emax)
60.802(80%Emax)	22.801(30%Emax)
53.201(70%Emax)	15.2(20%Emax)
45.601(60%Emax)	7.6(10%Emax)

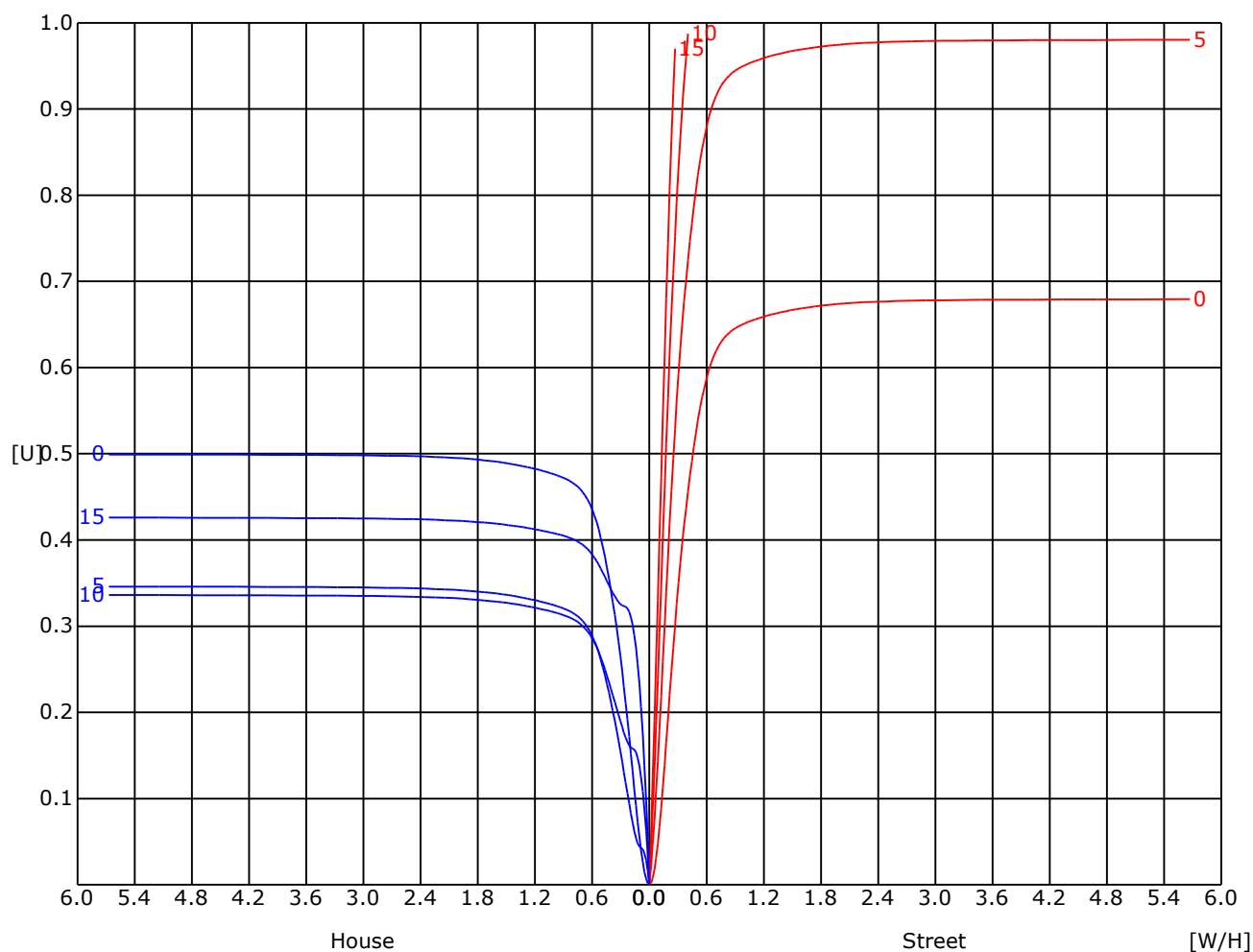
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UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg

