

PHOTOMETRIC MEASUREMENT REPORT N° 004

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-A.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): 6694.31

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): 30.43

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°	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57
1°	17991.97	17999.04	17968.20	17919.74	17895.72	17873.60	17856.91	17832.11	17821.76	17801.94	17784.04	17771.95
2°	15772.42	15847.96	15843.29	15806.21	15807.81	15803.95	15804.78	15809.20	15820.77	15820.47	15827.96	15837.26
3°	13790.50	13872.65	13892.51	13888.41	13905.87	13919.03	13932.73	13956.75	13981.77	13999.47	14023.91	14052.36
4°	11981.18	12054.70	12094.07	12114.17	12146.26	12177.08	12204.89	12243.79	12281.29	12314.09	12349.98	12389.31
5°	10231.32	10286.56	10342.90	10395.77	10441.56	10487.87	10536.47	10589.44	10641.43	10689.34	10738.26	10786.63
6°	7754.42	7828.89	7881.88	7928.52	8014.77	8104.64	8189.51	8278.75	8365.83	8443.80	8517.94	8582.21
7°	5837.60	5891.78	5946.06	6005.75	6102.64	6207.83	6301.80	6405.86	6506.50	6590.99	6672.95	6745.46
8°	4338.77	4388.22	4441.75	4502.08	4598.77	4712.43	4809.88	4914.94	5017.05	5099.84	5176.96	5241.68
9°	3176.58	3217.59	3268.12	3329.35	3415.26	3521.42	3619.63	3720.97	3814.73	3893.56	3965.30	4018.24
10°	2236.73	2267.46	2309.19	2366.26	2441.99	2528.75	2619.10	2708.01	2794.77	2871.86	2934.71	2983.07
11°	1592.87	1617.40	1648.86	1688.10	1741.46	1800.37	1865.07	1931.05	1997.74	2053.98	2097.51	2136.40
12°	1122.13	1143.51	1167.53	1193.42	1227.70	1267.91	1310.60	1354.42	1400.89	1436.12	1462.71	1489.24
13°	830.72	845.63	864.16	882.06	901.28	929.27	955.71	984.77	1011.78	1031.92	1048.37	1063.82
14°	635.98	646.58	659.78	670.86	684.89	702.26	720.42	738.68	755.83	770.29	779.56	787.90
15°	492.11	499.12	506.16	514.60	524.50	535.66	547.42	558.99	569.64	577.76	583.38	587.19
16°	386.35	388.70	392.44	401.94	410.11	419.28	428.51	435.89	441.13	443.57	448.14	447.63
17°	312.40	311.44	312.81	320.08	326.76	333.73	341.49	344.63	347.42	347.71	350.71	349.53
18°	257.52	257.94	257.82	262.55	269.15	274.69	280.82	280.81	282.68	283.52	285.29	284.86
19°	214.96	216.60	215.74	222.12	226.53	229.30	233.77	232.90	235.48	236.01	236.99	236.94
20°	179.26	181.03	183.28	186.42	189.98	193.15	195.53	197.08	198.02	198.56	198.63	197.89
21°	149.93	148.98	154.07	155.35	159.29	160.99	162.82	163.89	164.85	164.82	165.65	163.91
22°	124.24	128.51	130.53	126.74	128.90	132.19	134.53	134.62	135.51	133.71	135.67	134.28
23°	112.28	115.64	115.90	108.70	109.67	112.67	114.05	112.93	113.56	112.36	113.72	112.37
24°	100.26	101.07	101.10	95.52	96.04	98.16	99.40	99.79	99.15	99.47	98.97	99.03
25°	84.98	85.42	85.85	86.47	87.24	87.85	88.51	88.73	88.97	89.20	89.29	89.13
26°	70.94	79.52	77.24	75.71	76.92	75.01	77.65	77.83	79.09	78.29	78.33	77.83
27°	66.31	76.18	74.88	66.25	67.20	66.10	67.59	66.41	68.43	67.90	67.20	66.46
28°	60.82	66.38	67.50	58.43	58.76	58.83	59.64	58.46	59.47	60.31	58.86	58.25
29°	54.69	56.87	57.95	53.65	52.82	53.88	53.44	52.76	53.26	53.85	53.61	53.08
30°	50.94	50.98	51.21	51.40	51.47	51.60	51.65	51.68	51.54	51.53	51.56	51.70
31°	48.59	47.19	47.63	50.25	50.33	50.19	50.09	50.56	50.58	50.05	49.68	49.99
32°	45.07	43.12	46.23	48.45	48.81	48.42	47.77	48.29	48.75	48.76	48.14	47.34
33°	41.02	41.08	42.94	45.14	45.70	45.28	45.58	44.77	45.49	46.06	45.70	44.83
34°	37.95	38.61	39.46	40.26	40.98	41.43	41.54	40.67	41.08	41.50	41.83	41.49
35°	35.32	35.42	35.47	35.52	35.58	35.67	35.75	35.92	35.92	35.88	36.03	36.11
36°	31.39	31.91	32.66	32.25	31.31	30.92	30.24	31.90	31.99	31.99	32.18	30.84
37°	26.87	29.29	29.04	29.56	28.06	26.85	26.76	28.45	29.21	28.75	28.37	26.52
38°	24.33	26.73	26.73	27.05	25.87	25.41	24.92	26.92	27.62	26.25	25.99	24.79
39°	24.52	25.12	25.41	25.55	25.20	25.00	24.76	25.91	26.28	25.18	24.75	24.81
40°	24.47	24.56	24.67	24.75	24.72	24.82	24.85	25.04	25.03	25.02	24.97	25.09
41°	23.78	24.48	24.13	23.88	24.25	23.65	24.15	23.64	23.42	23.90	23.90	23.92
42°	22.89	23.91	23.76	23.46	23.30	22.97	23.51	23.20	22.83	22.93	22.88	23.30
43°	22.00	22.85	23.07	22.65	22.58	22.41	22.76	22.38	22.05	22.38	22.31	22.48
44°	21.19	21.70	22.10	21.71	21.92	22.08	22.05	21.70	21.64	21.66	21.89	21.89
45°	20.92	21.07	21.11	21.29	21.29	21.30	21.21	21.26	21.19	20.99	21.11	21.21
46°	20.43	20.34	20.83	20.77	20.43	20.29	20.47	20.66	20.55	20.32	20.02	20.48
47°	19.76	19.31	20.45	20.00	19.93	19.36	19.64	19.84	19.52	19.85	19.24	19.53
48°	19.17	18.39	19.39	19.08	19.26	18.71	18.80	18.83	18.79	19.09	18.79	18.90
49°	18.76	18.02	18.19	18.41	18.27	17.92	17.96	18.11	18.12	18.32	18.29	18.26
50°	18.06	18.12	17.97	17.74	17.45	17.31	17.40	17.56	17.60	17.62	17.64	17.61
51°	17.62	17.04	17.37	17.13	16.76	16.53	16.98	17.16	17.13	17.27	16.91	17.00
52°	17.38	15.43	16.76	16.87	15.90	16.31	16.29	16.40	16.64	16.97	16.25	16.48
53°	17.29	15.13	16.75	16.43	15.20	15.95	15.98	16.06	16.01	16.75	16.21	16.02
54°	17.09	16.10	16.52	15.88	15.13	15.58	15.65	15.71	15.46	16.38	15.92	15.77

