

Report No.:

Test Time: 2024/9/24 14:36:17

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT095H124-38°-23.7W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 75 mm

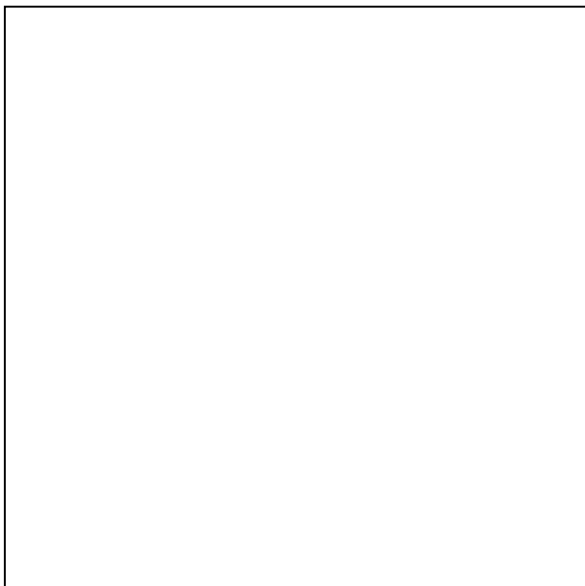
Voltage(V): 219.80 V
Current(A): 0.1120 A
Power(W): 23.74 W
Power Factor: 0.9600
Lamp Luminous Flux: 2222.87

Photometric Results

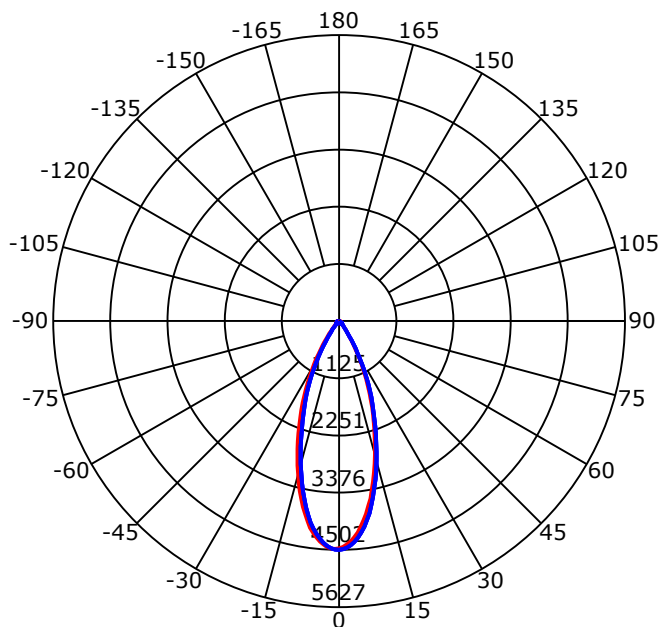
CIE Class: Direct
Luminaire Luminous Flux: 2222.868 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 93.63 lm/W
Beam Angle(50%) C0-180,C90-270: 38.6,37.5
Field Angle(10%) C0-180,C90-270: 68.1,66.6
S/MH C0-180,C90-270: 0.650,0.611

Max. Intensity: 4501.73 cd
Max.Intensity Angle: C=270 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4469.08 cd
Effective Luminous Flux: 1965.53 lm
ERP(ϕ use)(120deg): 2192.21 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 38.6 deg,37.5 deg

