

Report No.:

Test Time: 2024/6/27 17:50:48

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP100CT075H90-15°-15W
Lamp Type:
Luminous Width: 64 mm
Luminous Length: 64 mm
Luminous Height: 68 mm

Voltage(V): 218.80 V
Current(A): 0.0740 A
Power(W): 15.52 W
Power Factor: 0.9510
Lamp Luminous Flux: 1537.44

Photometric Results

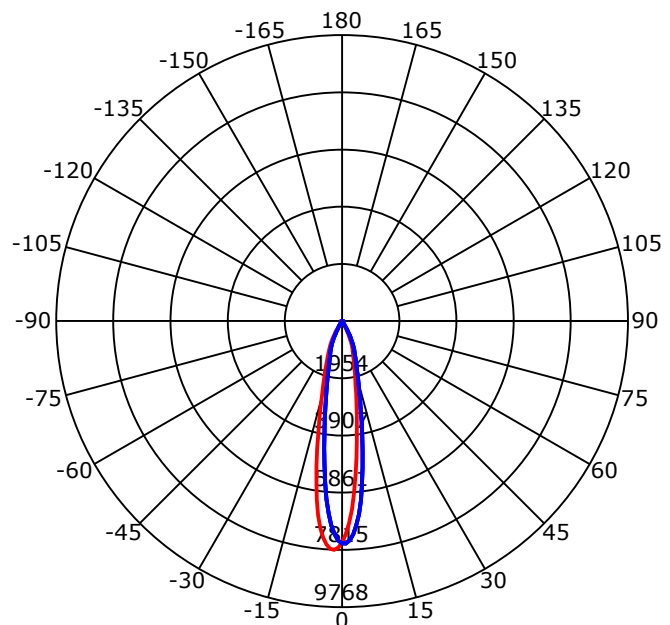
CIE Class: Direct
Luminaire Luminous Flux: 1537.444 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 99.06 lm/W
Beam Angle(50%) C0-180,C90-270: 19.4,19.5
Field Angle(10%) C0-180,C90-270: 50.3,50.8
S/MH C0-180,C90-270: 0.353,0.353

Max. Intensity: 7814.59 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 7562.17 cd
Effective Luminous Flux: 1343.74 lm
ERP(ϕ use)(120deg): 1535.23 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 19.4 deg,19.5 deg

C0-180 — C90-270

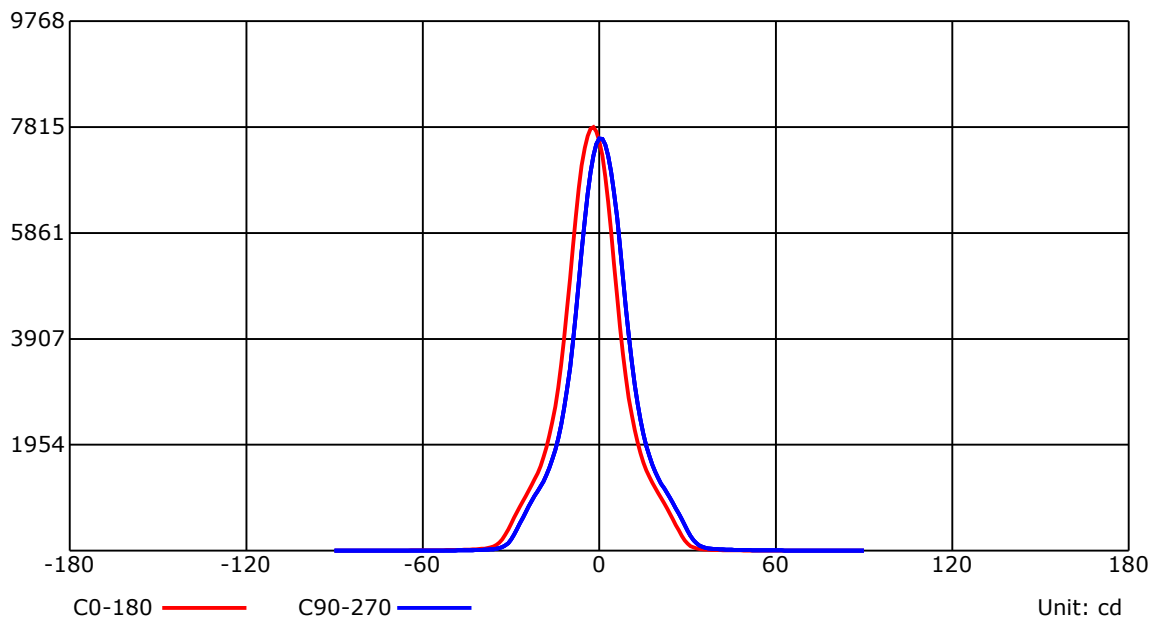
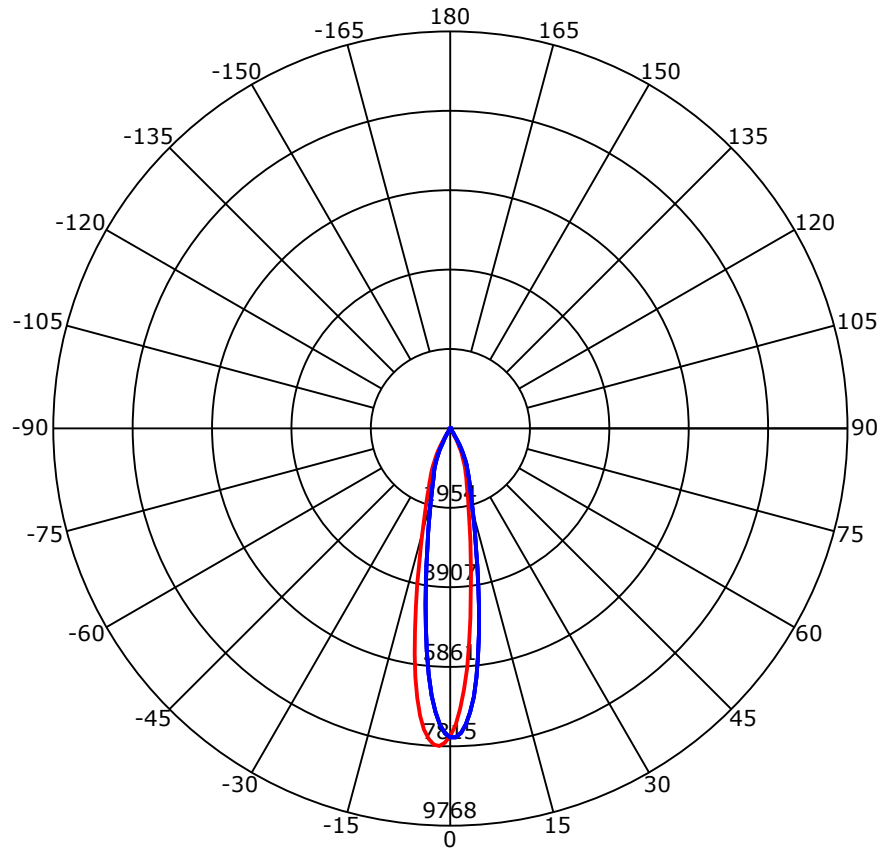
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/27 17:50:48