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Test Speed: High

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

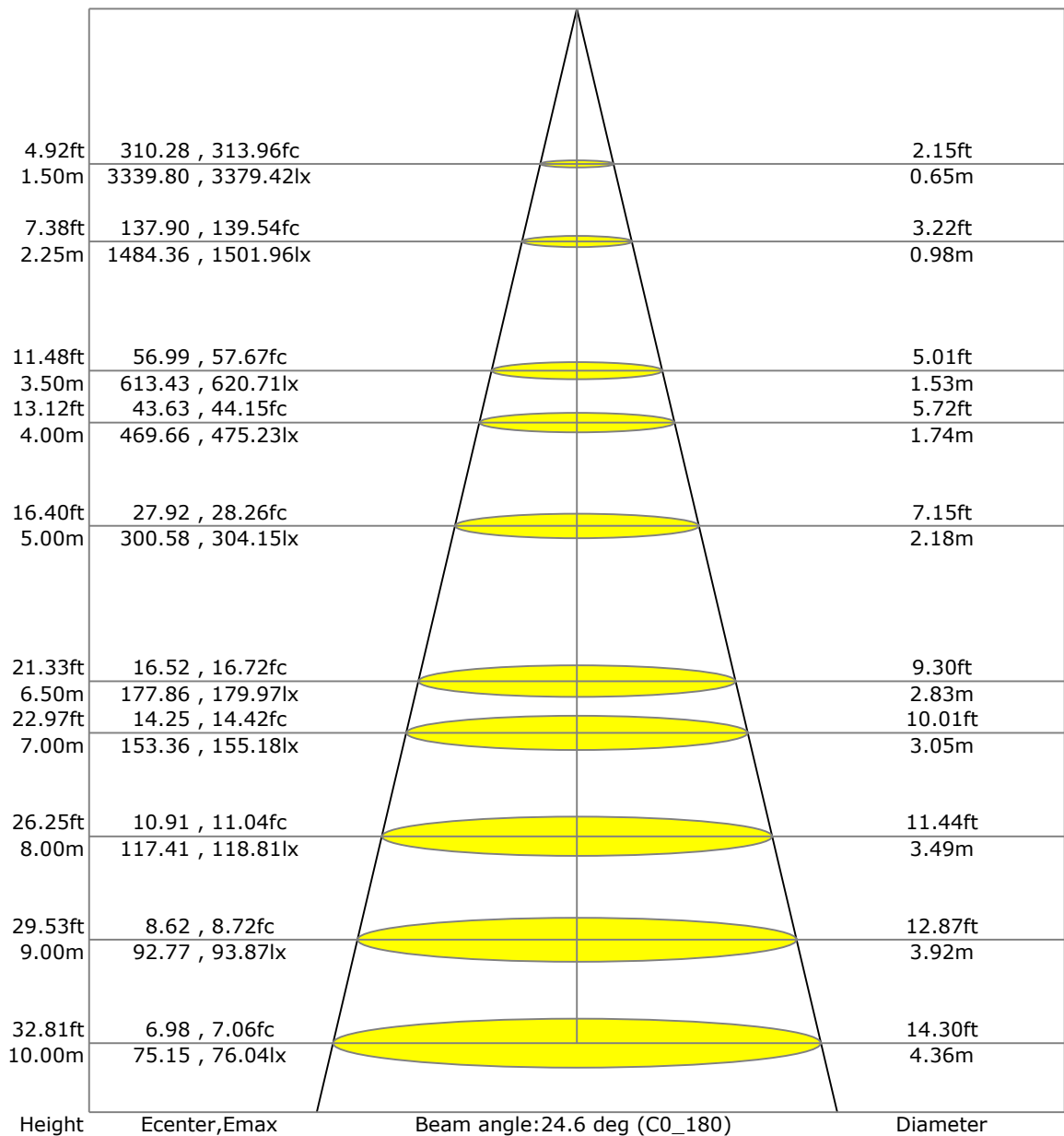
Test Distance: 6.81 m

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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G Interval: 1.0 Deg

