

PHOTOMETRIC MEASUREMENT REPORT N° 001

Photometric measurement date: 9/16/2022

Company: PROIETTA SRL

Operator: Cristina Maftei

Type of photometric measurement: C - Gamma

The measurements have been performed in the following laboratory ambient conditions:

Temperature: 23°C+/-2°C

Relative humidity: 50%U.R.+/-15%U.R.

Air turbulence: < 0.2 m/s

Stabilization time before measurement: 30 seconds

Regulations applied: UNI-EN 13032-4

Electro Magnetic Compatibility (EMC): Shielded instrument

Luminaire name: ARCHILED 12X20 RGBW

Eulumdat reference: 12x20W-B

Size of luminaire (mm): 235 x 0 x 210

Size of luminous area (mm): 185 x 0

Number n of standard sets of lamps (optional): 1

Number of lamps: 1

Type of light source: LED TYANSHINE TX-5050RGBW20

Total luminous flux of the light source (lm): N.A.

Output luminous flux of the lamp (lm): 6644

Colour temperature (K): N.A.

Colour rendering index: N.A.

Supply current (mA): N.A.

Source power (W): 183

Power consumption included source power (W): 220

LED module efficacy (lm/W): N.A.

System light efficacy (lm/W): N.A.

Luminaire light efficacy (lm/W): 30.20

Light Output Ratio of luminaire (LOR): 100

Downward Flux Fraction (DFF): 100

Upward Flux Fraction (UFF): 0.00

Tilt during measurement (for street luminaires): 0

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Luminous intensities

Gamma	C0°	C5°	C10°	C15°	C20°	C25°	C30°	C35°	C40°	C45°	C50°	C55°
0°	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96
1°	7484.02	7476.65	7463.33	7455.58	7452.14	7438.82	7442.34	7437.60	7429.36	7422.77	7412.64	7407.76
2°	7182.05	7185.48	7172.08	7184.12	7184.85	7180.68	7197.29	7197.90	7199.84	7199.13	7197.52	7202.83
3°	6855.74	6868.07	6865.99	6886.19	6895.16	6905.83	6924.88	6934.91	6946.35	6955.27	6961.95	6974.01
4°	6512.75	6531.99	6544.07	6568.62	6584.64	6609.02	6628.23	6647.24	6664.01	6680.94	6695.58	6712.96
5°	6143.24	6168.08	6192.94	6220.09	6244.43	6272.53	6299.95	6326.41	6348.72	6371.53	6391.35	6413.92
6°	5506.18	5529.03	5538.26	5581.25	5610.18	5635.67	5672.19	5699.69	5725.10	5748.22	5773.92	5800.10
7°	4923.88	4945.54	4952.09	4998.42	5030.07	5057.72	5097.57	5130.17	5157.99	5182.97	5210.28	5238.91
8°	4391.05	4412.49	4426.34	4470.45	4502.56	4536.21	4575.13	4613.20	4643.14	4668.36	4697.56	4728.68
9°	3892.76	3915.12	3942.10	3977.99	4013.11	4051.87	4093.93	4134.89	4167.45	4196.37	4226.24	4259.23
10°	3408.98	3432.76	3461.59	3495.12	3531.50	3570.61	3614.90	3655.46	3692.03	3723.30	3756.38	3788.92
11°	2840.84	2863.32	2884.97	2916.72	2948.25	2986.84	3020.16	3054.22	3090.22	3123.05	3152.10	3181.45
12°	2354.78	2380.14	2396.89	2429.29	2455.50	2492.71	2515.47	2542.84	2572.28	2600.60	2624.81	2651.18
13°	1936.35	1962.37	1979.72	2010.09	2036.22	2070.07	2091.54	2118.99	2142.24	2171.19	2193.94	2218.11
14°	1569.69	1595.94	1615.95	1643.19	1668.10	1697.74	1719.39	1743.52	1765.20	1792.59	1815.03	1836.84
15°	1226.69	1248.11	1270.76	1294.23	1316.72	1340.76	1363.83	1386.77	1410.28	1436.89	1458.48	1479.35
16°	944.84	961.75	980.20	1003.56	1022.11	1042.53	1062.31	1080.46	1102.39	1124.68	1144.12	1161.77
17°	709.22	721.19	734.65	754.18	769.80	786.34	802.65	818.91	836.93	856.27	874.54	886.83
18°	543.00	551.28	560.58	575.50	587.55	600.19	612.58	623.99	637.89	651.82	666.34	673.76
19°	420.00	426.43	433.60	445.19	455.63	464.19	474.61	483.54	494.81	504.79	514.94	519.83
20°	324.28	328.97	335.24	343.50	352.14	358.61	366.29	373.38	381.75	389.25	395.87	400.18
21°	253.52	258.29	262.36	268.56	275.58	281.26	285.01	290.67	295.99	299.85	305.30	307.01
22°	203.95	209.06	209.81	215.99	219.96	224.12	226.97	230.73	233.51	235.49	239.25	239.23
23°	169.96	174.23	173.70	179.37	181.55	184.77	187.87	189.98	191.44	193.06	194.96	194.79
24°	144.87	147.56	148.25	151.95	153.56	155.02	158.40	160.10	161.25	162.21	163.19	163.60
25°	122.67	124.66	126.38	128.11	130.12	131.67	133.63	135.33	136.36	137.04	137.86	138.53
26°	106.99	109.82	109.51	111.97	113.19	114.54	115.85	115.91	117.15	116.98	117.68	118.31
27°	94.18	96.17	95.63	97.52	98.19	100.98	101.64	100.95	101.24	101.36	102.24	102.80
28°	84.49	85.91	85.93	87.05	87.84	89.57	90.61	89.37	89.66	89.28	89.88	89.90
29°	74.08	74.52	76.76	76.75	77.86	77.27	80.05	79.70	79.82	80.03	80.54	80.71
30°	66.47	67.07	67.77	68.11	68.58	69.12	69.70	70.09	70.41	70.75	71.18	71.66
31°	61.15	61.09	60.41	60.49	61.06	63.34	61.40	62.02	62.21	62.51	63.07	63.85
32°	56.98	57.53	57.53	56.92	58.44	58.22	57.75	56.82	57.08	56.67	56.93	57.28
33°	51.55	52.50	54.53	54.59	56.40	50.80	56.03	54.58	54.38	54.31	54.02	54.68
34°	46.44	47.76	49.24	49.69	50.50	46.34	51.14	50.23	50.29	50.93	50.41	51.01
35°	42.25	42.58	42.62	42.90	42.88	43.09	43.28	43.59	43.78	43.94	44.11	44.35
36°	38.36	37.87	36.44	34.32	36.69	39.96	34.59	34.95	35.17	34.46	35.51	35.56
37°	36.53	35.75	31.57	30.43	33.95	37.56	30.16	30.28	30.03	29.41	29.89	30.31
38°	34.64	34.04	29.18	29.18	32.40	34.91	28.82	28.53	28.48	28.00	28.44	28.63
39°	31.45	30.52	27.40	28.02	30.31	31.22	27.79	27.75	27.72	27.67	28.12	27.83
40°	25.76	25.84	26.00	26.04	26.27	26.33	26.29	26.37	26.52	26.68	26.81	26.93
41°	21.15	21.98	27.33	25.72	23.03	22.40	26.75	26.44	27.01	26.81	26.57	27.32
42°	18.77	19.27	26.50	23.80	19.92	19.73	26.13	24.72	25.35	24.34	25.50	25.42
43°	18.98	18.99	22.95	21.18	18.97	19.21	23.55	22.10	22.26	21.80	23.54	22.38
44°	19.52	19.71	19.65	19.78	19.04	19.63	20.98	20.38	20.08	20.08	21.40	20.19
45°	19.85	19.90	19.79	19.60	19.74	19.83	19.78	19.75	20.00	19.96	19.98	19.98
46°	19.03	18.12	18.61	18.28	18.36	18.44	18.29	18.10	18.52	17.74	17.50	18.12
47°	17.66	17.21	17.46	17.58	17.35	17.29	17.01	17.05	17.14	16.86	16.04	16.74
48°	16.69	17.00	16.38	16.48	16.32	16.29	16.11	16.25	15.76	16.00	15.47	15.88
49°	15.76	16.49	15.87	15.68	15.48	15.72	15.10	15.51	14.86	15.36	15.14	15.49
50°	15.39	15.46	15.29	14.91	14.76	14.74	14.64	14.71	14.62	14.59	14.77	14.73
51°	14.74	14.57	14.94	14.29	14.44	14.52	14.13	14.04	14.08	13.73	14.06	13.75
52°	14.15	14.12	14.13	13.20	13.84	14.08	13.31	13.20	13.23	12.98	13.29	13.02
53°	13.68	13.49	13.75	12.74	13.33	13.82	12.67	13.14	12.49	12.40	12.50	12.43
54°	13.46	13.07	13.16	12.43	12.62	12.96	12.01	12.24	12.13	11.91	11.93	11.71

