

PHOTOMETRIC MEASUREMENT REPORT N° 003

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-C.ltd

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): 6698.31

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): 30.45

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°	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64
1°	3360.32	3358.21	3355.01	3352.27	3351.00	3347.69	3346.16	3344.78	3341.69	3335.41	3337.81	3336.94
2°	3278.76	3275.62	3274.17	3273.29	3274.39	3273.50	3274.14	3275.34	3274.91	3269.88	3273.69	3273.73
3°	3191.93	3188.26	3188.59	3189.73	3192.06	3193.41	3196.01	3198.74	3200.51	3200.77	3203.11	3204.78
4°	3098.83	3097.55	3099.97	3102.84	3106.16	3109.39	3113.82	3117.96	3121.20	3123.78	3127.16	3130.28
5°	3000.24	3003.19	3007.15	3012.03	3016.08	3020.08	3025.74	3030.80	3034.87	3039.55	3044.56	3048.87
6°	2858.41	2863.95	2868.03	2874.38	2878.44	2884.51	2890.49	2896.11	2901.36	2902.50	2910.12	2914.15
7°	2722.75	2728.28	2732.67	2739.60	2743.39	2750.79	2756.94	2762.15	2767.69	2772.27	2778.88	2784.06
8°	2590.09	2596.15	2600.80	2607.77	2612.14	2621.28	2627.94	2632.90	2639.23	2643.39	2651.41	2656.73
9°	2463.19	2467.94	2472.36	2479.60	2485.62	2494.41	2501.84	2507.34	2512.55	2519.59	2529.03	2535.65
10°	2338.58	2342.29	2345.93	2353.83	2360.76	2370.36	2377.57	2384.41	2389.27	2397.06	2405.36	2412.21
11°	2164.95	2166.73	2169.61	2178.86	2186.00	2194.86	2202.07	2209.98	2214.13	2224.68	2230.20	2236.73
12°	1999.93	2002.12	2004.65	2014.59	2021.70	2030.44	2038.31	2046.02	2050.93	2059.73	2065.24	2069.63
13°	1852.68	1854.98	1857.81	1867.35	1874.85	1883.12	1891.80	1899.19	1904.13	1912.71	1917.81	1921.07
14°	1720.02	1723.25	1726.28	1734.98	1742.97	1751.41	1760.13	1767.20	1772.44	1781.60	1784.93	1787.07
15°	1593.82	1596.74	1598.69	1607.63	1615.80	1623.77	1632.36	1639.65	1644.73	1654.81	1657.27	1659.04
16°	1423.99	1424.17	1426.75	1435.51	1443.07	1453.29	1463.26	1470.71	1476.95	1485.54	1486.81	1488.43
17°	1267.72	1265.06	1267.89	1275.58	1283.54	1295.03	1306.56	1314.21	1321.41	1330.18	1329.58	1330.31
18°	1126.78	1122.46	1125.59	1131.95	1140.42	1153.14	1165.13	1173.98	1181.88	1190.38	1188.49	1189.48
19°	1002.53	997.92	1000.79	1006.37	1015.69	1028.97	1041.11	1050.63	1058.25	1063.93	1062.98	1063.52
20°	889.79	884.44	886.97	892.82	901.23	915.29	928.44	938.51	946.92	949.41	949.16	948.98
21°	775.92	772.05	775.01	780.55	790.22	804.73	817.45	826.35	834.64	831.43	830.68	828.81
22°	674.23	669.60	672.19	676.75	688.61	704.58	718.67	728.15	737.44	730.50	729.08	726.14
23°	582.09	576.13	578.05	582.45	595.58	612.88	628.22	639.45	649.17	643.33	639.29	634.54
24°	498.73	492.61	494.28	498.34	511.10	528.39	543.75	556.16	565.25	561.17	555.39	549.52
25°	423.82	417.57	418.53	422.23	434.20	451.75	466.50	478.93	487.09	482.97	476.99	471.31
26°	363.95	355.91	355.39	358.49	371.04	389.23	405.36	417.75	424.91	421.57	414.94	409.30
27°	305.19	296.48	294.67	297.94	310.24	327.27	343.75	356.96	363.68	362.28	353.81	348.02
28°	254.93	247.51	245.77	248.72	259.72	274.32	289.64	302.17	307.40	306.35	298.05	292.22
29°	214.77	208.55	206.82	209.65	219.06	231.99	246.24	257.24	261.30	258.80	252.00	246.53
30°	180.74	175.48	173.61	176.24	184.47	196.55	209.17	218.26	221.48	218.27	212.50	207.09
31°	152.06	147.63	145.31	147.48	155.39	166.48	178.33	186.56	189.05	185.57	180.07	174.90
32°	127.14	123.19	120.58	121.77	129.16	139.86	151.04	158.95	160.88	157.31	152.10	147.09
33°	106.94	103.40	101.13	101.72	107.92	117.39	127.42	135.50	137.11	134.06	128.87	124.32
34°	91.29	88.38	86.68	87.15	91.95	100.08	108.37	115.25	116.52	113.74	109.63	105.62
35°	78.12	75.81	74.66	75.14	78.85	85.42	93.09	98.36	99.16	97.11	92.80	89.70
36°	65.08	63.84	63.07	63.28	66.04	71.33	78.61	82.87	83.48	81.34	77.25	74.79
37°	54.38	54.10	53.36	53.20	55.70	60.02	66.11	70.00	70.41	68.40	64.63	62.79
38°	46.61	46.35	45.82	45.46	47.72	51.34	56.12	59.51	60.18	58.16	55.17	53.61
39°	40.72	40.52	40.19	39.72	41.67	44.05	47.97	51.40	52.26	50.43	47.76	46.52
40°	36.33	35.76	35.53	35.59	36.57	38.90	41.91	44.32	44.87	43.56	41.63	40.64
41°	33.08	33.11	32.62	32.78	33.38	35.33	37.50	39.73	39.82	39.04	37.77	37.05
42°	30.42	31.08	30.47	30.47	31.04	32.71	33.88	35.55	35.45	34.14	33.60	33.43
43°	28.32	28.73	28.37	28.08	28.63	29.60	30.98	32.67	32.61	30.64	30.93	30.92
44°	26.11	25.88	25.66	25.47	25.66	26.93	28.15	28.94	29.14	28.00	27.88	27.82
45°	23.25	23.48	23.31	23.19	23.30	23.89	24.83	25.59	25.88	25.59	25.13	24.93
46°	21.07	22.25	21.99	22.15	22.13	22.06	21.86	22.34	22.17	22.09	21.74	22.00
47°	20.04	21.23	20.98	21.23	21.01	20.89	20.74	21.18	20.90	19.99	20.50	21.00
48°	18.57	19.48	19.27	19.53	19.15	19.34	19.39	19.83	19.92	19.21	19.37	19.73
49°	17.02	17.54	17.24	17.46	17.23	17.27	17.50	18.00	18.21	17.77	17.78	17.74
50°	15.75	15.91	15.80	15.81	15.80	15.68	15.79	15.96	16.05	16.14	16.16	16.16
51°	14.90	14.51	14.79	14.60	14.78	14.53	14.83	14.54	14.53	14.62	15.11	15.01
52°	13.73	13.40	13.67	13.45	13.61	13.35	13.88	13.47	13.20	13.52	13.79	13.88
53°	12.77	12.78	12.65	12.70	12.74	12.53	12.87	12.86	12.37	12.74	12.62	12.90
54°	12.17	12.45	12.02	12.23	12.20	12.06	12.09	12.26	12.02	12.50	12.08	12.52