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55°	16.71	16.88	15.98	15.29	15.03	15.03	15.14	15.38	15.55	15.70	15.64	15.43
56°	15.89	15.94	15.21	14.97	14.39	14.57	14.34	14.52	15.24	14.80	14.69	14.61
57°	15.34	14.93	14.77	14.30	13.60	13.96	13.91	14.11	14.71	14.32	13.86	13.80
58°	14.86	14.12	14.32	13.19	12.99	13.12	13.29	13.24	13.88	13.93	13.11	13.13
59°	14.32	13.83	13.82	12.39	12.50	12.54	12.54	12.86	13.16	13.32	12.83	12.75
60°	13.76	13.63	13.08	12.32	12.12	12.05	12.15	12.41	12.65	12.84	12.73	12.42
61°	12.79	13.28	11.83	11.59	11.02	10.92	11.29	11.49	11.58	11.69	11.79	11.51
62°	11.80	12.46	11.13	10.78	10.18	10.01	10.63	10.08	10.72	10.88	10.61	10.76
63°	10.99	11.39	10.89	10.03	9.28	9.39	9.86	9.44	9.83	10.15	9.67	10.12
64°	10.16	10.62	10.33	9.33	8.79	8.74	8.94	8.92	9.29	9.42	9.12	9.40
65°	9.58	9.51	9.24	8.70	8.34	8.34	8.37	8.54	8.67	8.73	8.79	8.62
66°	9.13	8.70	8.11	8.05	7.89	7.57	7.73	7.60	7.59	8.09	7.87	7.94
67°	8.56	8.13	7.66	7.40	7.20	6.97	7.11	6.93	6.71	7.40	7.12	7.46
68°	7.76	7.75	6.97	6.70	6.56	6.33	6.29	6.40	6.19	6.50	6.51	6.86
69°	6.83	6.75	6.72	6.03	5.97	5.87	5.83	5.92	5.94	6.00	6.07	6.17
70°	6.32	6.25	5.93	5.72	5.58	5.51	5.51	5.53	5.55	5.68	5.68	5.80
71°	5.60	5.62	5.46	5.15	5.04	4.96	5.02	4.91	5.09	5.13	5.19	5.44
72°	4.92	5.22	4.70	4.60	4.62	4.57	4.55	4.36	4.74	4.61	4.80	4.91
73°	4.38	4.42	4.63	4.12	4.18	4.18	4.18	4.08	4.59	4.30	4.39	4.34
74°	3.91	4.00	4.37	3.88	3.87	3.90	3.80	3.90	4.14	4.01	4.05	3.97
75°	3.72	3.76	3.78	3.69	3.57	3.56	3.59	3.66	3.72	3.76	3.75	3.76
76°	3.46	3.49	3.30	3.24	3.13	3.24	3.18	3.20	3.23	3.37	3.37	3.30
77°	3.22	3.06	3.19	2.80	2.72	2.86	2.89	2.92	3.03	3.02	3.08	2.99
78°	2.82	2.62	3.01	2.48	2.54	2.53	2.59	2.68	2.82	2.70	2.86	2.79
79°	2.50	2.59	2.53	2.31	2.39	2.32	2.43	2.44	2.55	2.48	2.63	2.59
80°	2.31	2.30	2.31	2.21	2.18	2.24	2.18	2.21	2.26	2.33	2.33	2.28
81°	2.27	2.25	2.27	2.22	2.09	2.27	2.17	2.20	2.23	2.32	2.26	2.23
82°	2.13	2.21	2.12	2.20	2.07	2.22	2.16	2.20	2.28	2.27	2.25	2.17
83°	2.09	2.40	2.11	2.19	2.14	2.19	2.10	2.16	2.20	2.22	2.24	2.15
84°	2.08	2.20	2.18	2.16	2.15	2.15	2.07	2.21	2.14	2.22	2.22	2.11
85°	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.14	2.15	2.20	2.15
86°	2.27	2.35	2.12	2.37	2.30	2.28	2.43	2.27	2.41	2.25	2.42	2.27
87°	2.56	2.69	2.17	2.60	2.55	2.50	2.56	2.47	2.56	2.44	2.59	2.44
88°	2.77	2.80	2.39	2.76	2.76	2.76	2.70	2.77	2.72	2.73	2.76	2.66
89°	2.98	3.07	2.76	2.94	3.00	3.07	2.92	2.92	2.89	3.03	2.91	3.01
90°	3.31	3.31	3.31	3.37	3.31	3.33	3.33	3.33	3.33	3.27	3.31	3.37
Gamma	C60°	C65°	C70°	C75°	C80°	C85°	C90°	C95°	C100°	C105°	C110°	C115°
0°	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57
1°	17764.51	17784.21	17752.22	17735.76	17747.98	17747.19	17738.46	17822.94	17776.55	17763.52	17768.46	17768.57
2°	15851.04	15896.73	15874.02	15892.66	15921.49	15950.02	15971.69	16084.16	16052.68	16062.71	16090.02	16111.33
3°	14083.00	14148.34	14139.98	14185.64	14229.55	14277.75	14326.44	14429.10	14428.95	14454.16	14492.62	14532.17
4°	12432.91	12499.18	12523.66	12586.60	12646.43	12702.89	12768.34	12849.96	12879.88	12914.46	12957.54	13001.38
5°	10836.95	10893.37	10955.12	11022.07	11088.65	11151.90	11213.02	11264.14	11314.69	11362.72	11409.20	11451.56
6°	8636.49	8701.69	8703.66	8735.43	8760.60	8788.41	8806.88	8843.23	8890.97	8872.35	8887.99	8902.23
7°	6798.45	6858.73	6831.61	6840.56	6843.93	6853.05	6846.89	6880.66	6904.91	6869.13	6865.91	6866.52
8°	5292.03	5338.53	5307.00	5300.40	5292.57	5284.62	5268.80	5297.36	5304.31	5271.44	5260.45	5253.44
9°	4058.32	4094.76	4066.87	4050.82	4032.34	4015.13	3997.56	4012.15	4016.61	3986.36	3977.18	3969.96
10°	3012.62	3022.16	3015.02	2997.14	2972.08	2948.70	2932.48	2923.07	2917.51	2913.35	2910.11	2903.98
11°	2155.73	2165.32	2157.51	2144.90	2126.28	2106.49	2094.12	2087.30	2075.41	2074.85	2074.23	2072.99
12°	1504.88	1511.93	1501.81	1493.67	1482.73	1465.88	1458.33	1452.25	1440.55	1440.18	1438.50	1438.38
13°	1074.96	1080.12	1072.13	1067.02	1061.93	1052.03	1049.37	1045.04	1041.29	1034.15	1030.89	1029.81
14°	793.27	794.74	792.85	790.81	787.73	784.25	784.59	781.62	779.92	775.36	774.44	772.80
15°	590.17	591.21	591.63	590.59	589.55	589.49	589.76	589.16	587.78	586.47	585.67	585.64
16°	449.02	445.73	447.46	448.12	447.79	448.03	447.74	453.10	450.62	452.61	452.34	455.98
17°	348.55	342.36	346.72	348.18	348.19	349.66	348.14	355.35	352.67	357.29	357.85	362.03
18°	281.51	276.53	279.36	283.47	282.92	285.51	283.92	290.61	287.24	293.93	295.88	298.97
19°	233.88	231.85	232.20	235.80	236.09	238.21	236.82	241.24	239.83	244.22	246.48	247.19

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20°	196.64	195.85	195.44	195.75	196.60	197.95	199.70	201.55	203.26	204.73	205.84	206.66
21°	164.33	160.67	166.28	162.31	163.11	164.89	167.44	166.61	167.89	168.97	169.11	170.69
22°	134.53	132.13	139.77	131.88	133.17	134.09	140.19	138.01	138.94	139.11	140.06	141.78
23°	113.21	117.19	118.13	111.54	113.09	111.62	116.38	120.21	122.36	116.32	115.78	117.25
24°	99.23	103.44	102.96	99.17	100.73	98.75	103.01	106.71	108.33	102.24	102.10	102.65
25°	89.06	89.00	88.97	89.12	89.34	89.81	90.37	90.89	91.54	92.17	92.50	92.61
26°	78.34	79.39	74.25	74.83	74.02	76.51	77.17	78.87	79.10	84.22	85.95	85.36
27°	67.33	74.91	63.03	63.44	63.24	64.56	64.83	73.74	73.78	75.44	76.98	76.35
28°	59.12	67.50	58.99	58.69	59.77	58.51	60.38	71.09	70.78	66.26	68.12	67.48
29°	53.47	58.47	55.01	54.89	55.73	54.83	56.24	61.43	61.84	57.71	59.29	58.53
30°	51.79	51.81	51.85	51.77	51.73	52.02	52.30	52.69	53.00	53.24	53.34	53.31
31°	50.24	46.89	48.68	48.42	49.01	49.40	48.36	46.23	46.17	49.37	48.76	49.57
32°	48.56	43.07	45.05	46.31	46.61	46.33	45.40	43.68	43.47	45.94	45.64	46.39
33°	45.70	40.37	41.40	43.42	43.10	43.37	42.58	41.34	40.68	43.06	42.90	42.76
34°	41.59	37.81	38.54	39.87	39.37	39.60	39.31	39.08	37.59	40.13	39.97	39.70
35°	36.07	35.92	35.84	35.73	35.73	35.60	35.64	35.84	36.06	36.13	36.24	36.24
36°	31.46	32.59	32.35	33.66	33.28	33.51	32.77	32.43	33.71	32.83	33.36	33.56
37°	27.88	30.33	28.40	31.20	29.65	29.77	28.44	29.76	30.08	29.88	30.92	31.13
38°	26.29	28.16	25.83	28.01	26.57	25.87	24.83	28.08	26.55	28.51	29.52	29.52
39°	25.64	26.40	25.60	25.70	24.80	23.74	23.80	26.26	25.32	26.84	27.95	27.36
40°	25.11	24.89	25.00	24.87	24.76	24.55	24.40	24.45	24.62	24.72	24.87	24.84
41°	24.18	24.23	23.70	24.13	23.72	23.63	23.54	23.49	24.04	22.51	23.21	23.71
42°	23.35	23.68	22.90	23.40	22.87	22.48	22.64	23.09	23.31	21.52	22.71	23.13
43°	22.69	22.94	22.14	22.60	22.23	21.61	21.91	22.58	22.47	21.53	22.52	22.41
44°	21.95	22.13	21.68	21.84	21.61	21.25	21.14	21.74	21.72	21.58	21.54	21.74
45°	21.28	21.28	21.26	21.22	21.12	20.85	20.69	20.80	20.97	21.14	21.21	21.18
46°	20.43	20.39	20.42	20.39	20.16	20.01	20.10	19.51	19.78	19.62	20.57	20.05
47°	19.82	19.46	19.60	19.53	19.23	19.34	19.32	18.58	19.15	18.73	19.80	19.15
48°	18.96	18.58	19.00	18.77	18.47	18.65	18.53	17.96	18.60	18.11	18.83	18.60
49°	18.24	17.97	18.32	18.27	17.90	18.08	17.92	17.82	18.22	17.60	17.99	17.81
50°	17.60	17.44	17.41	17.49	17.53	17.46	17.35	17.39	17.39	17.39	17.19	17.15
51°	17.12	17.06	16.81	16.96	17.19	17.14	16.97	17.17	17.06	16.93	16.88	16.37
52°	16.42	16.27	16.34	16.38	16.78	16.82	16.77	16.80	16.75	16.49	16.46	15.87
53°	15.92	15.93	15.93	16.04	16.23	16.66	16.60	16.40	16.11	15.76	15.90	15.59
54°	15.65	15.58	15.59	15.75	16.02	16.48	16.44	16.20	15.37	15.43	15.15	15.37
55°	15.34	15.24	15.28	15.47	15.83	16.21	16.30	16.11	15.33	14.94	14.76	14.89
56°	14.72	14.75	14.68	14.84	15.19	15.62	15.73	15.55	14.92	14.34	13.84	13.95
57°	14.23	14.20	14.00	14.33	14.57	15.22	15.11	14.97	14.05	13.68	13.27	13.34
58°	13.75	13.50	13.33	13.81	14.08	14.77	14.44	14.55	13.48	13.26	12.96	12.81
59°	12.95	12.75	12.84	13.37	13.68	14.28	13.95	13.72	13.24	12.85	12.54	12.40
60°	12.32	12.39	12.55	12.86	13.28	13.69	13.58	13.10	12.60	12.22	12.12	12.20
61°	11.40	11.55	11.42	11.84	12.33	12.73	12.73	12.51	11.89	10.99	11.04	11.49
62°	10.70	11.10	10.34	10.96	11.60	11.86	11.81	11.94	11.17	10.42	10.33	10.60
63°	9.98	10.23	9.60	10.33	10.87	10.95	11.03	10.78	10.65	10.03	9.56	9.68
64°	9.12	9.54	9.31	9.74	10.31	10.27	10.32	10.07	9.90	9.36	9.22	8.99
65°	8.59	8.64	8.78	9.13	9.59	9.62	9.50	9.29	9.07	8.80	8.60	8.65
66°	7.91	8.32	8.12	8.43	8.86	8.97	8.59	8.67	8.39	8.00	8.11	8.20
67°	7.52	7.71	7.52	7.73	8.07	8.42	8.09	7.58	7.95	7.26	7.53	7.69
68°	6.94	6.90	7.15	7.01	7.32	7.75	7.65	7.23	7.25	6.59	6.92	6.91
69°	6.30	6.27	6.58	6.52	6.63	6.94	7.03	6.80	6.22	6.27	6.33	6.21
70°	5.77	5.79	5.85	6.03	6.14	6.35	6.37	6.28	6.07	5.94	5.87	5.86
71°	5.17	5.19	5.09	5.20	5.51	5.96	5.68	5.56	5.77	5.40	5.18	5.40
72°	4.76	4.45	4.69	4.71	4.91	5.40	5.15	5.00	5.40	4.92	4.68	5.06
73°	4.33	3.97	4.29	4.33	4.47	4.84	4.67	4.86	4.67	4.54	4.33	4.63
74°	4.00	3.75	3.91	3.94	4.09	4.21	4.33	4.54	4.42	4.16	4.08	4.20
75°	3.71	3.72	3.61	3.66	3.79	3.89	4.01	4.10	4.03	3.87	3.81	3.83
76°	3.30	3.55	3.26	3.36	3.34	3.52	3.61	3.25	3.54	3.46	3.36	3.42