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55°	12.65	12.92	12.62	12.28	11.80	11.62	11.59	11.37	11.47	11.42	11.54	11.40
56°	12.64	13.35	12.21	11.91	11.49	10.26	11.11	10.55	10.95	11.14	11.19	11.27
57°	12.62	13.35	11.87	11.28	10.98	9.13	10.60	10.36	10.34	10.71	10.66	10.59
58°	12.34	12.63	11.12	10.43	10.03	8.69	9.79	9.98	9.75	10.22	9.77	9.44
59°	11.04	11.18	10.25	9.76	9.27	8.91	9.20	9.25	9.28	9.35	8.95	8.80
60°	9.76	10.10	9.65	9.34	8.83	8.59	8.59	8.37	8.54	8.45	8.44	8.37
61°	8.42	9.31	9.23	9.42	8.22	7.32	8.13	7.64	8.20	8.05	8.24	8.05
62°	8.54	9.06	8.62	9.03	7.74	6.25	7.27	7.15	7.93	8.00	8.06	7.43
63°	8.23	8.49	8.12	8.41	7.16	6.08	6.38	6.87	7.64	7.31	7.45	7.06
64°	7.84	7.81	7.52	7.41	6.77	6.36	6.25	6.56	6.78	6.43	6.88	6.58
65°	6.78	7.02	6.74	6.47	6.27	6.16	6.09	5.93	5.94	5.87	5.85	5.91
66°	5.82	6.10	5.84	5.60	5.51	5.55	5.73	5.29	5.40	5.75	5.60	5.22
67°	4.96	5.61	5.24	4.82	4.73	4.89	4.79	4.54	5.17	5.47	5.14	4.54
68°	4.73	4.91	4.87	4.25	4.53	4.71	4.52	4.08	4.99	4.99	4.67	4.15
69°	4.68	4.69	4.71	4.17	4.33	4.30	4.11	3.91	4.65	4.52	4.19	4.10
70°	4.37	4.45	4.38	4.16	4.19	4.10	4.09	4.13	4.19	4.23	4.17	4.13
71°	3.82	4.08	3.69	3.84	3.50	3.87	3.76	3.93	3.66	3.97	3.73	3.46
72°	3.28	3.64	3.16	3.46	3.10	3.63	3.48	3.66	3.27	3.73	3.36	2.94
73°	2.95	3.27	2.89	3.40	2.86	3.14	3.13	3.26	3.09	3.33	3.14	2.91
74°	2.71	2.81	2.76	3.00	2.73	2.82	2.79	2.96	2.86	2.92	2.97	2.95
75°	2.63	2.70	2.70	2.69	2.69	2.65	2.69	2.72	2.78	2.81	2.81	2.83
76°	2.29	2.34	2.35	2.25	2.42	2.30	2.25	2.37	2.42	2.58	2.48	2.38
77°	2.04	2.01	1.98	2.05	2.02	1.97	1.88	2.19	2.14	2.27	2.19	2.10
78°	1.86	1.72	1.71	1.88	1.77	1.87	1.67	2.05	1.88	1.97	2.04	1.96
79°	1.71	1.70	1.61	1.71	1.70	1.75	1.67	1.81	1.77	1.90	1.93	1.84
80°	1.52	1.59	1.57	1.59	1.58	1.61	1.60	1.65	1.62	1.78	1.78	1.68
81°	1.56	1.60	1.55	1.63	1.53	1.57	1.56	1.60	1.53	1.71	1.65	1.60
82°	1.48	1.52	1.49	1.60	1.56	1.56	1.51	1.57	1.42	1.55	1.59	1.58
83°	1.43	1.56	1.41	1.56	1.56	1.48	1.46	1.52	1.48	1.58	1.56	1.57
84°	1.40	1.48	1.45	1.51	1.45	1.41	1.44	1.50	1.48	1.52	1.48	1.52
85°	1.43	1.43	1.44	1.44	1.44	1.44	1.43	1.43	1.49	1.49	1.43	1.51
86°	1.54	1.45	1.53	1.42	1.65	1.65	1.59	1.59	1.63	1.66	1.58	1.66
87°	1.66	1.65	1.54	1.54	1.82	1.84	1.71	1.72	1.87	1.92	1.76	1.83
88°	1.82	1.83	1.67	1.73	1.91	1.97	1.83	1.80	1.95	2.08	1.86	1.92
89°	1.97	2.00	1.95	2.00	1.98	2.12	2.01	1.88	1.97	2.12	2.01	2.09
90°	2.31	2.29	2.35	2.29	2.31	2.37	2.28	2.28	2.27	2.27	2.27	2.33
Gamma	C60°	C65°	C70°	C75°	C80°	C85°	C90°	C95°	C100°	C105°	C110°	C115°
0°	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96
1°	7403.43	7399.80	7402.45	7402.29	7404.76	7399.57	7396.99	7391.78	7387.17	7370.95	7369.23	7356.89
2°	7207.72	7213.24	7222.14	7225.97	7233.00	7234.51	7237.94	7238.01	7237.30	7223.29	7222.01	7211.62
3°	6987.84	7002.29	7015.26	7025.31	7036.97	7044.29	7052.48	7055.69	7058.38	7051.63	7050.16	7042.23
4°	6732.75	6752.38	6770.68	6787.55	6803.57	6816.28	6827.22	6834.21	6839.94	6839.94	6838.15	6833.71
5°	6438.36	6462.07	6484.78	6509.64	6529.37	6547.62	6561.15	6572.04	6580.92	6587.62	6587.94	6583.48
6°	5828.07	5851.47	5879.64	5906.27	5925.89	5941.92	5956.43	5969.76	5979.96	5989.64	5992.10	5989.47
7°	5268.55	5293.96	5323.95	5351.50	5371.49	5385.40	5397.91	5410.95	5420.39	5432.98	5436.23	5433.00
8°	4757.99	4783.31	4814.09	4840.55	4861.33	4873.61	4883.28	4896.70	4904.77	4916.61	4919.69	4917.83
9°	4287.86	4315.96	4346.92	4373.01	4393.13	4405.17	4411.52	4424.65	4431.56	4440.80	4444.78	4444.18
10°	3820.30	3849.69	3882.16	3908.41	3928.93	3940.23	3946.63	3958.47	3965.56	3972.97	3978.97	3981.41
11°	3213.55	3238.97	3267.15	3285.71	3302.69	3310.48	3315.56	3326.60	3334.66	3337.78	3347.81	3352.73
12°	2679.35	2698.60	2721.46	2732.94	2747.98	2754.01	2759.60	2769.83	2779.01	2779.43	2790.49	2797.27
13°	2243.95	2259.91	2277.13	2283.15	2295.19	2301.69	2307.22	2316.89	2327.39	2328.67	2337.61	2343.60
14°	1860.95	1874.20	1886.35	1890.76	1900.92	1908.03	1913.84	1920.73	1931.23	1937.33	1945.54	1948.03
15°	1500.59	1513.61	1521.59	1526.37	1533.27	1538.87	1544.20	1550.69	1559.36	1566.79	1573.96	1576.13
16°	1176.88	1184.25	1191.84	1195.86	1201.04	1204.06	1209.71	1214.45	1220.21	1225.80	1231.66	1236.75
17°	898.73	900.54	907.48	909.09	913.75	914.81	918.76	921.31	925.47	928.75	932.56	939.37
18°	681.39	679.52	685.00	685.62	690.19	689.91	693.01	692.86	696.23	699.15	703.62	707.44
19°	523.51	522.78	524.45	526.18	529.18	529.41	531.40	530.14	533.32	535.35	538.60	541.36

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20°	400.78	400.92	402.06	403.18	404.52	405.62	406.54	405.70	407.88	410.17	412.35	415.34
21°	307.79	307.44	308.64	308.36	309.30	310.89	310.66	310.77	312.64	313.35	315.81	317.28
22°	240.80	240.08	241.52	240.79	240.95	241.63	241.81	242.48	244.65	243.43	246.80	246.19
23°	197.15	195.98	196.99	196.30	196.57	197.16	196.90	198.42	199.99	198.75	200.96	200.38
24°	164.21	164.05	164.76	164.30	164.28	164.88	165.09	166.37	167.25	167.73	168.43	168.24
25°	138.76	138.84	138.73	138.33	138.82	139.20	139.69	140.53	141.35	141.89	142.27	142.20
26°	118.26	118.54	118.22	117.46	118.72	118.36	119.25	119.98	120.18	120.32	121.31	120.57
27°	103.66	102.78	103.27	102.12	103.29	103.23	103.74	105.45	105.39	104.39	105.31	104.03
28°	91.34	90.16	91.43	90.42	90.72	90.93	91.77	93.33	93.44	92.62	93.25	92.08
29°	82.10	82.00	82.58	81.99	81.82	82.17	82.92	84.34	84.49	83.65	84.25	83.60
30°	71.81	72.13	72.17	72.13	72.31	72.48	72.73	73.38	73.73	73.87	74.14	74.30
31°	63.60	63.78	63.89	63.55	64.25	63.77	63.95	64.31	64.61	63.08	63.63	63.73
32°	57.36	57.04	57.30	56.66	57.84	56.94	57.34	57.37	57.49	54.35	55.21	54.88
33°	54.64	54.64	54.03	53.58	54.55	54.41	54.34	55.40	54.29	50.54	52.18	51.55
34°	50.69	50.63	50.21	50.89	50.72	51.47	51.13	51.83	51.26	49.01	50.09	49.86
35°	44.43	44.57	44.62	44.65	44.76	44.86	44.92	45.00	45.23	45.37	45.58	45.62
36°	35.75	35.79	36.25	35.65	35.85	35.74	36.19	35.75	36.38	39.90	39.39	39.47
37°	30.60	30.29	30.51	29.48	29.82	30.17	30.18	30.37	30.39	34.19	34.01	34.65
38°	28.24	28.31	28.46	27.61	27.72	28.09	28.11	28.13	28.53	30.27	30.67	31.40
39°	27.45	27.84	28.22	27.47	27.63	27.43	27.61	27.72	28.02	28.09	28.68	29.17
40°	27.04	26.96	26.98	26.90	26.77	26.76	26.83	26.99	27.03	27.16	27.27	27.48
41°	26.84	26.69	27.16	26.82	26.73	26.76	27.20	27.27	27.12	26.24	25.75	26.32
42°	25.01	24.93	26.37	25.17	24.71	24.69	25.68	25.38	25.51	25.09	24.25	25.30
43°	22.67	22.61	24.59	23.09	22.49	22.44	23.51	23.01	22.34	23.78	23.07	23.75
44°	21.58	21.24	22.14	21.12	20.81	20.99	21.01	20.97	20.01	21.96	21.91	22.11
45°	20.01	20.00	20.00	19.75	19.77	19.70	19.72	19.64	19.70	19.79	20.03	20.11
46°	17.61	17.59	17.34	17.73	17.23	17.47	17.13	17.35	18.25	18.14	17.80	18.55
47°	16.76	16.28	16.13	16.85	15.98	16.35	16.12	16.33	17.49	17.09	16.27	16.63
48°	16.33	15.64	15.63	15.88	15.45	15.98	15.42	15.54	16.20	16.02	15.47	15.54
49°	15.42	15.03	15.07	15.13	14.91	15.09	14.95	14.85	15.20	15.04	14.84	14.73
50°	14.65	14.50	14.51	14.47	14.25	14.36	14.43	14.34	14.33	14.40	14.44	14.48
51°	13.98	14.27	14.04	13.90	13.43	13.30	13.76	13.61	13.85	13.33	13.58	13.87
52°	13.90	13.50	12.99	13.21	12.87	12.54	13.39	12.78	12.87	12.47	12.71	13.15
53°	13.24	12.53	12.03	12.46	12.28	12.16	12.85	12.14	12.15	11.87	11.88	12.26
54°	12.25	11.55	11.33	11.81	11.69	11.77	12.05	12.08	11.84	11.58	11.70	11.62
55°	11.37	11.22	11.17	11.26	11.09	11.13	11.38	11.48	11.43	11.29	11.29	11.21
56°	10.84	11.11	10.56	10.72	10.42	10.37	11.21	10.80	11.03	10.53	10.54	10.49
57°	10.00	10.38	9.87	10.01	9.63	9.83	10.85	10.11	10.68	9.85	9.89	9.77
58°	9.17	9.54	9.34	9.52	8.75	9.33	10.13	9.70	10.44	9.07	9.27	9.28
59°	8.83	8.73	9.07	8.81	8.38	8.76	9.32	9.07	9.88	8.60	8.75	8.66
60°	8.27	8.19	8.19	8.19	8.08	8.25	8.27	8.40	8.53	8.28	8.35	8.26
61°	7.64	7.51	7.52	7.89	7.91	7.48	7.77	7.95	7.47	7.76	7.60	7.64
62°	7.23	6.96	7.31	7.85	6.94	6.96	7.41	6.97	6.77	7.17	7.06	7.01
63°	6.59	6.33	7.06	7.11	6.10	6.47	7.12	6.47	6.75	6.57	6.73	6.56
64°	6.27	6.08	6.58	6.38	5.76	6.31	6.17	6.15	6.33	6.16	6.35	6.12
65°	5.81	5.83	5.81	5.79	5.74	5.75	5.68	5.68	5.78	5.80	5.81	5.80
66°	5.80	5.29	5.45	5.21	5.46	5.42	4.96	4.83	5.38	5.25	5.36	5.15
67°	5.40	4.81	5.21	4.44	4.62	4.87	4.23	4.43	4.86	4.69	5.02	4.84
68°	5.02	4.52	4.94	3.94	4.00	4.37	3.95	3.97	4.46	4.34	4.74	4.54
69°	4.48	4.42	4.28	3.77	3.74	3.96	3.97	3.93	3.97	4.08	4.38	4.37
70°	4.09	3.97	3.91	3.91	3.88	3.97	3.87	3.87	3.95	3.98	4.11	4.03
71°	3.60	3.51	3.72	3.63	3.62	3.75	3.28	3.54	3.43	3.75	3.56	3.73
72°	3.21	3.25	3.61	3.24	3.38	3.55	3.15	3.28	3.17	3.56	3.28	3.46
73°	3.05	3.20	3.36	2.88	3.09	3.14	3.04	3.22	2.90	3.27	3.11	3.29
74°	2.85	2.95	2.92	2.81	2.89	2.79	2.90	2.99	2.86	3.02	2.97	3.06
75°	2.72	2.65	2.65	2.65	2.72	2.71	2.75	2.74	2.75	2.79	2.74	2.82
76°	2.30	2.32	2.35	2.27	2.38	2.42	2.40	2.47	2.49	2.46	2.47	2.55

