

Report No.:

Test Time: 2024/5/23 15:31:29

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT075H74-38°-10.7W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 71 mm

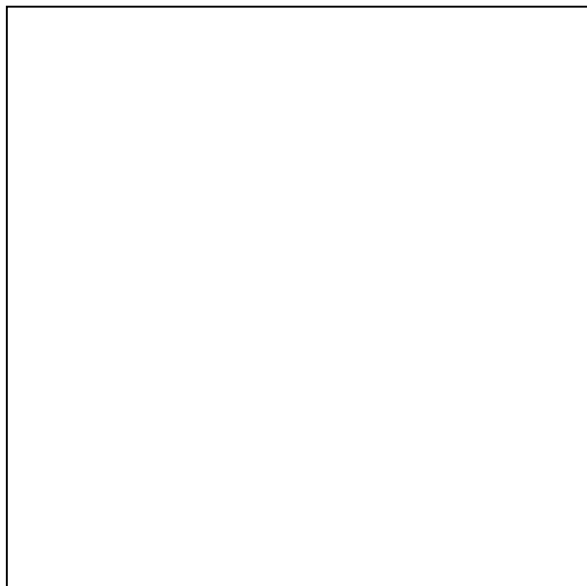
Voltage(V): 220.00 V
Current(A): 0.0520 A
Power(W): 10.66 W
Power Factor: 0.9190
Lamp Luminous Flux: 1170.74

Photometric Results

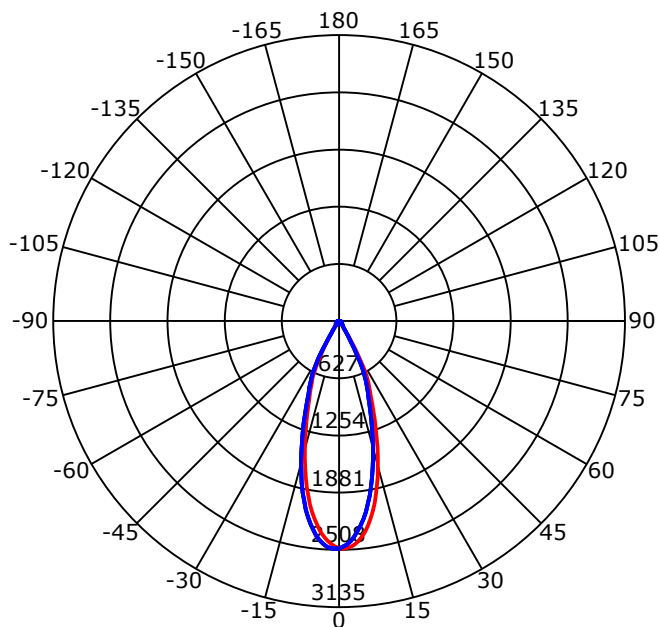
CIE Class: Direct
Luminaire Luminous Flux: 1170.738 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 109.83 lm/W
Beam Angle(50%) C0-180,C90-270: 35.9,35.4
Field Angle(10%) C0-180,C90-270: 61.6,61.5
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 2508.32 cd
Max.Intensity Angle: C=315 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2487.00 cd
Effective Luminous Flux: 1017.81 lm
ERP(ϕ use)(120deg): 1142.08 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 35.9 deg,35.4 deg