C0-180 — C90-270

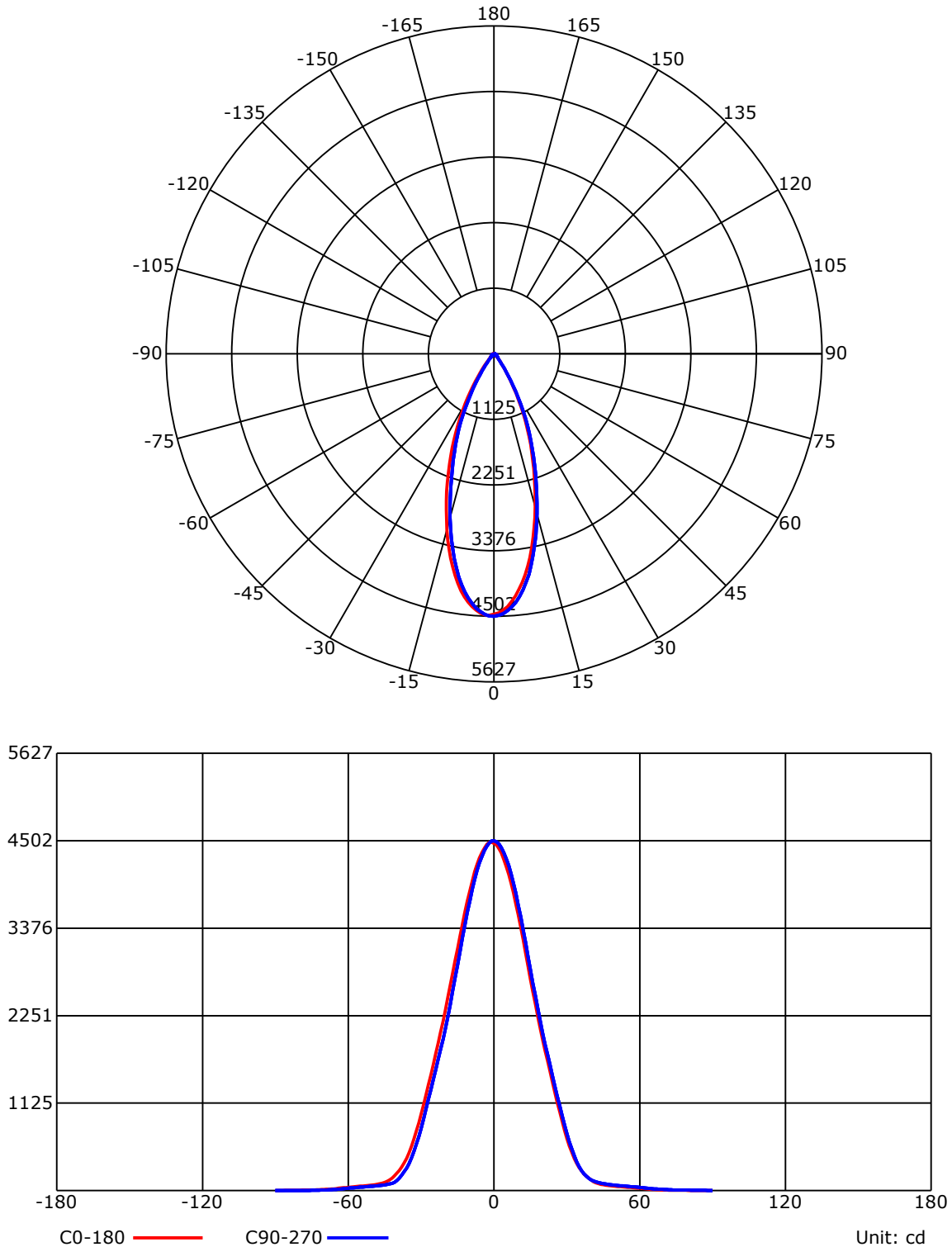
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/24 14:36:17

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



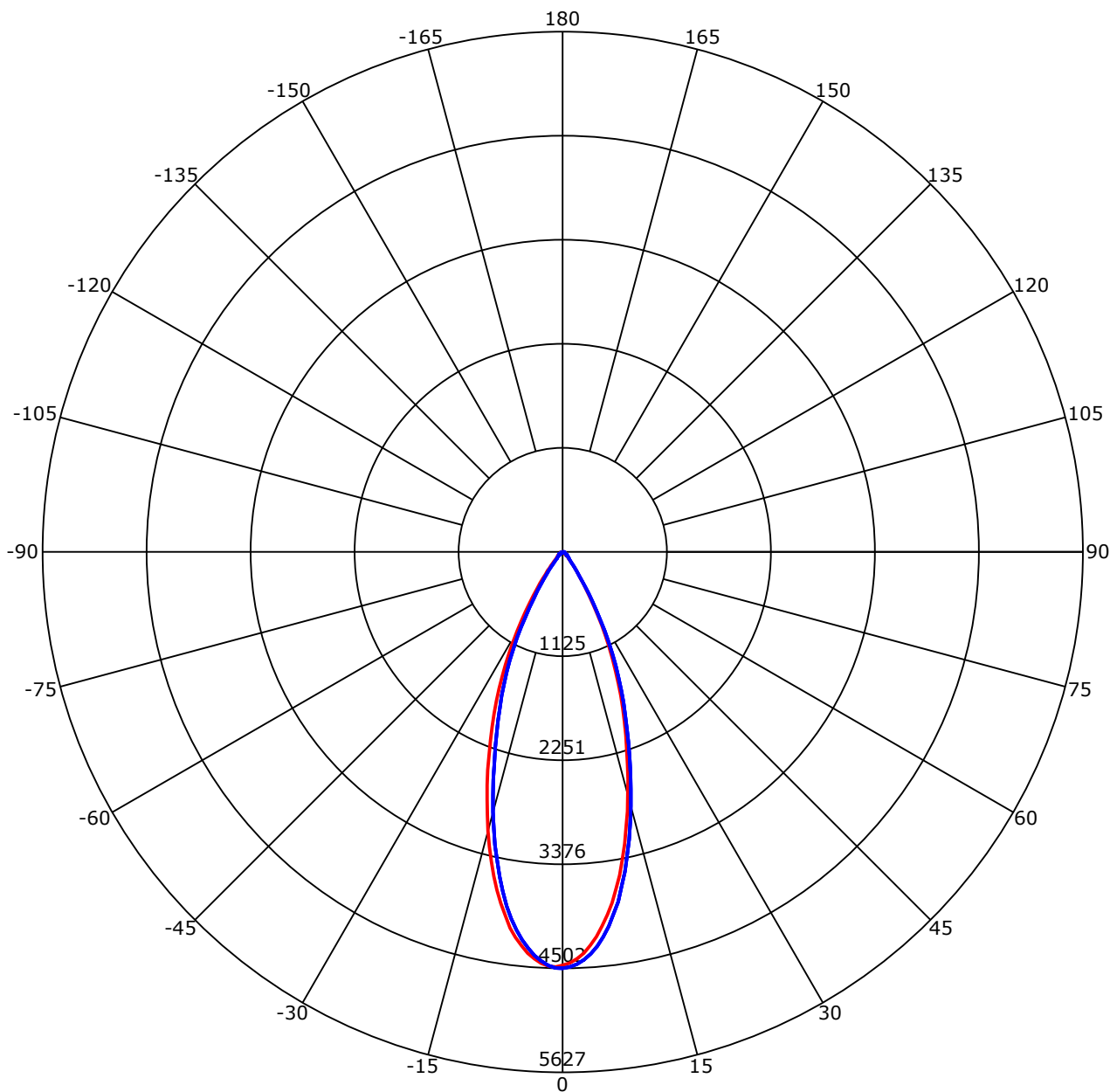
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