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Humidity: 60

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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	9.83	9.89	10.03	10.08	10.32	10.07	10.13	10.27	10.31	10.56
	3H	9.84	9.90	10.05	10.09	10.34	10.07	10.13	10.27	10.32	10.56
	4H	9.83	9.89	10.04	10.09	10.33	10.05	10.11	10.27	10.31	10.56
	6H	9.82	9.87	10.03	10.08	10.33	10.04	10.10	10.25	10.30	10.55
	8H	9.81	9.87	10.03	10.07	10.32	10.03	10.09	10.25	10.29	10.54
	12H	9.80	9.86	10.02	10.06	10.32	10.02	10.08	10.24	10.29	10.54
4H	2H	10.04	10.10	10.26	10.30	10.55	10.50	10.56	10.71	10.76	11.01
	3H	10.06	10.12	10.29	10.33	10.58	10.51	10.57	10.73	10.78	11.03
	4H	10.05	10.11	10.28	10.32	10.58	10.49	10.55	10.72	10.76	11.02
	6H	10.03	10.09	10.27	10.31	10.57	10.47	10.53	10.71	10.75	11.01
	8H	10.02	10.08	10.26	10.30	10.57	10.46	10.52	10.70	10.74	11.01
	12H	10.01	10.06	10.25	10.29	10.56	10.45	10.50	10.70	10.73	11.00
8H	4H	10.03	10.09	10.25	10.29	10.54	10.52	10.58	10.74	10.79	11.04
	6H	10.01	10.06	10.26	10.30	10.57	10.50	10.55	10.75	10.79	11.06
	8H	9.99	10.04	10.25	10.29	10.57	10.48	10.53	10.75	10.78	11.06
	12H	9.98	10.03	10.25	10.28	10.56	10.47	10.52	10.74	10.77	11.05
12H	4H	10.02	10.07	10.27	10.31	10.58	10.54	10.60	10.79	10.83	11.10
	6H	9.99	10.04	10.25	10.29	10.57	10.52	10.57	10.78	10.82	11.10

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ZONAL LUMINOUS FLUX TABLE

[illegible]

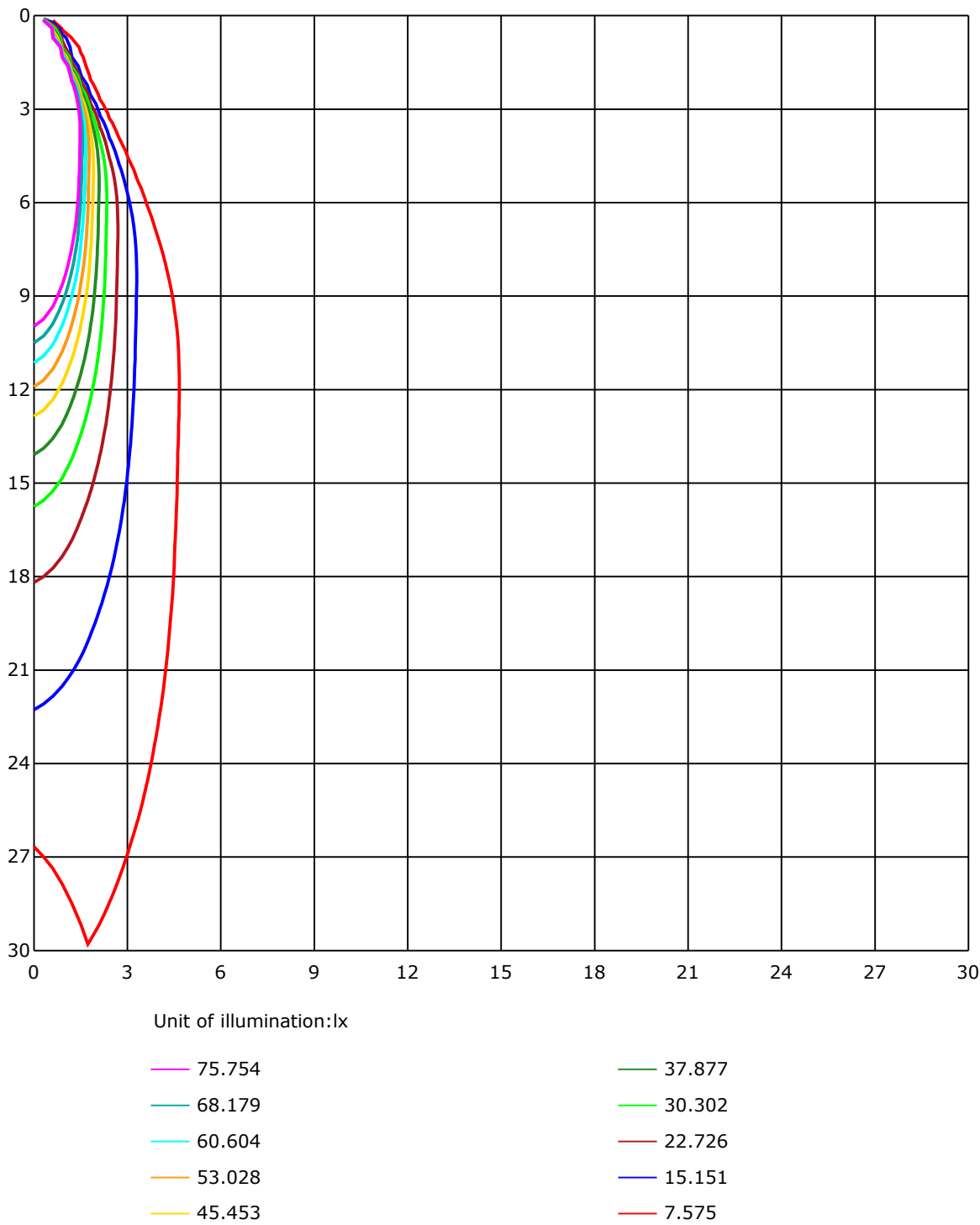
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SPACE ISOLX DIAGRAM