C0-180 — C90-270 —

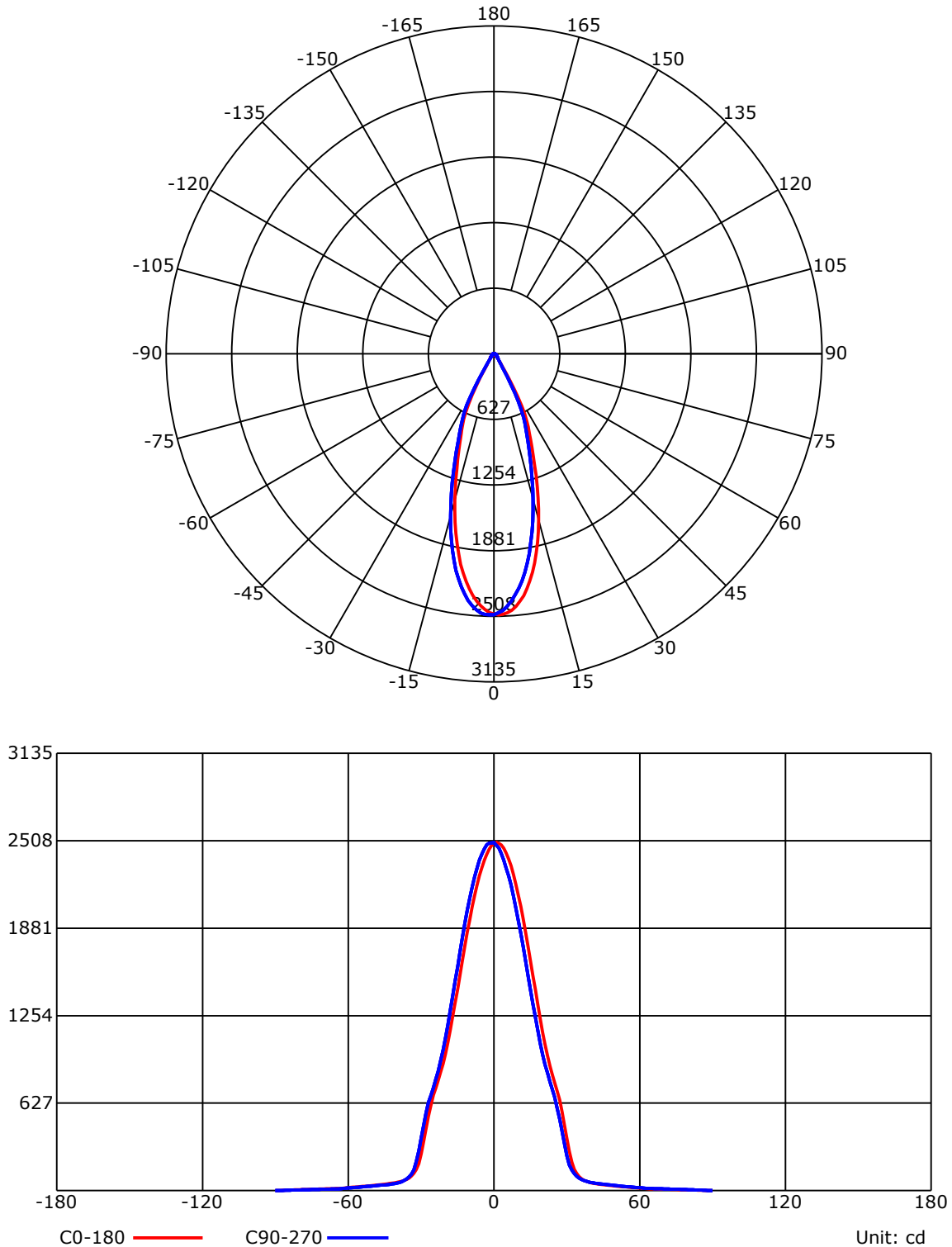
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 15:31:29

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