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55°	11.76	11.91	11.83	11.97	11.75	11.56	11.56	11.56	11.62	11.88	11.84	12.00
56°	10.72	11.02	11.00	11.06	10.87	10.69	10.87	10.73	10.80	10.60	11.02	11.11
57°	10.06	10.41	10.38	10.32	10.26	10.15	10.41	10.11	10.10	9.31	10.47	10.51
58°	9.67	9.81	9.59	9.94	9.78	9.79	9.78	9.57	9.57	8.72	9.97	10.09
59°	9.12	9.27	9.13	9.39	9.31	9.25	9.08	9.01	8.91	8.64	9.49	9.48
60°	8.54	8.59	8.48	8.54	8.50	8.50	8.45	8.45	8.48	8.63	8.70	8.78
61°	8.14	7.94	7.82	7.89	7.78	7.82	7.95	8.01	8.17	8.35	8.14	8.19
62°	7.84	7.24	7.18	7.40	7.21	7.30	7.34	7.48	7.59	7.98	7.66	7.68
63°	7.13	6.83	6.89	6.89	6.86	6.95	6.89	6.99	7.02	7.53	7.32	7.17
64°	6.56	6.51	6.66	6.53	6.53	6.55	6.67	6.69	6.74	7.14	7.04	6.92
65°	6.02	6.04	6.04	6.14	6.16	6.19	6.22	6.31	6.37	6.47	6.62	6.50
66°	5.50	5.41	5.32	5.42	5.56	5.64	5.57	5.76	5.84	6.06	6.04	5.96
67°	4.87	4.91	4.92	4.77	5.01	5.29	4.96	5.14	5.54	5.70	5.44	5.39
68°	4.48	4.57	4.62	4.47	4.52	4.78	4.64	4.81	5.21	5.38	5.12	5.10
69°	4.35	4.30	4.29	4.25	4.34	4.50	4.49	4.60	4.88	5.02	4.87	4.81
70°	4.17	4.13	4.13	4.20	4.23	4.35	4.42	4.53	4.66	4.76	4.72	4.67
71°	3.85	3.85	3.86	3.92	3.93	4.08	3.99	4.19	4.27	4.34	4.33	4.41
72°	3.62	3.64	3.68	3.67	3.52	3.70	3.68	3.91	4.01	3.75	4.11	4.15
73°	3.40	3.41	3.52	3.39	3.32	3.40	3.47	3.68	3.85	3.37	3.86	3.84
74°	3.11	3.21	3.30	3.28	3.19	3.17	3.26	3.41	3.60	3.36	3.61	3.45
75°	2.97	2.97	3.02	3.10	3.04	3.12	3.12	3.18	3.31	3.33	3.31	3.29
76°	2.52	2.47	2.51	2.58	2.50	2.65	2.67	2.59	2.75	2.82	2.79	2.82
77°	2.22	2.11	2.23	2.20	2.12	2.24	2.35	2.27	2.48	2.45	2.50	2.46
78°	1.90	1.90	1.93	1.96	1.84	1.94	2.05	2.02	2.23	2.19	2.23	2.13
79°	1.71	1.69	1.70	1.71	1.64	1.75	1.80	1.82	2.00	1.96	1.96	1.94
80°	1.55	1.53	1.53	1.52	1.52	1.60	1.65	1.68	1.77	1.76	1.76	1.76
81°	1.50	1.39	1.44	1.41	1.40	1.44	1.52	1.51	1.66	1.58	1.59	1.56
82°	1.40	1.30	1.31	1.32	1.32	1.32	1.36	1.35	1.54	1.45	1.41	1.44
83°	1.30	1.26	1.22	1.21	1.21	1.20	1.25	1.21	1.41	1.31	1.26	1.32
84°	1.19	1.21	1.14	1.13	1.14	1.14	1.20	1.17	1.25	1.20	1.19	1.22
85°	1.14	1.14	1.09	1.09	1.09	1.09	1.13	1.13	1.13	1.13	1.13	1.13
86°	1.25	1.20	1.14	1.18	1.19	1.15	1.20	1.22	1.20	1.24	1.24	1.22
87°	1.33	1.26	1.21	1.24	1.26	1.21	1.30	1.26	1.31	1.32	1.32	1.31
88°	1.39	1.34	1.31	1.35	1.34	1.32	1.37	1.35	1.43	1.41	1.39	1.41
89°	1.48	1.47	1.47	1.50	1.49	1.47	1.45	1.49	1.52	1.52	1.47	1.52
90°	1.61	1.63	1.61	1.61	1.61	1.57	1.63	1.63	1.63	1.63	1.63	1.63
Gamma	C60°	C65°	C70°	C75°	C80°	C85°	C90°	C95°	C100°	C105°	C110°	C115°
0°	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64
1°	3335.96	3334.01	3333.50	3330.99	3329.17	3326.99	3325.53	3324.75	3322.77	3321.18	3320.77	3311.41
2°	3274.62	3273.43	3273.87	3273.20	3271.80	3269.91	3270.15	3270.07	3268.96	3268.63	3269.42	3265.44
3°	3207.42	3207.97	3209.06	3209.60	3209.07	3208.87	3210.30	3211.24	3210.74	3211.69	3213.19	3212.96
4°	3133.61	3135.10	3137.56	3138.89	3139.82	3141.23	3143.85	3145.59	3145.95	3148.10	3150.13	3152.45
5°	3052.73	3056.12	3059.98	3062.70	3064.33	3066.94	3071.09	3073.16	3074.04	3077.50	3080.02	3081.94
6°	2918.79	2923.55	2928.64	2932.40	2934.96	2937.29	2941.56	2943.38	2945.62	2948.33	2950.47	2949.38
7°	2789.58	2795.74	2801.67	2805.83	2808.82	2812.07	2816.02	2818.03	2821.43	2823.08	2825.35	2822.36
8°	2663.48	2669.70	2676.18	2680.91	2685.05	2689.33	2692.60	2694.95	2699.36	2700.38	2702.19	2699.59
9°	2542.57	2550.35	2557.82	2563.17	2568.02	2572.76	2575.56	2578.25	2583.12	2584.17	2584.84	2581.03
10°	2419.64	2428.07	2436.45	2441.13	2446.67	2451.68	2454.00	2457.26	2462.42	2464.54	2464.17	2461.52
11°	2243.01	2249.46	2259.35	2262.76	2269.88	2275.07	2279.51	2282.65	2288.50	2292.00	2290.88	2291.48
12°	2075.80	2080.41	2090.55	2094.48	2102.98	2108.44	2115.11	2118.12	2124.59	2128.56	2127.47	2129.46
13°	1926.59	1930.98	1941.02	1946.23	1955.47	1961.10	1969.69	1973.01	1979.69	1983.93	1983.15	1982.53
14°	1791.93	1796.09	1805.90	1811.45	1820.51	1826.90	1835.94	1840.24	1846.66	1851.67	1850.88	1848.45
15°	1663.18	1666.52	1675.68	1681.08	1690.27	1697.49	1706.71	1711.64	1718.80	1723.65	1721.79	1719.58
16°	1491.75	1493.84	1501.09	1507.14	1516.03	1526.11	1535.77	1541.52	1548.99	1550.90	1548.77	1544.40
17°	1333.64	1334.19	1341.08	1346.61	1355.52	1367.50	1377.94	1384.28	1392.33	1393.24	1390.42	1386.44
18°	1191.02	1190.93	1197.40	1202.01	1211.07	1224.05	1235.28	1243.22	1250.81	1251.74	1247.69	1244.83
19°	1063.39	1063.46	1068.32	1072.64	1080.77	1094.01	1105.30	1115.27	1122.68	1122.99	1118.61	1115.43

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20°	947.67	948.09	950.63	955.41	962.75	975.74	987.62	998.21	1005.48	1004.56	1000.00	994.91
21°	827.06	827.48	829.74	833.89	842.01	853.44	864.18	874.12	881.51	878.45	874.82	868.11
22°	723.78	723.85	726.05	729.89	738.59	748.99	758.88	768.18	774.87	770.93	767.81	759.56
23°	631.49	630.78	632.72	636.96	645.54	656.96	667.24	677.33	683.87	680.04	676.97	669.03
24°	545.32	544.71	545.82	549.81	558.38	570.60	581.42	592.12	599.13	595.29	591.63	584.56
25°	466.23	465.54	465.88	469.18	477.82	489.69	499.99	510.49	516.60	512.76	509.18	502.73
26°	404.22	402.47	402.48	405.47	414.49	425.25	436.33	445.63	451.21	447.40	443.24	436.62
27°	342.53	339.79	339.51	342.92	351.41	362.27	374.28	383.87	388.46	385.74	380.33	374.27
28°	286.41	283.58	283.30	286.69	294.64	304.91	316.94	325.97	330.06	328.17	321.97	316.18
29°	241.07	238.65	238.06	241.61	248.55	258.37	268.62	275.98	278.98	277.08	271.55	265.61
30°	202.82	200.19	200.00	203.19	209.27	217.94	227.07	232.70	235.81	233.31	228.83	222.85
31°	171.36	169.36	168.92	171.65	176.77	185.11	192.40	198.65	201.20	198.95	194.62	188.86
32°	143.43	142.16	141.76	143.85	148.37	156.40	162.64	169.11	171.54	169.77	165.30	160.05
33°	121.04	119.91	119.51	121.16	125.17	132.57	138.17	144.17	146.56	144.93	140.72	135.73
34°	103.17	101.92	101.97	103.18	106.40	112.89	117.91	122.82	125.12	123.07	119.35	115.01
35°	88.19	87.05	86.92	87.95	90.76	96.03	100.65	104.53	106.28	104.29	101.20	97.55
36°	73.36	72.68	72.43	72.93	75.33	79.71	83.75	86.86	88.98	87.01	84.57	81.66
37°	61.87	61.35	60.88	61.24	63.20	66.76	70.01	72.34	74.20	72.49	70.78	68.57
38°	52.83	52.52	52.23	52.50	53.71	57.05	59.76	61.30	62.94	61.44	60.02	58.69
39°	45.94	45.54	45.18	45.70	46.74	49.59	51.72	53.00	54.04	53.12	51.87	50.27
40°	40.24	39.90	39.88	39.98	41.11	42.86	44.34	45.94	46.52	45.77	44.59	43.23
41°	36.26	35.81	36.23	36.00	37.46	38.39	39.59	41.01	41.18	40.56	39.72	38.09
42°	32.49	32.11	32.85	32.44	33.52	33.85	35.23	36.16	36.15	35.67	35.06	33.38
43°	30.08	29.51	30.19	30.17	30.99	31.16	31.91	32.40	32.78	32.33	31.72	29.94
44°	27.48	27.21	27.65	27.81	28.32	28.64	28.85	29.41	29.68	29.30	28.70	27.59
45°	24.68	24.56	24.77	24.91	25.41	25.90	26.39	26.63	26.61	26.37	25.83	25.33
46°	21.76	21.78	21.77	21.89	22.10	22.28	23.20	23.01	22.73	22.66	22.16	22.03
47°	20.78	20.51	20.48	20.76	20.78	20.79	21.64	21.08	20.97	20.71	20.17	20.17
48°	19.49	19.15	19.20	19.65	19.80	19.98	20.47	20.18	20.01	19.70	19.16	19.63
49°	17.82	17.66	17.70	17.99	18.17	18.42	18.82	18.67	18.35	18.28	17.84	18.19
50°	16.11	16.23	16.35	16.59	16.80	16.61	16.99	16.78	16.61	16.56	16.31	16.07
51°	15.23	15.18	15.23	15.61	15.47	15.61	15.91	15.76	15.40	15.14	15.08	14.62
52°	13.87	13.78	13.86	14.43	13.99	14.47	14.74	14.65	14.15	13.49	13.72	13.93
53°	12.80	12.79	12.72	13.11	12.87	13.38	13.61	13.58	13.10	12.46	12.65	13.43
54°	12.24	12.35	12.26	12.52	12.63	12.75	12.90	12.72	12.74	12.08	12.15	12.82
55°	12.06	11.97	11.98	12.18	12.24	12.38	12.51	12.25	12.26	11.98	11.79	11.72
56°	10.96	11.10	11.08	11.29	11.10	11.45	11.70	11.30	11.31	11.13	10.92	10.29
57°	10.13	10.50	10.46	10.53	10.38	10.66	10.92	10.54	10.58	10.48	10.27	9.21
58°	9.68	9.99	9.84	9.81	9.86	10.10	10.19	9.90	10.03	9.86	9.77	8.72
59°	9.27	9.36	9.30	9.29	9.41	9.60	9.48	9.34	9.39	9.33	9.26	8.57
60°	8.75	8.71	8.69	8.76	8.80	8.93	8.79	8.75	8.71	8.64	8.56	8.48
61°	8.31	8.22	8.13	8.39	8.27	8.39	8.21	8.11	8.15	8.21	8.21	8.27
62°	7.66	7.69	7.47	7.75	7.72	7.67	7.62	7.48	7.71	7.81	7.80	7.89
63°	7.00	7.06	7.15	7.32	7.14	7.24	7.22	6.95	7.33	7.27	7.41	7.52
64°	6.67	6.69	6.81	6.86	6.82	6.68	6.80	6.67	6.84	6.71	6.92	7.08
65°	6.44	6.30	6.29	6.33	6.23	6.25	6.17	6.20	6.21	6.26	6.29	6.33
66°	6.02	5.84	5.59	5.60	5.49	5.57	5.37	5.50	5.50	5.77	5.72	5.73
67°	5.57	5.33	5.29	5.24	4.84	5.16	4.97	4.95	5.14	5.24	5.35	5.32
68°	5.13	5.00	4.92	4.82	4.69	4.76	4.62	4.71	4.78	4.70	4.97	5.04
69°	4.79	4.61	4.60	4.53	4.45	4.56	4.48	4.53	4.50	4.46	4.52	4.76
70°	4.57	4.42	4.36	4.31	4.27	4.27	4.31	4.33	4.31	4.36	4.34	4.42
71°	4.25	4.01	4.05	4.01	3.90	3.89	4.08	3.90	4.04	4.05	3.99	4.03
72°	3.96	3.75	3.77	3.63	3.71	3.68	3.74	3.59	3.79	3.67	3.72	3.70
73°	3.69	3.49	3.47	3.30	3.46	3.45	3.48	3.38	3.47	3.37	3.47	3.52
74°	3.44	3.29	3.25	3.08	3.28	3.20	3.32	3.19	3.29	3.13	3.27	3.29
75°	3.23	3.12	3.06	3.01	3.06	3.05	3.16	3.11	3.12	3.05	3.11	3.14
76°	2.78	2.70	2.57	2.61	2.65	2.70	2.69	2.70	2.65	2.71	2.71	2.71