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77°	2.94	3.21	2.96	3.00	3.01	3.26	3.29	2.76	3.04	3.19	3.03	3.18
78°	2.64	2.93	2.78	2.59	2.76	2.94	2.93	2.66	2.72	2.86	2.82	2.90
79°	2.43	2.63	2.58	2.45	2.58	2.63	2.69	2.56	2.60	2.59	2.63	2.61
80°	2.25	2.26	2.35	2.33	2.38	2.44	2.43	2.48	2.50	2.36	2.38	2.38
81°	2.20	2.16	2.19	2.31	2.32	2.39	2.33	2.42	2.41	2.35	2.38	2.35
82°	2.15	2.25	2.15	2.20	2.27	2.37	2.21	2.56	2.30	2.30	2.37	2.38
83°	2.17	2.23	2.22	2.21	2.25	2.29	2.28	2.36	2.35	2.33	2.29	2.37
84°	2.15	2.20	2.34	2.26	2.25	2.28	2.33	2.30	2.39	2.30	2.27	2.38
85°	2.15	2.22	2.22	2.21	2.27	2.25	2.25	2.25	2.25	2.25	2.25	2.31
86°	2.31	2.62	2.22	2.29	2.46	2.39	2.34	2.54	2.24	2.36	2.53	2.39
87°	2.49	2.68	2.31	2.45	2.60	2.58	2.55	2.52	2.42	2.63	2.75	2.55
88°	2.65	2.78	2.57	2.68	2.76	2.81	2.79	2.75	2.63	2.91	2.94	2.83
89°	2.93	2.91	2.89	2.96	3.01	3.12	3.03	2.98	2.92	3.19	2.99	3.14
90°	3.30	3.36	3.34	3.36	3.40	3.42	3.40	3.40	3.40	3.40	3.37	3.39
Gamma	C120°	C125°	C130°	C135°	C140°	C145°	C150°	C155°	C160°	C165°	C170°	C175°
0°	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57
1°	17776.13	17766.43	17763.89	17752.99	17733.19	17734.27	17720.11	17661.44	17621.71	17584.04	17577.47	17527.47
2°	16135.57	16147.40	16157.03	16170.95	16130.15	16158.57	16141.96	16046.38	15987.94	15929.58	15935.63	15852.09
3°	14560.98	14589.09	14605.74	14645.22	14592.49	14634.01	14593.28	14485.31	14417.86	14349.37	14347.16	14243.20
4°	13037.00	13073.81	13092.06	13147.73	13101.18	13121.53	13064.67	12976.61	12906.65	12834.43	12798.01	12701.35
5°	11489.87	11526.08	11549.90	11561.28	11555.22	11533.63	11496.70	11450.26	11383.02	11311.19	11236.86	11168.58
6°	8919.99	8938.98	8963.42	9012.38	8984.18	9025.13	9009.22	8956.18	8928.53	8889.97	8890.64	8838.09
7°	6872.75	6883.13	6907.37	6972.09	6934.89	7002.34	6997.61	6935.84	6931.27	6908.43	6941.39	6906.12
8°	5255.61	5260.63	5282.71	5354.18	5318.76	5381.72	5378.13	5323.19	5322.81	5306.34	5344.04	5311.79
9°	3968.65	3970.02	3990.92	4040.82	4022.32	4067.08	4062.75	4025.37	4023.41	4010.90	4033.38	4004.08
10°	2901.79	2906.79	2919.98	2934.35	2947.32	2953.11	2951.98	2945.96	2938.91	2929.45	2915.98	2896.57
11°	2074.48	2085.71	2094.56	2103.27	2110.99	2118.00	2108.65	2098.87	2085.40	2069.86	2048.16	2032.44
12°	1439.73	1451.53	1457.46	1463.65	1469.17	1471.46	1463.23	1453.58	1441.01	1425.28	1403.93	1390.27
13°	1031.16	1038.25	1040.33	1049.40	1050.37	1052.82	1045.88	1035.30	1027.66	1014.66	1004.23	990.23
14°	773.31	776.87	777.00	781.97	781.73	779.26	775.73	767.68	762.74	754.61	746.29	738.00
15°	586.85	588.62	590.09	590.41	590.06	589.04	584.84	579.65	573.71	567.72	562.81	557.39
16°	456.19	457.54	459.71	453.96	456.21	453.04	450.22	449.74	444.92	441.55	433.23	430.32
17°	362.17	363.10	363.38	356.54	361.25	356.47	352.45	358.30	353.37	351.30	341.54	338.83
18°	298.89	297.89	299.08	291.39	294.90	290.55	286.53	290.85	287.84	286.47	278.03	277.24
19°	247.60	247.23	247.59	243.70	244.78	242.31	238.97	239.73	236.43	235.03	232.61	231.53
20°	207.01	207.08	206.57	205.78	204.33	203.09	201.94	200.79	199.77	198.69	197.43	196.61
21°	169.65	170.39	169.18	169.50	169.20	163.82	166.83	168.27	167.62	167.31	162.14	160.48
22°	140.58	140.81	139.36	138.29	139.53	134.71	137.00	140.60	138.56	139.14	132.56	130.76
23°	117.53	117.22	115.33	120.60	116.74	120.60	118.93	117.13	114.56	113.51	117.11	111.99
24°	103.87	102.22	101.68	106.30	103.06	107.93	105.95	102.38	100.89	99.42	104.54	102.06
25°	92.53	92.23	92.24	92.37	92.42	92.39	92.39	92.09	91.50	90.67	89.95	89.68
26°	84.28	84.04	84.55	79.34	81.24	80.34	80.35	84.11	82.34	83.46	78.62	76.49
27°	75.60	75.20	76.45	74.10	70.11	76.73	73.28	74.88	72.78	74.70	74.50	66.21
28°	67.22	66.25	67.71	69.46	62.64	69.51	70.27	67.39	66.72	67.07	67.67	61.88
29°	58.38	58.50	59.16	60.23	56.54	60.07	60.98	59.11	59.03	58.08	58.11	56.97
30°	53.21	53.09	52.87	52.69	52.63	52.70	52.73	52.70	52.42	52.03	51.71	51.50
31°	49.34	49.06	48.57	47.54	49.59	47.96	46.30	46.66	45.72	46.42	47.61	45.65
32°	46.64	46.44	45.61	45.00	47.49	44.27	43.71	42.95	42.89	43.01	43.71	41.14
33°	43.88	43.90	43.57	41.69	44.13	41.02	40.55	40.08	41.27	40.04	40.72	39.03
34°	40.79	40.35	40.41	38.69	40.79	38.78	38.12	37.89	38.69	37.79	37.82	37.38
35°	36.35	36.34	36.19	36.06	36.16	36.27	36.26	36.00	35.69	35.35	35.24	35.05
36°	32.47	33.64	33.24	34.41	34.37	34.59	34.20	35.53	34.60	33.98	32.87	32.68
37°	29.59	31.16	31.23	31.26	31.30	31.72	31.31	33.23	32.89	31.43	30.78	30.10
38°	28.65	28.84	29.16	27.32	28.56	28.85	28.33	29.53	29.74	28.39	27.91	27.20
39°	27.35	26.74	27.33	25.11	25.53	26.35	26.10	26.26	26.53	26.07	25.38	24.82
40°	24.94	25.02	25.03	24.85	24.84	24.84	24.76	24.70	24.48	24.27	24.02	23.84
41°	22.82	23.19	24.06	24.17	23.93	24.06	23.78	23.31	23.16	22.52	23.17	22.94