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Luminous Intensity Distribution Curve



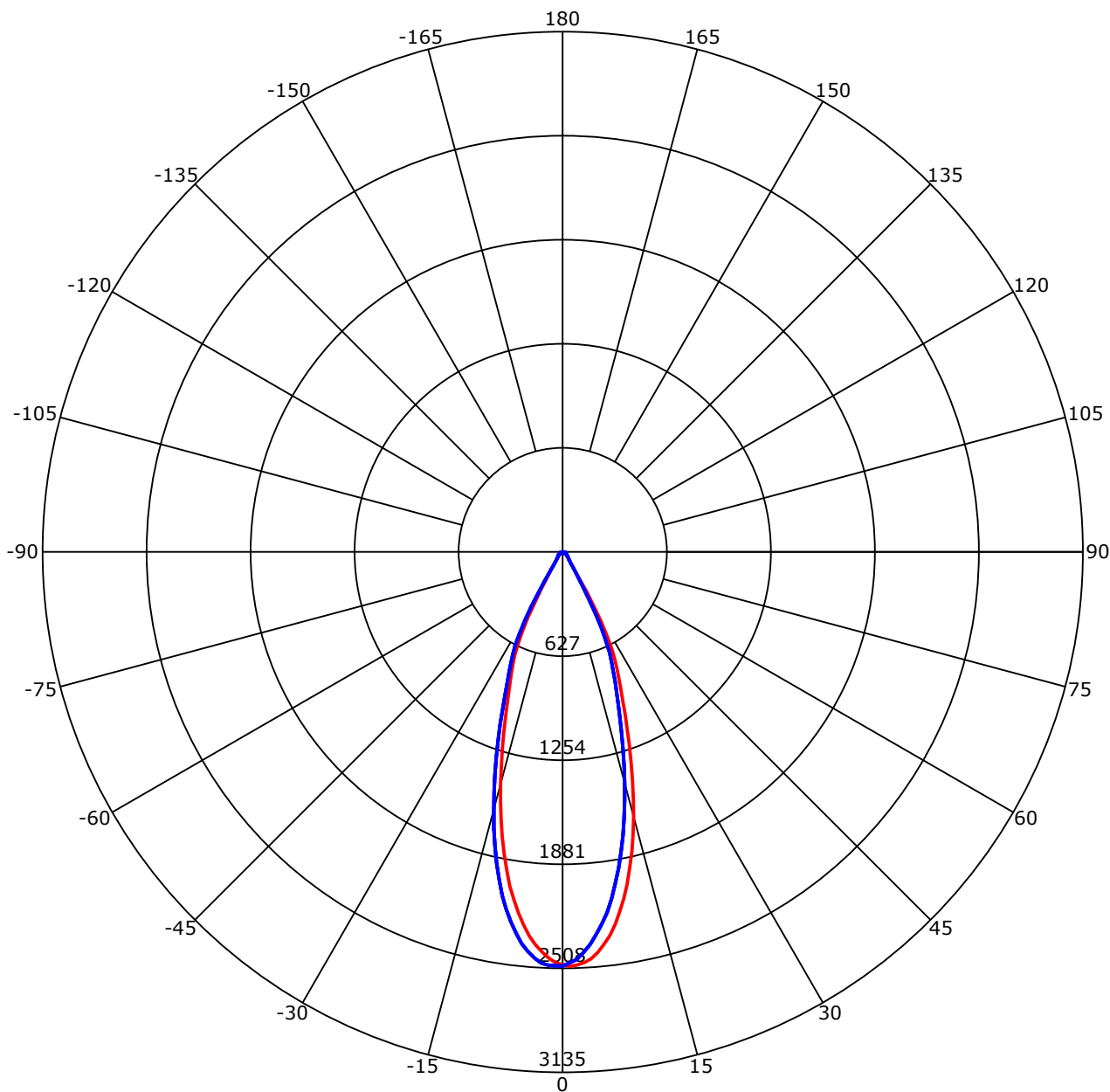
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 15:31:29