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77°	2.48	2.38	2.25	2.28	2.32	2.31	2.27	2.37	2.23	2.45	2.37	2.40
78°	2.22	2.10	2.08	1.96	2.07	2.00	2.06	2.10	1.94	2.11	2.08	2.13
79°	1.94	1.90	1.91	1.77	1.86	1.80	1.83	1.90	1.79	1.85	1.88	1.88
80°	1.76	1.70	1.68	1.62	1.69	1.68	1.68	1.68	1.68	1.68	1.76	1.74
81°	1.59	1.52	1.51	1.53	1.57	1.58	1.52	1.54	1.50	1.57	1.65	1.60
82°	1.43	1.40	1.41	1.41	1.43	1.42	1.44	1.47	1.35	1.44	1.55	1.50
83°	1.31	1.29	1.30	1.34	1.30	1.32	1.34	1.39	1.27	1.32	1.38	1.35
84°	1.21	1.19	1.22	1.26	1.16	1.23	1.26	1.25	1.23	1.23	1.26	1.24
85°	1.13	1.12	1.17	1.17	1.12	1.16	1.16	1.16	1.17	1.17	1.16	1.16
86°	1.17	1.21	1.26	1.25	1.21	1.22	1.26	1.25	1.26	1.26	1.24	1.24
87°	1.25	1.29	1.30	1.37	1.28	1.38	1.39	1.30	1.36	1.38	1.34	1.34
88°	1.33	1.36	1.37	1.46	1.34	1.52	1.53	1.38	1.43	1.43	1.46	1.45
89°	1.45	1.48	1.48	1.51	1.45	1.62	1.60	1.51	1.53	1.50	1.58	1.58
90°	1.57	1.61	1.61	1.61	1.66	1.67	1.66	1.66	1.66	1.61	1.66	1.66
Gamma	C120°	C125°	C130°	C135°	C140°	C145°	C150°	C155°	C160°	C165°	C170°	C175°
0°	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64
1°	3315.20	3313.32	3310.59	3308.50	3304.70	3293.14	3293.64	3296.95	3293.42	3290.65	3286.17	3284.18
2°	3264.74	3263.17	3260.01	3258.01	3256.42	3248.15	3243.88	3243.20	3239.08	3236.43	3232.36	3230.40
3°	3210.60	3209.28	3205.76	3204.30	3203.67	3197.52	3189.44	3186.73	3181.55	3178.66	3173.55	3169.08
4°	3150.35	3149.17	3145.98	3143.96	3141.47	3136.49	3128.84	3122.83	3116.24	3111.59	3105.15	3098.87
5°	3081.93	3080.15	3077.72	3074.56	3070.78	3064.96	3058.91	3051.35	3043.86	3037.71	3030.85	3023.57
6°	2949.60	2948.80	2946.08	2942.25	2939.63	2934.00	2928.75	2920.35	2914.15	2908.90	2902.98	2896.32
7°	2822.09	2821.97	2817.84	2814.02	2812.24	2807.94	2800.77	2794.08	2788.96	2785.17	2779.05	2771.81
8°	2697.54	2698.10	2693.69	2690.23	2686.17	2686.18	2678.45	2671.09	2665.94	2661.79	2655.39	2647.48
9°	2579.13	2579.99	2576.77	2572.88	2567.51	2568.35	2561.85	2555.06	2549.70	2544.61	2538.75	2530.30
10°	2459.35	2459.79	2457.93	2453.73	2447.61	2447.67	2444.40	2437.11	2431.66	2426.89	2421.22	2412.93
11°	2288.73	2287.91	2284.99	2281.90	2275.53	2272.87	2272.17	2265.33	2258.90	2254.57	2247.99	2240.19
12°	2125.26	2124.20	2120.15	2118.14	2112.14	2109.19	2108.55	2101.58	2094.63	2090.29	2082.58	2074.22
13°	1979.15	1978.51	1973.45	1971.85	1966.13	1961.47	1960.54	1953.87	1946.83	1941.90	1933.72	1924.96
14°	1846.15	1845.00	1839.70	1837.33	1831.89	1827.90	1826.09	1818.72	1811.83	1806.19	1797.68	1789.54
15°	1717.92	1715.70	1709.66	1706.85	1700.84	1696.93	1696.41	1688.99	1682.55	1676.86	1667.82	1660.27
16°	1542.62	1539.23	1533.40	1531.28	1526.67	1523.33	1525.08	1518.80	1513.02	1505.96	1495.36	1485.68
17°	1381.52	1377.81	1371.36	1369.89	1364.76	1363.44	1367.63	1362.23	1356.35	1348.73	1336.74	1324.57
18°	1236.69	1231.97	1225.51	1224.21	1220.02	1220.63	1226.08	1221.22	1214.97	1206.52	1193.58	1179.27
19°	1105.74	1100.02	1094.26	1093.09	1090.79	1092.08	1097.62	1093.76	1087.56	1078.55	1065.56	1050.47
20°	986.33	980.39	974.87	974.37	973.85	973.94	980.74	978.56	972.73	963.19	950.64	935.26
21°	860.53	855.42	851.32	850.11	851.10	852.14	857.36	857.33	852.53	842.01	830.06	815.15
22°	753.88	748.58	745.91	743.97	745.54	746.28	750.94	753.44	749.94	739.44	727.71	712.23
23°	661.64	654.99	652.95	650.63	651.15	652.90	659.34	663.17	660.65	650.84	636.81	619.77
24°	574.30	567.51	565.33	561.92	562.60	566.28	574.09	578.11	576.61	566.94	551.87	533.88
25°	492.07	485.83	483.30	479.25	480.25	485.06	493.41	497.13	496.21	486.73	472.97	455.72
26°	427.03	420.87	418.14	414.27	416.53	421.63	429.51	433.38	434.02	425.03	412.22	395.37
27°	364.32	357.84	354.31	351.45	353.57	359.60	368.13	372.08	373.69	366.19	352.84	335.87
28°	305.19	299.76	296.58	294.17	296.79	302.84	311.24	314.96	317.33	310.99	298.48	282.23
29°	256.35	252.30	250.04	247.74	250.60	255.57	262.72	266.72	268.68	263.49	253.30	239.03
30°	215.44	211.71	210.30	208.47	211.14	215.75	221.08	225.81	227.73	223.04	214.09	201.97
31°	182.89	179.33	177.77	175.67	178.64	182.41	187.02	193.30	194.74	190.66	182.96	171.80
32°	154.33	151.37	149.45	147.05	150.62	153.09	158.40	164.64	166.37	162.80	155.92	145.25
33°	130.85	128.26	126.00	123.71	126.99	129.41	134.86	140.31	142.64	139.53	133.33	123.09
34°	110.85	108.75	106.89	105.26	107.52	110.07	115.07	119.55	122.01	119.33	113.58	104.57
35°	94.35	92.54	91.27	89.87	91.29	93.93	97.97	101.92	103.40	101.64	96.74	89.49
36°	78.81	77.35	76.50	75.06	75.93	78.50	81.09	84.75	86.17	84.84	81.01	75.14
37°	66.12	64.80	64.01	63.04	63.69	66.36	67.51	71.15	72.46	71.26	68.83	63.88
38°	55.85	54.74	54.55	53.66	54.02	56.56	57.87	61.20	62.15	61.07	59.30	54.89
39°	48.54	47.18	47.03	46.32	46.31	48.24	50.50	53.00	53.59	52.80	51.27	47.68
40°	41.97	41.28	40.78	40.37	40.54	41.70	43.47	45.03	45.81	45.35	43.80	40.83
41°	37.44	36.96	36.30	36.23	36.40	37.27	38.34	39.55	40.49	40.09	38.90	36.80