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



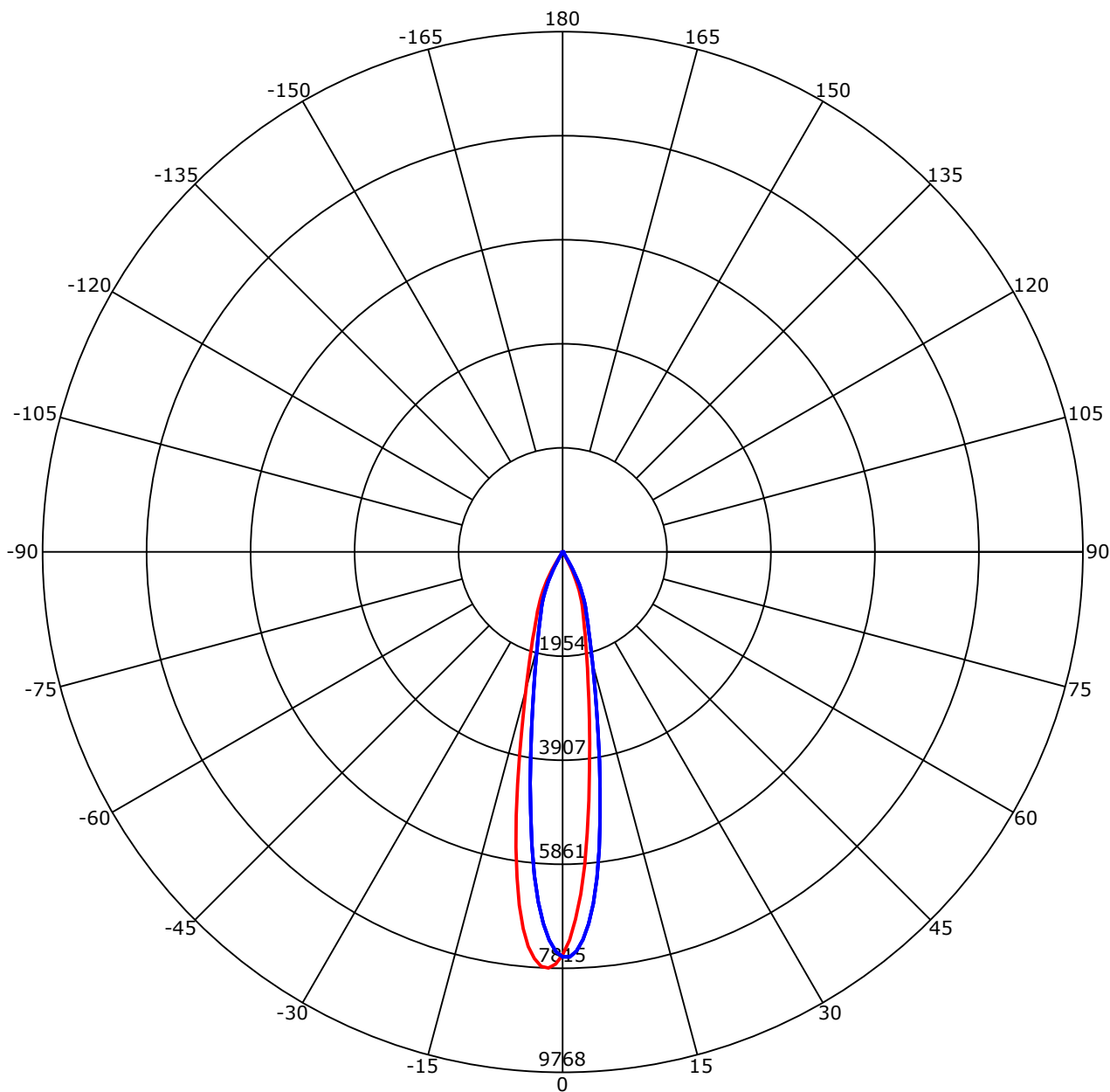
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Operators: QC01
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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Luminous Intensity Distribution Curve