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

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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: 2024/5/23 15:31:29

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

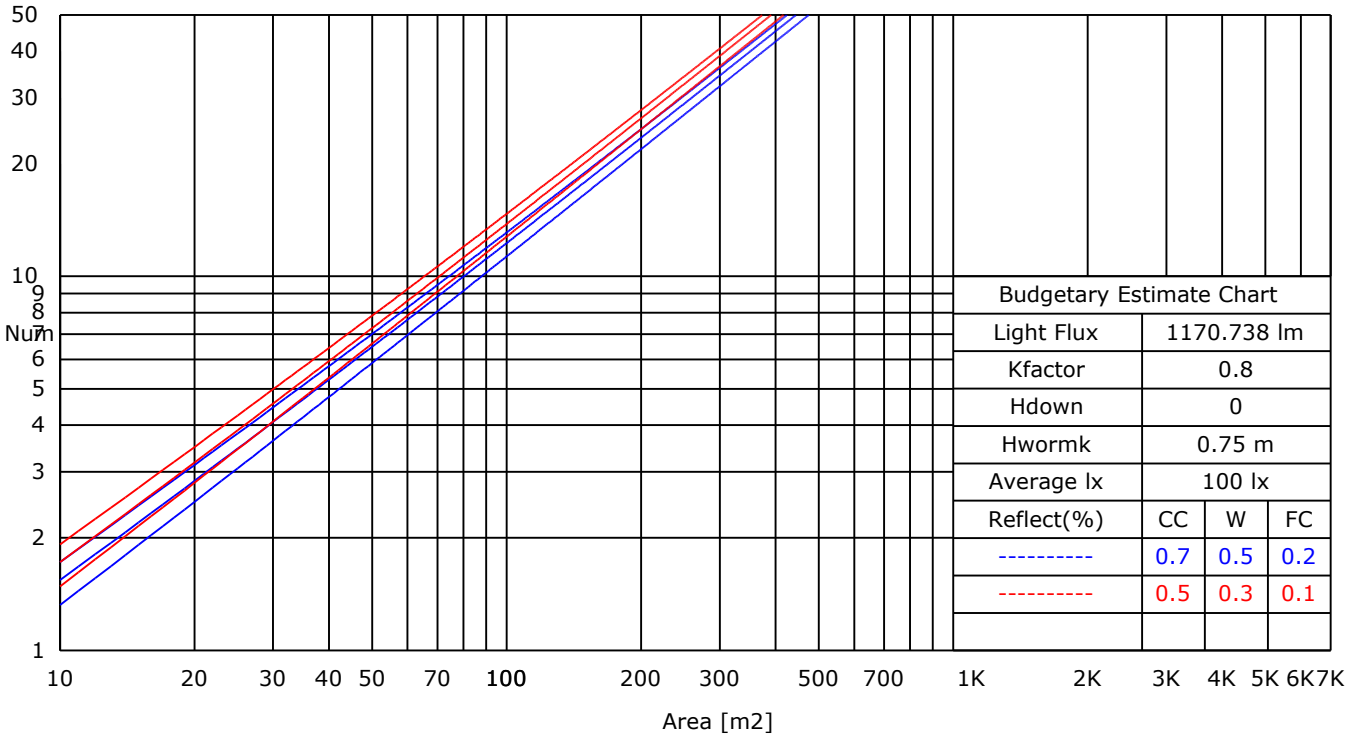
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UTILIZATION FACTORS TABLE