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77°	2.11	2.07	2.30	2.04	2.03	2.08	2.22	2.18	2.14	2.17	2.21	2.29
78°	1.89	1.88	2.05	1.89	1.83	1.92	2.10	1.92	1.89	1.92	1.98	2.05
79°	1.83	1.71	1.78	1.72	1.75	1.76	1.89	1.80	1.76	1.76	1.81	1.82
80°	1.62	1.64	1.64	1.62	1.68	1.62	1.68	1.74	1.68	1.67	1.73	1.71
81°	1.55	1.61	1.72	1.66	1.70	1.54	1.58	1.76	1.61	1.66	1.68	1.67
82°	1.48	1.59	1.65	1.69	1.64	1.56	1.64	1.69	1.54	1.57	1.65	1.62
83°	1.58	1.64	1.50	1.59	1.61	1.51	1.64	1.58	1.56	1.49	1.59	1.58
84°	1.58	1.59	1.48	1.58	1.59	1.48	1.62	1.56	1.58	1.52	1.59	1.55
85°	1.51	1.50	1.50	1.55	1.55	1.50	1.48	1.54	1.54	1.54	1.54	1.54
86°	1.52	1.51	1.63	1.75	1.66	1.67	1.53	1.72	1.65	1.64	1.68	1.71
87°	1.73	1.71	1.78	1.91	1.78	1.83	1.66	1.89	1.78	1.78	1.80	1.90
88°	1.92	2.02	1.93	2.11	1.99	1.88	1.88	2.08	1.91	1.97	1.95	2.03
89°	2.13	2.35	2.04	2.19	2.19	2.01	2.12	2.14	2.06	2.17	2.12	2.13
90°	2.27	2.33	2.34	2.34	2.38	2.37	2.43	2.37	2.37	2.43	2.37	2.37
Gamma	C120°	C125°	C130°	C135°	C140°	C145°	C150°	C155°	C160°	C165°	C170°	C175°
0°	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96
1°	7350.81	7345.97	7337.19	7334.64	7328.00	7326.86	7317.97	7328.36	7303.53	7290.34	7275.09	7266.05
2°	7205.85	7198.78	7193.20	7187.07	7178.83	7173.95	7164.06	7173.04	7132.79	7120.09	7103.65	7092.45
3°	7035.06	7028.53	7022.93	7013.59	7003.69	6994.91	6978.97	6981.08	6936.69	6922.96	6904.33	6889.24
4°	6825.42	6818.29	6811.84	6801.90	6790.38	6780.56	6762.52	6753.93	6711.95	6696.83	6675.12	6656.08
5°	6575.80	6569.14	6561.26	6552.78	6540.86	6525.17	6506.17	6484.71	6460.60	6436.46	6410.43	6383.59
6°	5982.40	5976.24	5966.99	5960.70	5950.55	5941.24	5914.54	5900.73	5872.81	5845.13	5817.72	5791.41
7°	5425.61	5421.80	5410.75	5405.06	5396.69	5392.65	5362.07	5357.87	5322.48	5292.58	5264.70	5238.03
8°	4910.19	4905.93	4896.74	4892.48	4884.78	4883.16	4856.48	4852.57	4809.48	4783.16	4757.04	4733.77
9°	4439.37	4435.00	4427.42	4425.42	4418.36	4409.14	4391.16	4375.57	4346.30	4319.44	4293.47	4269.15
10°	3980.00	3977.77	3972.05	3969.87	3961.18	3948.37	3932.52	3914.46	3890.91	3864.19	3834.74	3804.56
11°	3353.93	3356.54	3354.04	3347.98	3342.06	3345.42	3315.34	3306.71	3276.49	3247.78	3220.94	3203.62
12°	2799.66	2802.97	2802.01	2795.32	2791.89	2809.51	2770.10	2771.38	2729.54	2704.47	2682.52	2676.89
13°	2345.07	2347.44	2345.14	2340.50	2339.49	2351.01	2320.61	2316.63	2283.83	2261.48	2243.04	2242.56
14°	1948.82	1947.92	1945.04	1941.90	1941.76	1949.20	1929.36	1921.94	1896.50	1877.39	1860.06	1855.35
15°	1573.73	1573.60	1572.26	1569.68	1569.66	1569.54	1560.83	1549.93	1531.15	1515.04	1500.85	1491.07
16°	1235.74	1237.66	1236.39	1234.28	1233.01	1233.87	1224.87	1215.24	1199.21	1188.06	1175.57	1166.04
17°	939.68	943.04	941.81	940.35	938.70	936.98	929.56	920.52	910.33	903.05	892.38	885.09
18°	710.87	712.67	710.77	710.84	709.62	710.07	701.45	694.24	688.28	682.89	673.23	667.04
19°	544.47	546.76	546.23	546.17	544.91	544.01	537.46	533.48	527.97	522.70	516.38	511.48
20°	418.01	420.34	420.23	419.42	417.51	414.53	410.99	407.65	403.19	400.20	395.39	390.72
21°	318.70	320.92	320.85	319.77	316.71	312.55	311.18	309.39	305.16	302.96	300.49	298.92
22°	248.01	248.98	247.67	247.26	245.05	241.04	240.97	238.69	236.06	234.46	232.45	233.19
23°	201.17	202.26	200.86	200.58	199.13	196.49	195.45	194.96	192.76	190.80	189.58	189.84
24°	169.03	169.72	168.72	168.41	167.39	165.19	164.02	163.41	162.54	160.48	159.12	158.61
25°	142.51	142.84	142.43	142.13	141.45	140.52	139.74	138.61	137.40	136.31	135.28	134.33
26°	121.43	122.05	121.10	120.35	120.19	120.37	120.73	119.27	118.40	116.23	116.48	116.43
27°	105.14	106.06	105.40	104.06	104.04	104.34	105.54	103.62	104.24	101.29	102.49	102.48
28°	93.12	93.67	93.07	92.70	91.82	92.51	92.88	91.15	91.65	88.42	90.63	91.18
29°	83.83	83.30	83.44	83.47	83.07	83.73	83.46	82.70	82.05	80.50	81.85	80.42
30°	74.45	74.31	74.12	74.05	73.92	73.57	73.40	73.00	72.43	71.96	71.43	70.95
31°	64.40	65.25	64.44	64.11	64.31	67.91	64.31	65.54	63.26	62.88	61.64	65.51
32°	55.67	56.58	55.76	56.43	55.55	64.98	57.98	61.55	54.42	55.56	54.69	60.51
33°	51.98	52.21	52.10	52.73	51.73	60.96	55.72	58.66	51.66	53.66	51.81	54.91
34°	50.05	49.70	49.86	50.31	49.55	51.42	52.02	51.86	49.30	50.85	48.18	48.56
35°	45.68	45.69	45.58	45.62	45.61	45.39	45.31	45.07	44.82	44.44	43.99	43.61
36°	39.48	39.84	40.00	39.29	39.47	43.52	38.30	41.05	39.20	38.52	40.29	36.80
37°	34.54	35.35	36.22	34.73	34.83	41.46	33.94	38.29	34.97	34.54	35.51	32.97
38°	31.37	31.76	32.64	31.38	31.42	36.06	30.99	34.70	31.19	30.98	30.87	30.27
39°	29.15	29.19	29.68	29.40	29.20	30.68	28.66	30.24	28.31	28.13	27.90	28.09
40°	27.44	27.40	27.44	27.38	27.27	27.19	27.12	27.06	26.78	26.56	26.29	26.07
41°	26.13	26.03	26.19	26.08	26.12	25.28	25.74	25.07	25.99	24.31	24.86	26.10