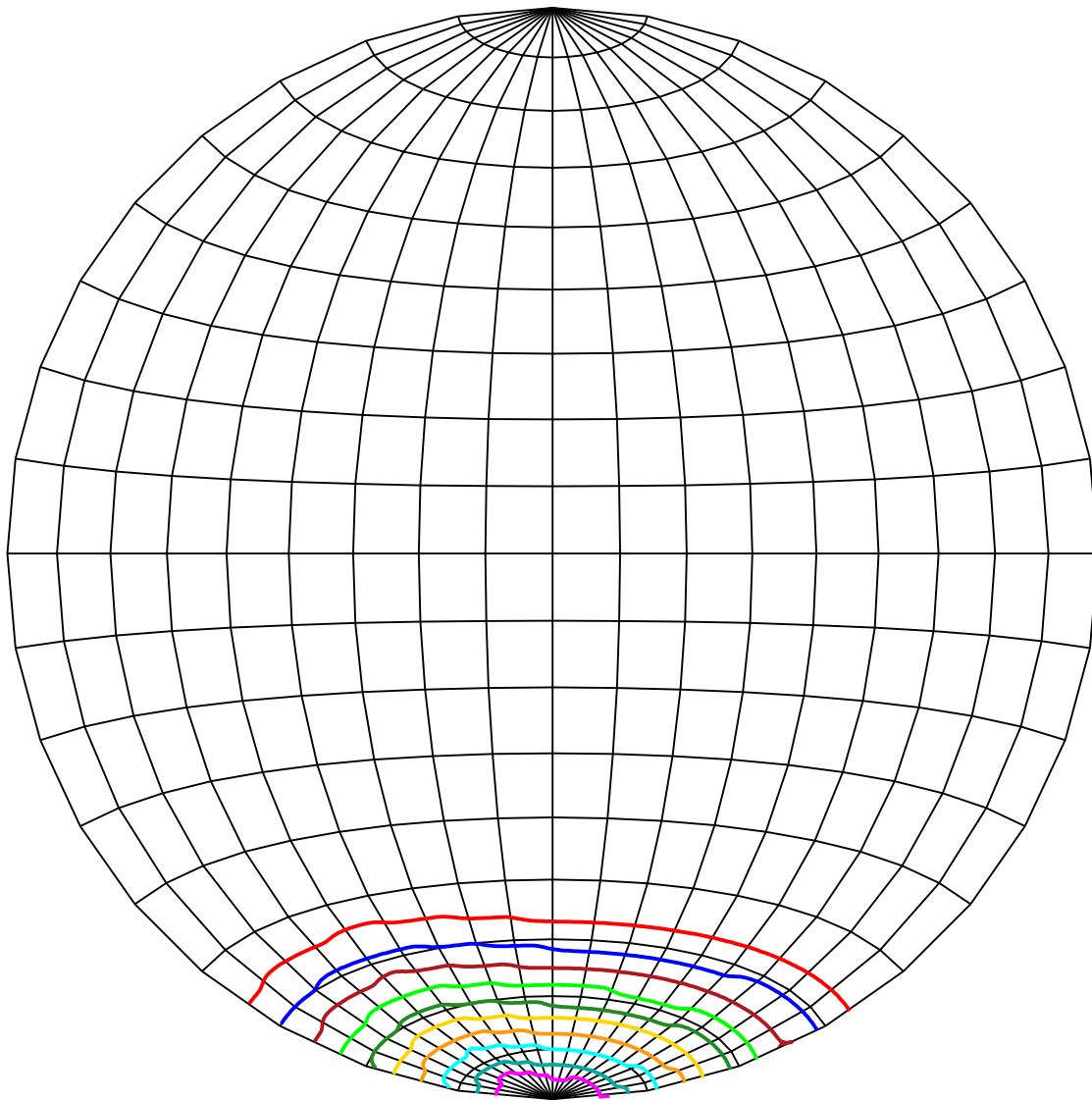
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 4501.728 cd

— 4276.642(95%I _{max})	— 2250.864(50%I _{max})
— 4051.555(90%I _{max})	— 1800.691(40%I _{max})
— 3601.383(80%I _{max})	— 1350.518(30%I _{max})
— 3151.209(70%I _{max})	— 900.346(20%I _{max})
— 2701.037(60%I _{max})	— 450.173(10%I _{max})