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	1.02	1.00	0.98	1.01	0.98	0.96	0.97	0.95	0.92	0.93	0.90	0.88	0.86	0.84	0.81	0.76
2	0.95	0.93	0.92	0.94	0.92	0.90	0.92	0.89	0.86	0.88	0.85	0.82	0.83	0.79	0.76	0.72
3	0.91	0.89	0.88	0.90	0.88	0.86	0.88	0.85	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
4	0.88	0.86	0.85	0.87	0.85	0.83	0.85	0.82	0.79	0.82	0.78	0.75	0.78	0.74	0.71	0.66
5	0.85	0.83	0.82	0.84	0.82	0.80	0.82	0.79	0.77	0.79	0.76	0.73	0.76	0.72	0.68	0.64
6	0.82	0.81	0.80	0.82	0.79	0.78	0.79	0.76	0.74	0.77	0.73	0.70	0.74	0.70	0.66	0.63
7	0.80	0.79	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.75	0.71	0.68	0.72	0.68	0.64	0.61
8	0.78	0.76	0.76	0.77	0.75	0.74	0.75	0.72	0.70	0.73	0.69	0.67	0.70	0.66	0.63	0.59
9	0.76	0.75	0.74	0.75	0.73	0.72	0.73	0.70	0.69	0.71	0.68	0.65	0.69	0.64	0.61	0.58
10	0.74	0.73	0.72	0.73	0.72	0.70	0.72	0.69	0.67	0.69	0.66	0.63	0.67	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



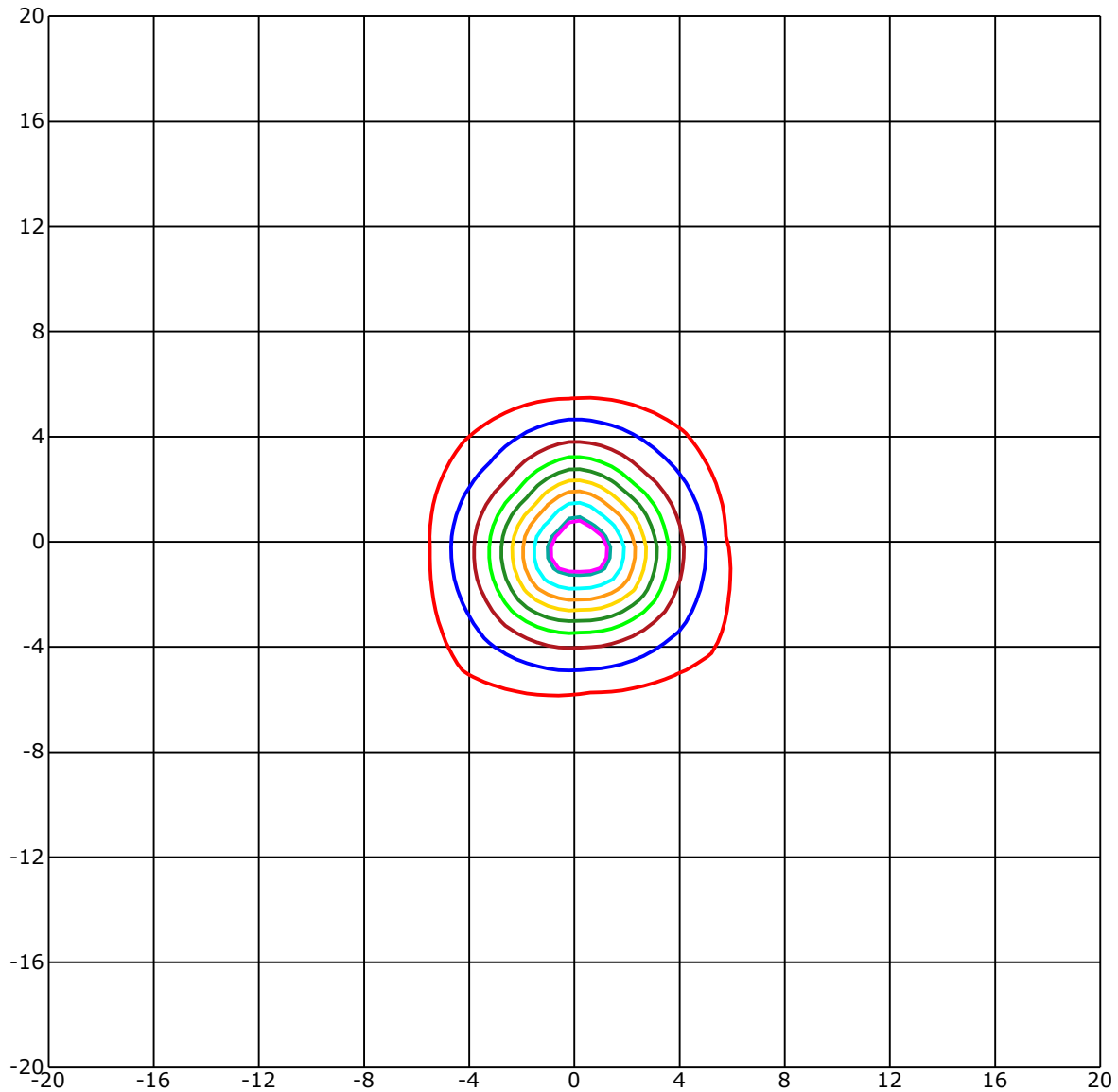
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ISOLX DIAGRAM