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42°	21.81	22.21	23.19	23.52	22.91	23.59	23.11	22.01	22.43	21.33	22.78	22.16
43°	21.51	21.45	22.41	22.82	21.94	22.93	22.26	21.03	21.63	20.53	22.03	21.32
44°	21.41	21.49	21.48	21.71	21.28	21.73	21.58	20.81	20.93	20.25	21.27	20.48
45°	21.18	21.18	21.09	20.93	20.84	20.94	20.85	20.68	20.53	20.34	20.21	19.89
46°	20.29	20.42	20.26	19.94	20.15	19.99	19.72	19.78	19.50	19.48	18.98	19.39
47°	19.69	19.61	19.61	19.16	19.55	19.33	18.83	18.98	18.69	18.46	17.83	18.70
48°	19.25	18.93	18.99	18.80	18.93	18.87	18.45	18.07	18.26	17.71	17.44	17.66
49°	18.51	18.42	18.39	18.46	18.17	17.89	17.47	17.52	17.50	17.17	16.61	16.98
50°	17.38	17.54	17.50	17.48	17.36	17.24	16.96	16.73	16.58	16.53	16.51	16.52
51°	16.52	17.19	16.85	16.90	16.81	16.44	16.23	16.02	16.26	16.04	16.14	16.36
52°	15.86	16.74	16.43	17.61	16.82	16.52	15.83	15.17	15.62	15.69	16.02	15.77
53°	15.81	16.54	16.08	17.91	16.52	16.38	15.03	15.34	15.05	15.13	15.42	15.43
54°	15.64	15.94	16.05	16.74	16.14	16.03	14.95	14.97	14.51	14.62	15.02	15.22
55°	15.09	15.48	15.72	15.79	15.58	15.06	14.67	14.45	14.30	14.32	14.43	14.83
56°	14.12	14.80	14.87	15.36	14.64	14.76	14.21	13.78	13.29	13.79	13.95	13.91
57°	13.67	14.64	13.78	15.01	13.71	14.82	13.57	13.61	12.62	13.11	13.39	13.16
58°	13.25	14.37	13.44	14.40	13.11	14.42	13.13	13.23	12.41	12.31	13.02	12.67
59°	12.76	13.65	13.05	13.82	13.10	13.02	12.74	12.60	12.02	11.95	12.58	12.41
60°	12.38	12.63	12.85	13.04	12.67	12.27	12.01	11.90	11.75	11.76	11.77	12.05
61°	11.37	11.63	11.88	12.03	11.62	11.85	11.13	10.63	11.04	10.97	10.97	11.31
62°	10.52	11.29	11.18	11.06	10.66	11.65	10.25	9.56	10.41	10.22	10.34	10.79
63°	9.81	10.73	10.31	10.23	10.07	10.47	9.46	8.99	9.69	9.50	9.69	9.89
64°	9.25	9.68	9.48	9.28	9.42	9.65	9.05	8.74	8.98	8.70	8.94	8.96
65°	8.79	8.85	8.81	8.70	8.79	8.70	8.48	8.43	8.27	8.31	8.30	8.11
66°	8.23	8.15	8.07	8.05	7.84	8.31	7.83	7.47	7.35	7.74	7.59	7.26
67°	7.74	7.56	7.43	7.52	7.02	7.85	7.00	6.71	6.87	7.00	7.02	6.43
68°	7.04	6.89	6.76	6.65	6.54	7.58	6.43	6.27	6.37	6.47	6.50	6.04
69°	6.42	6.29	6.07	6.07	6.02	6.64	6.05	5.95	5.85	5.99	5.81	5.69
70°	5.90	5.77	5.72	5.72	5.73	5.71	5.66	5.51	5.51	5.41	5.21	5.23
71°	5.32	5.23	5.33	5.70	5.18	4.98	5.32	4.83	5.05	4.66	4.93	4.55
72°	4.82	4.65	5.14	5.23	4.87	4.77	4.38	4.49	4.57	4.31	4.57	4.08
73°	4.39	4.26	4.77	4.62	4.40	4.51	3.70	4.17	4.04	4.09	4.34	3.54
74°	4.10	3.91	4.36	4.00	4.10	4.19	3.41	3.90	3.70	3.76	3.89	3.30
75°	3.85	3.80	3.91	3.90	3.78	3.73	3.64	3.59	3.49	3.40	3.38	3.28
76°	3.40	3.35	3.38	3.33	3.40	3.38	3.25	3.24	3.20	2.93	2.93	3.09
77°	3.06	2.98	3.12	3.09	3.02	3.01	2.84	2.80	2.83	2.63	2.68	2.63
78°	2.81	2.71	2.89	2.62	2.74	2.75	2.74	2.59	2.48	2.41	2.49	2.29
79°	2.62	2.55	2.68	2.56	2.56	2.40	2.67	2.40	2.27	2.26	2.19	2.14
80°	2.38	2.36	2.41	2.43	2.41	2.36	2.29	2.25	2.18	2.08	2.03	2.00
81°	2.38	2.34	2.33	2.50	2.36	2.36	2.24	2.21	2.22	2.10	2.07	1.86
82°	2.29	2.30	2.32	2.43	2.37	2.50	2.25	2.24	2.23	2.10	2.22	1.80
83°	2.25	2.26	2.29	2.30	2.37	2.48	2.23	2.21	2.20	2.13	2.33	1.83
84°	2.24	2.27	2.27	2.31	2.37	2.37	2.16	2.25	2.19	2.14	2.31	2.06
85°	2.31	2.31	2.24	2.30	2.30	2.30	2.25	2.27	2.23	2.18	2.19	2.13
86°	2.49	2.40	2.34	2.52	2.46	2.44	2.38	2.47	2.51	2.34	2.28	2.20
87°	2.66	2.58	2.47	2.72	2.66	2.58	2.49	2.58	2.68	2.55	2.42	2.28
88°	2.85	2.83	2.74	2.93	2.95	2.69	2.68	2.81	2.77	2.76	2.59	2.55
89°	3.08	3.19	3.15	3.26	3.25	2.94	2.98	3.05	2.99	3.04	2.76	3.11
90°	3.39	3.39	3.39	3.43	3.43	3.37	3.42	3.42	3.48	3.42	3.40	3.46
Gamma	C180°	C185°	C190°	C195°	C200°	C205°	C210°	C215°	C220°	C225°	C230°	C235°
0°	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57
1°	17506.98	17410.01	17408.33	17370.91	17275.77	17219.56	17191.16	17178.70	17127.77	17092.57	17053.04	17018.30
2°	15836.66	15691.01	15669.89	15606.10	15504.60	15446.53	15390.38	15360.15	15291.28	15253.26	15166.09	15155.49
3°	14221.75	14083.15	14030.23	13948.26	13848.65	13798.18	13722.35	13675.45	13596.32	13547.29	13430.08	13426.74
4°	12660.39	12549.91	12479.46	12389.41	12303.60	12238.08	12153.22	12088.70	12020.89	11950.41	11818.76	11778.98
5°	11096.66	11022.02	10934.50	10847.74	10762.30	10684.45	10599.34	10518.51	10439.47	10354.45	10258.49	10161.60
6°	8811.81	8722.99	8654.00	8570.98	8504.04	8404.49	8321.66	8245.05	8195.49	8116.35	7980.69	7929.63