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42°	33.29	33.04	32.66	32.51	32.48	33.35	33.33	35.25	35.54	35.45	34.35	32.99
43°	30.82	30.53	29.93	29.54	29.71	30.27	30.10	31.89	31.93	31.80	31.05	29.93
44°	27.88	27.55	27.06	26.56	27.09	27.50	27.58	28.31	28.47	28.62	28.09	26.98
45°	24.84	24.49	24.28	24.23	24.20	24.44	24.95	25.51	25.90	25.92	25.70	24.74
46°	22.13	21.81	21.84	22.36	21.62	22.29	21.61	22.63	22.76	22.78	22.45	22.06
47°	21.12	20.93	20.79	21.72	20.71	22.16	20.17	20.96	20.81	20.77	20.93	20.72
48°	19.63	19.23	19.60	19.82	19.17	21.31	19.73	19.73	19.51	19.93	19.65	19.70
49°	17.61	17.32	17.55	17.55	17.41	18.47	17.78	17.98	17.76	18.19	17.75	17.82
50°	15.82	15.69	15.58	15.64	15.66	15.64	15.67	15.88	15.97	16.11	16.06	15.88
51°	14.48	14.27	13.77	14.13	14.62	14.14	14.07	13.92	14.40	14.09	14.86	14.60
52°	13.15	12.61	12.45	12.53	13.77	13.55	13.15	12.45	12.95	12.82	13.26	13.32
53°	12.40	11.70	11.78	11.75	12.78	12.93	12.45	11.67	11.98	11.86	11.90	12.19
54°	11.97	11.45	11.79	11.66	11.87	12.27	12.16	11.56	11.73	11.63	11.63	11.60
55°	11.57	11.40	11.46	11.41	11.40	11.34	11.36	11.39	11.50	11.52	11.58	11.72
56°	10.52	10.56	10.36	10.22	10.98	10.45	10.18	10.49	10.36	10.57	10.63	10.97
57°	9.64	9.73	9.55	9.39	10.52	9.55	9.05	9.57	9.42	9.64	9.65	10.09
58°	9.11	9.08	8.97	8.80	9.92	9.06	8.67	8.97	8.88	8.94	8.97	9.24
59°	8.79	8.67	8.60	8.60	9.24	8.75	8.33	8.56	8.57	8.63	8.66	8.81
60°	8.36	8.32	8.32	8.31	8.31	8.23	8.25	8.19	8.27	8.32	8.39	8.33
61°	8.05	8.05	8.13	8.18	7.80	7.74	7.94	7.93	8.03	8.17	8.06	7.98
62°	7.72	7.79	7.73	7.82	7.56	7.29	7.66	7.53	7.68	7.85	7.54	7.67
63°	7.30	7.38	7.48	7.41	7.20	6.92	7.29	7.05	7.16	7.34	6.97	7.10
64°	6.74	6.91	7.02	6.87	6.69	6.47	6.78	6.54	6.55	6.79	6.49	6.52
65°	6.25	6.23	6.30	6.29	6.27	6.19	6.17	6.07	6.06	6.13	5.96	5.99
66°	5.83	5.75	5.69	5.95	5.86	5.67	5.81	5.75	5.59	5.60	5.53	5.63
67°	5.41	5.43	5.42	5.57	5.37	5.15	5.53	5.37	5.16	5.16	5.12	5.12
68°	4.93	5.27	5.12	5.22	4.98	4.70	5.30	5.02	4.76	4.90	4.87	4.77
69°	4.61	4.95	4.88	4.79	4.82	4.63	4.98	4.56	4.58	4.58	4.58	4.52
70°	4.44	4.53	4.64	4.64	4.64	4.55	4.45	4.31	4.23	4.15	4.20	4.28
71°	4.28	4.14	4.32	4.28	4.20	4.22	3.97	3.86	3.90	3.70	3.62	3.94
72°	4.02	3.85	3.88	3.97	3.82	3.86	3.61	3.45	3.60	3.29	3.19	3.50
73°	3.67	3.59	3.48	3.66	3.61	3.63	3.43	3.16	3.40	3.13	3.00	3.18
74°	3.36	3.37	3.32	3.50	3.45	3.43	3.23	3.17	3.15	3.05	2.97	2.92
75°	3.20	3.24	3.29	3.29	3.23	3.25	3.14	3.09	2.99	2.95	2.83	2.79
76°	2.77	2.72	2.84	2.75	2.72	2.78	2.59	2.53	2.49	2.29	2.17	2.10
77°	2.45	2.38	2.45	2.35	2.36	2.43	2.26	2.11	2.13	1.97	1.73	1.72
78°	2.23	2.20	2.25	2.12	2.15	2.16	2.08	1.94	1.85	1.72	1.49	1.42
79°	2.01	2.03	2.06	1.95	1.93	1.97	1.89	1.79	1.60	1.52	1.32	1.21
80°	1.78	1.83	1.83	1.84	1.77	1.78	1.76	1.63	1.47	1.36	1.19	1.09
81°	1.57	1.63	1.60	1.61	1.58	1.57	1.57	1.51	1.39	1.36	1.18	1.09
82°	1.44	1.50	1.46	1.46	1.45	1.40	1.46	1.43	1.35	1.28	1.15	1.08
83°	1.32	1.38	1.35	1.35	1.35	1.32	1.35	1.35	1.29	1.21	1.11	1.04
84°	1.21	1.26	1.24	1.27	1.26	1.26	1.28	1.23	1.24	1.14	1.09	1.04
85°	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.17	1.19	1.11	1.07	1.02
86°	1.25	1.26	1.26	1.25	1.21	1.21	1.24	1.24	1.28	1.19	1.15	1.12
87°	1.31	1.39	1.34	1.32	1.32	1.30	1.36	1.37	1.39	1.31	1.30	1.20
88°	1.36	1.49	1.41	1.39	1.41	1.40	1.48	1.46	1.49	1.40	1.45	1.31
89°	1.47	1.54	1.48	1.49	1.54	1.51	1.55	1.59	1.59	1.52	1.56	1.41
90°	1.60	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.60
Gamma	C180°	C185°	C190°	C195°	C200°	C205°	C210°	C215°	C220°	C225°	C230°	C235°
0°	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64
1°	3272.83	3274.55	3274.83	3270.97	3267.37	3263.73	3260.33	3256.21	3252.79	3248.31	3244.03	3241.40
2°	3216.58	3214.48	3219.94	3214.75	3210.36	3204.56	3198.09	3191.26	3186.06	3179.20	3173.68	3169.45
3°	3157.25	3153.25	3157.04	3149.42	3144.78	3138.32	3130.57	3123.04	3116.94	3109.44	3102.44	3095.52
4°	3091.84	3085.67	3083.58	3076.77	3071.74	3065.62	3056.71	3048.37	3040.44	3032.55	3024.14	3015.10
5°	3016.66	3009.38	3003.63	2998.25	2992.45	2985.53	2976.07	2966.87	2957.81	2949.11	2938.89	2927.92
6°	2887.46	2879.32	2875.05	2871.83	2865.25	2857.10	2846.77	2835.63	2825.88	2814.76	2803.55	2793.14

