



LIGHT TECHNOLOGY

PHOTOMETRIC MEASUREMENT REPORT N° HP292ANEXT

Photometric measurement date: 12/1/2023/

Company: KARMAN 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: 1 hour

Regulations applied: UNI-EN 13032-4

Electro Magnetic Compatibility (EMC): Shielded instrument

Luminaire name: POIS

Eulumdat reference: HP292ANEXT

Size of luminaire (mm): Diameter: 80 x H 50

Size of luminous area (mm): 80 x 0

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

Number of lamps: 1

Type of light source: LED EA SRL CL073

Total luminous flux of the light source (lm): 410

Output luminous flux of the lamp (lm): 69.4

Colour temperature (K): 2225

Colour rendering index: 90

Supply current (mA): 350

Source power (W): 2.94

Power consumption included source power (W): 2.94

LED module efficacy (lm/W): 139.46

System light efficacy (lm/W): 139.46

Luminaire light efficacy (lm/W): 23.61

Light Output Ratio of luminaire (LOR): 100

Downward Flux Fraction (DFF): 54

Upward Flux Fraction (UFF): 46.00

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°	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53
1°	111.45	111.68	111.68	111.68	111.91	111.91	112.14	112.14	112.37	112.37	112.61	112.61
2°	110.06	110.29	110.52	110.75	110.98	111.22	111.45	111.68	111.91	112.14	112.14	112.37
3°	108.90	109.36	109.83	110.29	110.75	110.98	111.45	111.91	112.14	112.14	112.37	112.37
4°	107.51	108.44	109.13	110.06	110.75	111.45	112.14	112.14	112.14	112.14	112.14	112.14
5°	106.12	107.28	108.44	109.83	110.98	111.68	111.68	111.91	111.91	111.91	111.91	112.14
6°	107.05	108.20	109.59	110.98	111.91	111.91	111.68	111.45	111.68	111.68	111.91	111.91
7°	107.97	109.59	110.98	112.61	113.07	113.07	112.84	112.61	111.91	111.45	111.68	111.91
8°	109.36	110.98	112.84	114.23	114.46	114.46	114.46	113.76	113.07	112.37	111.68	111.68
9°	110.75	112.84	114.92	116.08	116.55	116.55	116.08	115.15	114.23	113.30	112.61	111.68
10°	112.14	114.46	116.78	118.17	118.86	118.86	117.94	116.78	115.62	114.46	113.53	112.37
11°	110.75	112.84	115.39	117.24	119.56	120.95	119.79	118.63	117.47	116.08	114.23	112.84
12°	109.36	110.98	112.84	114.69	116.55	117.94	119.79	120.48	119.09	117.01	114.69	113.07
13°	107.97	109.13	110.52	111.91	113.53	115.15	117.01	118.86	120.02	117.47	114.92	111.91
14°	106.58	107.28	108.20	109.36	110.75	112.37	114.23	116.08	117.24	116.31	114.00	110.29
15°	105.42	105.42	105.89	106.81	107.97	109.36	111.22	113.07	114.46	114.69	112.61	109.83
16°	106.58	106.35	106.12	105.89	105.42	106.81	108.67	110.29	111.68	111.91	112.14	110.98
17°	107.51	107.28	107.05	106.58	106.35	105.66	106.12	107.97	109.13	109.83	111.68	112.37
18°	108.44	108.44	107.97	107.51	107.05	106.35	105.89	106.12	107.05	108.90	110.98	113.07
19°	109.59	109.59	108.67	108.20	107.74	107.28	106.81	105.89	106.12	107.74	109.83	112.37
20°	110.98	110.98	109.59	109.13	108.67	107.97	107.74	106.81	105.66	106.81	108.67	112.61
21°	111.22	111.22	110.29	110.06	109.59	109.36	108.44	107.51	106.35	105.89	108.44	113.53
22°	111.22	111.45	110.75	110.98	110.52	110.52	109.59	107.97	107.28	106.12	109.36	113.76
23°	111.45	111.68	111.22	111.91	111.45	111.22	110.75	108.44	108.90	108.67	110.52	112.61
24°	111.91	111.91	111.91	113.07	111.91	111.22	110.98	110.06	110.98	110.75	110.29	111.91
25°	112.14	112.14	112.84	114.00	112.37	111.45	110.75	112.37	112.84	111.91	110.75	109.36
26°	111.45	112.37	112.84	114.92	112.61	111.68	110.75	113.76	114.23	112.37	110.52	106.81
27°	110.98	112.61	112.37	113.76	112.14	111.91	111.45	114.00	114.69	113.30	109.83	105.66
28°	110.52	112.84	111.68	112.84	111.68	112.14	111.91	113.30	114.46	113.76	109.36	106.12
29°	110.29	112.84	111.22	111.91	111.68	111.91	112.14	112.84	114.00	114.92	109.13	106.35
30°	109.83	112.61	110.29	110.75	112.37	111.22	111.91	112.61	113.53	114.23	108.44	106.58
31°	106.58	109.13	108.44	110.06	113.53	110.52	111.45	112.14	113.07	112.37	108.90	107.05
32°	103.34	105.66	105.42	107.51	114.69	110.29	110.98	111.68	112.61	110.75	109.59	107.74
33°	100.33	102.18	102.64	104.50	110.52	110.06	110.75	111.45	112.14	110.75	110.29	108.67
34°	97.78	99.40	100.09	101.95	106.12	108.44	110.29	110.98	111.91	110.98	110.29	110.98
35°	95.23	96.85	97.78	99.86	102.18	105.42	109.83	110.52	111.45	110.75	109.83	113.76
36°	97.31	98.70	97.31	97.55	98.94	102.64	107.97	110.29	111.22	108.90	110.75	112.37
37°	99.17	101.25	99.86	97.78	96.62	100.33	105.66	110.06	110.98	106.58	112.37	109.13
38°	101.48	104.03	102.64	100.33	95.92	98.01	103.34	108.90	107.97	106.58	110.52	107.97
39°	103.80	107.28	104.50	103.11	97.78	96.39	101.25	106.81	104.27	107.05	111.45	106.81
40°	106.12	110.29	108.67	105.42	99.63	97.31	99.17	104.50	102.41	108.20	109.36	105.66
41°	105.42	109.59	110.52	107.28	101.72	98.94	97.31	101.48	103.80	108.90	105.66	105.19
42°	104.96	107.97	109.13	107.97	103.80	100.56	97.31	98.70	104.27	106.81	103.80	104.96
43°	104.50	106.58	107.51	106.12	105.89	102.41	98.94	97.31	102.18	103.34	103.34	105.19
44°	103.80	104.96	105.89	104.96	105.66	104.27	100.56	96.85	99.40	101.25	103.11	105.42
45°	103.34	103.57	104.50	104.50	105.42	107.05	101.48	96.85	97.08	101.02	103.11	105.42
46°	102.41	102.64	103.34	103.80	105.19	107.74	101.95	96.39	95.92	100.09	102.87	105.19
47°	101.25	101.48	102.18	103.34	104.96	107.28	101.95	95.69	95.00	98.24	102.64	105.19
48°	100.09	100.33	101.25	101.95	104.50	106.35	102.87	97.08	93.61	96.16	102.64	103.80
49°	99.17	99.40	100.09	100.33	103.80	105.42	103.11	99.17	92.45	94.77	102.41	99.86
50°	98.24	98.47	99.17	98.70	101.95	104.50	102.41	100.79	91.75	93.38	101.25	97.55
51°	91.98	93.84	98.24	97.31	98.70	104.27	100.33	102.41	92.22	92.22	98.70	98.24
52°	86.66	88.28	92.68	96.16	95.00	102.64	98.47	103.80	94.07	91.06	95.46	97.78
53°	81.56	83.18	87.35	93.61	91.75	101.02	97.08	103.34	94.77	89.90	92.68	97.31
54°	77.16	78.55	82.49	88.97	89.20	99.86	97.31	102.87	93.61	88.97	91.52	96.85