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7°	6892.25	6801.94	6758.55	6680.32	6617.16	6510.93	6440.84	6379.28	6347.33	6283.14	6140.89	6113.41
8°	5308.24	5222.85	5191.69	5122.64	5068.99	4973.11	4920.25	4872.61	4850.36	4796.38	4670.79	4641.56
9°	3996.29	3928.92	3895.42	3839.50	3795.36	3728.78	3693.81	3657.32	3627.13	3580.67	3491.90	3456.42
10°	2867.75	2827.05	2784.01	2744.32	2707.63	2677.02	2652.99	2623.82	2587.63	2544.34	2497.94	2453.46
11°	1997.71	1968.92	1940.79	1912.83	1892.34	1880.30	1863.21	1841.13	1814.67	1786.46	1752.72	1726.11
12°	1362.68	1345.16	1326.61	1309.14	1295.61	1295.59	1282.40	1265.03	1244.33	1229.31	1208.37	1196.62
13°	976.14	964.24	955.03	943.83	932.92	933.31	924.57	911.20	897.02	887.22	871.75	868.29
14°	731.78	725.38	717.89	710.59	704.65	702.70	696.83	685.00	675.23	667.40	655.49	648.29
15°	552.36	548.23	543.87	539.62	537.01	533.57	529.20	522.77	515.40	507.79	499.87	492.98
16°	426.71	423.99	422.62	419.20	415.77	416.38	412.76	409.96	398.95	394.49	392.08	387.84
17°	336.89	338.13	336.76	334.75	330.95	333.58	329.31	328.90	319.57	313.82	315.21	312.42
18°	276.20	279.48	278.37	277.53	274.67	277.23	272.48	269.85	263.68	260.46	261.63	257.19
19°	231.20	234.52	232.98	234.16	232.25	231.35	227.78	224.94	221.40	219.97	219.44	213.65
20°	196.63	196.80	196.93	196.45	195.18	193.12	191.16	189.10	187.05	184.85	182.41	180.20
21°	162.51	161.89	161.93	160.49	158.70	159.92	158.76	157.61	153.39	149.88	149.39	150.23
22°	139.33	131.73	135.33	132.90	130.93	133.23	130.36	128.55	130.18	129.71	121.00	127.53
23°	119.86	114.08	119.78	118.18	117.86	114.87	110.13	108.29	116.17	115.82	104.67	110.86
24°	103.85	102.12	105.39	105.12	104.15	100.44	97.10	96.01	102.59	100.60	92.52	97.63
25°	89.42	89.30	89.13	88.82	88.31	87.76	87.16	86.45	85.57	84.88	84.22	83.85
26°	81.57	71.38	78.55	74.96	77.72	71.26	72.22	72.08	77.09	80.29	76.14	68.84
27°	70.09	59.79	73.61	70.16	74.00	60.43	59.00	59.28	74.48	74.98	69.51	58.58
28°	59.50	54.66	68.37	64.89	66.21	55.59	53.02	53.24	65.73	64.14	60.80	53.61
29°	54.62	53.83	58.89	57.06	57.09	53.43	51.63	51.29	56.12	54.04	52.85	51.82
30°	51.41	51.45	51.42	51.30	51.12	50.98	50.64	50.22	49.74	49.40	49.21	49.15
31°	46.67	49.81	44.40	47.73	46.47	50.34	51.59	49.83	47.29	46.06	46.49	46.08
32°	41.55	46.24	40.17	44.22	43.02	46.87	49.22	48.45	43.53	42.38	43.43	40.56
33°	37.25	42.70	37.93	40.95	40.92	40.15	44.70	44.19	40.25	38.26	40.20	36.53
34°	35.48	39.01	36.59	37.76	38.63	36.50	38.70	38.85	36.98	35.68	36.97	35.79
35°	34.93	34.90	34.93	34.80	34.76	34.76	34.67	34.46	34.16	33.87	33.81	33.98
36°	31.68	29.99	31.67	32.29	31.18	30.88	29.25	30.37	31.24	31.90	32.40	29.64
37°	29.59	28.38	28.61	29.90	29.23	27.76	27.68	26.78	29.05	27.90	29.92	27.45
38°	27.70	26.95	26.23	26.97	27.32	26.53	26.08	24.92	26.71	24.75	26.15	26.07
39°	25.58	25.14	24.90	24.82	25.11	24.94	24.69	24.55	24.78	23.41	23.29	24.42
40°	23.57	23.64	23.68	23.71	23.77	23.77	23.78	23.70	23.51	23.36	23.34	23.44
41°	22.92	22.52	22.45	22.72	22.78	22.99	23.36	22.57	23.01	22.61	23.47	22.85
42°	22.31	21.71	21.51	22.24	21.82	22.79	22.37	21.89	22.30	21.75	22.61	22.14
43°	21.02	21.11	20.72	21.30	20.87	21.83	21.47	21.25	21.47	21.03	21.36	20.81
44°	20.70	20.72	20.10	20.41	20.25	20.79	20.66	20.60	20.45	20.25	20.49	20.12
45°	19.67	19.76	19.88	19.88	19.94	19.96	19.93	19.95	19.68	19.60	19.65	19.68
46°	18.48	19.05	18.48	19.00	19.13	19.63	18.98	19.25	18.53	18.24	18.72	18.99
47°	16.80	18.36	17.10	17.91	18.18	19.14	18.05	18.61	17.52	18.03	18.39	18.39
48°	16.29	17.93	16.48	17.31	17.18	18.37	17.19	17.84	17.08	17.46	17.81	17.89
49°	16.21	17.44	16.73	16.99	16.32	17.31	16.98	17.11	17.12	16.85	17.15	17.46
50°	16.48	16.45	16.35	16.29	16.20	16.20	16.36	16.47	16.46	16.47	16.53	16.47
51°	17.21	15.83	15.99	16.01	16.38	15.51	15.67	16.08	15.49	17.06	16.67	16.45
52°	16.56	15.60	15.52	16.21	16.13	14.87	15.02	15.66	15.35	16.85	16.20	16.05
53°	15.50	15.62	14.90	15.96	15.57	14.65	14.91	15.20	15.59	15.83	15.63	15.36
54°	15.28	15.41	14.41	14.73	14.81	14.57	14.68	14.84	15.31	15.33	15.16	15.03
55°	15.07	14.96	14.23	14.01	14.02	14.10	14.31	14.57	14.83	15.04	14.98	14.64
56°	13.53	14.04	13.78	13.75	13.47	14.05	13.56	13.96	13.67	15.18	14.25	14.26
57°	12.18	13.69	13.28	13.01	13.11	14.13	13.03	13.40	12.78	14.50	14.20	13.49
58°	11.80	13.45	13.19	11.86	12.52	13.39	12.28	12.95	12.53	13.77	13.70	13.17
59°	11.86	13.10	12.37	11.44	12.02	11.85	11.98	12.41	12.76	12.68	12.92	12.36
60°	12.13	11.85	11.55	11.43	11.50	11.51	11.64	11.86	12.19	12.25	12.11	11.78
61°	11.02	11.62	10.88	10.67	10.75	11.73	10.87	11.07	10.82	11.43	11.21	10.74
62°	9.84	10.50	10.49	9.85	9.86	11.18	10.03	10.45	10.35	11.10	10.30	9.90
63°	8.67	8.62	9.60	9.13	9.12	9.65	9.33	9.64	9.67	10.31	9.36	9.11

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64°	8.29	7.40	8.79	8.43	8.42	8.56	8.70	8.97	9.00	9.62	8.72	8.70
65°	8.02	8.11	8.13	8.09	8.05	8.17	8.11	8.31	8.38	8.27	8.26	8.12
66°	7.39	7.62	7.56	7.56	7.76	7.68	7.35	7.61	8.11	7.58	7.54	7.54
67°	6.58	6.45	6.92	7.05	7.26	7.24	6.66	6.91	7.16	6.65	6.79	6.71
68°	6.22	5.63	6.19	6.29	6.46	6.48	6.07	6.48	6.17	6.26	6.28	6.02
69°	5.74	5.68	5.51	5.62	5.78	5.81	5.70	5.95	5.65	5.59	5.85	5.30
70°	5.29	5.23	5.11	5.24	5.30	5.35	5.38	5.38	5.38	5.39	5.32	5.22
71°	4.46	4.70	4.63	4.89	4.67	4.84	4.91	4.92	4.95	5.32	4.71	4.97
72°	3.93	4.16	4.31	4.62	4.21	4.46	4.50	4.67	4.32	4.90	4.40	4.70
73°	3.57	3.89	3.92	3.98	3.98	4.27	4.14	4.30	3.75	4.49	4.27	4.38
74°	3.43	3.55	3.59	3.71	3.67	3.91	3.73	3.89	3.67	3.93	3.88	3.90
75°	3.20	3.26	3.28	3.41	3.45	3.49	3.49	3.56	3.60	3.64	3.60	3.49
76°	2.84	2.77	3.05	3.15	3.17	3.09	3.11	3.20	3.14	3.04	3.25	2.91
77°	2.50	2.45	2.67	2.70	2.92	2.88	2.86	2.91	2.67	2.85	2.98	2.73
78°	2.24	2.24	2.25	2.53	2.56	2.70	2.57	2.63	2.50	2.53	2.69	2.61
79°	2.09	2.06	2.00	2.22	2.32	2.40	2.40	2.41	2.37	2.38	2.46	2.38
80°	1.96	1.95	1.95	2.05	2.11	2.15	2.18	2.23	2.26	2.31	2.23	2.19
81°	1.97	1.97	2.01	2.10	2.09	2.15	2.14	2.21	2.14	2.53	2.13	2.16
82°	2.07	1.97	1.91	2.17	2.20	2.20	2.07	2.13	2.09	2.42	2.08	2.08
83°	2.11	2.10	1.88	1.99	2.32	2.14	2.12	2.13	2.04	2.28	2.11	2.09
84°	2.16	2.20	1.95	1.97	2.26	2.08	2.21	2.13	2.17	2.13	2.19	2.17
85°	2.13	2.12	2.12	2.12	2.14	2.18	2.23	2.18	2.23	2.18	2.16	2.15
86°	2.40	2.15	2.24	2.34	2.29	2.52	2.40	2.39	2.32	2.41	2.31	2.14
87°	2.60	2.25	2.28	2.45	2.61	2.70	2.60	2.63	2.23	2.58	2.54	2.35
88°	2.84	2.52	2.46	2.69	2.83	2.81	2.77	2.84	2.42	2.60	2.78	2.71
89°	3.05	2.88	2.90	3.01	3.11	2.88	2.93	3.07	2.94	2.53	2.87	3.09
90°	3.39	3.40	3.40	3.42	3.34	3.33	3.34	3.36	3.28	3.27	3.22	3.24
Gamma	C240°	C245°	C250°	C255°	C260°	C265°	C270°	C275°	C280°	C285°	C290°	C295°
0°	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57
1°	16936.22	16983.68	16875.99	16809.64	16764.59	16748.34	16613.34	16561.07	16565.84	16507.16	16533.83	16464.03
2°	15034.14	15037.11	14931.48	14809.43	14746.07	14700.10	14551.09	14478.48	14459.61	14382.14	14378.49	14324.56
3°	13298.67	13242.88	13149.26	13005.25	12928.89	12846.08	12719.60	12633.86	12578.63	12500.11	12473.18	12427.73
4°	11677.26	11574.85	11470.82	11356.23	11255.08	11144.73	11043.26	10950.54	10865.14	10793.64	10757.88	10714.75
5°	10060.45	9954.97	9844.59	9731.06	9614.36	9500.53	9400.06	9309.93	9225.03	9157.96	9105.99	9066.96
6°	7883.18	7772.25	7671.19	7613.04	7519.53	7426.25	7349.57	7290.72	7207.17	7155.59	7160.30	7097.63
7°	6095.90	5982.30	5891.67	5857.17	5777.20	5692.92	5630.68	5587.19	5517.99	5478.94	5502.26	5443.92
8°	4628.28	4521.94	4434.87	4410.73	4343.21	4273.59	4218.02	4185.06	4124.93	4106.01	4138.58	4094.14
9°	3421.98	3343.42	3274.71	3235.00	3179.84	3125.02	3082.13	3056.37	3029.73	3029.70	3040.36	3029.09
10°	2407.84	2359.39	2310.69	2267.27	2227.33	2190.11	2161.30	2145.67	2141.68	2146.43	2151.73	2154.08
11°	1687.75	1659.22	1628.13	1590.72	1563.23	1539.77	1524.15	1513.07	1523.01	1523.12	1517.51	1526.03
12°	1170.56	1153.15	1133.70	1108.67	1090.84	1078.27	1071.52	1064.85	1071.68	1070.35	1065.27	1072.24
13°	851.13	839.17	827.28	811.21	797.24	790.82	788.83	783.10	788.19	787.15	780.12	786.59
14°	636.87	628.23	620.59	610.67	603.86	599.25	599.31	594.21	596.66	594.56	589.36	589.53
15°	485.93	479.32	474.22	470.73	467.51	465.27	464.34	462.58	459.89	457.19	453.55	450.18
16°	378.69	376.26	371.30	368.40	364.31	371.05	366.99	364.97	362.54	361.01	358.52	355.83
17°	303.12	301.69	297.83	296.35	290.84	301.32	295.20	295.11	289.81	289.97	288.07	288.45
18°	249.51	249.36	244.22	245.01	242.15	249.37	243.82	245.08	235.42	238.28	239.67	236.61
19°	209.52	208.53	205.69	206.09	206.46	207.81	204.26	205.37	196.97	199.05	202.53	197.84
20°	178.06	176.11	174.78	174.01	173.75	173.23	172.29	171.26	170.37	169.83	169.46	169.04
21°	147.00	146.71	146.90	144.36	142.99	143.48	144.30	143.71	141.84	139.47	140.17	137.63
22°	127.57	129.65	120.91	125.87	124.28	127.71	127.33	128.99	115.31	113.48	124.62	112.86
23°	112.93	115.18	105.47	113.59	110.38	114.60	112.51	114.37	99.28	97.86	110.44	100.17
24°	99.37	100.88	95.17	98.88	96.16	97.44	95.20	97.70	90.62	89.27	93.18	92.01
25°	83.74	83.44	82.99	82.42	81.99	81.37	80.95	80.52	79.95	79.37	78.72	78.28
26°	77.07	68.28	65.96	74.74	78.00	77.09	77.19	73.96	68.09	67.87	75.05	62.77
27°	69.92	59.64	55.25	70.44	73.06	75.28	72.16	68.16	59.23	58.74	70.87	53.98
28°	59.92	56.13	52.28	61.72	62.51	65.00	60.90	60.23	53.27	52.71	60.08	51.60