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7°	2763.21	2755.07	2751.15	2746.05	2738.62	2729.75	2719.20	2708.29	2698.75	2686.61	2675.12	2663.71
8°	2643.35	2633.73	2629.00	2622.59	2614.94	2605.53	2595.01	2582.91	2573.16	2560.68	2549.63	2538.25
9°	2526.11	2517.95	2511.63	2502.83	2494.41	2484.08	2473.90	2462.08	2452.52	2440.12	2428.82	2416.95
10°	2406.26	2399.84	2391.84	2383.39	2374.68	2363.62	2354.58	2342.96	2332.92	2320.08	2307.89	2296.43
11°	2229.76	2223.79	2215.57	2210.02	2202.69	2192.79	2183.41	2173.71	2162.90	2148.73	2135.08	2122.28
12°	2063.71	2056.45	2049.54	2045.26	2039.83	2031.10	2022.12	2012.04	2001.54	1986.53	1971.54	1958.12
13°	1915.95	1907.70	1901.95	1896.22	1892.66	1885.52	1876.41	1866.01	1856.02	1840.89	1824.59	1811.05
14°	1782.54	1774.64	1769.62	1762.09	1759.57	1754.36	1745.88	1735.29	1725.24	1710.87	1693.56	1679.00
15°	1651.48	1644.91	1639.05	1634.44	1632.03	1628.84	1620.35	1610.31	1600.74	1586.31	1568.60	1553.31
16°	1474.25	1467.00	1460.41	1461.92	1460.38	1457.70	1451.93	1443.12	1432.23	1417.92	1399.65	1381.62
17°	1312.26	1303.57	1294.97	1300.32	1299.79	1297.55	1294.45	1287.45	1275.72	1261.20	1243.18	1223.71
18°	1168.07	1158.10	1149.14	1153.93	1154.77	1153.37	1152.24	1146.94	1135.03	1120.48	1102.82	1082.64
19°	1040.38	1030.23	1021.83	1024.86	1027.27	1027.19	1027.64	1024.36	1013.05	998.72	981.41	962.03
20°	923.75	914.25	907.33	909.34	913.21	914.27	915.62	913.46	902.99	889.20	872.15	853.53
21°	804.49	797.28	792.55	795.45	799.91	802.80	805.01	804.35	794.47	780.27	765.38	747.52
22°	699.71	691.74	688.19	693.35	699.20	704.04	708.02	707.93	699.36	684.91	669.50	649.37
23°	606.52	596.85	593.24	598.80	606.00	612.84	619.17	620.19	611.85	598.22	581.67	559.95
24°	520.97	511.04	507.86	512.83	519.90	527.82	535.68	537.53	529.77	517.07	501.00	480.60
25°	443.35	433.21	429.06	434.77	441.39	450.65	459.06	462.17	455.73	443.99	429.02	410.31
26°	380.61	370.25	365.76	371.94	378.57	389.37	398.66	401.30	397.00	385.88	370.54	352.03
27°	320.33	310.11	305.49	310.33	316.80	328.45	338.91	341.97	338.23	328.02	312.97	294.75
28°	267.77	258.47	254.48	258.89	264.56	275.48	285.78	289.27	285.78	276.54	263.38	246.90
29°	226.17	217.56	214.13	217.62	223.62	233.51	242.52	246.09	243.18	235.26	223.71	208.70
30°	190.40	182.81	180.25	183.29	189.09	197.98	205.88	208.40	206.29	199.57	189.51	176.36
31°	160.49	153.31	150.68	153.95	159.56	168.06	175.85	178.47	176.68	170.63	160.85	149.01
32°	134.42	127.48	125.08	128.40	133.21	141.38	148.57	151.89	150.41	145.07	135.75	124.78
33°	113.40	107.21	105.50	107.45	111.76	118.66	125.45	128.88	128.04	123.10	114.73	105.40
34°	96.57	91.68	90.57	91.63	95.45	101.31	106.90	109.50	109.24	104.81	98.09	90.12
35°	82.76	78.90	77.60	78.66	82.05	87.06	91.75	93.74	93.91	90.05	84.08	77.46
36°	70.05	66.53	64.82	66.15	68.75	72.95	76.41	79.49	79.46	76.41	70.90	64.99
37°	59.49	55.97	54.84	55.49	57.97	61.12	63.96	67.44	67.09	64.30	59.97	55.11
38°	50.92	47.81	47.25	47.32	49.67	52.24	54.38	57.57	57.35	54.84	51.51	47.37
39°	43.84	41.76	41.56	41.07	42.88	44.88	47.02	49.24	49.73	47.34	44.15	41.14
40°	38.48	37.04	36.35	36.68	37.67	39.46	41.22	42.60	42.95	41.12	38.84	36.52
41°	34.72	33.59	33.15	33.23	33.98	35.49	37.17	38.05	38.25	36.46	35.46	32.98
42°	31.36	30.86	30.59	30.35	31.08	31.80	32.92	33.78	33.59	32.40	32.27	30.11
43°	28.90	29.06	28.15	27.53	28.51	28.65	29.24	30.57	30.26	29.26	28.74	27.22
44°	27.12	26.78	25.40	25.16	25.93	26.06	26.28	27.37	26.71	26.31	25.65	24.98
45°	24.39	23.98	23.24	23.09	23.18	23.51	24.08	24.56	24.58	23.97	23.38	22.75
46°	21.93	22.52	22.54	21.45	21.16	21.33	21.79	21.55	22.11	21.63	21.61	21.31
47°	21.22	22.70	21.30	20.49	20.31	20.65	20.77	20.30	20.80	20.36	20.94	20.35
48°	20.99	21.76	19.16	19.32	19.05	19.35	19.16	19.12	19.06	18.97	19.12	18.51
49°	18.75	18.94	16.94	17.58	17.37	17.41	17.07	17.25	17.01	17.03	17.03	16.50
50°	16.17	15.88	15.75	15.73	15.70	15.45	15.38	15.38	15.41	15.28	15.13	15.17
51°	14.20	13.79	14.56	14.45	14.24	14.22	13.92	13.82	14.03	13.91	13.75	13.83
52°	13.41	13.22	13.79	13.46	12.78	12.78	12.53	12.38	12.60	12.56	12.38	12.54
53°	12.68	13.04	12.95	12.15	11.78	11.71	11.57	11.60	11.75	11.71	11.68	11.69
54°	12.40	12.38	12.33	11.66	11.48	11.39	11.52	11.50	11.59	11.44	11.57	11.55
55°	11.79	11.69	11.69	11.69	11.57	11.36	11.17	11.20	11.22	11.22	11.18	11.20
56°	10.77	11.06	10.99	11.03	10.74	10.55	10.19	10.14	10.05	10.24	10.05	10.25
57°	9.71	10.29	10.20	9.95	9.90	9.71	9.29	9.31	9.15	9.42	9.32	9.34
58°	9.33	9.44	9.53	9.05	9.12	9.08	8.79	8.94	8.68	8.79	8.98	8.80
59°	9.03	9.04	8.98	8.49	8.78	8.54	8.52	8.54	8.43	8.40	8.61	8.52
60°	8.32	8.47	8.44	8.30	8.34	8.16	8.18	8.13	8.14	8.15	8.20	8.17
61°	7.50	7.95	8.15	8.18	8.05	7.94	7.94	7.77	7.86	8.08	7.96	7.78
62°	6.94	7.44	7.74	7.78	7.67	7.69	7.73	7.54	7.54	7.93	7.54	7.51
63°	6.45	6.75	6.95	7.16	7.25	7.21	7.38	7.22	7.25	7.59	7.08	7.19

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64°	6.19	6.34	6.32	6.66	6.63	6.65	6.80	6.77	6.68	6.94	6.72	6.83
65°	5.90	5.90	5.95	6.06	6.05	6.03	6.08	6.17	6.18	6.23	6.20	6.22
66°	5.50	5.28	5.49	5.48	5.54	5.47	5.55	5.66	5.68	5.78	5.58	5.76
67°	4.88	4.63	5.09	5.03	5.16	5.02	5.18	5.30	5.28	5.44	5.16	5.37
68°	4.45	4.44	4.75	4.68	4.81	4.73	4.90	4.96	4.85	5.01	4.94	5.01
69°	4.30	4.32	4.45	4.36	4.50	4.42	4.50	4.66	4.63	4.70	4.71	4.60
70°	4.20	4.15	4.15	4.15	4.20	4.20	4.34	4.35	4.48	4.48	4.42	4.34
71°	3.77	3.75	3.84	3.83	3.95	3.94	4.27	3.94	4.27	4.28	4.17	4.19
72°	3.43	3.41	3.54	3.46	3.61	3.66	3.97	3.58	3.98	3.96	3.81	3.93
73°	3.16	3.20	3.27	3.16	3.18	3.39	3.45	3.40	3.59	3.65	3.47	3.66
74°	2.92	2.99	3.02	3.03	2.97	3.23	3.13	3.29	3.36	3.34	3.29	3.33
75°	2.75	2.78	2.83	2.88	2.98	3.09	3.08	3.12	3.19	3.14	3.16	3.09
76°	2.06	2.07	2.26	2.32	2.46	2.47	2.52	2.61	2.73	2.65	2.64	2.61
77°	1.65	1.66	1.89	1.92	1.99	2.07	2.14	2.24	2.32	2.30	2.30	2.28
78°	1.35	1.39	1.61	1.62	1.69	1.75	1.90	1.94	2.04	2.01	2.06	2.01
79°	1.15	1.20	1.36	1.39	1.51	1.63	1.73	1.74	1.78	1.76	1.82	1.74
80°	1.00	1.06	1.17	1.26	1.37	1.49	1.56	1.60	1.60	1.60	1.63	1.58
81°	1.00	1.04	1.14	1.24	1.32	1.41	1.42	1.52	1.49	1.50	1.53	1.46
82°	0.99	1.02	1.09	1.23	1.21	1.28	1.37	1.39	1.40	1.42	1.42	1.40
83°	1.00	1.01	1.06	1.17	1.13	1.19	1.33	1.32	1.28	1.32	1.28	1.32
84°	1.02	1.02	1.03	1.12	1.07	1.12	1.26	1.26	1.20	1.24	1.17	1.23
85°	1.04	1.04	1.01	1.07	1.04	1.11	1.13	1.19	1.13	1.19	1.13	1.13
86°	1.12	1.14	1.07	1.18	1.12	1.20	1.21	1.22	1.20	1.26	1.20	1.26
87°	1.20	1.23	1.17	1.28	1.20	1.25	1.30	1.31	1.24	1.32	1.26	1.35
88°	1.29	1.32	1.28	1.37	1.31	1.33	1.39	1.42	1.34	1.41	1.36	1.40
89°	1.41	1.44	1.40	1.51	1.47	1.49	1.43	1.51	1.45	1.51	1.50	1.40
90°	1.60	1.60	1.61	1.67	1.67	1.61	1.61	1.61	1.61	1.63	1.63	1.60
Gamma	C240°	C245°	C250°	C255°	C260°	C265°	C270°	C275°	C280°	C285°	C290°	C295°
0°	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64
1°	3238.87	3236.30	3233.87	3232.54	3230.10	3229.63	3228.36	3224.86	3223.56	3222.41	3219.58	3218.69
2°	3166.07	3163.12	3160.29	3156.34	3151.94	3148.99	3145.17	3140.91	3138.67	3138.08	3134.91	3135.62
3°	3089.99	3085.15	3079.92	3074.07	3067.77	3063.22	3057.49	3053.79	3051.92	3051.04	3047.85	3048.62
4°	3007.46	3001.15	2993.99	2986.68	2978.28	2972.57	2965.86	2962.40	2962.01	2960.21	2957.73	2957.90
5°	2918.41	2911.16	2903.29	2895.11	2886.25	2879.53	2872.64	2867.87	2866.13	2863.26	2860.37	2859.07
6°	2782.93	2776.72	2768.79	2760.79	2751.11	2744.23	2736.99	2731.40	2728.38	2723.97	2720.01	2717.42
7°	2653.30	2647.41	2638.74	2631.71	2621.35	2614.50	2606.35	2600.58	2598.34	2592.19	2588.20	2585.03
8°	2528.03	2521.26	2511.89	2504.63	2494.33	2487.94	2478.49	2473.67	2471.67	2463.86	2459.49	2455.98
9°	2407.42	2399.40	2390.56	2383.37	2373.67	2367.23	2356.91	2352.12	2347.70	2339.36	2334.86	2330.06
10°	2286.67	2278.32	2269.27	2261.46	2251.84	2244.68	2235.66	2231.72	2224.65	2216.31	2210.63	2205.02
11°	2111.47	2103.67	2095.87	2088.17	2080.49	2073.34	2066.61	2063.01	2058.92	2050.42	2043.84	2039.07
12°	1946.28	1938.94	1931.51	1924.07	1918.20	1912.84	1907.95	1904.88	1904.54	1896.37	1888.82	1884.48
13°	1798.69	1791.27	1785.02	1778.57	1774.51	1771.21	1767.47	1765.02	1767.45	1760.82	1752.04	1747.61
14°	1666.79	1658.93	1653.06	1646.84	1644.57	1642.69	1640.54	1638.82	1640.89	1634.91	1625.50	1621.66
15°	1540.56	1532.06	1526.19	1520.18	1519.58	1518.25	1517.05	1515.57	1516.51	1510.04	1500.78	1496.45
16°	1368.10	1359.79	1353.00	1348.32	1349.87	1350.98	1351.61	1351.05	1350.33	1344.52	1335.25	1328.43
17°	1209.30	1200.46	1193.62	1190.50	1192.86	1196.25	1198.55	1199.22	1198.34	1193.48	1184.09	1175.14
18°	1068.38	1059.47	1052.28	1050.84	1054.08	1059.41	1062.93	1064.60	1064.87	1060.11	1050.83	1041.32
19°	948.36	938.85	931.48	932.10	936.20	942.44	946.90	949.55	950.97	945.94	936.51	926.37
20°	840.43	831.15	824.89	825.79	830.58	837.57	842.44	846.07	847.37	842.85	833.11	822.80
21°	733.87	724.91	719.95	722.13	728.01	736.41	741.08	746.36	746.33	741.86	732.96	722.54
22°	633.46	624.26	619.55	622.18	629.93	640.22	645.50	651.63	651.26	647.11	637.85	626.79
23°	543.39	533.96	529.21	532.74	542.18	552.05	558.34	564.62	564.47	560.75	551.71	540.34
24°	464.92	456.05	452.26	455.91	465.69	475.47	482.00	487.52	488.28	484.60	476.38	466.19
25°	394.70	385.73	382.15	386.49	396.30	407.02	413.35	419.28	420.02	415.68	408.07	398.08
26°	335.41	326.26	323.00	327.81	337.59	349.06	355.51	361.90	363.12	358.27	350.11	339.62
27°	278.94	270.76	267.87	273.00	282.31	292.44	299.30	305.64	307.34	302.87	294.44	283.81
28°	232.85	226.18	223.94	228.72	237.45	246.12	252.75	258.30	260.45	256.39	248.42	238.75