C Range: 0 - 360 Deg
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Temperature: 25
Operators: QC01
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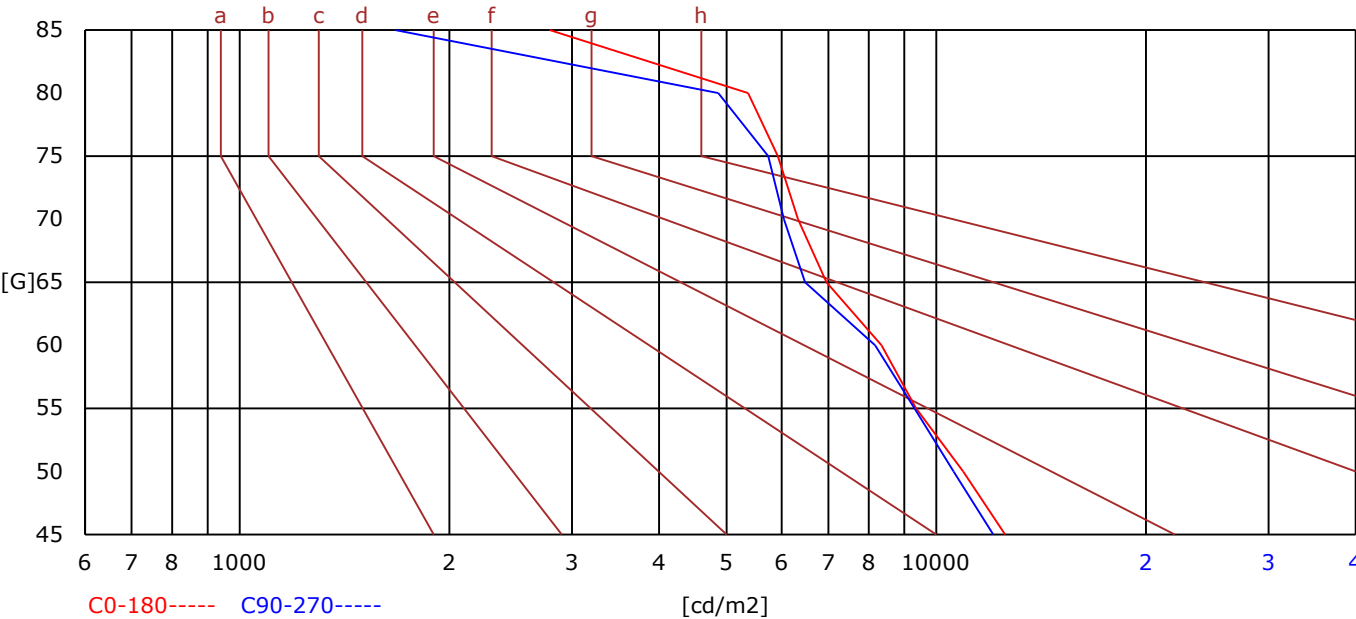
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	12549	10935	9360	8349	6960	6330	5926	5367	2785
C90	12068	10587	9309	8174	6478	6046	5739	4864	1671
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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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	11.61	11.67	11.81	11.85	12.10	11.71	11.76	11.91	11.95	12.19
3H	11.65	11.70	11.85	11.89	12.14	11.73	11.79	11.94	11.98	12.23
4H	11.65	11.70	11.86	11.90	12.15	11.73	11.78	11.94	11.98	12.23
6H	11.64	11.69	11.85	11.89	12.14	11.72	11.77	11.93	11.97	12.22
8H	11.63	11.68	11.85	11.88	12.14	11.71	11.76	11.93	11.96	12.22
12H	11.62	11.67	11.84	11.88	12.13	11.70	11.75	11.92	11.96	12.21
4H 2H	12.31	12.36	12.52	12.56	12.81	12.58	12.63	12.79	12.83	13.07
3H	12.44	12.50	12.66	12.70	12.96	12.70	12.76	12.92	12.96	13.22
4H	12.47	12.53	12.70	12.74	13.00	12.72	12.78	12.95	12.99	13.25
6H	12.48	12.53	12.72	12.75	13.02	12.72	12.77	12.96	13.00	13.26
8H	12.47	12.52	12.71	12.75	13.02	12.71	12.76	12.96	12.99	13.26
12H	12.46	12.51	12.71	12.74	13.01	12.70	12.75	12.95	12.98	13.25
8H 4H	12.56	12.61	12.78	12.82	13.07	12.93	12.99	13.15	13.19	13.44
6H	12.87	12.92	13.12	13.16	13.43	13.24	13.28	13.49	13.52	13.80
8H	12.87	12.91	13.13	13.16	13.44	13.23	13.28	13.49	13.52	13.80
12H	12.86	12.90	13.13	13.16	13.44	13.22	13.26	13.49	13.52	13.80
12H 4H	12.91	12.96	13.16	13.20	13.47	13.34	13.39	13.59	13.62	13.89
6H	12.96	13.00	13.22	13.25	13.53	13.38	13.43	13.64	13.67	13.95