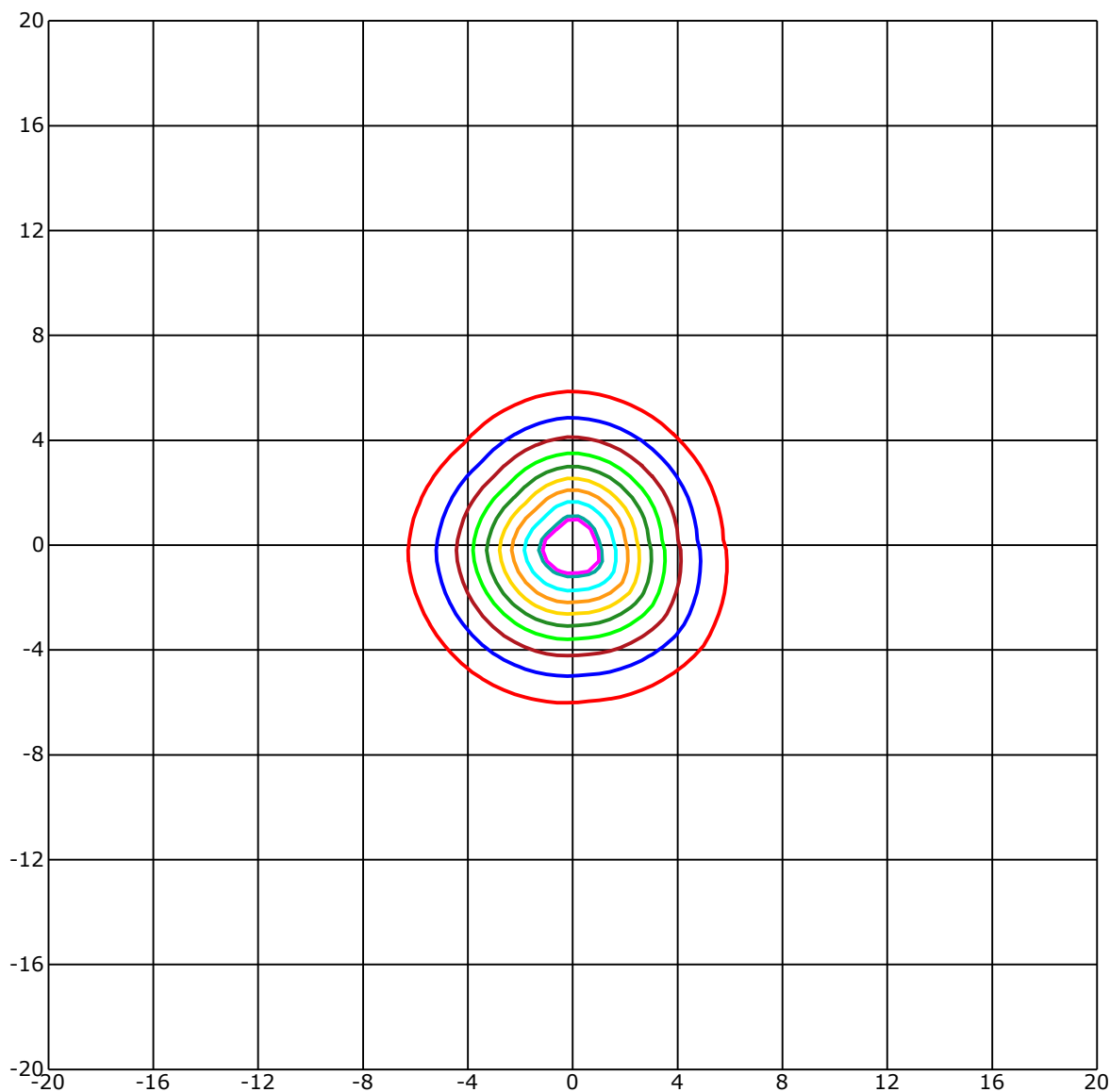
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ISOLX DIAGRAM



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

41.416(92%Emax)	22.509(50%Emax)
40.516(90%Emax)	18.007(40%Emax)
36.014(80%Emax)	13.505(30%Emax)
31.512(70%Emax)	9.003(20%Emax)
27.01(60%Emax)	4.502(10%Emax)