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29°	196.51	190.41	188.86	193.57	201.49	208.92	214.36	219.17	221.38	218.24	210.71	201.96
30°	165.54	159.70	158.26	162.90	170.89	177.30	182.04	186.11	187.80	185.31	178.72	170.70
31°	138.75	133.23	132.28	136.20	143.88	150.29	154.86	158.75	159.85	157.58	151.23	143.75
32°	115.07	110.49	109.91	113.16	120.09	126.32	130.67	134.03	134.76	132.36	126.45	120.01
33°	97.09	93.64	93.19	96.20	101.55	106.92	110.69	113.45	114.18	112.33	106.86	101.68
34°	83.87	81.07	79.76	82.96	87.50	91.77	95.31	97.08	98.10	96.51	91.93	87.37
35°	72.11	69.67	69.07	71.28	75.24	79.01	81.85	83.56	84.30	82.92	79.44	74.92
36°	60.86	58.46	58.55	59.88	63.19	66.19	68.69	69.83	70.67	69.64	66.91	62.99
37°	51.61	49.51	49.83	51.09	53.27	55.51	57.86	58.96	59.66	58.80	56.46	53.29
38°	44.50	42.58	42.33	43.59	45.39	46.80	49.57	50.14	50.82	49.95	47.74	45.21
39°	39.01	37.88	37.71	38.49	39.58	40.61	42.38	42.93	43.28	42.71	41.09	39.32
40°	34.75	33.78	33.60	34.20	35.23	36.50	37.52	37.86	37.99	37.65	36.34	34.76
41°	31.63	30.81	30.66	31.44	31.65	33.44	33.72	33.83	33.78	33.67	32.87	31.36
42°	28.81	27.75	27.74	28.34	28.64	30.23	30.77	30.23	30.21	30.34	29.80	28.20
43°	26.51	25.63	25.72	25.81	26.22	27.18	27.72	27.32	27.26	27.30	26.90	25.66
44°	24.35	23.42	23.50	23.64	24.24	25.01	25.39	25.45	25.30	24.98	24.45	23.47
45°	22.32	21.89	21.96	22.13	22.55	22.93	23.16	23.15	22.87	22.62	22.20	21.81
46°	21.18	20.82	20.93	21.37	21.62	21.58	21.75	21.33	21.43	21.62	21.26	21.50
47°	20.23	19.67	19.89	20.26	20.46	20.69	21.21	20.57	20.77	21.01	20.70	20.50
48°	18.56	17.80	18.19	18.73	18.60	19.34	19.30	19.35	19.39	19.15	18.74	18.42
49°	16.42	16.15	16.45	16.75	16.78	17.25	17.18	17.50	17.06	16.81	16.39	16.12
50°	14.96	14.83	15.05	15.19	15.26	15.08	15.24	15.46	15.17	14.90	14.73	14.76
51°	13.48	13.54	13.80	13.83	13.72	13.37	13.84	13.59	13.57	13.39	13.25	13.38
52°	12.18	12.14	12.43	12.43	12.32	12.25	12.44	12.24	12.50	12.34	12.22	12.34
53°	11.48	11.44	11.52	11.47	11.60	11.78	11.74	11.56	11.90	11.95	11.71	11.86
54°	11.53	11.19	11.35	11.51	11.59	11.61	11.62	11.65	11.83	11.75	11.58	11.61
55°	11.13	11.04	11.23	11.48	11.54	11.40	11.45	11.78	11.52	11.32	11.14	11.18
56°	10.09	10.15	10.42	10.60	10.72	10.56	10.49	11.00	10.57	10.42	10.25	10.20
57°	9.32	9.36	9.50	9.64	9.80	9.63	9.52	9.85	9.68	9.50	9.26	9.46
58°	8.94	8.73	8.85	9.01	9.12	8.94	8.87	8.97	8.92	8.91	8.69	8.99
59°	8.60	8.39	8.44	8.55	8.72	8.61	8.64	8.52	8.46	8.50	8.43	8.58
60°	8.19	8.01	8.09	8.18	8.37	8.24	8.25	8.28	8.15	8.11	8.05	8.09
61°	7.85	7.89	7.79	7.94	8.20	7.77	8.01	8.04	7.89	7.77	7.61	7.74
62°	7.69	7.62	7.53	7.49	7.73	7.39	7.54	7.57	7.30	7.36	7.09	7.23
63°	7.28	7.07	7.11	6.86	7.03	7.01	6.95	7.10	6.65	6.87	6.72	6.73
64°	6.66	6.49	6.56	6.26	6.36	6.46	6.27	6.55	6.20	6.39	6.38	6.21
65°	6.09	5.90	5.91	5.75	5.88	5.86	5.82	5.93	5.85	5.88	5.95	5.86
66°	5.59	5.44	5.32	5.27	5.36	5.37	5.38	5.24	5.29	5.31	5.25	5.28
67°	5.10	5.01	4.87	4.80	4.90	5.01	4.91	4.83	4.84	4.85	4.77	4.90
68°	4.66	4.69	4.57	4.50	4.56	4.72	4.51	4.57	4.51	4.49	4.44	4.59
69°	4.46	4.34	4.26	4.19	4.31	4.35	4.22	4.33	4.25	4.19	4.22	4.35
70°	4.18	4.07	3.98	3.95	4.04	3.98	3.98	3.98	3.94	3.99	3.98	4.02
71°	3.95	3.80	3.86	3.71	3.74	3.83	3.73	3.61	3.68	3.67	3.79	3.65
72°	3.64	3.47	3.67	3.35	3.39	3.70	3.40	3.27	3.48	3.19	3.38	3.27
73°	3.38	3.23	3.37	3.07	3.12	3.35	3.12	3.08	3.21	2.93	2.96	3.02
74°	3.13	3.07	3.16	2.91	2.91	3.03	2.84	2.93	3.00	2.86	2.78	2.89
75°	2.95	2.91	2.91	2.79	2.79	2.83	2.79	2.80	2.76	2.77	2.81	2.84
76°	2.42	2.41	2.34	2.30	2.28	2.37	2.40	2.28	2.32	2.21	2.35	2.35
77°	2.05	2.07	2.01	2.03	1.95	1.99	2.14	1.93	2.01	1.89	1.93	2.00
78°	1.84	1.83	1.82	1.82	1.72	1.76	1.87	1.70	1.80	1.70	1.70	1.76
79°	1.67	1.64	1.62	1.64	1.57	1.55	1.67	1.51	1.62	1.55	1.52	1.57
80°	1.50	1.51	1.47	1.48	1.42	1.42	1.48	1.42	1.45	1.38	1.38	1.38
81°	1.39	1.37	1.39	1.34	1.32	1.34	1.36	1.36	1.35	1.27	1.31	1.27
82°	1.33	1.28	1.32	1.22	1.26	1.26	1.31	1.28	1.25	1.17	1.24	1.22
83°	1.26	1.23	1.20	1.16	1.18	1.18	1.25	1.18	1.18	1.14	1.14	1.15
84°	1.16	1.17	1.11	1.12	1.12	1.11	1.17	1.14	1.12	1.08	1.05	1.12
85°	1.11	1.11	1.06	1.04	1.04	1.06	1.06	1.11	1.06	1.06	1.01	1.07