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42°	25.26	24.78	24.92	24.51	24.82	23.47	24.18	23.49	24.92	22.43	23.57	23.84
43°	23.85	23.41	23.71	23.43	23.18	22.01	22.71	22.37	23.35	21.53	22.45	21.22
44°	22.07	22.23	22.50	21.67	21.83	20.95	21.56	21.67	21.82	20.74	21.24	19.58
45°	20.16	20.12	20.05	19.98	19.98	19.92	19.88	19.81	19.65	19.50	19.36	19.18
46°	18.53	18.47	18.55	18.46	17.91	17.85	18.29	17.63	17.74	18.82	18.06	17.16
47°	16.83	16.63	17.45	17.12	16.24	15.65	16.68	15.60	15.88	17.85	16.38	16.46
48°	15.80	15.54	16.64	15.41	15.60	14.36	15.57	14.57	15.31	16.44	14.90	15.66
49°	15.02	14.91	15.14	14.70	15.51	14.20	14.82	14.07	14.64	14.96	13.95	14.65
50°	14.51	14.50	14.48	14.35	14.39	14.28	14.22	14.20	14.09	14.04	13.85	13.75
51°	13.63	13.54	13.49	13.33	13.19	13.50	13.14	13.51	12.94	13.36	13.06	13.64
52°	12.86	12.59	12.90	12.62	12.24	12.58	12.48	12.89	12.19	12.81	12.08	13.27
53°	11.79	11.98	12.34	12.13	11.98	11.79	12.09	12.14	11.27	12.19	11.43	12.63
54°	11.34	11.62	11.90	11.75	11.45	11.28	11.60	11.53	11.09	11.52	11.11	11.53
55°	11.17	11.16	11.14	11.04	11.04	11.06	10.94	10.88	10.85	10.81	10.84	10.77
56°	10.41	10.30	10.08	10.16	10.02	9.85	9.86	10.09	9.95	10.14	10.06	10.19
57°	9.64	9.46	9.34	9.25	9.58	9.03	9.03	9.45	9.25	9.64	9.47	9.61
58°	8.91	9.01	9.01	8.75	9.09	8.39	8.75	8.86	8.91	8.92	8.82	8.71
59°	8.50	8.54	8.56	8.54	8.62	8.30	8.39	8.31	8.47	8.29	8.19	8.01
60°	8.19	8.19	8.16	8.17	8.14	8.02	7.94	7.90	7.84	7.84	7.77	7.69
61°	7.80	7.50	7.37	7.50	7.63	7.60	7.20	7.34	7.16	7.29	7.19	7.21
62°	7.30	7.31	6.89	6.82	7.23	7.04	6.75	6.81	6.67	6.75	6.50	6.60
63°	6.70	6.92	6.48	6.55	6.85	6.54	6.29	6.40	6.20	6.34	5.98	5.86
64°	6.08	6.43	6.08	6.07	6.28	6.18	6.07	5.98	5.80	5.95	5.68	5.46
65°	5.78	5.75	5.74	5.70	5.72	5.66	5.72	5.64	5.54	5.48	5.34	5.25
66°	5.48	5.17	5.38	5.21	5.28	5.42	5.19	5.20	5.15	4.85	4.86	5.32
67°	5.00	4.83	4.99	4.86	4.93	5.02	4.78	4.82	4.75	4.38	4.50	5.03
68°	4.55	4.59	4.64	4.54	4.51	4.78	4.50	4.44	4.37	4.13	4.09	4.54
69°	4.19	4.40	4.43	4.20	4.24	4.40	4.21	4.18	4.13	3.88	3.79	4.02
70°	4.07	4.05	4.18	4.10	4.11	4.09	3.97	3.88	3.80	3.70	3.67	3.61
71°	3.69	3.68	3.87	3.80	3.75	3.65	3.73	3.61	3.45	3.40	3.48	3.41
72°	3.35	3.44	3.71	3.63	3.45	3.36	3.48	3.19	3.21	3.06	3.16	3.29
73°	3.08	3.18	3.45	3.31	3.20	3.21	3.11	2.90	3.05	2.82	2.88	3.08
74°	2.96	2.99	3.11	3.11	3.02	3.04	2.87	2.74	2.80	2.70	2.68	2.69
75°	2.82	2.86	2.85	2.88	2.90	2.78	2.72	2.65	2.62	2.60	2.60	2.55
76°	2.55	2.63	2.57	2.60	2.60	2.43	2.44	2.37	2.36	2.30	2.27	2.18
77°	2.24	2.33	2.27	2.34	2.30	2.24	2.19	2.18	2.13	1.97	2.00	1.95
78°	2.03	2.09	2.07	2.12	2.08	2.01	1.98	2.06	1.91	1.72	1.70	1.70
79°	1.87	1.90	1.90	1.96	1.93	1.80	1.83	1.87	1.78	1.58	1.54	1.51
80°	1.75	1.81	1.80	1.78	1.80	1.71	1.67	1.69	1.63	1.53	1.41	1.42
81°	1.70	1.81	1.76	1.70	1.69	1.70	1.65	1.67	1.56	1.55	1.42	1.53
82°	1.65	1.71	1.71	1.63	1.65	1.62	1.58	1.65	1.51	1.53	1.43	1.57
83°	1.63	1.55	1.63	1.62	1.58	1.59	1.54	1.59	1.52	1.54	1.47	1.49
84°	1.56	1.53	1.59	1.57	1.57	1.64	1.53	1.55	1.53	1.49	1.47	1.43
85°	1.53	1.54	1.54	1.54	1.54	1.59	1.54	1.55	1.48	1.48	1.43	1.44
86°	1.64	1.66	1.66	1.60	1.67	1.69	1.66	1.67	1.61	1.63	1.54	1.62
87°	1.82	1.73	1.79	1.80	1.80	1.85	1.80	1.78	1.82	1.84	1.72	1.70
88°	1.95	1.91	1.94	2.00	1.96	2.00	1.98	1.90	2.05	1.96	1.92	1.83
89°	2.11	2.13	2.09	2.27	2.17	2.06	2.17	2.07	2.18	2.10	2.14	2.02
90°	2.33	2.33	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38
Gamma	C180°	C185°	C190°	C195°	C200°	C205°	C210°	C215°	C220°	C225°	C230°	C235°
0°	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96
1°	7251.58	7240.28	7231.40	7219.30	7208.45	7194.48	7183.98	7170.55	7160.68	7143.87	7131.79	7116.39
2°	7071.02	7053.03	7036.89	7018.98	6999.13	6979.88	6960.45	6941.09	6923.25	6896.78	6874.28	6849.99
3°	6867.06	6842.96	6818.55	6792.81	6766.17	6743.00	6716.38	6690.21	6662.70	6630.65	6601.62	6568.30
4°	6627.02	6598.97	6569.68	6539.69	6510.12	6481.37	6450.57	6417.06	6382.59	6345.16	6310.76	6269.78
5°	6352.50	6321.32	6286.18	6251.73	6217.77	6184.97	6150.68	6111.97	6072.37	6028.12	5987.07	5945.96
6°	5756.89	5726.32	5690.04	5655.75	5618.52	5584.52	5551.77	5512.20	5474.19	5429.05	5382.38	5327.39