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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	7514.55	7490.44	7361.33	7556.01	7514.55	7490.44	7361.33	7556.01	7514.55	
G1	7364.25	7520.12	7505.79	7603.69	7591.4	7397.22	7155.28	7430.56	7364.25	
G2	7146.79	7479.03	7582.63	7576.09	7593.3	7239.17	6886.53	7237.83	7146.79	
G3	6868.81	7374.54	7595.06	7473.04	7514.88	7018.79	6576.08	6994.4	6868.81	
G4	6539.59	7202.16	7535.42	7302.8	7364.39	6741.14	6231.74	6696.29	6539.59	
G5	6150.58	6968.89	7409.51	7063.64	7150.08	6423.46	5843.48	6354.36	6150.58	
G6	5735.43	6677.97	7224.89	6764.28	6879.48	6074.62	5442.14	5975.47	5735.43	
G7	5323.47	6346.8	6978.95	6414.97	6549.56	5699.95	5049.43	5572.04	5323.47	
G8	4906.31	5976.91	6677.79	6031.77	6173.77	5314.47	4651.29	5167.09	4906.31	
G9	4479.33	5589.43	6344.3	5625.05	5777.02	4920.13	4253.15	4749.38	4479.33	
G10	4074.84	5191.62	5985.25	5208.27	5368.59	4521.76	3883.44	4336.81	4074.84	
G11	3688.99	4799.88	5612.71	4785.64	4953.01	4145.28	3520.09	3951.24	3688.99	
G12	3316.36	4408.1	5223.02	4369.83	4538.37	3775.71	3182.05	3582.51	3316.36	
G13	2977.86	4035.56	4828.91	3975.27	4135.82	3428.96	2875.83	3246.14	2977.86	
G14	2678.64	3672.01	4446.31	3589.97	3746.49	3113.18	2603.32	2933.94	2678.64	
G15	2399.82	3316.22	4074.05	3238.49	3385.36	2814.33	2349.92	2647.24	2399.82	
G16	2163.82	3003.27	3719.5	2910.94	3045.52	2547.67	2129.03	2392.96	2163.82	
G17	1954.15	2717.55	3384.06	2620.11	2742.27	2304.48	1931.52	2165.63	1954.15	
G18	1769.57	2450.98	3078.26	2356.6	2471.89	2091.75	1749.72	1961.71	1769.57	
G19	1620.06	2218.35	2780.2	2128.52	2231.34	1902.77	1596.68	1788.96	1620.06	
G20	1487.42	2012.86	2517.57	1928.69	2018.06	1733.49	1455.47	1634.85	1487.42	
G21	1371.9	1835.24	2280.36	1757.14	1834.78	1578.6	1325.34	1501.66	1371.9	
G22	1262.73	1677.19	2077.88	1606.61	1674.83	1443.64	1206.89	1378.9	1262.73	
G23	1165.06	1530.46	1883.01	1476.38	1537.92	1317.59	1090.95	1270.98	1165.06	
G24	1068.04	1398.94	1719.9	1353.26	1411.97	1198.36	980.9	1165.34	1068.04	
G25	972.55	1277.24	1567.1	1241.35	1302.57	1084.18	875.67	1067.07	972.55	
G26	875.86	1161.26	1428.43	1130.65	1196.46	976.73	775.64	965.36	875.86	
G27	781.3	1046.8	1299.13	1026.49	1096.98	871.13	676.58	869.83	781.3	
G28	688.13	939.9	1178.83	922.88	994.91	770.17	586.43	769.8	688.13	
G29	595.61	836.53	1063.45	822.53	894.87	673.06	500.44	674.49	595.61	
G30	507.12	737.47	954.84	722.12	798.18	582.39	424.16	578.54	507.12	
G31	430.23	642.03	850.63	627.28	700.33	496.36	359.55	491.35	430.23	
G32	358.95	552.11	747.58	535.13	603.21	422.39	302.14	413.35	358.95	