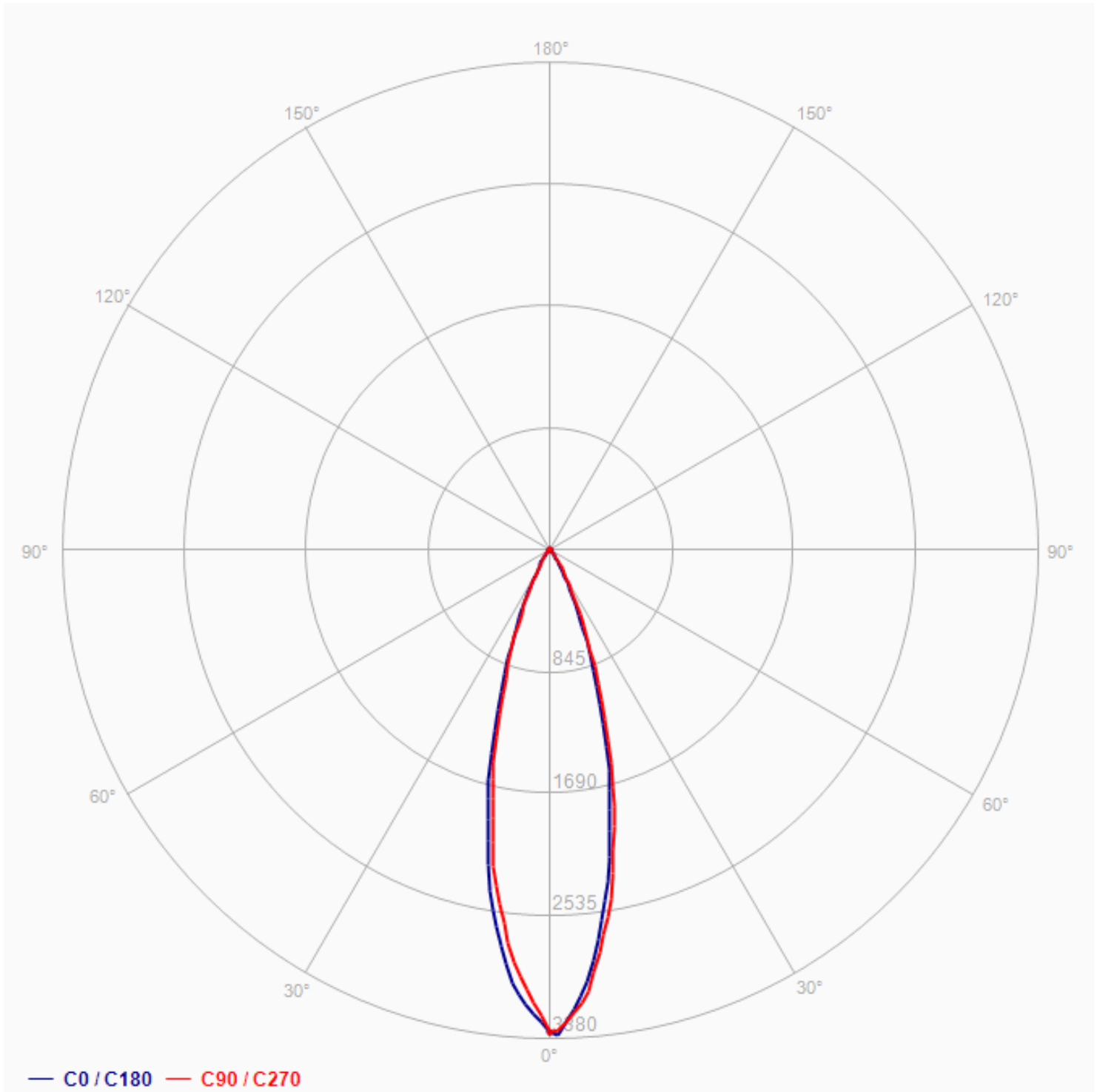
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86°	1.18	1.20	1.15	1.11	1.13	1.11	1.10	1.20	1.12	1.11	1.11	1.15
87°	1.25	1.29	1.21	1.20	1.20	1.18	1.21	1.26	1.22	1.24	1.23	1.21
88°	1.30	1.35	1.29	1.31	1.32	1.28	1.34	1.34	1.33	1.32	1.33	1.32
89°	1.40	1.44	1.39	1.40	1.43	1.44	1.46	1.41	1.48	1.44	1.45	1.42
90°	1.54	1.55	1.55	1.54	1.60	1.60	1.60	1.54	1.60	1.54	1.55	1.55
Gamma	C300°	C305°	C310°	C315°	C320°	C325°	C330°	C335°	C340°	C345°	C350°	C355°
0°	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64	3338.64
1°	3215.86	3216.20	3216.00	3214.58	3213.22	3211.11	3210.20	3211.00	3209.98	3208.36	3207.90	3211.90
2°	3132.92	3133.75	3132.57	3131.99	3130.82	3129.54	3128.42	3129.70	3127.27	3125.63	3125.87	3131.28
3°	3046.77	3046.98	3045.04	3044.73	3042.50	3041.98	3041.11	3041.83	3039.34	3038.82	3039.73	3045.48
4°	2955.80	2954.59	2953.81	2952.54	2949.60	2949.26	2948.43	2948.69	2946.56	2947.77	2949.92	2956.60
5°	2856.68	2854.54	2853.05	2851.01	2849.56	2848.19	2847.87	2849.07	2850.89	2853.40	2856.66	2861.38
6°	2713.70	2710.80	2709.40	2707.09	2706.28	2704.83	2705.24	2707.80	2712.37	2715.40	2718.91	2723.02
7°	2580.25	2576.45	2574.37	2572.83	2570.18	2569.08	2570.74	2573.92	2577.63	2580.71	2584.21	2590.47
8°	2451.19	2446.71	2444.94	2444.15	2439.89	2438.97	2441.51	2445.00	2447.10	2450.40	2453.89	2463.30
9°	2326.03	2320.68	2318.60	2317.74	2314.27	2312.92	2316.00	2320.60	2322.04	2325.94	2329.87	2340.42
10°	2200.72	2195.55	2193.91	2192.13	2190.02	2188.43	2191.23	2196.56	2200.39	2205.34	2209.58	2218.35
11°	2035.36	2029.33	2026.74	2024.94	2024.32	2023.58	2025.81	2030.17	2035.94	2041.41	2046.04	2049.40
12°	1881.66	1875.16	1871.47	1869.65	1869.67	1870.11	1871.83	1875.71	1882.99	1888.27	1892.83	1892.30
13°	1745.24	1738.16	1733.57	1731.77	1732.67	1733.72	1735.36	1739.01	1744.42	1748.57	1753.70	1754.37
14°	1618.54	1611.77	1606.37	1604.48	1605.93	1607.24	1609.90	1613.45	1618.71	1621.65	1627.22	1629.72
15°	1492.77	1485.56	1480.03	1478.27	1479.56	1481.61	1484.77	1488.84	1494.68	1497.69	1503.17	1507.75
16°	1322.45	1314.25	1310.05	1310.05	1312.20	1316.55	1321.37	1327.98	1335.13	1337.94	1341.73	1346.33
17°	1167.22	1157.54	1154.66	1155.44	1158.96	1165.27	1171.34	1179.30	1187.11	1190.44	1192.95	1196.16
18°	1032.92	1022.02	1019.91	1021.36	1025.99	1033.39	1041.05	1049.84	1057.56	1060.01	1062.20	1063.02
19°	917.30	906.30	904.52	906.04	912.16	920.09	928.18	938.22	944.84	946.30	947.53	948.78
20°	813.58	803.49	801.61	803.58	810.44	818.52	827.19	837.33	844.18	844.61	844.81	845.30
21°	713.27	702.65	701.54	702.96	710.56	718.30	727.57	738.05	743.54	744.41	741.52	739.99
22°	617.79	605.93	604.64	606.88	614.53	622.68	632.66	644.19	651.28	651.83	646.63	641.76
23°	531.25	519.95	518.44	521.17	528.43	537.00	546.87	558.37	566.51	566.93	560.07	552.80
24°	456.25	447.21	444.96	448.27	453.78	463.10	473.12	483.92	490.82	490.42	483.31	475.18
25°	387.77	378.98	376.78	379.64	385.27	394.66	405.57	415.77	421.19	420.32	413.39	405.38
26°	328.74	319.82	317.49	320.38	326.66	336.16	348.01	357.82	363.12	362.18	355.31	346.56
27°	273.71	265.19	263.71	265.99	272.97	281.43	292.99	301.95	307.14	306.21	299.39	289.91
28°	229.14	222.16	221.09	223.54	230.04	237.91	247.86	256.11	259.71	258.52	252.00	243.80
29°	193.60	187.51	186.47	189.43	195.43	202.79	211.30	218.25	221.13	219.75	214.03	206.98
30°	162.45	157.03	155.92	159.19	164.62	171.72	179.68	185.51	187.95	186.24	181.34	174.72
31°	136.02	131.09	130.06	132.92	137.66	144.26	151.98	157.58	159.92	158.32	153.34	147.36
32°	113.04	108.97	108.36	110.65	114.67	120.80	127.17	132.47	134.82	133.30	128.57	123.30
33°	96.05	92.47	92.27	94.31	97.66	102.88	107.91	112.56	114.33	112.60	108.56	104.49
34°	82.27	79.49	79.36	81.45	84.55	88.77	93.16	96.83	98.14	96.12	92.80	89.05
35°	70.71	68.56	68.31	70.20	72.94	76.29	80.46	83.42	84.54	82.91	79.86	75.86
36°	59.47	58.14	57.75	59.30	61.97	64.35	67.77	69.95	71.28	69.97	67.59	63.02
37°	50.27	49.11	49.07	50.46	52.94	54.59	57.32	59.21	60.28	59.24	57.01	53.29
38°	42.56	41.71	41.90	43.11	45.11	46.47	48.67	50.71	51.39	50.80	48.38	45.87
39°	37.42	36.71	37.08	37.89	39.11	40.17	41.87	43.51	44.08	43.59	41.65	39.82
40°	33.35	32.89	33.04	33.69	34.57	35.46	36.97	38.08	38.67	37.93	36.49	34.72
41°	30.24	30.12	30.04	30.72	31.21	31.70	32.97	33.66	34.62	33.81	32.47	30.98
42°	27.34	27.65	26.95	27.80	28.07	28.47	29.66	30.31	31.25	30.46	29.52	28.51
43°	25.17	25.40	24.86	25.91	25.84	26.34	26.78	27.31	28.58	27.98	27.47	26.57
44°	23.05	23.05	22.82	23.67	23.72	24.20	24.74	25.08	25.88	25.52	25.00	24.32
45°	21.48	21.52	21.77	22.00	22.00	22.06	22.54	22.76	23.06	22.91	22.43	21.93
46°	21.08	21.39	21.39	21.50	21.17	21.10	21.66	21.52	21.07	20.87	20.94	19.97
47°	20.19	20.49	20.82	20.89	20.35	20.43	20.88	20.74	20.26	20.05	20.31	18.82
48°	18.43	18.74	19.20	18.99	18.58	18.41	19.07	18.81	18.52	18.57	18.63	17.70
49°	16.26	16.48	17.08	16.56	16.61	16.24	16.76	16.53	16.29	16.44	16.38	16.48
50°	14.70	14.87	15.19	15.14	14.98	14.94	14.92	14.76	14.70	14.84	14.92	14.68