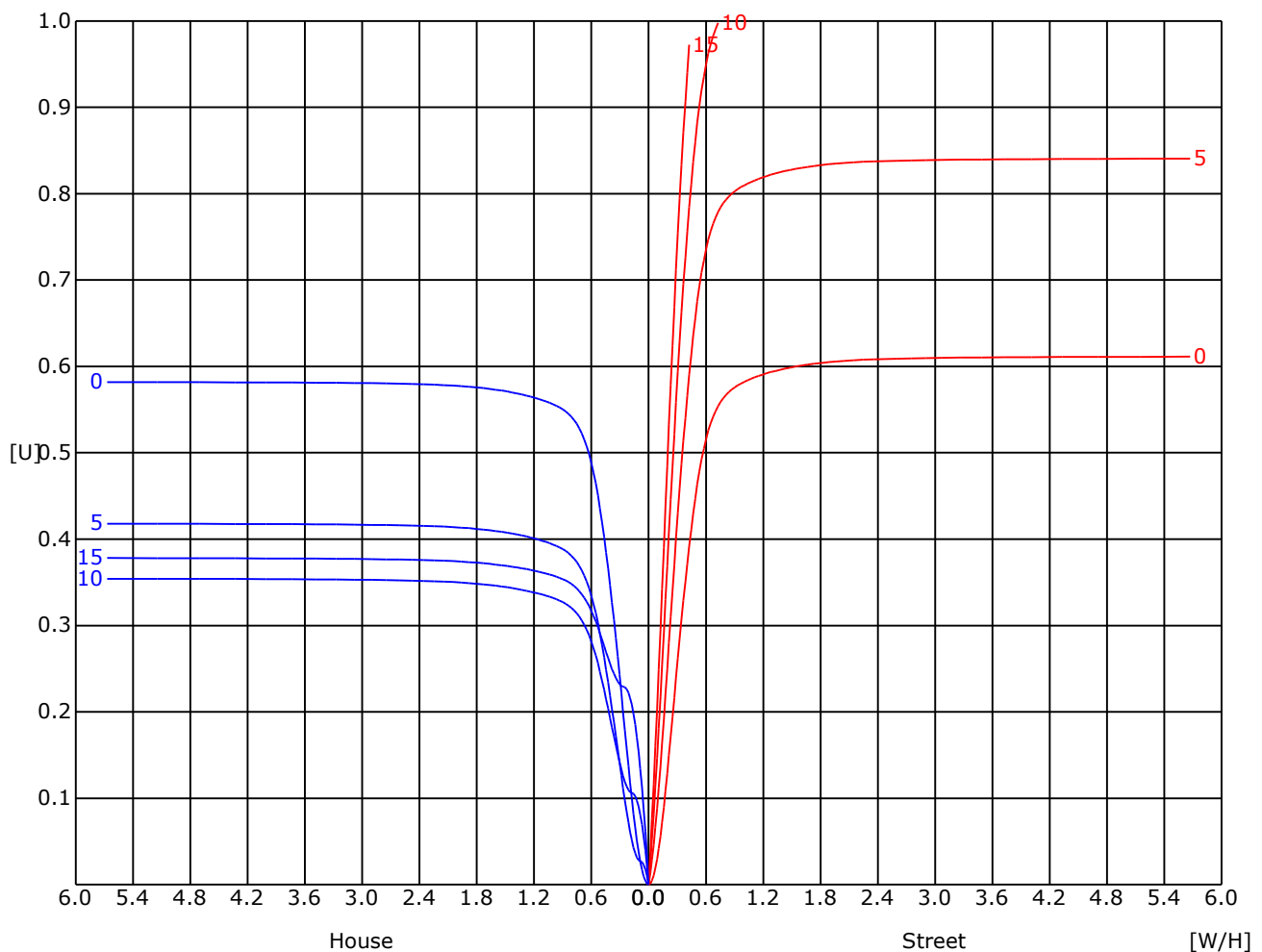
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UTILIZATION FACTOR DIAGRAM (ROAD)