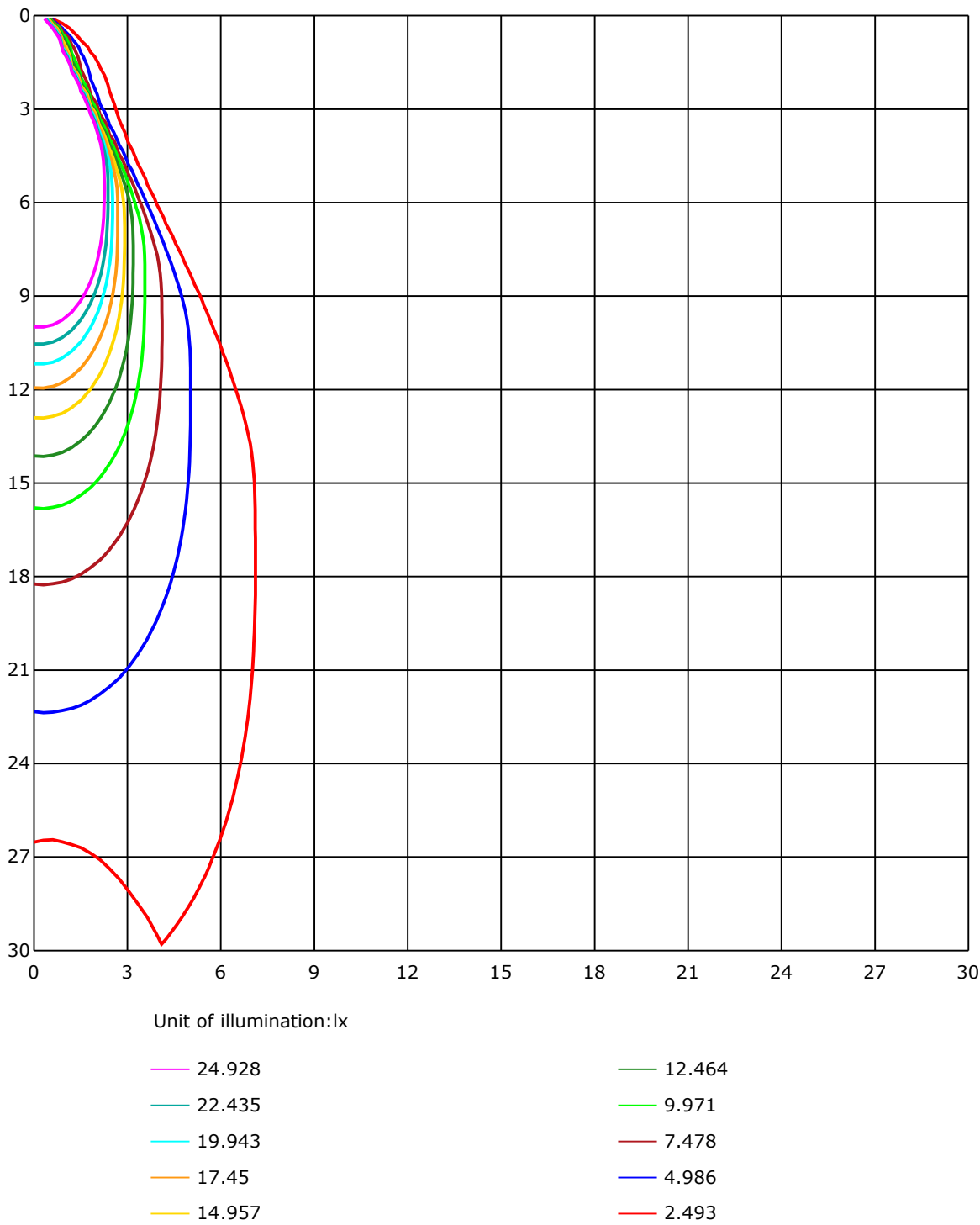
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SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2487.0	2488.97	2495.08	2455.26	2487.0	2488.97	2495.08	2455.26	2487.0	
G1	2496.6	2463.56	2475.15	2424.42	2474.25	2495.93	2493.51	2485.07	2496.6	
G2	2489.42	2434.56	2454.99	2379.53	2447.13	2495.08	2491.8	2502.89	2489.42	
G3	2477.97	2398.88	2415.17	2333.47	2412.66	2479.9	2480.13	2508.32	2477.97	
G4	2456.29	2352.69	2369.43	2275.43	2369.97	2458.58	2452.03	2496.29	2456.29	
G5	2421.86	2301.69	2313.68	2200.87	2319.47	2426.3	2415.71	2485.47	2421.86	
G6	2375.71	2231.21	2253.7	2122.26	2257.52	2383.39	2371.0	2460.15	2375.71	
G7	2328.53	2162.71	2189.06	2042.32	2190.77	2329.07	2312.24	2428.1	2328.53	
G8	2266.36	2084.6	2110.28	1946.12	2116.79	2275.34	2251.14	2378.54	2266.36	
G9	2195.26	1995.0	2024.81	1856.88	2038.41	2208.63	2178.29	2323.06	2195.26	
G10	2119.66	1904.01	1937.9	1765.12	1945.31	2135.78	2101.44	2256.53	2119.66	
G11	2036.84	1805.7	1840.67	1653.21	1852.79	2048.02	2009.5	2183.18	2036.84	
G12	1944.81	1710.49	1745.91	1549.56	1754.08	1958.28	1917.48	2101.84	1944.81	
G13	1851.04	1605.85	1643.29	1447.3	1654.02	1857.28	1818.36	2018.34	1851.04	
G14	1752.91	1503.28	1540.89	1341.31	1548.75	1756.46	1715.38	1916.35	1752.91	
G15	1649.21	1399.72	1440.75	1244.67	1445.41	1654.47	1606.88	1824.24	1649.21	
G16	1544.84	1298.22	1342.57	1149.41	1344.59	1551.8	1502.06	1718.48	1544.84	
G17	1440.48	1199.96	1241.97	1060.21	1249.56	1448.83	1395.99	1615.86	1440.48	
G18	1335.07	1110.18	1148.38	973.53	1152.87	1352.27	1296.02	1506.37	1335.07	
G19	1234.7	1025.96	1056.31	900.49	1064.52	1249.33	1190.26	1399.63	1234.7	
G20	1136.12	951.71	976.63	837.02	982.73	1156.14	1098.86	1293.95	1136.12	
G21	1050.43	882.4	904.08	779.78	910.5	1061.07	1010.07	1194.25	1050.43	
G22	966.26	821.71	842.0	725.51	847.61	980.26	929.54	1100.21	966.26	
G23	893.89	766.5	780.5	682.24	789.17	903.59	855.96	1007.96	893.89	
G24	831.27	718.02	724.3	638.43	733.86	841.1	798.14	927.7	831.27	
G25	772.65	671.29	667.6	602.56	684.48	784.77	738.66	864.72	772.65	
G26	714.6	631.24	592.05	560.95	614.23	732.87	685.69	804.2	714.6	
G27	649.56	586.44	510.49	513.99	531.9	687.0	632.28	750.96	649.56	
G28	563.55	535.72	422.64	464.97	442.48	648.53	555.92	704.1	563.55	
G29	466.95	482.66	333.62	411.87	350.86	609.16	467.62	666.66	466.95	
G30	373.89	425.06	248.92	359.48	263.15	571.67	378.69	627.47	373.89	
G31	282.4	370.43	183.73	307.18	193.92	526.11	287.57	587.25	282.4	
G32	203.35	315.53	147.01	258.07	150.97	476.69	206.94	540.48	203.35	