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: 2024/6/27 17:50:48

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

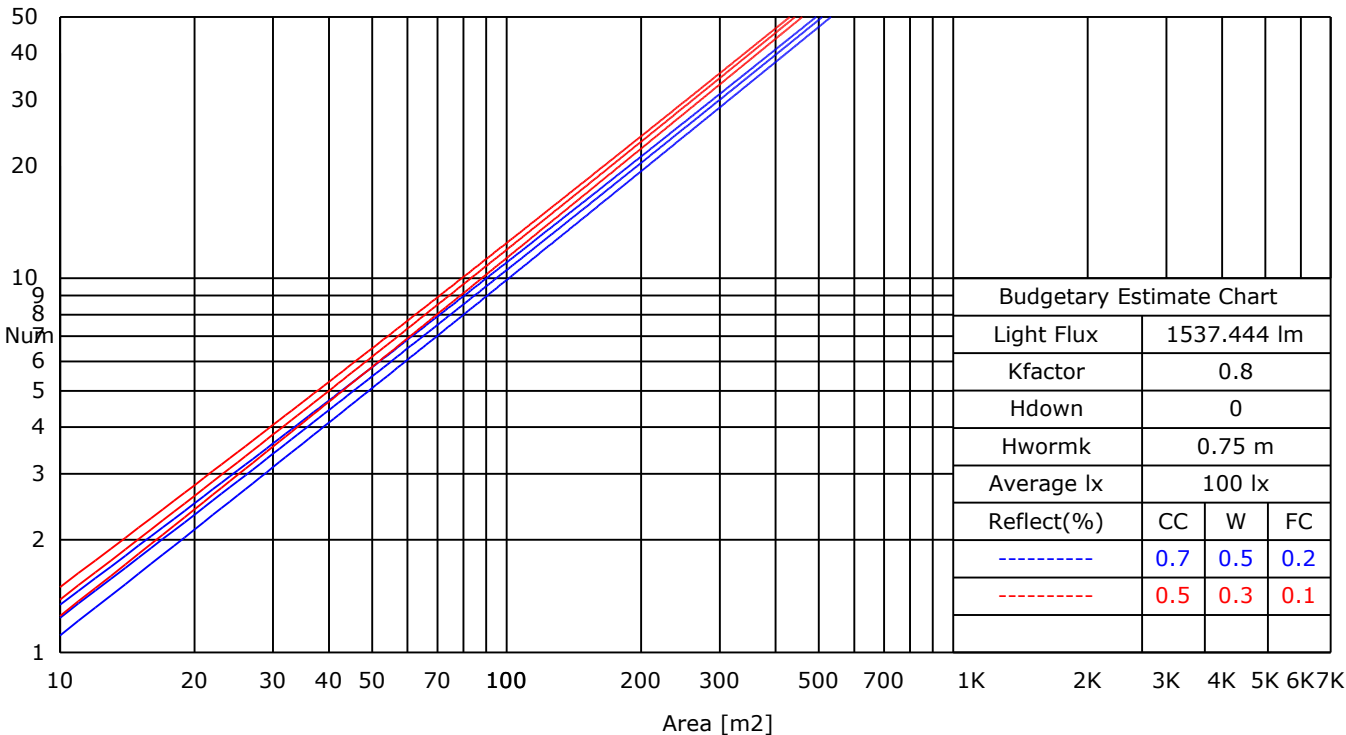
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UTILIZATION FACTORS TABLE