G33	296.07	470.95	650.8	452.49	515.93	356.49	254.93	344.48	296.07	
G34	244.22	399.48	563.61	379.22	435.05	299.91	217.09	287.11	244.22	
G35	199.74	335.72	484.17	315.36	365.95	253.17	184.02	239.35	199.74	
G36	164.08	283.78	412.33	261.42	302.88	214.72	157.03	201.23	164.08	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	136.53	239.02	348.33	217.74	253.58	183.51	134.68	170.48	136.53	
G38	115.15	201.92	295.97	181.75	209.2	158.1	117.01	145.95	115.15	
G39	99.11	170.94	251.4	153.88	176.32	137.32	102.12	126.61	99.11	
G40	85.15	146.55	215.46	130.87	149.1	120.49	90.39	111.4	85.15	
G41	74.57	126.61	182.54	113.11	128.28	107.22	79.54	99.85	74.57	
G42	67.89	110.19	152.9	98.97	109.17	96.51	71.0	90.57	67.89	
G43	64.09	97.11	127.12	88.02	94.1	88.07	65.11	83.62	64.09	
G44	60.98	86.91	107.73	79.67	84.13	81.81	60.98	78.56	60.98	
G45	58.76	78.84	94.0	73.51	77.59	76.61	58.11	74.9	58.76	
G46	56.58	73.0	84.36	68.64	73.09	72.9	55.74	71.6	56.58	
G47	54.72	67.71	77.82	65.07	69.89	69.84	53.52	69.29	54.72	
G48	52.68	64.18	73.18	62.51	66.92	67.29	51.52	66.83	52.68	
G49	50.78	61.4	69.19	60.34	64.46	64.93	49.76	64.97	50.78	
G50	48.46	59.36	66.04	58.25	62.05	63.03	47.63	63.07	48.46	
G51	46.84	57.04	63.4	56.44	59.87	61.08	45.96	61.54	46.84	
G52	44.89	55.05	60.89	54.49	57.74	59.18	44.15	59.73	44.89	
G53	42.99	53.05	58.34	52.64	55.7	57.55	42.34	57.69	42.99	
G54	41.04	51.15	56.25	50.74	53.56	55.51	40.25	55.79	41.04	
G55	39.47	49.3	53.84	48.42	51.52	53.38	38.35	53.84	39.47	
G56	37.29	47.07	51.57	46.14	49.11	51.38	36.22	51.76	37.29	
G57	35.06	45.12	49.25	44.24	46.52	49.16	34.09	49.67	35.06	
G58	32.88	43.41	46.61	42.02	44.38	46.56	31.67	46.93	32.88	
G59	30.65	40.76	44.1	39.74	42.25	43.96	29.36	44.66	30.65	
G60	28.06	38.45	41.55	37.52	39.7	41.51	26.85	42.48	28.06	
G61	25.46	35.99	38.72	35.25	37.19	38.96	24.49	40.02	25.46	
G62	22.45	33.62	36.08	32.56	34.55	36.41	21.61	37.38	22.45	
G63	18.83	30.93	33.25	30.1	31.86	33.76	17.67	34.69	18.83	
G64	15.35	28.29	30.33	27.45	28.85	30.84	14.89	32.05	15.35	
G65	13.36	25.83	27.04	24.86	25.32	28.06	12.99	29.12	13.36	
G66	11.64	22.86	22.72	22.03	21.56	25.18	11.27	26.25	11.64	
G67	9.97	20.03	19.8	19.15	19.11	22.26	9.65	23.42	9.97	
G68	8.39	17.39	17.76	16.42	17.11	19.43	8.25	20.68	8.39	
G69	7.0	14.33	15.77	13.54	15.26	16.65	6.82	17.58	7.0	
G70	5.75	11.64	14.05	10.81	13.59	14.47	5.52	15.16	5.75	
G71	4.68	9.51	12.29	9.09	12.01	12.75	4.31	13.4	4.68	
G72	3.62	7.98	10.71	7.51	10.3	11.18	3.34	11.78	3.62	
G73	2.78	6.68	9.28	6.21	8.9	9.88	2.55	10.34	2.78	

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