G33	151.37	263.28	122.46	212.87	124.3	422.95	148.81	488.58	151.37	
G34	122.86	214.53	103.43	170.76	103.92	369.04	118.2	434.63	122.86	
G35	101.59	170.36	89.29	136.02	89.87	316.52	99.39	379.77	101.59	
G36	85.47	133.37	79.46	106.61	80.17	266.33	84.21	326.71	85.47	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	75.19	103.34	71.73	86.77	72.81	219.06	72.05	274.37	75.19	
G38	67.02	84.75	66.12	74.38	66.71	176.15	63.56	224.94	67.02	
G39	60.87	72.9	61.5	64.91	62.22	140.01	57.55	178.75	60.87	
G40	55.66	63.03	58.13	55.89	58.67	112.76	53.51	140.46	55.66	
G41	52.3	54.9	55.12	50.19	55.57	94.63	50.14	111.33	52.3	
G42	49.24	49.6	52.21	45.97	53.02	82.37	47.4	93.46	49.24	
G43	46.19	45.88	49.96	43.45	50.77	71.42	44.71	80.58	46.19	
G44	43.77	43.45	47.54	41.43	48.39	63.29	42.91	70.03	43.77	
G45	41.75	41.03	45.16	39.46	45.92	57.86	41.07	62.31	41.75	
G46	39.86	39.37	43.27	37.62	44.08	54.27	39.46	57.32	39.86	
G47	37.98	37.48	41.34	36.05	42.2	51.04	37.66	53.69	37.98	
G48	36.27	35.73	39.64	34.57	40.22	48.62	36.27	50.46	36.27	
G49	34.52	33.89	37.84	33.13	38.65	45.97	34.7	48.17	34.52	
G50	32.64	32.5	36.09	31.47	36.81	44.31	33.04	45.65	32.64	
G51	31.06	30.93	34.12	30.3	35.1	42.15	31.51	43.81	31.06	
G52	29.4	29.4	32.5	28.68	33.22	40.54	29.9	41.75	29.4	
G53	27.88	27.97	30.75	27.38	31.6	38.56	28.42	39.95	27.88	
G54	26.26	26.53	29.4	26.22	30.21	36.81	26.89	38.29	26.26	
G55	24.73	24.82	27.92	24.69	28.77	35.24	25.41	36.5	24.73	
G56	23.39	23.61	26.53	23.43	27.2	33.4	24.2	34.97	23.39	
G57	22.22	22.31	25.05	22.45	25.95	31.92	22.8	33.17	22.22	
G58	20.87	21.28	23.88	21.05	24.29	30.57	21.73	31.51	20.87	
G59	19.71	20.25	22.27	19.98	22.94	29.09	20.16	30.08	19.71	
G60	18.23	19.3	20.96	18.9	21.23	27.74	18.85	28.59	18.23	
G61	16.92	18.18	19.53	17.82	19.66	26.62	17.51	27.25	16.92	
G62	15.53	16.97	17.69	16.65	17.69	25.09	15.76	25.81	15.53	
G63	14.05	15.85	16.56	15.35	16.56	23.84	14.28	24.69	14.05	
G64	12.61	14.68	15.76	14.19	15.85	22.53	12.48	23.34	12.61	
G65	12.25	13.6	15.17	12.66	15.26	21.1	11.85	22.13	12.25	
G66	11.72	12.25	14.63	11.94	14.59	19.66	11.58	20.78	11.72	
G67	11.36	11.54	14.05	11.31	14.1	18.05	10.95	19.12	11.36	
G68	10.86	11.09	13.56	10.55	13.38	16.34	10.59	17.69	10.86	
G69	10.5	10.5	12.97	10.06	12.88	15.26	10.15	16.38	10.5	
G70	10.06	10.01	12.43	9.56	12.39	14.59	9.88	15.44	10.06	
G71	9.52	9.34	11.94	9.02	11.94	13.92	9.25	14.81	9.52	
G72	9.07	8.93	11.36	8.53	11.49	13.33	8.98	14.01	9.07	
G73	8.53	8.21	10.86	7.99	10.91	12.66	8.39	13.42	8.53	

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