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29°	52.63	53.40	51.13	53.81	53.06	53.58	51.72	52.96	49.55	49.09	50.59	49.80
30°	49.09	49.03	48.96	48.81	48.57	48.23	47.89	47.66	47.42	47.09	46.71	46.40
31°	44.36	46.54	48.90	44.77	45.68	46.34	45.90	44.31	45.62	45.41	45.65	41.77
32°	41.20	40.74	46.17	41.81	43.06	44.17	43.24	41.28	42.72	43.38	42.50	39.14
33°	38.82	35.45	40.26	39.66	39.48	40.67	39.71	38.65	39.05	39.59	38.69	37.42
34°	36.45	33.11	35.31	37.09	36.23	36.58	36.34	35.23	35.42	35.64	35.21	35.21
35°	33.93	33.72	33.56	33.47	33.30	33.07	32.66	32.49	32.41	32.27	32.16	32.04
36°	31.47	30.77	30.41	29.38	29.80	29.88	28.31	28.93	29.68	30.06	28.94	29.39
37°	28.68	28.79	28.69	26.22	26.46	27.68	25.15	25.49	26.98	27.32	26.09	27.11
38°	25.87	26.62	26.93	24.18	24.42	25.69	23.36	23.19	24.03	24.98	24.37	25.18
39°	24.49	24.94	24.91	23.37	23.64	24.66	22.77	22.56	22.75	22.96	23.45	23.28
40°	23.22	23.11	22.96	22.83	22.74	22.45	22.17	22.15	22.14	22.10	22.07	22.06
41°	22.25	22.34	21.83	22.10	22.01	20.43	21.23	21.40	21.46	21.09	20.44	21.34
42°	21.73	21.76	21.15	21.18	21.46	18.94	20.39	20.80	20.85	20.60	19.03	20.71
43°	21.21	21.20	20.85	20.37	20.73	19.10	19.56	20.18	20.29	19.68	18.79	20.19
44°	20.65	20.25	19.98	19.51	19.72	19.01	18.78	19.11	19.49	19.26	18.72	19.65
45°	19.51	19.41	19.20	19.08	18.85	18.60	18.39	18.40	18.48	18.63	18.68	18.68
46°	18.63	18.54	18.49	18.08	17.20	17.33	17.35	17.45	17.58	17.73	17.66	17.41
47°	17.74	18.05	17.61	17.24	16.03	16.77	16.72	16.57	16.70	16.77	16.99	16.72
48°	17.13	16.91	16.52	16.70	15.92	15.96	16.32	15.75	16.12	16.06	15.95	16.25
49°	16.58	16.28	16.03	16.31	16.22	15.53	16.10	15.18	15.57	15.47	15.06	15.93
50°	16.09	15.77	15.61	15.48	15.45	15.29	15.22	15.14	15.16	15.20	15.04	15.07
51°	15.56	15.86	15.33	15.32	14.47	15.81	14.94	14.84	15.09	14.74	15.40	14.42
52°	14.83	15.00	14.64	15.05	14.30	15.41	14.90	13.98	14.62	14.34	15.44	14.10
53°	14.76	14.26	14.26	14.55	14.48	14.81	14.66	13.36	13.92	13.76	14.79	13.82
54°	14.81	13.82	14.17	13.59	14.14	13.98	14.12	13.65	13.36	13.35	13.92	13.49
55°	14.19	13.83	13.72	13.63	13.67	13.77	13.80	13.64	13.22	13.08	13.07	13.18
56°	13.07	13.87	12.77	13.58	13.54	13.58	13.69	13.14	12.30	12.74	12.62	12.38
57°	12.51	13.30	12.19	13.10	12.85	13.17	13.70	12.31	11.58	12.24	12.21	11.83
58°	11.94	12.11	11.85	11.98	12.22	12.49	13.20	11.45	11.20	11.33	11.76	11.37
59°	11.58	11.61	11.43	11.33	11.41	11.53	12.04	10.70	11.05	10.65	11.33	11.04
60°	11.44	11.22	11.02	11.01	11.08	11.06	10.99	10.72	10.49	10.34	10.40	10.49
61°	10.28	9.98	10.30	10.33	10.08	10.45	10.07	9.90	9.63	9.80	9.74	9.78
62°	9.42	8.61	9.54	9.53	9.48	9.67	9.50	9.13	8.77	9.00	9.14	9.08
63°	8.44	8.00	8.92	8.75	8.76	8.69	8.71	8.41	8.22	8.31	8.66	8.38
64°	8.24	8.05	8.43	7.90	8.37	8.10	8.27	7.72	7.62	7.65	7.73	7.73
65°	8.00	7.77	7.72	7.63	7.63	7.49	7.35	7.28	7.32	7.30	7.25	7.29
66°	7.23	6.89	7.09	7.19	6.72	6.79	6.57	6.70	6.61	6.54	6.80	6.76
67°	6.07	6.29	6.51	6.68	6.10	6.27	5.85	6.09	6.09	6.10	6.08	6.22
68°	5.57	5.87	5.98	5.97	6.02	5.83	5.67	5.31	5.40	5.71	5.54	5.61
69°	5.60	5.73	5.38	5.34	5.55	5.37	5.34	5.14	5.00	5.19	5.18	5.16
70°	5.24	5.15	5.06	4.98	4.81	4.92	4.92	4.83	4.74	4.76	4.80	4.83
71°	4.93	4.48	4.51	4.46	4.40	4.83	4.36	4.52	4.42	4.23	4.20	4.42
72°	4.47	3.86	4.02	4.00	4.24	4.31	3.99	4.06	4.06	3.93	3.82	3.92
73°	3.95	3.78	3.75	3.36	3.84	3.77	3.70	3.87	3.81	3.42	3.60	3.61
74°	3.56	3.39	3.49	3.33	3.43	3.21	3.25	3.56	3.49	3.21	3.26	3.36
75°	3.40	3.34	3.26	3.23	3.23	3.28	3.24	3.24	3.20	3.13	3.12	3.15
76°	3.10	3.18	2.87	3.18	3.00	3.24	3.19	2.78	2.90	2.87	2.84	2.80
77°	2.58	3.02	2.61	2.96	2.59	3.04	2.98	2.64	2.62	2.48	2.54	2.48
78°	2.28	2.55	2.39	2.58	2.30	2.58	2.42	2.50	2.36	2.25	2.36	2.24
79°	2.15	2.34	2.29	2.29	2.13	2.31	2.20	2.40	2.14	2.19	2.23	2.07
80°	2.11	2.11	2.12	2.12	2.12	2.12	2.11	2.12	2.08	2.06	2.00	1.95
81°	2.20	2.04	2.10	2.18	2.26	2.07	2.10	2.03	2.09	1.99	1.89	1.89
82°	2.18	1.93	2.08	2.15	2.21	2.01	1.98	1.92	2.12	2.01	1.95	1.88
83°	2.20	1.99	2.13	2.11	2.04	1.93	1.94	1.96	2.06	2.06	2.10	1.96
84°	2.15	2.04	2.19	2.03	1.93	1.98	2.03	1.99	2.10	2.06	2.07	2.05
85°	2.10	2.10	2.17	2.12	2.08	2.04	2.10	2.03	2.04	2.04	2.00	2.05