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	0.86	0.83	0.80	0.86	0.82	0.79	0.84	0.79	0.76	0.80	0.76	0.72	0.75	0.71	0.67	0.62
2	0.82	0.79	0.77	0.82	0.79	0.76	0.80	0.76	0.73	0.78	0.73	0.69	0.74	0.69	0.65	0.60
3	0.80	0.77	0.75	0.79	0.76	0.74	0.78	0.74	0.71	0.75	0.71	0.67	0.72	0.67	0.63	0.59
4	0.78	0.75	0.74	0.77	0.74	0.72	0.76	0.72	0.69	0.74	0.69	0.66	0.71	0.66	0.62	0.58
5	0.76	0.74	0.72	0.75	0.73	0.71	0.74	0.70	0.68	0.72	0.68	0.64	0.69	0.64	0.60	0.57
6	0.74	0.72	0.71	0.74	0.71	0.69	0.72	0.69	0.66	0.71	0.66	0.63	0.68	0.63	0.59	0.56
7	0.73	0.71	0.70	0.72	0.70	0.68	0.71	0.67	0.65	0.69	0.65	0.62	0.67	0.62	0.58	0.55
8	0.71	0.70	0.69	0.71	0.69	0.67	0.69	0.66	0.64	0.68	0.64	0.61	0.66	0.61	0.57	0.54
9	0.70	0.69	0.68	0.70	0.67	0.66	0.68	0.65	0.63	0.66	0.63	0.60	0.64	0.60	0.56	0.53
10	0.69	0.68	0.67	0.68	0.66	0.65	0.67	0.64	0.62	0.65	0.62	0.59	0.63	0.59	0.56	0.52

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



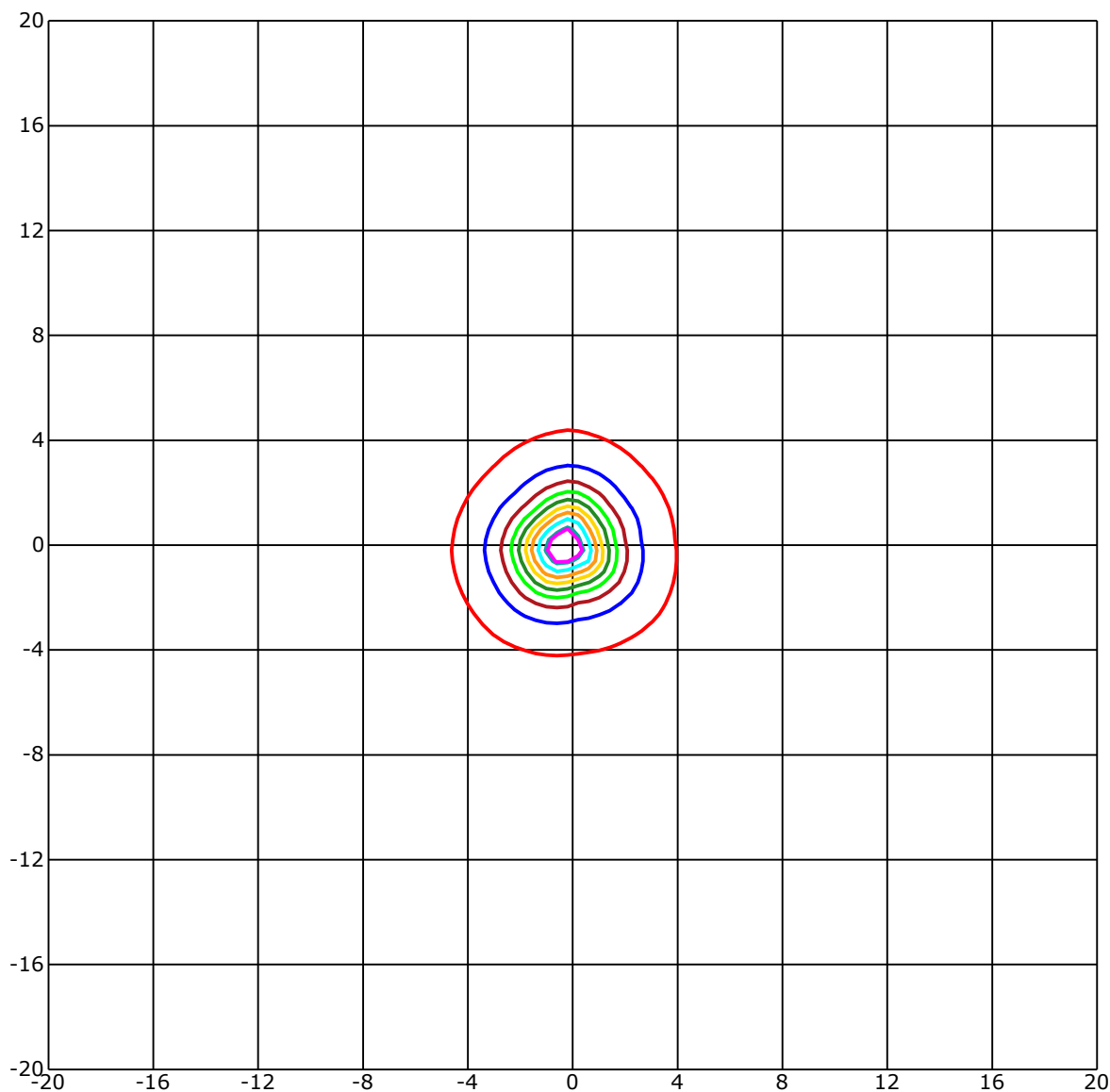
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/27 17:50:48