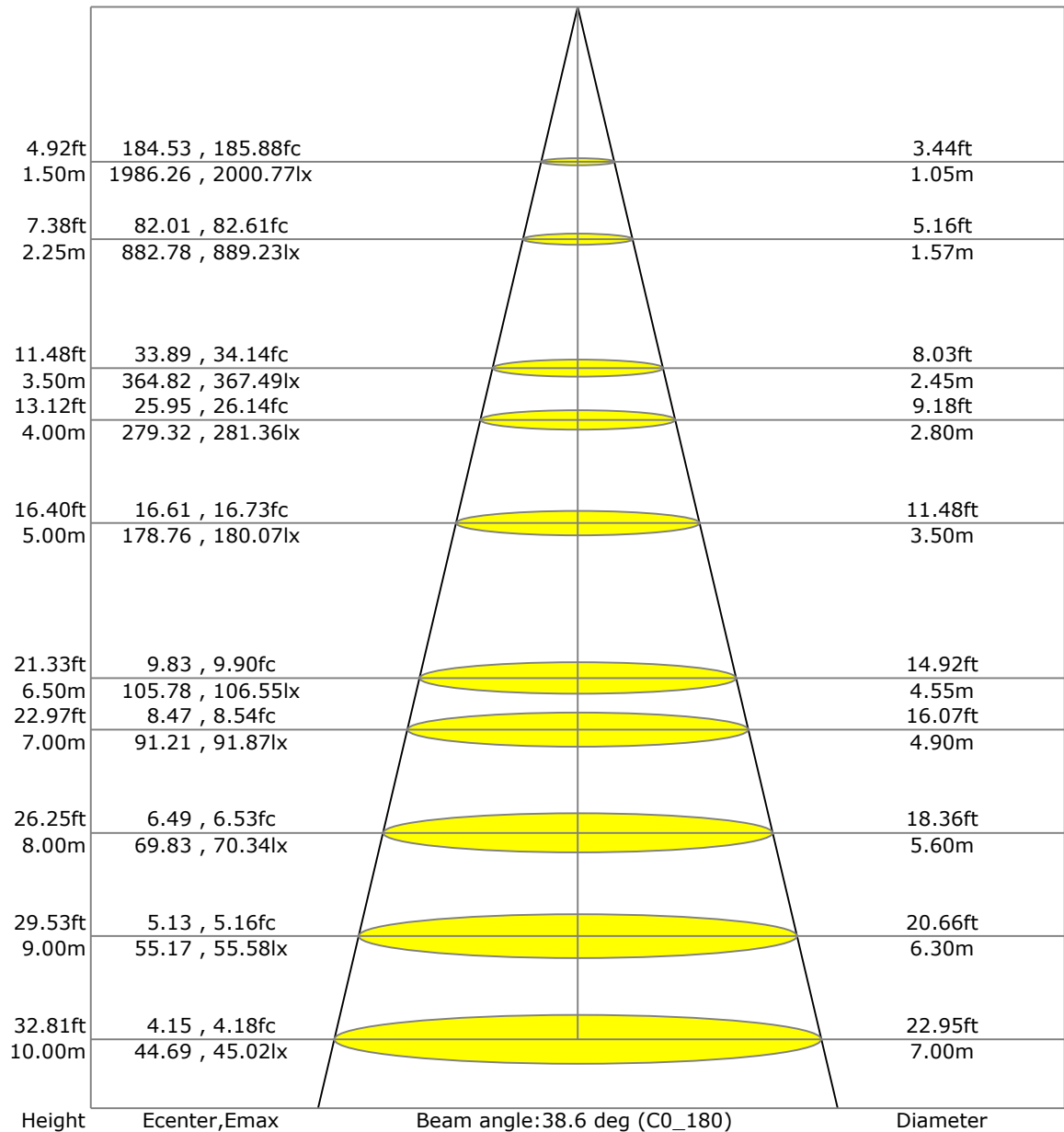
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Operators: QC01
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G Interval: 1.0 Deg
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 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	9.04	9.09	9.24	9.28	9.52	9.28	9.33	9.48	9.52	9.76
	3H	9.05	9.10	9.25	9.29	9.54	9.28	9.33	9.48	9.52	9.77
	4H	9.03	9.09	9.24	9.28	9.53	9.26	9.32	9.47	9.51	9.76
	6H	9.02	9.07	9.23	9.27	9.52	9.25	9.30	9.46	9.50	9.75
	8H	9.01	9.06	9.23	9.27	9.52	9.24	9.29	9.46	9.50	9.75
	12H	9.00	9.05	9.22	9.26	9.51	9.23	9.28	9.45	9.49	9.74
4H	2H	9.29	9.34	9.50	9.54	9.79	9.75	9.80	9.96	10.00	10.25
	3H	9.31	9.36	9.53	9.57	9.82	9.76	9.81	9.98	10.02	10.27
	4H	9.30	9.35	9.53	9.56	9.82	9.75	9.80	9.98	10.01	10.27
	6H	9.28	9.33	9.52	9.55	9.82	9.73	9.78	9.96	10.00	10.26
	8H	9.27	9.32	9.51	9.55	9.81	9.72	9.77	9.96	9.99	10.26
	12H	9.26	9.31	9.51	9.54	9.81	9.70	9.75	9.95	9.98	10.25
8H	4H	9.29	9.35	9.51	9.55	9.80	9.83	9.89	10.05	10.09	10.34
	6H	9.30	9.35	9.55	9.58	9.86	9.85	9.90	10.10	10.13	10.41
	8H	9.29	9.33	9.55	9.58	9.86	9.84	9.88	10.10	10.13	10.40
	12H	9.27	9.32	9.54	9.57	9.85	9.82	9.86	10.09	10.12	10.40
12H	4H	9.30	9.35	9.55	9.59	9.86	9.91	9.96	10.16	10.20	10.47
	6H	9.29	9.34	9.55	9.58	9.86	9.91	9.95	10.17	10.20	10.48