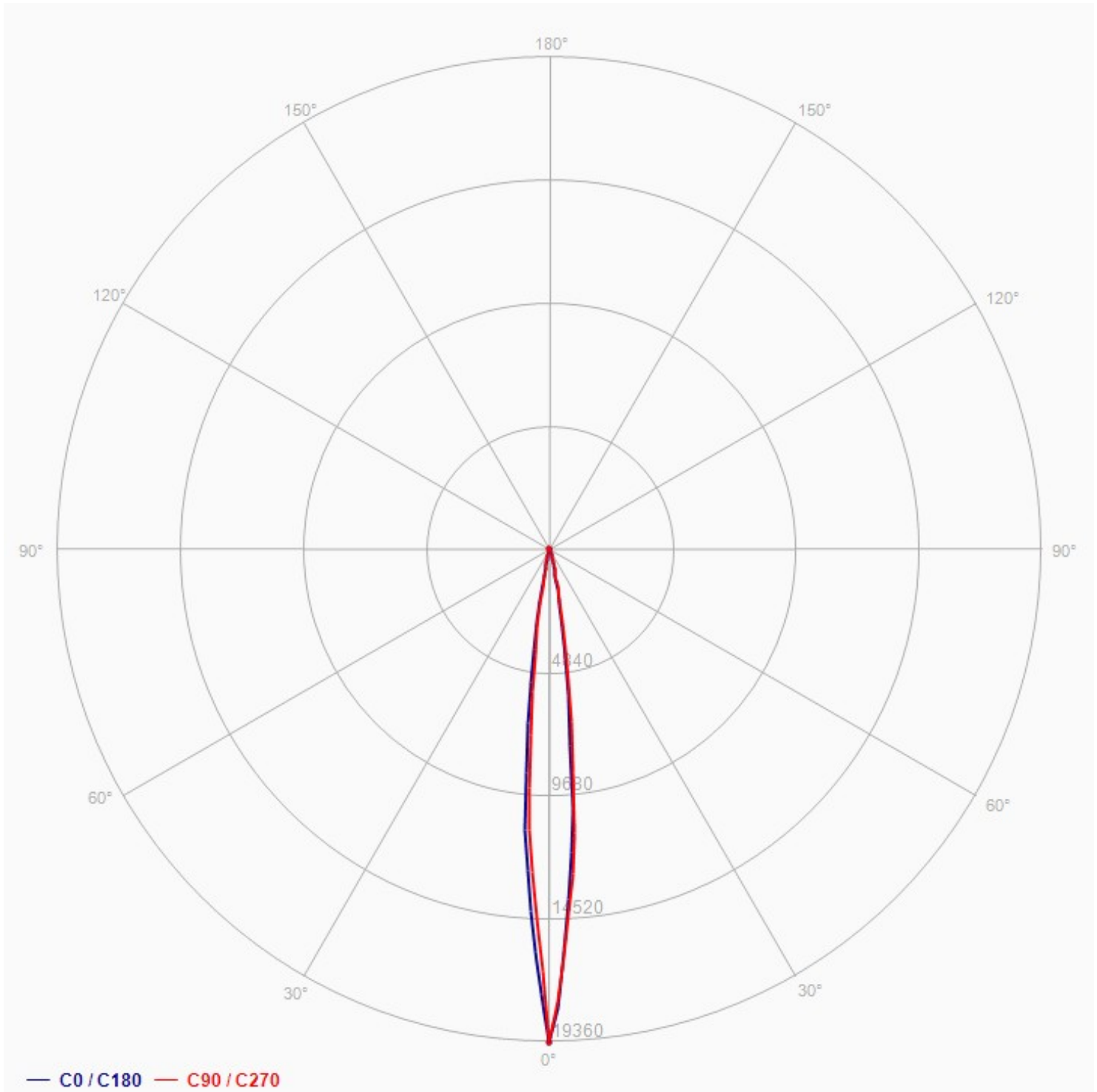
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86°	2.21	2.18	2.29	2.35	2.38	2.18	2.22	2.30	2.15	2.22	1.99	2.12
87°	2.51	2.41	2.42	2.65	2.70	2.10	2.51	2.54	2.34	2.42	2.33	2.26
88°	2.84	2.64	2.64	2.78	2.92	2.37	2.80	2.68	2.59	2.58	2.59	2.52
89°	3.15	2.95	2.87	3.17	3.02	2.84	3.09	2.76	2.81	2.83	2.86	2.86
90°	3.22	3.21	3.16	3.22	3.16	3.16	3.15	3.07	3.09	3.11	3.06	3.03
Gamma	C300°	C305°	C310°	C315°	C320°	C325°	C330°	C335°	C340°	C345°	C350°	C355°
0°	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57	19358.57
1°	16452.38	16451.83	16438.69	16458.53	16481.03	16548.06	16529.94	16603.94	16563.78	16648.09	16738.01	16707.75
2°	14309.32	14312.22	14300.44	14323.16	14359.92	14440.55	14423.13	14533.33	14496.11	14621.24	14747.40	14722.53
3°	12406.19	12406.38	12400.11	12416.58	12453.55	12543.89	12550.76	12654.11	12628.53	12769.51	12894.00	12893.46
4°	10688.37	10679.07	10680.20	10699.38	10734.09	10810.42	10840.78	10928.72	10944.85	11056.84	11167.67	11201.27
5°	9035.79	9024.23	9029.10	9047.19	9079.93	9125.70	9176.96	9237.61	9307.10	9379.69	9450.41	9518.40
6°	7064.77	7051.90	7027.03	7018.32	7017.37	7065.24	7053.25	7100.51	7094.77	7166.43	7253.88	7278.96
7°	5417.41	5406.63	5374.73	5357.51	5340.67	5386.01	5354.39	5384.55	5344.86	5409.02	5488.56	5497.98
8°	4076.27	4070.23	4042.72	4026.89	4006.69	4039.26	4000.94	4018.73	3973.99	4018.02	4081.94	4094.17
9°	3016.95	3012.21	2992.23	2974.47	2951.76	2950.69	2917.65	2917.81	2893.95	2911.59	2945.62	2967.84
10°	2149.25	2140.55	2128.43	2109.80	2086.55	2061.86	2039.85	2025.45	2020.38	2025.44	2036.78	2056.17
11°	1526.55	1522.44	1514.89	1505.26	1485.07	1454.99	1440.14	1428.50	1423.59	1434.85	1438.57	1451.01
12°	1071.37	1069.47	1063.33	1056.09	1039.94	1018.36	1009.27	1004.36	999.62	1010.99	1013.75	1026.73
13°	781.16	779.81	774.79	766.45	756.04	745.69	739.66	737.70	737.78	743.75	745.71	760.16
14°	584.27	581.03	578.24	570.38	565.40	562.97	559.71	558.85	561.96	564.92	567.67	577.70
15°	447.33	444.66	441.68	438.63	436.39	434.93	434.04	435.07	437.09	440.39	444.79	450.83
16°	355.73	352.38	346.87	347.54	346.45	342.01	341.34	343.01	347.63	345.97	354.31	357.50
17°	288.60	286.05	278.08	280.08	280.44	276.71	274.80	274.97	281.90	277.21	284.62	290.19
18°	235.61	235.47	229.28	229.08	231.65	232.86	226.35	228.40	231.76	230.04	233.41	241.64
19°	195.65	196.50	193.15	192.45	194.57	197.16	191.93	193.60	191.88	194.59	195.37	204.34
20°	168.34	167.30	165.74	164.09	162.68	161.71	161.10	160.93	161.26	162.03	163.31	164.87
21°	138.62	137.02	134.42	136.26	132.18	137.98	135.37	137.20	132.89	135.48	140.78	139.78
22°	114.08	113.09	108.85	115.26	111.88	119.40	118.56	119.93	113.40	120.49	117.60	118.09
23°	100.64	98.86	95.41	101.42	99.08	101.62	104.79	104.05	99.38	106.78	101.50	100.38
24°	91.64	89.62	88.38	90.03	88.33	85.08	89.31	88.82	89.91	90.37	87.58	85.02
25°	77.79	77.32	77.05	76.90	76.84	76.79	77.02	76.96	77.03	77.22	77.64	78.19
26°	62.75	64.35	64.13	66.73	67.33	70.43	73.46	69.88	66.18	72.99	65.49	71.34
27°	55.07	56.20	56.66	60.50	59.04	62.85	67.02	61.30	57.28	66.96	57.56	64.91
28°	52.70	52.39	52.24	56.16	54.39	57.10	57.10	55.91	51.13	57.49	54.09	60.24
29°	49.78	49.59	48.85	51.37	50.61	51.70	49.62	51.20	47.45	50.33	50.97	54.96
30°	46.11	45.99	45.74	45.67	45.73	45.99	46.18	46.33	46.44	46.63	46.81	46.97
31°	42.01	42.24	43.95	39.71	40.22	39.77	43.00	39.95	45.48	43.17	40.70	39.45
32°	39.94	37.83	41.77	35.32	36.19	35.63	39.77	35.82	43.86	40.24	35.70	34.78
33°	37.85	34.64	38.06	33.59	34.58	34.41	37.58	34.26	40.94	37.76	33.46	34.30
34°	35.22	32.77	34.82	33.13	33.33	33.20	35.04	33.33	37.38	35.49	32.99	33.60
35°	32.03	32.06	32.06	32.10	32.25	32.41	32.48	32.38	32.36	32.54	32.55	32.65
36°	29.54	29.65	29.92	29.14	29.76	30.42	29.64	29.77	28.57	29.93	29.83	30.21
37°	27.22	27.45	27.37	26.76	27.31	28.13	27.03	27.30	25.44	26.95	27.51	28.08
38°	25.40	25.09	25.33	24.73	25.25	26.09	24.81	25.34	23.80	24.74	26.65	26.13
39°	23.47	23.26	23.55	23.48	23.94	24.39	23.45	23.96	22.93	23.65	25.02	24.26
40°	22.10	22.28	22.35	22.36	22.53	22.61	22.68	22.72	22.79	22.86	22.86	22.74
41°	21.34	21.57	21.98	21.49	20.92	21.71	22.11	22.34	22.00	22.22	22.70	22.52
42°	20.84	21.02	21.59	20.55	19.67	20.88	21.56	21.55	21.37	21.84	22.07	21.84
43°	19.80	20.62	20.88	19.98	19.39	20.63	21.10	20.88	20.60	21.33	20.62	21.10
44°	19.05	20.05	19.52	19.49	19.44	19.82	20.02	20.09	19.94	20.23	19.56	20.36
45°	18.68	18.71	18.75	18.79	18.88	19.07	19.15	19.28	19.37	19.49	19.57	19.55
46°	18.58	17.71	18.22	18.35	17.97	18.47	18.29	18.40	18.72	18.85	19.30	18.72
47°	17.85	16.99	17.76	17.83	16.27	17.72	17.36	18.09	17.87	18.10	18.27	17.69
48°	16.55	16.69	17.08	17.10	15.77	16.26	16.33	17.75	16.96	17.26	16.22	16.75
49°	15.49	16.26	16.27	16.28	15.69	15.33	16.09	16.82	16.29	16.65	15.70	16.66
50°	15.23	15.37	15.47	15.61	15.65	15.67	15.72	15.70	15.80	16.06	16.32	16.61