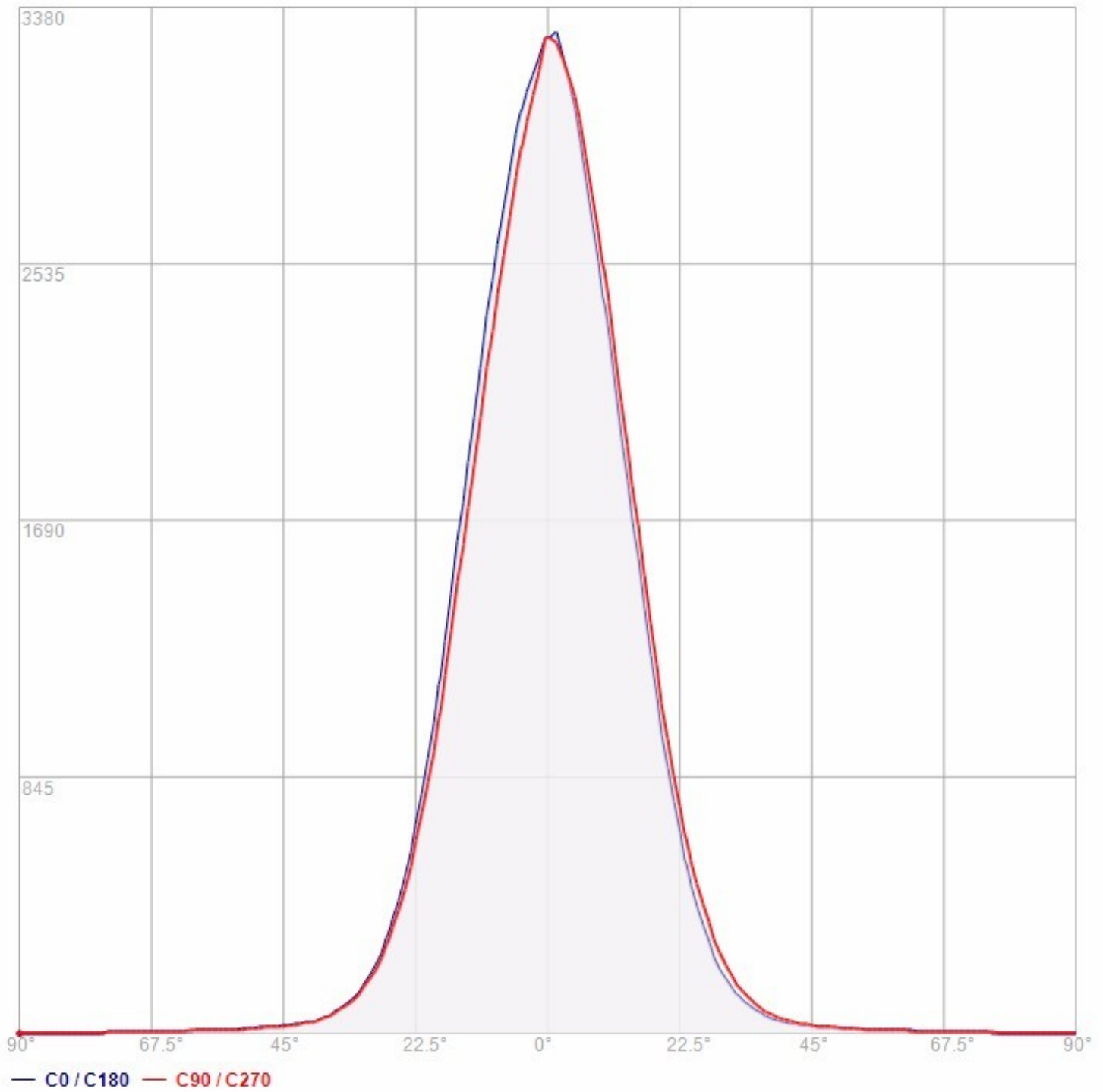
PHOTOMETRIC MEASUREMENT REPORT N° 003

51°	13.24	13.39	13.41	13.73	13.52	13.74	13.32	13.21	14.15	14.03	14.28	12.92
52°	12.30	12.53	12.34	12.62	12.46	12.58	12.26	12.27	13.49	13.61	13.79	11.71
53°	11.86	12.13	11.82	11.77	12.02	11.85	11.86	11.75	12.91	13.20	12.95	11.24
54°	11.68	11.90	11.85	11.80	11.68	11.63	11.68	11.51	12.07	12.32	12.26	11.16
55°	11.09	11.24	11.47	11.44	11.35	11.29	11.10	10.92	10.96	10.90	11.07	11.13
56°	10.13	10.25	10.66	10.69	10.61	10.52	10.17	10.07	9.53	9.54	9.81	10.63
57°	9.28	9.44	9.69	9.86	9.83	9.76	9.34	9.25	8.77	8.93	8.97	10.09
58°	8.81	9.03	9.09	9.35	9.22	9.22	8.87	8.73	8.52	8.62	8.74	9.42
59°	8.43	8.64	8.66	8.72	8.85	8.82	8.53	8.38	8.36	8.34	8.51	8.70
60°	8.09	8.24	8.35	8.22	8.42	8.34	8.14	8.00	8.04	7.95	8.03	7.92
61°	7.66	7.80	7.99	7.98	7.95	7.94	7.77	7.69	7.77	7.62	7.77	7.39
62°	7.17	7.37	7.62	7.59	7.40	7.62	7.39	7.19	7.48	7.11	7.43	6.91
63°	6.80	6.90	7.16	7.14	6.95	7.14	7.03	6.75	7.13	6.79	7.14	6.51
64°	6.50	6.61	6.72	6.64	6.64	6.65	6.52	6.23	6.63	6.37	6.44	6.09
65°	5.96	6.14	6.14	6.19	6.23	6.14	6.03	5.90	5.86	5.80	5.74	5.63
66°	5.32	5.64	5.58	5.55	5.65	5.79	5.44	5.47	5.10	4.95	4.99	5.03
67°	4.91	5.15	5.13	5.19	5.13	5.37	5.02	5.12	4.64	4.54	4.58	4.71
68°	4.65	4.83	4.86	4.90	4.81	4.99	4.70	4.76	4.36	4.32	4.26	4.45
69°	4.41	4.49	4.58	4.65	4.59	4.58	4.47	4.42	4.15	4.15	4.09	4.18
70°	4.14	4.18	4.23	4.32	4.31	4.28	4.16	4.08	3.97	3.98	3.94	3.94
71°	3.80	3.91	3.73	4.14	4.04	4.00	3.86	3.82	3.68	3.64	3.77	3.66
72°	3.45	3.52	3.34	3.89	3.73	3.67	3.45	3.55	3.45	3.38	3.51	3.42
73°	3.26	3.24	3.18	3.53	3.43	3.39	3.14	3.25	3.27	3.16	3.26	3.19
74°	3.07	3.01	3.10	3.14	3.14	3.16	2.96	3.02	3.06	2.93	2.95	2.98
75°	2.91	2.89	2.92	2.92	2.94	2.94	2.91	2.87	2.84	2.79	2.76	2.80
76°	2.37	2.34	2.35	2.44	2.36	2.35	2.39	2.30	2.30	2.35	2.31	2.43
77°	2.09	2.02	2.01	2.10	1.94	2.05	2.04	1.93	1.94	1.99	1.99	2.11
78°	1.82	1.76	1.77	1.85	1.71	1.85	1.79	1.72	1.69	1.69	1.70	1.83
79°	1.54	1.56	1.56	1.63	1.57	1.66	1.61	1.55	1.53	1.50	1.50	1.63
80°	1.37	1.38	1.38	1.48	1.42	1.48	1.48	1.38	1.38	1.38	1.40	1.49
81°	1.29	1.34	1.28	1.32	1.31	1.38	1.42	1.30	1.27	1.31	1.33	1.37
82°	1.22	1.26	1.20	1.22	1.19	1.33	1.36	1.23	1.19	1.20	1.25	1.26
83°	1.14	1.20	1.14	1.14	1.08	1.23	1.25	1.18	1.16	1.12	1.19	1.21
84°	1.09	1.11	1.08	1.10	1.03	1.11	1.14	1.13	1.09	1.08	1.12	1.15
85°	1.07	1.07	1.01	1.01	1.01	1.02	1.08	1.08	1.02	1.07	1.07	1.07
86°	1.16	1.15	1.08	1.08	1.08	1.13	1.17	1.17	1.09	1.12	1.21	1.08
87°	1.22	1.27	1.15	1.18	1.13	1.26	1.22	1.27	1.20	1.22	1.32	1.17
88°	1.26	1.37	1.23	1.30	1.22	1.36	1.30	1.37	1.28	1.34	1.39	1.29
89°	1.35	1.46	1.32	1.40	1.36	1.43	1.43	1.45	1.36	1.49	1.45	1.43
90°	1.51	1.57	1.51	1.51	1.51	1.51	1.57	1.57	1.49	1.55	1.61	1.55

Photometric Polar Diagram



Photometric Cartesian Diagram



Light Emmission Photo



Opening angle