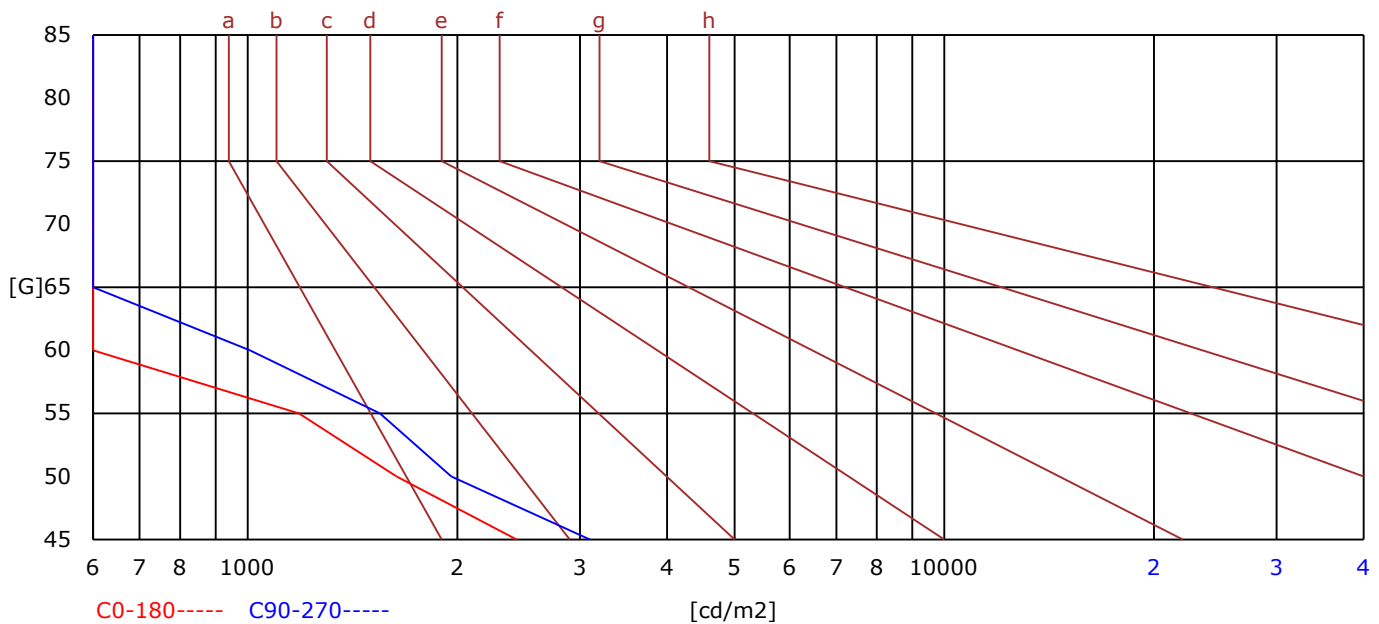
G Range: 0 - 90 Deg
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Test Distance: 6.7 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	2433	1637	1185	570	0	0	0	0	0
C90	3100	1961	1548	1008	285	0	0	0	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



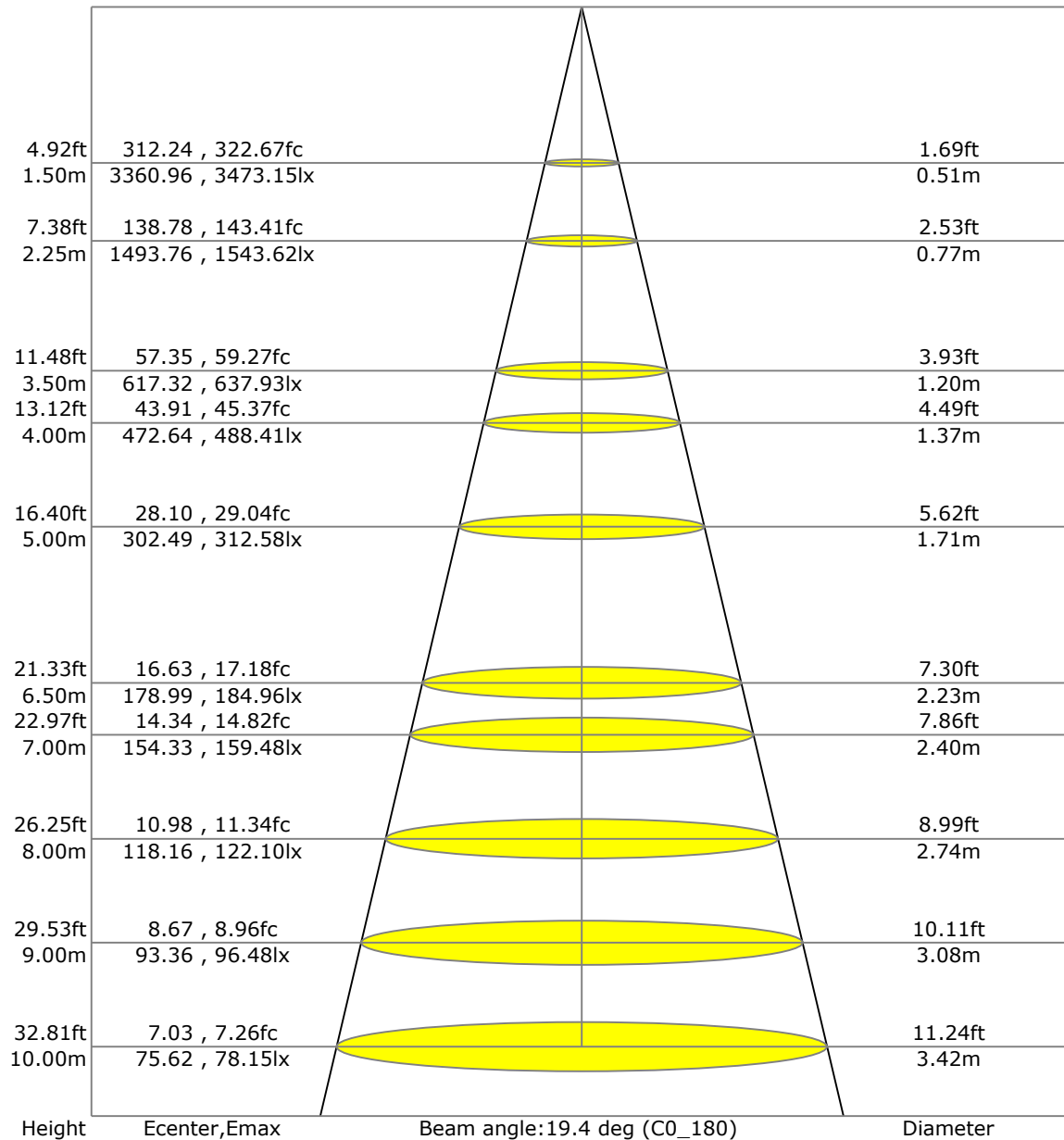
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/6/27 17:50:48