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7°	5207.15	5176.16	5140.57	5104.57	5065.10	5033.29	5001.98	4961.15	4920.18	4878.29	4829.82	4767.79
8°	4701.48	4671.60	4638.02	4601.58	4562.43	4529.81	4498.07	4457.97	4415.31	4373.63	4324.77	4266.98
9°	4236.49	4206.64	4174.08	4135.81	4098.04	4062.86	4030.37	3991.80	3948.11	3903.81	3854.78	3804.03
10°	3773.00	3743.01	3709.28	3670.69	3633.29	3597.74	3562.35	3526.55	3486.11	3440.61	3391.77	3344.11
11°	3175.13	3148.58	3120.02	3083.98	3046.80	3012.87	2979.56	2946.64	2914.34	2873.09	2831.80	2782.32
12°	2652.50	2630.46	2605.93	2578.52	2543.55	2512.42	2482.62	2454.78	2428.03	2391.11	2357.59	2308.93
13°	2223.49	2203.61	2182.36	2156.73	2123.96	2091.49	2063.97	2037.40	2011.30	1979.50	1952.49	1909.19
14°	1841.82	1824.68	1805.10	1782.81	1754.34	1723.27	1695.66	1673.21	1648.57	1622.08	1597.73	1561.00
15°	1479.21	1465.41	1447.22	1426.53	1403.20	1374.79	1350.54	1328.09	1306.92	1284.66	1262.40	1235.30
16°	1153.95	1142.63	1126.67	1115.23	1098.79	1082.40	1063.79	1044.80	1026.87	1008.62	989.24	966.75
17°	874.70	864.24	851.80	846.11	832.84	824.64	810.97	797.16	782.16	766.87	751.87	735.08
18°	659.04	650.94	643.13	640.50	631.46	628.59	619.26	613.10	601.52	589.32	577.51	563.96
19°	505.00	499.94	494.01	492.32	487.49	485.85	480.50	476.39	468.20	457.63	447.27	437.76
20°	385.84	382.00	377.90	376.40	374.61	374.08	370.61	366.53	361.03	353.91	345.15	337.68
21°	296.19	292.67	290.04	291.43	289.14	288.37	286.55	282.77	280.57	275.44	269.22	260.94
22°	231.83	229.58	228.19	230.86	227.36	226.98	226.01	223.55	222.76	219.82	215.39	207.81
23°	189.62	188.88	187.32	189.40	186.16	186.58	185.91	184.05	184.19	181.57	177.92	171.20
24°	158.27	158.31	157.58	157.66	155.91	156.45	155.84	154.97	154.50	153.41	150.16	144.91
25°	133.56	132.77	132.24	132.10	131.53	131.46	131.16	130.72	129.99	128.35	126.22	123.37
26°	113.50	114.07	113.13	113.81	113.80	113.19	112.90	112.99	112.45	111.02	109.12	107.38
27°	99.53	100.22	99.29	99.79	99.56	99.21	97.81	98.02	97.41	96.11	94.57	93.07
28°	88.34	89.23	88.69	89.08	88.19	88.58	87.23	87.58	86.55	86.72	85.56	82.16
29°	80.58	79.98	79.87	79.41	78.88	78.57	77.45	77.31	76.35	76.48	75.55	73.30
30°	70.47	70.04	69.53	69.19	68.91	68.64	68.15	67.94	67.55	66.98	66.21	65.20
31°	60.98	60.32	60.03	59.73	59.89	59.47	58.82	58.95	57.95	57.50	57.22	58.33
32°	53.94	54.26	53.35	54.09	54.28	54.47	53.44	54.59	53.19	53.12	53.92	54.05
33°	51.87	52.12	51.69	51.59	52.76	52.48	51.65	52.29	51.06	50.81	51.79	51.12
34°	48.86	48.63	47.99	47.63	48.10	47.98	47.96	47.41	47.24	46.66	47.23	46.17
35°	43.32	43.14	42.86	42.67	42.67	42.49	42.24	41.91	41.80	41.38	41.15	40.87
36°	36.71	37.48	36.43	37.64	36.93	36.97	36.22	36.78	36.13	35.80	35.28	35.80
37°	32.02	32.82	31.85	33.23	32.54	33.08	32.33	32.88	32.26	31.72	31.14	31.39
38°	29.41	29.57	29.31	30.23	29.35	29.47	29.43	29.19	29.00	28.71	28.81	28.51
39°	27.47	27.10	27.71	27.75	27.32	27.13	27.09	26.77	26.99	26.85	26.95	26.71
40°	25.93	25.78	25.78	25.73	25.70	25.71	25.57	25.52	25.44	25.37	25.21	25.05
41°	24.95	25.20	24.61	24.67	24.80	24.98	25.13	24.95	24.90	24.48	24.46	22.80
42°	24.01	23.98	23.54	24.12	23.77	23.64	24.14	23.44	23.52	23.14	23.37	21.48
43°	22.53	22.35	22.51	22.77	22.37	22.42	22.22	21.85	22.14	21.67	22.07	20.55
44°	21.07	20.74	21.07	20.97	20.68	20.97	20.69	20.33	20.46	20.42	20.28	19.92
45°	19.08	19.02	18.98	19.07	19.13	19.15	19.12	18.98	18.93	18.92	18.90	18.78
46°	17.20	17.30	17.57	17.92	18.09	17.65	18.18	17.54	17.70	17.95	17.80	17.85
47°	15.63	16.19	16.35	16.45	16.75	16.38	16.93	16.68	16.43	16.63	16.73	16.49
48°	15.16	15.02	15.54	15.12	15.22	14.74	15.73	15.50	15.25	15.19	15.75	15.59
49°	14.61	13.90	14.15	14.01	13.93	13.98	14.52	14.74	14.51	14.02	14.77	14.86
50°	13.72	13.69	13.68	13.78	13.85	13.91	13.89	13.94	14.06	14.17	14.25	14.17
51°	12.39	13.27	12.82	12.99	13.48	13.35	13.36	12.94	13.25	13.65	13.09	13.47
52°	11.85	12.39	12.41	12.23	13.01	12.66	12.39	12.09	12.52	13.15	12.58	12.76
53°	11.41	11.31	11.73	11.27	12.00	12.11	11.63	11.76	12.05	12.25	12.20	12.24
54°	11.08	10.95	11.06	10.90	11.14	11.57	11.06	11.42	11.67	11.89	11.86	11.81
55°	10.73	10.73	10.63	10.69	10.62	10.82	10.87	10.95	11.09	11.21	11.38	11.01
56°	10.07	9.83	9.77	9.83	9.89	9.85	10.05	10.10	10.13	10.54	10.46	10.06
57°	9.43	9.00	9.14	8.96	9.18	9.00	9.52	9.58	9.63	9.70	9.86	9.52
58°	8.95	8.56	8.63	8.41	8.66	8.62	8.93	9.05	9.21	9.10	9.20	9.14
59°	8.28	8.17	8.21	8.07	8.26	8.37	8.49	8.46	8.72	8.68	8.64	8.65
60°	7.69	7.69	7.69	7.69	7.76	7.89	7.99	8.01	8.14	8.22	8.31	8.13
61°	6.92	6.86	7.11	7.05	7.03	7.25	7.38	7.44	7.37	7.44	7.79	7.50
62°	6.47	6.35	6.60	6.46	6.48	6.72	6.70	6.73	6.84	7.08	7.20	6.80
63°	6.02	5.88	6.07	5.94	6.10	6.42	6.36	6.22	6.55	6.77	6.66	6.26

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64°	5.65	5.65	5.55	5.63	5.73	5.96	6.04	5.88	6.14	6.28	6.12	5.76
65°	5.19	5.25	5.34	5.45	5.49	5.63	5.72	5.65	5.76	5.75	5.76	5.62
66°	4.69	4.81	4.94	5.07	5.02	5.04	5.10	5.23	5.43	5.43	5.21	5.24
67°	4.29	4.45	4.40	4.61	4.68	4.61	4.59	4.79	5.12	5.00	4.78	4.86
68°	3.96	4.18	4.01	4.24	4.32	4.32	4.25	4.43	4.64	4.59	4.37	4.44
69°	3.72	3.81	3.77	3.88	4.03	4.06	3.99	4.15	4.27	4.24	4.20	4.21
70°	3.55	3.61	3.61	3.63	3.70	3.82	3.79	3.94	3.98	4.09	4.02	3.97
71°	3.33	3.32	3.29	3.32	3.45	3.45	3.41	3.55	3.70	3.78	3.77	3.52
72°	3.08	3.11	3.15	3.03	3.23	3.22	3.06	3.21	3.31	3.45	3.48	3.09
73°	2.98	2.93	2.93	2.79	2.99	2.98	2.83	2.93	3.00	3.19	3.19	2.85
74°	2.77	2.76	2.72	2.66	2.68	2.79	2.67	2.75	2.78	2.92	2.89	2.65
75°	2.56	2.52	2.53	2.53	2.53	2.57	2.55	2.61	2.70	2.69	2.65	2.59
76°	2.15	2.15	2.26	2.16	2.30	2.31	2.29	2.36	2.40	2.36	2.30	2.33
77°	1.87	1.94	1.99	1.87	2.07	2.08	2.15	2.09	2.12	2.13	2.01	2.08
78°	1.60	1.75	1.73	1.67	1.78	1.88	1.98	1.90	1.91	2.00	1.83	1.83
79°	1.43	1.57	1.55	1.52	1.58	1.69	1.76	1.71	1.75	1.83	1.66	1.69
80°	1.34	1.40	1.43	1.41	1.51	1.58	1.57	1.61	1.61	1.61	1.56	1.58
81°	1.36	1.39	1.45	1.35	1.52	1.51	1.49	1.55	1.55	1.50	1.50	1.56
82°	1.34	1.43	1.37	1.33	1.47	1.47	1.50	1.51	1.49	1.53	1.44	1.50
83°	1.39	1.48	1.35	1.32	1.47	1.44	1.49	1.50	1.49	1.55	1.37	1.44
84°	1.43	1.47	1.39	1.37	1.48	1.49	1.46	1.51	1.48	1.52	1.43	1.44
85°	1.43	1.40	1.44	1.39	1.49	1.43	1.42	1.42	1.43	1.43	1.43	1.44
86°	1.50	1.52	1.54	1.51	1.56	1.53	1.53	1.50	1.51	1.55	1.55	1.57
87°	1.70	1.73	1.68	1.58	1.69	1.66	1.67	1.73	1.66	1.65	1.68	1.62
88°	1.90	1.91	1.88	1.73	1.80	1.89	1.80	1.94	1.86	1.78	1.90	1.72
89°	2.10	2.08	2.10	1.98	2.04	2.09	2.02	2.07	2.08	1.91	2.05	1.86
90°	2.31	2.37	2.29	2.31	2.31	2.33	2.28	2.28	2.27	2.19	2.27	2.20
Gamma	C240°	C245°	C250°	C255°	C260°	C265°	C270°	C275°	C280°	C285°	C290°	C295°
0°	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96
1°	7121.89	7097.36	7096.57	7074.54	7065.25	7059.74	7046.03	7035.80	7036.05	7035.69	7023.37	7022.19
2°	6850.27	6815.14	6809.20	6780.49	6766.60	6751.14	6730.05	6717.33	6712.64	6711.41	6705.76	6702.70
3°	6557.45	6518.47	6500.17	6471.66	6452.97	6433.07	6408.92	6394.64	6382.26	6378.85	6381.10	6376.50
4°	6247.27	6207.66	6178.05	6145.98	6122.48	6099.35	6075.31	6057.77	6042.52	6036.52	6037.91	6032.64
5°	5906.12	5865.30	5828.18	5794.49	5765.70	5739.54	5717.25	5697.40	5681.11	5671.54	5661.78	5655.90
6°	5292.05	5247.09	5216.80	5186.37	5148.85	5123.17	5099.39	5077.67	5061.90	5048.67	5025.23	5019.77
7°	4739.11	4690.38	4664.30	4624.21	4591.42	4568.83	4540.90	4518.55	4502.61	4484.08	4461.86	4456.19
8°	4234.87	4186.05	4154.95	4106.52	4077.83	4056.17	4024.93	4001.02	3984.91	3964.88	3947.94	3940.79
9°	3762.76	3716.40	3680.00	3632.20	3601.38	3574.36	3543.62	3519.40	3502.11	3484.32	3466.50	3458.73
10°	3298.37	3256.50	3217.58	3178.72	3141.95	3109.78	3082.27	3057.82	3037.62	3021.49	3005.41	2995.42
11°	2745.88	2703.47	2671.93	2651.67	2611.69	2586.37	2564.52	2544.46	2526.68	2512.70	2497.98	2492.14
12°	2279.85	2236.67	2206.48	2188.39	2151.56	2129.05	2110.92	2091.61	2076.25	2064.95	2049.55	2046.40
13°	1880.68	1840.27	1811.12	1789.78	1757.84	1736.52	1720.18	1703.34	1689.94	1679.51	1663.42	1660.74
14°	1531.68	1496.76	1467.67	1441.30	1412.78	1390.09	1376.48	1361.29	1347.13	1336.09	1323.80	1318.62
15°	1205.64	1176.21	1148.71	1122.06	1097.39	1077.83	1066.30	1052.29	1039.41	1029.21	1019.91	1014.99
16°	942.58	914.21	888.59	864.78	842.75	825.23	814.04	802.12	791.77	786.05	777.79	774.91
17°	716.66	692.00	671.27	651.42	634.09	621.61	611.64	603.09	596.00	593.45	586.36	585.26
18°	552.13	531.95	515.81	498.33	485.42	476.06	468.36	462.68	458.07	456.28	450.66	450.17
19°	427.38	413.05	400.02	386.10	376.22	368.43	362.66	357.91	354.60	352.68	349.53	349.79
20°	328.81	319.08	309.88	300.58	292.69	285.91	281.20	277.97	275.63	274.33	274.07	274.90
21°	256.72	247.14	241.68	234.76	228.33	225.69	221.19	218.79	217.63	216.12	218.42	218.00
22°	205.90	196.25	192.75	186.70	182.17	181.61	177.80	175.90	175.55	174.44	177.16	176.27
23°	169.17	161.26	158.45	154.82	150.77	150.93	147.22	145.85	145.15	145.37	147.26	147.23
24°	141.40	136.74	134.75	132.62	128.93	126.82	125.28	123.32	123.25	123.15	124.11	124.60
25°	120.54	118.09	116.14	114.03	112.02	110.33	108.75	107.69	107.32	107.07	107.00	106.89
26°	105.58	103.78	102.77	97.07	98.23	97.06	95.53	94.58	94.32	94.50	93.50	93.92
27°	91.93	90.71	89.67	85.04	86.39	87.12	84.48	84.42	83.66	85.56	84.05	84.65
28°	82.51	81.86	80.23	75.46	77.72	77.27	75.46	75.29	74.49	75.58	75.04	74.70