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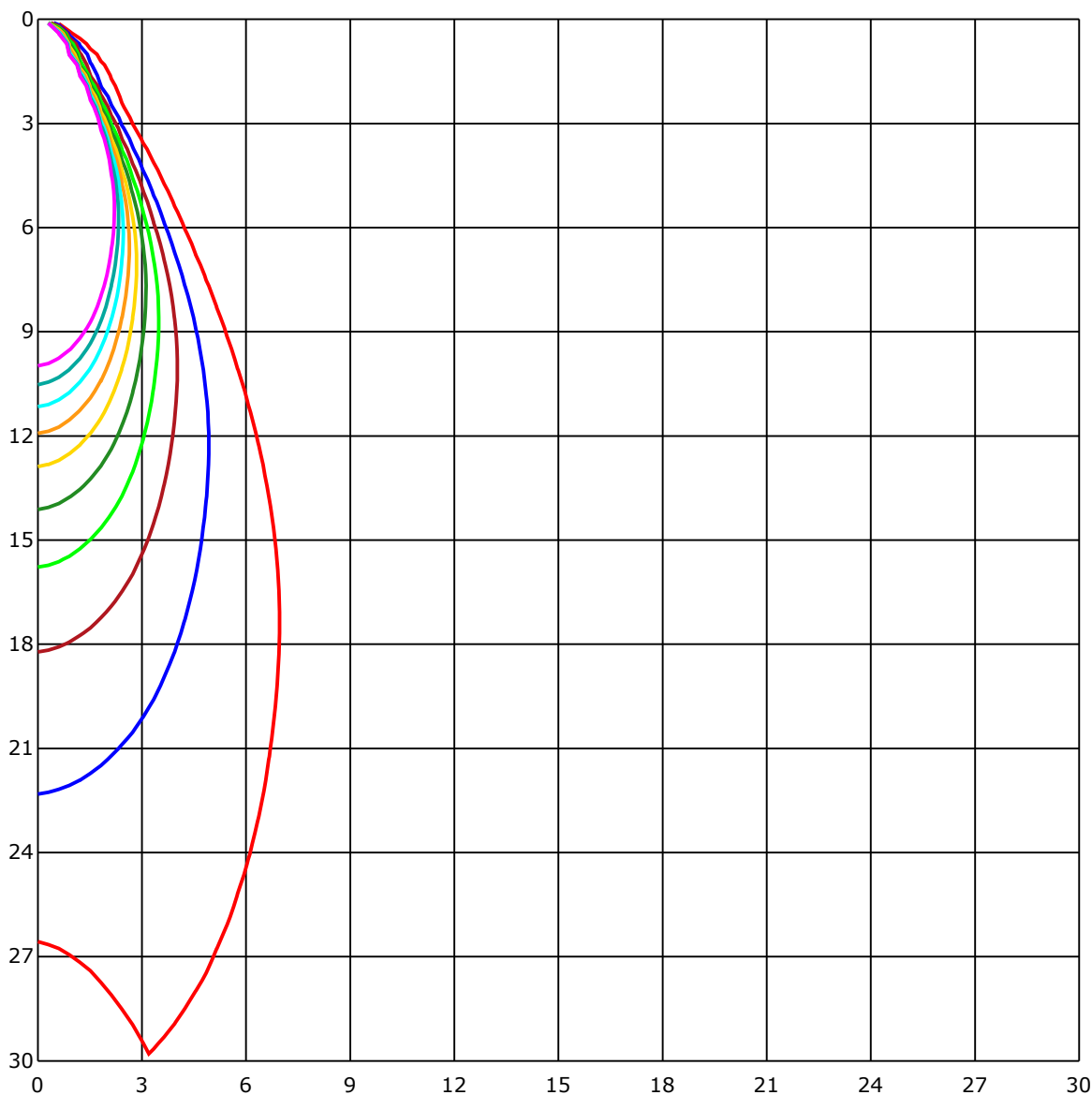
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