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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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	1.48	1.53	1.68	1.72	1.96	1.48	1.53	1.68	1.72	1.96
	3H	1.45	1.51	1.66	1.71	1.95	1.45	1.51	1.66	1.71	1.95
	4H	1.44	1.50	1.65	1.70	1.95	1.44	1.50	1.65	1.70	1.95
	6H	1.42	1.49	1.64	1.69	1.94	1.42	1.49	1.64	1.69	1.94
	8H	1.42	1.48	1.64	1.68	1.94	1.42	1.48	1.64	1.68	1.94
	12H	1.41	1.47	1.63	1.68	1.93	1.41	1.47	1.63	1.68	1.93
4H	2H	1.44	1.50	1.65	1.70	1.95	1.44	1.50	1.65	1.70	1.95
	3H	1.41	1.47	1.63	1.68	1.93	1.41	1.47	1.63	1.68	1.93
	4H	1.39	1.45	1.62	1.67	1.93	1.39	1.45	1.62	1.67	1.93
	6H	1.37	1.43	1.61	1.65	1.92	1.37	1.43	1.61	1.65	1.92
	8H	1.36	1.42	1.60	1.65	1.91	1.36	1.42	1.60	1.65	1.91
	12H	1.34	1.41	1.59	1.64	1.91	1.34	1.41	1.59	1.64	1.91
8H	4H	1.42	1.48	1.64	1.68	1.94	1.42	1.48	1.64	1.68	1.94
	6H	1.33	1.39	1.59	1.63	1.90	1.33	1.39	1.59	1.63	1.90
	8H	1.31	1.37	1.58	1.62	1.90	1.31	1.37	1.58	1.62	1.90
	12H	1.30	1.35	1.57	1.61	1.89	1.30	1.35	1.57	1.61	1.89
12H	4H	1.34	1.41	1.59	1.64	1.91	1.34	1.41	1.59	1.64	1.91
	6H	1.31	1.37	1.58	1.62	1.90	1.31	1.37	1.58	1.62	1.90