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29°	72.85	73.13	70.44	67.43	68.81	69.13	67.19	67.51	66.26	66.85	67.28	66.26
30°	64.29	63.58	62.66	61.92	61.15	60.53	60.12	59.83	59.55	59.44	59.37	59.24
31°	58.34	55.13	57.15	58.53	57.48	55.25	57.58	57.46	57.51	56.17	55.43	55.88
32°	55.02	51.41	53.78	49.80	54.49	52.38	56.16	57.01	56.49	52.41	52.77	52.96
33°	50.75	48.41	48.34	41.84	47.57	48.49	51.30	51.75	50.87	47.42	47.97	48.21
34°	44.66	44.27	43.03	38.96	41.59	43.23	43.96	44.16	43.66	42.27	42.35	42.58
35°	40.53	39.98	39.64	39.25	38.85	38.50	38.27	38.18	38.14	37.96	37.91	37.90
36°	34.84	36.47	34.77	35.50	34.13	33.58	32.84	33.30	33.82	32.39	33.65	32.64
37°	30.12	31.96	30.15	30.65	30.43	30.37	30.54	31.17	31.05	28.71	30.10	29.04
38°	27.04	27.77	27.04	27.37	27.81	28.19	28.63	29.38	28.95	26.59	27.24	26.83
39°	25.63	25.21	25.24	25.98	25.96	26.49	26.46	26.74	26.15	25.15	25.12	25.24
40°	24.87	24.73	24.54	24.38	24.08	23.89	23.82	23.66	23.54	23.56	23.58	23.66
41°	24.86	23.86	24.62	23.30	23.11	22.22	22.50	22.60	22.11	22.94	22.99	22.58
42°	24.28	22.81	23.93	22.55	21.94	20.19	21.70	21.71	21.59	21.88	21.75	20.92
43°	23.31	21.88	22.50	21.57	20.94	19.09	20.98	21.12	20.66	20.44	19.97	19.43
44°	21.57	20.68	20.85	19.83	19.85	18.31	19.82	19.78	19.62	19.02	18.78	18.64
45°	18.71	18.56	18.54	18.56	18.43	18.55	18.34	18.17	18.10	17.95	17.94	17.92
46°	16.02	16.89	16.32	17.32	16.52	18.16	17.50	16.74	16.93	16.90	16.90	16.39
47°	14.30	15.38	14.55	16.00	14.88	17.03	16.57	15.97	15.79	15.54	15.00	15.12
48°	13.78	14.56	13.75	14.83	13.89	15.59	15.60	15.34	15.15	14.03	13.85	14.01
49°	13.71	14.32	13.74	14.31	14.11	14.64	14.70	14.73	14.42	13.59	13.42	13.80
50°	13.95	13.90	14.01	14.01	14.28	14.37	14.16	13.97	13.73	13.78	13.58	13.54
51°	13.26	12.82	13.45	13.34	13.70	13.50	13.68	13.29	12.99	13.18	13.03	13.08
52°	12.70	12.21	12.67	12.79	13.00	12.80	13.17	12.77	12.61	12.60	12.47	12.17
53°	12.07	11.81	11.96	12.30	12.36	12.26	13.00	12.39	12.20	12.27	11.79	11.61
54°	11.47	11.32	11.40	11.81	11.85	11.97	12.49	11.91	11.76	11.74	11.19	11.18
55°	10.97	11.02	11.11	11.21	11.45	11.42	11.57	11.27	11.15	11.05	10.85	10.73
56°	10.21	10.40	10.32	10.39	10.68	10.63	10.68	10.86	10.53	10.06	10.18	9.80
57°	9.66	9.95	9.68	9.61	10.00	10.06	10.49	10.24	10.04	9.50	9.66	9.02
58°	9.16	9.38	9.23	9.15	9.41	9.53	9.88	9.43	9.41	9.09	8.98	8.60
59°	8.64	8.80	8.68	8.57	8.80	9.14	9.02	8.50	8.72	8.68	8.42	8.29
60°	8.14	8.13	8.21	8.22	8.31	8.38	8.54	8.38	8.14	8.09	7.93	7.96
61°	7.57	7.32	7.66	7.57	7.63	7.79	7.91	7.73	7.57	7.40	7.17	7.24
62°	7.18	6.88	7.17	7.32	7.06	7.12	7.34	7.16	7.05	6.93	6.62	6.57
63°	6.72	6.44	6.70	6.78	6.55	6.71	6.75	6.70	6.48	6.61	6.34	6.31
64°	6.23	6.10	6.12	6.23	6.14	6.19	6.36	6.29	6.05	6.15	6.06	6.01
65°	5.77	5.78	5.74	5.78	5.77	5.87	6.00	5.91	5.85	5.81	5.59	5.59
66°	5.26	5.32	5.08	5.37	5.24	5.34	5.43	5.32	5.28	5.24	4.92	4.90
67°	4.82	4.90	4.73	4.96	4.81	5.00	4.91	4.85	4.72	4.82	4.40	4.57
68°	4.49	4.45	4.36	4.41	4.38	4.64	4.52	4.43	4.41	4.38	4.10	4.32
69°	4.16	4.15	4.11	4.02	4.10	4.33	4.22	4.08	4.11	3.97	3.93	4.02
70°	3.86	3.83	3.80	3.70	3.80	3.91	3.91	3.82	3.79	3.67	3.62	3.68
71°	3.39	3.54	3.46	3.48	3.50	3.48	3.49	3.39	3.40	3.29	3.17	3.24
72°	3.09	3.21	3.24	3.20	3.15	3.14	3.20	3.21	3.07	3.00	2.96	3.00
73°	2.87	2.97	3.00	2.87	2.91	2.86	2.96	2.95	2.73	2.72	2.80	2.69
74°	2.78	2.73	2.77	2.62	2.68	2.66	2.74	2.68	2.53	2.54	2.55	2.51
75°	2.54	2.51	2.47	2.47	2.50	2.48	2.50	2.45	2.40	2.36	2.35	2.31
76°	2.24	2.19	2.18	2.36	2.19	2.13	2.14	2.20	2.15	2.06	2.14	2.07
77°	1.94	1.97	1.98	2.09	1.89	1.87	1.84	2.00	1.93	1.86	1.93	1.79
78°	1.79	1.82	1.80	1.83	1.73	1.73	1.67	1.79	1.72	1.71	1.71	1.66
79°	1.60	1.62	1.62	1.55	1.58	1.57	1.55	1.63	1.53	1.57	1.52	1.52
80°	1.50	1.44	1.51	1.45	1.45	1.45	1.45	1.45	1.42	1.42	1.40	1.38
81°	1.51	1.39	1.51	1.44	1.41	1.46	1.44	1.41	1.46	1.38	1.39	1.34
82°	1.52	1.37	1.46	1.50	1.38	1.41	1.41	1.40	1.45	1.36	1.41	1.37
83°	1.50	1.36	1.43	1.45	1.36	1.36	1.40	1.40	1.41	1.37	1.40	1.38
84°	1.50	1.36	1.41	1.42	1.36	1.37	1.39	1.41	1.45	1.36	1.41	1.36
85°	1.44	1.36	1.43	1.43	1.37	1.36	1.37	1.37	1.37	1.33	1.38	1.33