44.877
40.39
35.902
31.414
26.926

22.439
17.951
13.463
8.975
4.488

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4469.08	4477.47	4501.73	4481.6	4469.08	4477.47	4501.73	4481.6	4469.08	
G1	4446.22	4453.5	4487.91	4450.71	4486.61	4481.51	4497.97	4496.95	4446.22	
G2	4400.44	4414.59	4459.94	4401.14	4481.14	4472.33	4472.88	4493.84	4400.44	
G3	4343.91	4359.03	4412.78	4332.83	4454.52	4440.79	4429.47	4478.31	4343.91	
G4	4263.36	4289.65	4353.74	4251.99	4408.19	4393.21	4375.72	4442.51	4263.36	
G5	4176.21	4202.88	4277.87	4162.86	4353.37	4331.71	4299.9	4385.46	4176.21	
G6	4068.3	4107.02	4185.21	4047.34	4280.65	4254.87	4215.12	4311.96	4068.3	
G7	3953.75	3985.79	4077.9	3924.62	4196.85	4163.04	4117.46	4226.3	3953.75	
G8	3830.53	3861.69	3954.26	3794.91	4104.61	4058.6	4002.4	4133.87	3830.53	
G9	3686.62	3722.8	3829.79	3647.76	3980.41	3937.98	3876.63	4024.33	3686.62	
G10	3547.91	3570.54	3672.2	3498.2	3857.56	3806.78	3726.46	3893.46	3547.91	
G11	3379.29	3419.08	3519.02	3338.2	3724.46	3663.43	3577.92	3760.5	3379.29	
G12	3225.97	3240.07	3348.77	3176.67	3584.08	3513.69	3412.72	3627.77	3225.97	
G13	3051.5	3070.79	3191.19	3009.62	3430.02	3364.86	3255.28	3468.52	3051.5	
G14	2890.95	2897.49	3013.29	2841.7	3282.18	3206.26	3081.04	3308.89	2890.95	
G15	2719.91	2724.36	2846.66	2679.52	3122.18	3047.33	2910.38	3150.28	2719.91	
G16	2563.21	2560.61	2670.99	2513.4	2961.3	2878.1	2736.0	2987.97	2563.21	
G17	2399.59	2399.69	2507.97	2355.07	2800.98	2718.38	2573.41	2812.15	2399.59	
G18	2238.57	2237.14	2344.13	2202.08	2649.19	2545.26	2395.6	2650.39	2238.57	
G19	2091.52	2083.26	2189.37	2054.14	2494.34	2384.84	2240.57	2487.71	2091.52	
G20	1947.19	1936.57	2032.76	1913.2	2333.92	2228.6	2092.54	2336.2	1947.19	
G21	1806.81	1794.15	1889.04	1771.85	2180.88	2083.21	1950.39	2188.44	1806.81	
G22	1672.28	1661.29	1752.79	1641.53	2037.16	1942.37	1812.61	2048.66	1672.28	
G23	1538.94	1527.81	1623.49	1503.47	1896.27	1808.71	1688.37	1907.87	1538.94	
G24	1403.81	1395.55	1485.94	1369.53	1765.07	1680.02	1556.99	1774.21	1403.81	
G25	1271.35	1266.9	1353.07	1238.89	1627.43	1553.65	1431.82	1640.37	1271.35	
G26	1140.53	1135.89	1222.52	1107.37	1495.26	1424.91	1305.35	1508.62	1140.53	
G27	1013.69	1009.01	1093.13	982.85	1362.44	1299.13	1175.68	1378.11	1013.69	
G28	896.03	884.86	968.05	862.73	1233.6	1169.61	1050.09	1247.24	896.03	
G29	777.03	767.76	848.5	748.83	1107.46	1045.41	924.55	1119.94	777.03	
G30	669.58	655.99	737.43	644.35	989.62	924.41	803.98	997.41	669.58	
G31	575.11	553.55	631.64	547.19	873.49	809.31	696.52	875.53	575.11	
G32	490.24	463.76	533.42	463.2	762.79	699.26	592.22	762.38	490.24	
G33	414.14	386.96	448.55	391.0	659.33	598.9	499.61	656.22	414.14	
G34	351.44	323.29	372.72	331.82	569.31	506.2	417.99	559.99	351.44	
G35	297.64	269.54	311.23	280.2	487.92	427.26	348.79	475.12	297.64	
G36	254.56	226.78	258.08	239.02	417.06	359.88	288.92	401.76	254.56	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	216.85	192.09	217.32	203.96	354.5	303.35	241.25	340.77	216.85	
G38	185.41	163.52	184.16	175.16	303.3	257.2	198.35	289.39	185.41	
G39	159.72	141.08	158.28	151.05	260.63	216.44	160.18	247.28	159.72	
G40	136.25	123.22	138.43	132.45	225.53	178.36	129.95	208.04	136.25	
G41	114.69	109.45	123.27	114.6	191.58	148.68	108.01	171.92	114.69	
G42	99.2	97.81	112.23	99.75	162.08	126.1	93.77	144.23	99.2	
G43	88.07	88.02	102.91	88.95	138.06	110.28	84.64	122.99	88.07	
G44	80.46	80.93	95.53	81.58	119.14	98.92	78.28	107.78	80.46	
G45	74.34	75.78	90.11	75.96	105.27	91.13	73.32	97.07	74.34	
G46	69.75	71.42	84.87	71.56	95.44	84.64	69.29	89.37	69.75	
G47	65.62	67.52	80.46	67.8	88.21	79.86	65.71	83.15	65.62	
G48	62.24	64.23	76.34	64.05	82.22	75.36	62.28	78.24	62.24	
G49	58.94	61.22	72.81	60.89	77.22	71.56	59.36	73.78	58.94	
G50	56.21	58.16	69.52	58.02	73.04	68.03	56.67	69.94	56.21	
G51	53.52	55.37	66.74	55.37	69.24	64.97	54.12	66.46	53.52	
G52	51.01	52.87	63.49	52.78	66.04	61.96	51.48	63.35	51.01	
G53	48.0	50.55	60.61	50.46	62.75	58.94	48.93	60.38	48.0	
G54	45.54	47.63	58.06	47.35	60.01	56.16	46.1	57.65	45.54	
G55	42.99	45.59	55.14	44.98	57.09	53.24	43.83	54.77	42.99	
G56	40.63	43.04	52.45	42.43	54.31	50.69	41.18	52.22	40.63	
G57	37.98	40.58	50.18	39.84	51.57	47.54	38.68	49.48	37.98	
G58	35.57	38.26	46.98	37.29	48.51	44.8	36.54	46.47	35.57	
G59	32.83	35.71	44.47	34.78	45.63	41.88	33.9	43.69	32.83	
G60	30.33	33.07	41.46	32.14	42.71	39.33	31.26	40.95	30.33	
G61	27.73	30.61	38.63	29.36	39.56	36.31	28.47	38.03	27.73	
G62	24.81	28.06	35.76	26.43	36.68	33.53	25.6	35.34	24.81	
G63	21.05	25.09	32.74	23.0	33.72	30.05	21.98	32.37	21.05	
G64	17.85	21.43	29.36	19.06	30.52	25.65	17.67	28.85	17.85	
G65	15.68	18.09	25.18	16.42	26.25	21.89	15.16	24.39	15.68	
G66	13.91	16.09	22.35	14.7	22.77	19.66	13.12	21.47	13.91	
G67	12.24	14.33	20.17	12.94	20.31	17.76	11.59	19.2	12.24	
G68	10.57	12.52	18.18	11.32	18.27	15.86	10.06	17.3	10.57	
G69	9.04	10.85	16.46	9.79	16.46	14.14	8.72	15.54	9.04	
G70	7.88	9.41	14.56	8.25	14.7	12.48	7.37	13.82	7.88	
G71	6.63	8.12	13.17	7.0	13.12	11.13	6.08	12.29	6.63	
G72	5.47	6.96	11.64	6.03	11.73	9.69	4.87	10.99	5.47	
G73	4.68	5.7	10.39	5.01	10.2	8.58	4.03	9.55	4.68	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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