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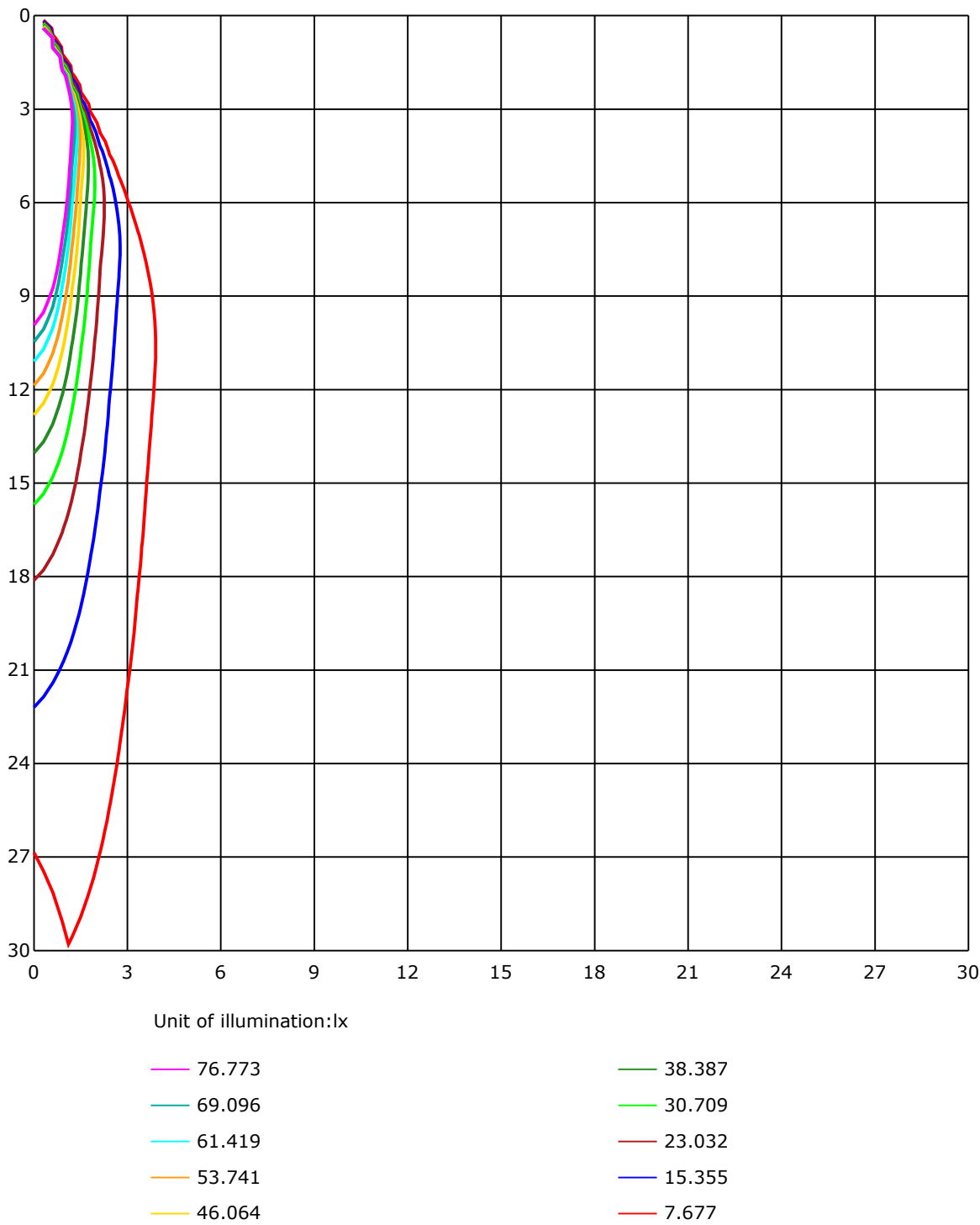
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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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SPACE ISOLX DIAGRAM