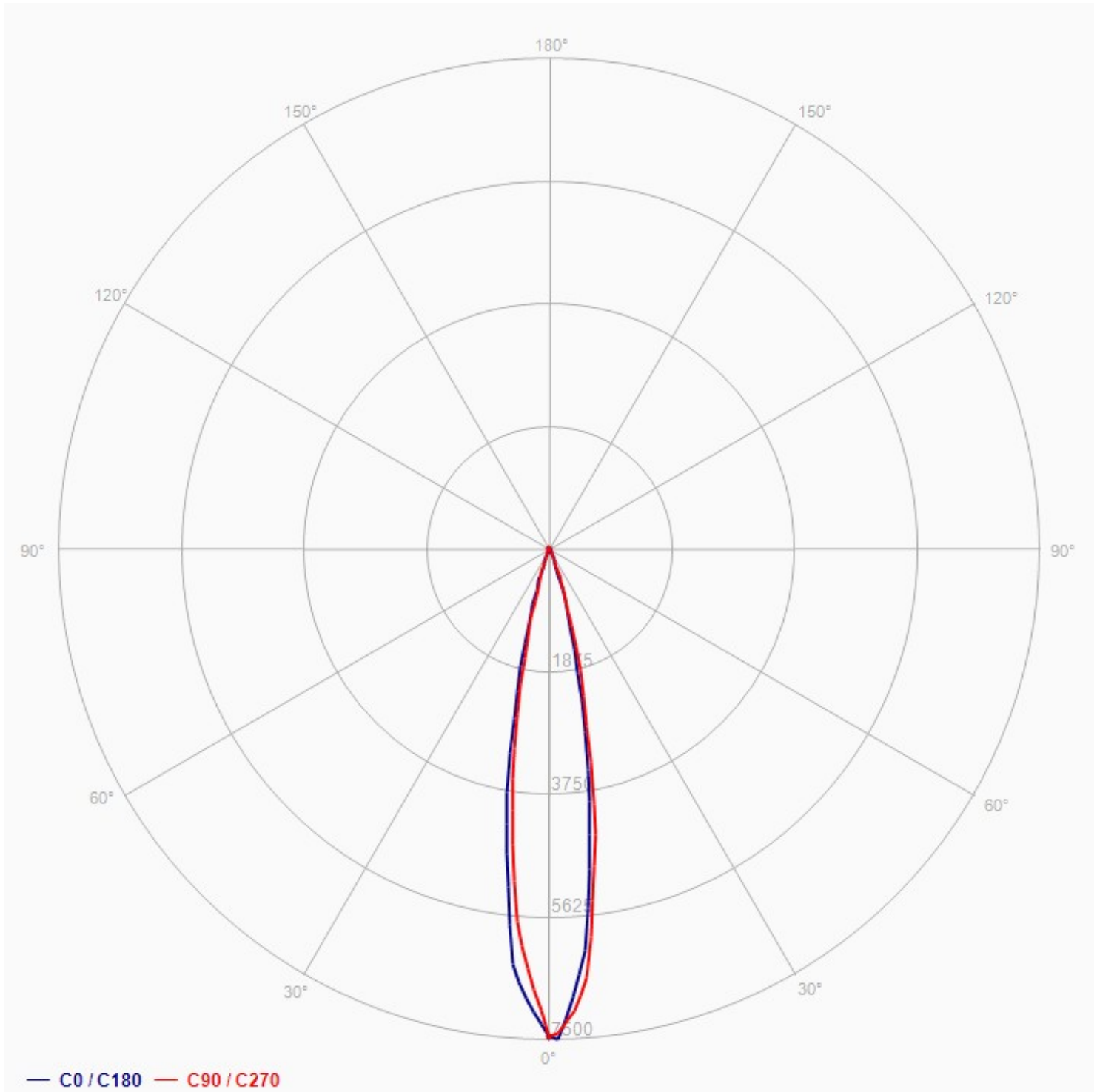
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86°	1.55	1.50	1.59	1.54	1.41	1.43	1.40	1.50	1.44	1.42	1.51	1.50
87°	1.67	1.61	1.74	1.64	1.53	1.53	1.56	1.62	1.54	1.57	1.59	1.66
88°	1.86	1.74	1.87	1.78	1.74	1.69	1.80	1.77	1.75	1.69	1.67	1.78
89°	1.97	1.89	1.99	2.00	2.05	1.89	2.10	1.90	1.84	1.83	1.79	1.89
90°	2.22	2.22	2.22	2.22	2.22	2.16	2.18	2.15	2.15	2.10	2.10	2.12
Gamma	C300°	C305°	C310°	C315°	C320°	C325°	C330°	C335°	C340°	C345°	C350°	C355°
0°	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96	7446.96
1°	7023.48	7004.87	7020.82	7018.84	7009.54	7008.66	7006.62	7006.58	7002.09	7007.72	7015.26	7020.49
2°	6701.65	6681.03	6699.08	6697.54	6685.17	6686.98	6690.68	6686.59	6691.93	6700.79	6702.04	6725.85
3°	6370.95	6351.61	6366.65	6364.28	6351.92	6356.15	6359.91	6357.91	6369.60	6382.17	6383.63	6416.11
4°	6025.41	6008.06	6016.93	6015.06	6010.26	6010.23	6018.01	6021.72	6031.89	6045.88	6058.79	6087.87
5°	5648.29	5641.21	5637.70	5636.18	5637.19	5640.58	5644.73	5653.75	5668.02	5686.09	5708.78	5732.39
6°	5015.30	5025.35	5017.38	5018.32	5024.83	5030.36	5028.64	5050.31	5060.66	5081.07	5107.34	5133.76
7°	4451.35	4462.54	4453.92	4455.90	4461.32	4475.11	4462.23	4490.77	4508.76	4531.59	4556.90	4588.32
8°	3933.72	3938.04	3930.89	3934.51	3941.85	3958.19	3948.04	3974.38	4000.14	4020.37	4045.76	4079.04
9°	3451.21	3448.89	3444.93	3449.94	3459.60	3472.16	3473.85	3493.84	3520.39	3543.20	3569.82	3601.84
10°	2989.62	2985.57	2986.62	2991.06	3000.45	3010.53	3021.95	3037.15	3058.13	3081.81	3109.90	3142.70
11°	2487.17	2487.42	2489.33	2491.67	2490.16	2500.99	2514.84	2530.82	2546.92	2571.74	2598.13	2631.63
12°	2039.75	2041.49	2040.23	2041.07	2039.42	2050.64	2063.41	2082.10	2095.64	2118.06	2145.53	2176.07
13°	1653.77	1654.50	1650.96	1652.62	1653.42	1662.01	1675.21	1693.15	1705.99	1727.69	1754.37	1780.92
14°	1312.73	1314.75	1313.28	1314.47	1317.08	1323.72	1337.17	1351.72	1362.46	1383.17	1407.46	1429.57
15°	1012.16	1011.71	1012.13	1012.90	1015.94	1022.78	1032.36	1042.98	1055.87	1073.35	1093.71	1111.86
16°	774.45	772.14	775.48	776.94	779.96	785.44	791.74	796.21	807.76	819.07	834.93	850.82
17°	586.84	583.99	587.59	590.97	590.69	594.57	597.91	601.11	609.56	618.41	627.90	642.16
18°	451.73	450.97	453.39	457.22	455.37	457.06	460.62	462.78	467.19	475.74	481.00	491.80
19°	351.34	350.41	352.12	354.22	353.60	353.73	357.26	358.97	361.83	368.71	371.40	378.44
20°	275.31	275.32	275.61	276.43	276.57	277.53	278.91	280.36	282.87	285.66	288.30	293.23
21°	218.73	217.69	216.62	216.87	217.60	219.03	217.29	221.41	223.25	225.29	226.59	231.46
22°	177.89	174.96	174.03	174.22	174.58	175.81	174.21	176.65	179.00	180.78	182.66	185.77
23°	149.22	145.38	145.66	145.64	145.63	146.15	145.10	146.68	148.13	150.23	151.30	153.50
24°	125.64	123.77	124.21	124.47	124.52	124.57	124.64	125.13	125.03	126.93	127.75	129.06
25°	106.91	107.08	107.53	107.55	107.65	107.67	107.65	108.45	108.79	109.75	110.67	111.89
26°	93.30	93.35	94.96	94.93	94.21	93.14	93.73	94.31	96.22	97.22	97.79	98.44
27°	84.05	83.66	86.32	85.01	84.34	82.97	82.10	84.52	86.20	88.20	85.39	88.46
28°	74.97	73.23	75.46	73.96	73.83	73.97	71.84	74.06	76.16	78.75	75.51	77.87
29°	66.91	64.21	65.88	64.51	64.26	65.88	63.77	64.72	67.70	69.26	67.59	69.32
30°	59.17	59.06	59.18	59.19	59.26	59.61	59.72	59.93	60.16	60.40	60.64	61.04
31°	55.08	55.12	54.71	55.18	55.72	57.47	55.88	56.08	55.86	56.00	56.83	57.12
32°	51.97	47.32	47.38	47.70	47.94	52.55	48.63	47.60	52.59	53.69	55.26	54.09
33°	47.20	40.17	41.73	41.24	40.45	44.33	42.49	39.59	48.19	49.79	50.95	49.79
34°	42.09	38.40	39.70	39.16	38.40	39.00	39.96	38.44	43.27	43.91	44.56	44.06
35°	37.79	37.83	37.91	37.93	37.92	38.05	38.23	38.36	38.41	38.62	38.76	39.02
36°	32.76	33.56	35.37	35.38	34.50	34.12	34.34	35.47	33.43	32.84	33.49	33.71
37°	28.94	29.72	33.29	33.34	30.49	30.39	30.53	31.41	30.03	29.45	31.22	29.88
38°	26.81	26.95	30.19	30.84	27.89	27.30	27.48	27.22	27.65	27.09	29.02	27.21
39°	25.27	25.28	26.63	27.19	25.54	25.55	25.30	24.87	25.47	25.61	25.92	25.19
40°	23.53	23.55	23.49	23.46	23.56	23.63	23.78	23.77	23.91	23.88	23.77	23.84
41°	22.95	22.31	22.17	21.61	22.48	22.51	22.82	23.92	23.21	23.71	22.65	23.49
42°	21.48	20.70	20.57	20.42	21.92	21.05	21.76	22.52	22.17	22.48	21.78	22.66
43°	20.11	20.04	18.87	18.87	20.87	20.18	20.74	21.20	20.47	21.20	20.94	21.14
44°	18.67	19.62	17.88	17.97	19.66	19.76	19.72	19.53	19.04	19.63	20.18	19.90
45°	17.90	17.92	17.90	17.93	18.03	18.05	18.08	18.10	18.08	18.21	18.37	18.69
46°	16.43	15.35	16.84	16.98	15.97	15.52	15.92	16.13	17.09	16.92	16.98	17.86
47°	15.01	13.98	15.76	15.84	14.94	13.69	14.54	14.96	16.06	16.24	16.10	16.37
48°	13.97	13.51	15.08	14.95	14.56	13.43	14.08	14.36	15.03	15.25	15.50	15.27
49°	13.68	13.54	14.41	14.18	14.13	13.71	13.84	13.96	14.36	14.12	14.96	14.45
50°	13.52	13.62	13.69	13.66	13.85	13.75	13.62	13.74	13.66	13.77	14.18	14.41