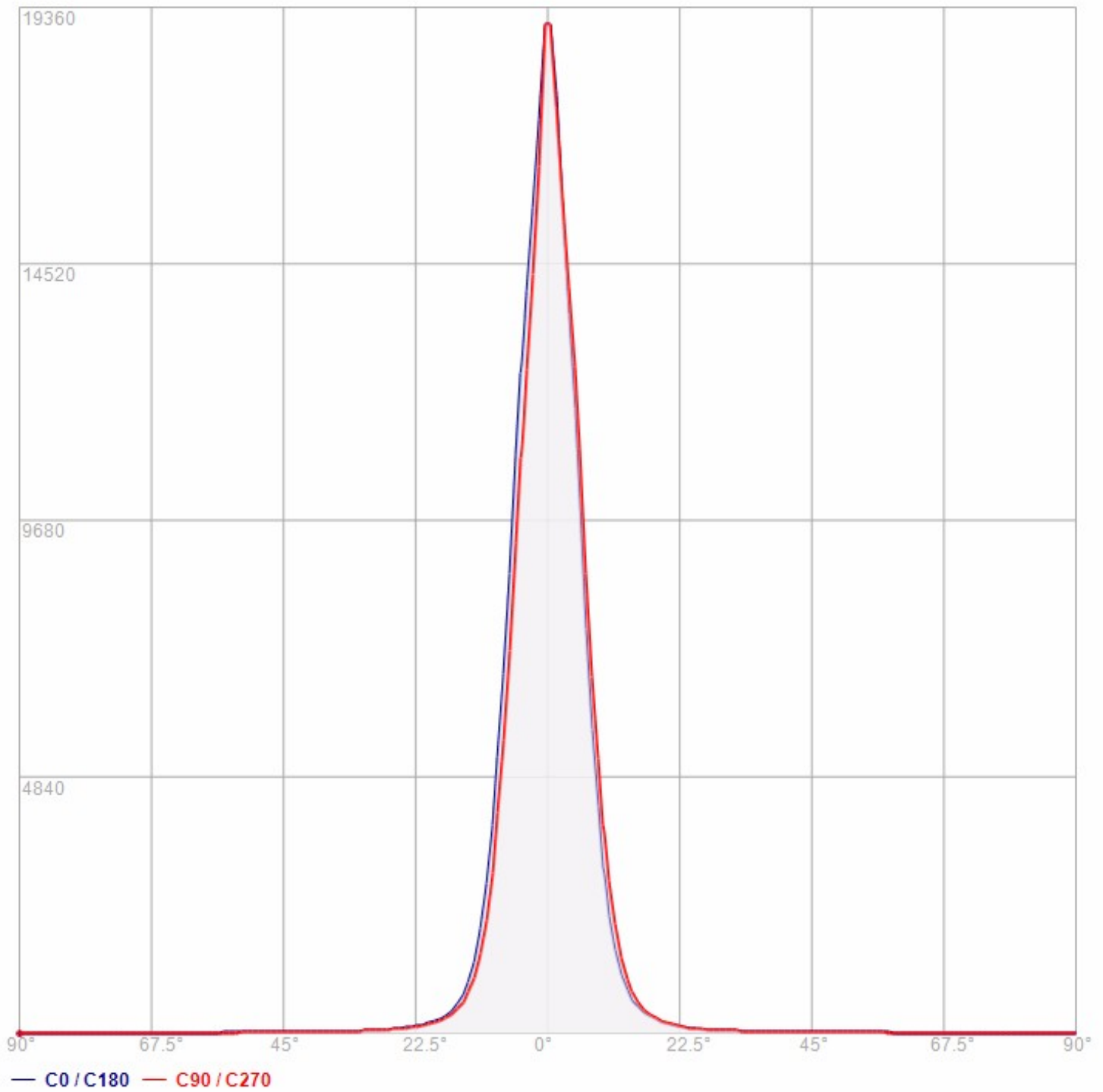
PHOTOMETRIC MEASUREMENT REPORT N° 004

51°	15.28	14.72	15.24	15.65	14.93	16.56	15.49	15.17	15.41	15.32	15.40	15.32
52°	14.89	14.40	15.29	15.56	14.39	16.25	15.62	14.56	14.85	14.54	14.34	13.45
53°	14.13	14.23	14.81	15.03	14.08	14.33	15.48	14.19	14.43	14.19	14.14	13.26
54°	13.51	13.89	14.27	14.34	14.09	13.75	14.51	13.81	14.11	14.20	14.80	14.75
55°	13.38	13.56	13.86	14.02	13.99	13.93	13.89	13.79	13.88	14.07	14.47	15.16
56°	12.83	12.88	13.02	13.52	13.59	13.62	13.90	13.08	13.17	13.50	14.16	13.85
57°	12.28	12.11	12.32	13.03	13.23	12.33	13.23	12.50	12.50	12.96	13.53	12.24
58°	11.38	11.47	11.73	12.54	12.64	11.96	12.44	11.97	11.92	12.09	12.88	11.69
59°	10.88	11.13	11.47	11.93	11.90	10.94	11.79	11.74	11.45	11.88	12.08	11.61
60°	10.63	10.80	11.14	11.33	11.31	11.15	11.04	11.02	11.10	11.30	11.68	12.25
61°	10.04	10.04	10.44	10.19	10.49	10.42	10.16	9.90	10.30	11.07	10.88	11.74
62°	9.13	9.20	9.34	9.49	9.81	9.46	9.71	9.03	9.45	9.87	10.48	10.76
63°	8.53	8.52	8.54	8.86	8.98	8.52	8.93	8.62	8.73	8.89	9.62	9.64
64°	8.01	7.93	7.93	8.29	8.29	8.15	8.11	8.16	8.16	8.17	8.97	8.88
65°	7.43	7.46	7.55	7.59	7.72	7.74	7.68	7.61	7.69	7.84	8.18	8.55
66°	6.70	6.76	6.93	6.94	7.08	7.13	7.31	6.99	7.03	7.41	7.33	7.86
67°	6.10	6.03	6.27	6.36	6.40	6.42	6.36	6.42	6.50	6.70	6.22	7.04
68°	5.56	5.42	5.67	5.80	5.75	5.81	5.39	5.80	5.98	6.03	5.94	6.51
69°	5.10	5.05	5.16	5.26	5.18	5.24	5.16	5.38	5.39	5.37	5.54	5.88
70°	4.86	4.85	4.83	4.95	4.95	4.95	4.96	4.99	4.99	5.13	5.24	5.50
71°	4.42	4.56	4.49	4.51	4.58	4.27	4.76	4.37	4.51	4.68	4.60	4.93
72°	4.07	4.13	4.21	4.23	4.24	3.79	4.15	3.98	4.20	4.10	4.10	4.62
73°	3.75	3.75	3.83	3.84	3.81	3.73	3.73	3.69	3.77	3.72	3.64	4.03
74°	3.42	3.42	3.47	3.51	3.50	3.56	3.33	3.41	3.53	3.57	3.46	3.54
75°	3.14	3.22	3.24	3.22	3.22	3.24	3.19	3.15	3.15	3.21	3.28	3.34
76°	2.78	2.88	2.95	2.94	2.88	2.76	2.97	2.81	2.80	2.71	2.80	3.10
77°	2.52	2.63	2.64	2.64	2.62	2.62	2.75	2.45	2.51	2.39	2.49	2.70
78°	2.24	2.41	2.41	2.34	2.39	2.36	2.52	2.26	2.42	2.30	2.41	2.33
79°	2.08	2.18	2.20	2.18	2.17	2.20	2.17	2.19	2.25	2.17	2.35	2.19
80°	1.95	2.00	1.99	2.04	1.99	2.06	2.00	2.01	2.07	2.00	2.09	2.14
81°	1.97	2.03	1.96	2.06	1.98	2.09	1.94	1.98	1.98	1.90	1.97	2.04
82°	1.93	2.05	2.00	1.98	1.99	1.98	1.92	1.94	2.02	1.87	2.04	2.04
83°	1.93	2.02	2.02	1.99	1.98	1.88	1.93	1.96	2.09	1.94	2.09	2.02
84°	1.96	1.99	2.02	2.01	1.99	1.88	2.02	1.93	2.08	2.03	2.10	2.10
85°	2.00	2.00	2.00	2.01	1.98	1.94	1.99	1.99	1.99	2.02	2.02	2.01
86°	2.11	2.15	2.11	2.10	2.10	2.12	2.06	2.05	2.13	1.89	2.23	2.18
87°	2.24	2.34	2.17	2.26	2.27	2.29	2.21	2.19	2.23	2.01	2.39	2.33
88°	2.44	2.56	2.36	2.43	2.49	2.46	2.47	2.36	2.41	2.25	2.61	2.59
89°	2.78	2.78	2.59	2.65	2.75	2.75	2.77	2.73	2.68	2.77	2.81	2.84
90°	3.05	2.99	2.99	2.99	3.00	3.00	3.00	3.02	3.09	3.03	3.07	3.13

Photometric Polar Diagram



Photometric Cartesian Diagram



Light Emmission Photo



Opening angle