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: 6.7 m
 Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	7562.17	7524.69	7600.24	7676.86	7562.17	7524.69	7600.24	7676.86	7562.17	
G1	7287.04	7289.33	7598.93	7685.26	7734.77	7653.25	7500.18	7569.4	7287.04	
G2	6899.1	6948.39	7492.99	7585.02	7814.59	7690.73	7290.23	7353.88	6899.1	
G3	6432.78	6529.97	7285.51	7388.85	7788.01	7636.69	6982.01	7040.28	6432.78	
G4	5898.86	6028.77	6996.42	7089.7	7651.41	7464.8	6586.26	6642.42	5898.86	
G5	5300.43	5474.16	6619.03	6681.92	7432.26	7201.66	6094.81	6158.55	5300.43	
G6	4691.18	4902.44	6148.67	6182.07	7108.11	6853.45	5525.15	5608.24	4691.18	
G7	4126.29	4341.67	5613.67	5592.98	6679.18	6420.21	4943.15	5023.06	4126.29	
G8	3635.6	3845.64	5051.92	4979.2	6169.19	5909.77	4379.96	4452.46	3635.6	
G9	3210.44	3378.06	4488.78	4376.01	5611.47	5374.05	3849.5	3934.03	3210.44	
G10	2821.2	2985.1	3988.25	3809.23	5024.4	4809.74	3370.43	3453.16	2821.2	
G11	2501.59	2637.29	3476.42	3304.08	4437.33	4268.95	2957.98	3046.1	2501.59	
G12	2225.65	2348.33	3059.52	2895.45	3900.72	3771.3	2620.63	2694.93	2225.65	
G13	1995.63	2092.73	2709.43	2548.81	3428.74	3310.37	2315.83	2406.15	1995.63	
G14	1794.75	1873.66	2413.24	2260.98	3007.94	2926.69	2069.34	2152.07	1794.75	
G15	1624.35	1695.45	2151.98	2028.18	2661.98	2595.85	1861.5	1938.31	1624.35	
G16	1483.35	1544.98	1933.32	1827.02	2365.3	2316.64	1677.94	1758.48	1483.35	
G17	1362.59	1411.52	1743.44	1647.64	2124.46	2073.47	1526.53	1596.15	1362.59	
G18	1255.62	1299.3	1586.37	1497.8	1904.82	1858.54	1393.25	1455.56	1255.62	
G19	1158.43	1203.59	1453.54	1373.72	1725.93	1671.21	1276.67	1344.64	1158.43	
G20	1066.18	1106.22	1339.52	1265.09	1563.07	1517.01	1186.4	1237.93	1066.18	
G21	974.83	1010.43	1238.74	1170.19	1431.5	1383.56	1098.82	1150.26	974.83	
G22	878.32	920.51	1152.33	1078.12	1315.77	1270.93	1008.72	1063.13	878.32	
G23	782.66	825.75	1062.77	987.85	1210.82	1171.45	916.47	971.42	782.66	
G24	682.91	727.17	974.2	894.75	1109.23	1075.43	820.59	876.61	682.91	
G25	580.74	624.6	880.74	800.39	1011.64	978.06	716.44	775.34	580.74	
G26	477.0	522.21	783.6	705.0	914.86	878.32	611.81	672.9	477.0	
G27	372.36	419.18	683.0	601.93	812.02	773.1	506.18	566.6	372.36	
G28	274.28	321.01	580.47	498.32	710.25	665.94	396.6	457.83	274.28	
G29	193.39	233.43	475.74	395.93	608.3	557.67	296.45	351.8	193.39	
G30	129.46	160.84	370.12	294.66	500.43	449.71	209.23	256.19	129.46	
G31	86.95	109.04	272.08	207.12	391.62	345.43	139.29	176.37	86.95	
G32	61.14	75.91	192.58	138.13	292.1	255.11	95.08	121.25	61.14	
G33	43.99	54.59	134.89	92.61	209.68	181.98	67.02	87.27	43.99	
G34	32.68	39.32	97.64	64.69	147.37	129.73	47.81	65.27	32.68	
G35	25.99	30.08	72.5	46.78	106.03	94.36	35.01	51.22	25.99	
G36	21.46	24.29	55.84	35.46	78.87	70.93	28.01	41.48	21.46	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	18.45	20.25	44.22	27.74	60.24	55.04	23.03	35.6	18.45	
G38	15.85	17.37	37.48	23.21	47.85	44.08	19.84	30.84	15.85	
G39	13.92	14.99	32.5	20.07	39.82	37.17	17.01	27.52	13.92	
G40	12.21	13.38	28.68	17.28	34.34	32.23	14.68	24.38	12.21	
G41	10.82	11.72	25.45	14.95	30.08	28.46	12.7	22.04	10.82	
G42	9.47	10.37	22.98	13.2	26.66	25.36	11.22	19.75	9.47	
G43	8.3	9.29	20.65	11.67	24.06	22.71	9.61	17.78	8.3	
G44	7.54	8.17	18.76	10.15	21.64	20.6	8.57	16.21	7.54	
G45	6.64	7.05	17.33	8.98	19.71	18.76	7.36	14.63	6.64	
G46	5.84	6.37	15.71	8.13	17.82	16.97	6.55	13.33	5.84	
G47	5.25	5.75	14.23	7.27	16.3	15.49	5.79	12.3	5.25	
G48	4.76	5.16	13.11	6.46	14.9	14.19	5.07	11.49	4.76	
G49	4.31	4.85	12.17	5.75	13.87	12.79	4.4	10.37	4.31	
G50	3.95	4.31	11.22	5.16	12.7	12.03	3.86	9.79	3.95	
G51	3.59	3.77	10.59	5.07	11.9	11.18	3.46	9.11	3.59	
G52	3.23	3.68	9.97	4.44	11.18	10.28	3.23	8.62	3.23	
G53	2.83	3.55	9.34	4.04	10.32	9.47	2.78	8.13	2.83	
G54	2.56	3.05	8.8	3.82	9.74	8.89	2.65	7.59	2.56	
G55	2.38	2.78	8.21	3.64	9.2	8.44	2.15	7.23	2.38	
G56	2.02	2.47	7.95	3.19	8.62	7.72	1.89	6.6	2.02	
G57	1.75	2.2	7.32	3.1	8.13	7.23	1.57	6.19	1.75	
G58	1.35	1.84	7.0	2.69	7.63	6.78	1.3	5.66	1.35	
G59	1.03	1.44	6.55	2.33	7.27	6.28	0.94	5.3	1.03	
G60	0.72	1.17	6.02	2.06	6.64	5.84	0.67	4.76	0.72	
G61	0.54	0.9	5.48	1.75	6.11	5.3	0.36	4.44	0.54	
G62	0.31	0.58	5.03	1.48	5.57	4.94	0.22	3.91	0.31	
G63	0.0	0.13	4.53	1.12	5.16	4.4	0.0	3.64	0.0	
G64	0.0	0.0	4.17	0.9	4.67	4.13	0.0	3.28	0.0	
G65	0.0	0.0	3.73	0.49	4.44	3.59	0.0	2.78	0.0	
G66	0.0	0.0	3.14	0.04	4.0	3.23	0.0	2.11	0.0	
G67	0.0	0.0	2.2	0.0	3.41	2.65	0.0	1.62	0.0	
G68	0.0	0.0	1.57	0.0	2.78	1.89	0.0	1.26	0.0	
G69	0.0	0.0	1.12	0.0	1.84	1.35	0.0	1.03	0.0	
G70	0.0	0.0	0.94	0.0	1.26	1.08	0.0	1.08	0.0	
G71	0.0	0.0	0.81	0.0	1.21	1.03	0.0	0.81	0.0	
G72	0.0	0.0	0.76	0.0	1.03	1.03	0.0	0.72	0.0	
G73	0.0	0.0	0.67	0.0	0.94	0.85	0.0	0.67	0.0	

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