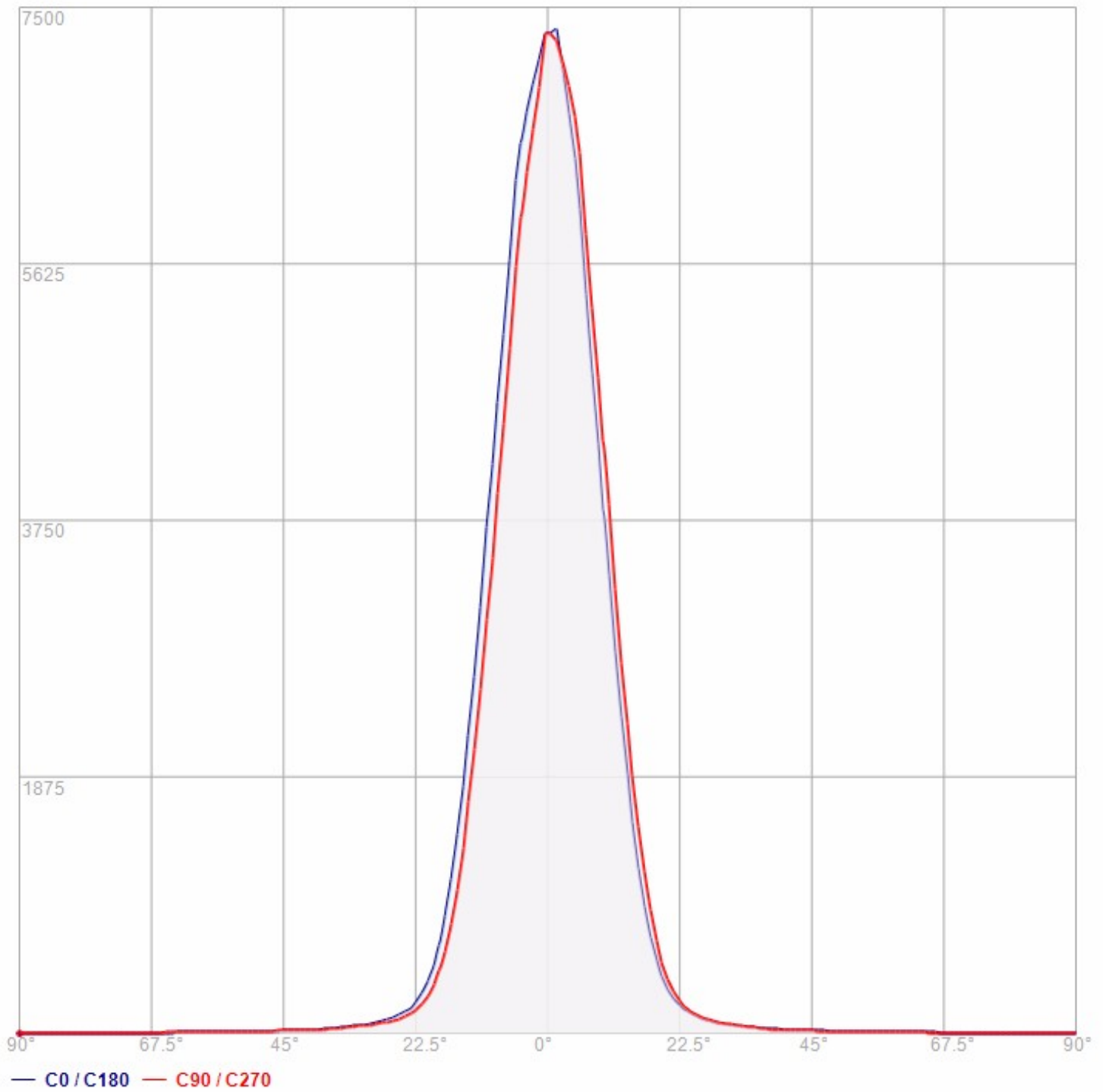
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51°	12.62	13.09	13.01	13.13	13.18	13.10	13.02	13.16	13.01	13.11	13.55	14.09
52°	12.00	12.54	12.41	12.53	12.62	12.51	12.40	12.51	12.41	12.32	13.08	13.98
53°	11.58	11.92	11.90	11.91	12.02	12.06	11.87	11.83	11.78	11.96	12.92	13.41
54°	11.18	11.40	11.41	11.52	11.63	11.49	11.35	11.30	11.29	11.57	12.48	12.66
55°	10.77	11.05	10.95	11.10	11.14	11.00	10.82	10.88	10.91	11.31	11.86	12.03
56°	10.03	10.41	10.18	10.43	10.40	10.22	10.11	10.24	10.08	10.52	11.20	11.24
57°	9.29	9.83	9.56	9.76	9.75	9.77	9.61	9.68	9.43	10.01	10.52	10.56
58°	8.62	9.21	8.93	9.25	9.25	9.27	9.04	9.03	9.03	9.21	9.82	10.19
59°	8.24	8.66	8.50	8.68	8.76	8.74	8.43	8.44	8.71	8.72	9.32	9.77
60°	7.99	8.08	8.02	8.11	8.33	8.19	8.03	7.96	8.13	8.35	8.73	9.22
61°	7.34	7.55	7.59	7.47	7.69	7.54	7.42	7.49	7.63	8.07	7.63	8.36
62°	6.77	7.00	7.08	7.14	7.20	6.98	6.77	6.99	7.02	7.50	6.89	7.99
63°	6.42	6.48	6.53	6.73	6.74	6.50	6.18	6.50	6.59	6.71	6.58	7.49
64°	6.07	6.03	6.03	6.29	6.33	6.12	6.00	6.10	6.13	6.14	6.41	6.94
65°	5.67	5.80	5.74	5.80	5.85	5.73	5.67	5.69	5.84	6.00	6.16	6.30
66°	5.04	5.40	5.54	5.37	5.51	5.34	5.25	5.22	5.10	5.45	5.55	5.68
67°	4.68	4.98	5.17	5.01	5.22	5.03	4.79	4.86	4.69	4.90	4.94	5.27
68°	4.27	4.59	4.77	4.75	4.79	4.69	4.69	4.48	4.38	4.41	4.52	4.88
69°	3.93	4.23	4.30	4.40	4.29	4.27	4.36	4.07	4.07	4.07	4.18	4.44
70°	3.77	3.87	3.90	4.01	4.02	3.99	3.89	3.73	3.72	3.83	3.93	4.06
71°	3.53	3.45	3.41	3.48	3.61	3.68	3.44	3.40	3.37	3.37	3.51	3.57
72°	3.17	3.08	3.06	3.12	3.18	3.30	3.07	3.05	3.19	3.01	3.19	3.21
73°	2.81	2.79	2.78	2.76	2.78	2.91	2.77	2.82	2.91	2.77	2.93	3.02
74°	2.57	2.52	2.68	2.57	2.57	2.61	2.51	2.59	2.66	2.59	2.71	2.76
75°	2.31	2.30	2.42	2.41	2.41	2.41	2.38	2.36	2.39	2.38	2.46	2.49
76°	2.05	1.97	2.12	2.13	2.16	2.16	2.11	1.99	2.13	2.19	2.10	2.19
77°	1.91	1.78	1.85	1.86	1.89	1.96	2.00	1.85	1.86	1.95	1.86	1.98
78°	1.73	1.66	1.71	1.70	1.74	1.74	1.79	1.68	1.70	1.74	1.72	1.76
79°	1.52	1.54	1.51	1.57	1.63	1.57	1.57	1.51	1.56	1.55	1.59	1.59
80°	1.38	1.40	1.42	1.41	1.48	1.45	1.38	1.33	1.38	1.45	1.48	1.47
81°	1.39	1.36	1.44	1.39	1.40	1.45	1.52	1.35	1.39	1.44	1.39	1.44
82°	1.37	1.34	1.43	1.42	1.39	1.45	1.65	1.34	1.43	1.43	1.35	1.41
83°	1.38	1.33	1.34	1.43	1.41	1.44	1.54	1.35	1.47	1.40	1.29	1.37
84°	1.36	1.34	1.27	1.39	1.40	1.41	1.31	1.35	1.38	1.40	1.32	1.38
85°	1.34	1.34	1.40	1.40	1.40	1.40	1.34	1.33	1.38	1.38	1.31	1.37
86°	1.46	1.43	1.63	1.51	1.49	1.51	1.68	1.39	1.47	1.44	1.43	1.44
87°	1.58	1.56	1.76	1.63	1.62	1.62	1.82	1.53	1.63	1.48	1.47	1.48
88°	1.70	1.71	1.79	1.71	1.76	1.75	1.83	1.72	1.74	1.64	1.58	1.65
89°	1.85	1.92	1.97	1.86	1.92	1.90	1.95	1.95	1.93	1.87	1.84	1.92
90°	2.12	2.13	2.13	2.13	2.13	2.12	2.12	2.12	2.12	2.15	2.16	2.24

Photometric Polar Diagram



Photometric Cartesian Diagram



Light Emmission Photo



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Opening angle