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55°	73.22	74.38	78.08	84.11	86.89	97.08	99.40	101.02	93.14	89.44	91.06	95.46
56°	76.23	75.30	75.53	79.94	84.11	95.46	98.94	98.47	93.84	89.44	89.44	94.30
57°	79.47	78.55	77.62	76.23	80.86	92.68	97.08	96.16	96.62	86.19	88.74	93.61
58°	82.95	81.79	81.56	73.22	78.31	88.05	94.53	95.69	99.63	86.42	88.05	92.45
59°	86.89	85.50	84.80	76.00	75.77	84.34	91.98	95.92	97.78	89.20	87.58	91.29
60°	91.29	89.67	87.35	78.55	72.99	82.02	90.83	96.16	95.23	90.83	84.57	90.36
61°	88.74	89.67	89.90	80.40	72.29	79.24	89.44	95.46	94.53	91.75	81.56	89.20
62°	86.42	87.35	90.36	81.56	72.52	76.46	87.58	92.91	93.61	90.83	81.10	88.51
63°	84.11	85.03	88.05	82.95	72.29	74.14	84.11	90.59	91.29	90.59	80.17	87.35
64°	81.79	82.95	85.73	83.64	77.39	71.83	81.33	87.12	91.52	91.29	79.24	84.34
65°	79.70	80.63	83.64	84.11	81.79	70.44	77.85	86.42	93.84	90.59	79.01	82.95
66°	77.85	78.78	81.56	83.18	84.80	68.81	74.38	88.28	93.84	88.05	79.70	84.57
67°	75.77	76.69	79.01	80.17	85.73	70.67	73.22	89.20	92.45	90.13	80.63	84.11
68°	73.91	74.84	75.07	78.08	82.72	74.14	70.21	85.73	88.74	91.98	81.33	82.25
69°	72.06	72.99	72.99	76.69	81.10	76.00	66.27	79.94	86.19	92.45	81.79	80.40
70°	70.21	71.36	72.29	79.01	79.47	78.55	64.18	76.92	85.50	90.59	81.56	79.01
71°	70.21	69.74	71.36	78.55	78.55	78.78	63.02	75.77	87.12	87.35	80.86	76.92
72°	69.97	68.58	70.67	76.00	77.62	79.01	61.86	75.53	84.80	85.73	79.01	74.61
73°	69.74	67.19	70.21	76.00	74.61	79.94	61.86	73.91	82.95	84.34	77.85	72.75
74°	69.28	66.03	69.97	72.99	72.29	79.24	67.42	71.36	82.72	82.72	78.31	73.45
75°	69.05	64.64	69.97	71.83	67.42	75.77	68.81	67.89	78.55	84.80	79.94	75.77
76°	70.90	67.42	69.97	71.60	72.06	77.62	68.58	63.95	78.55	85.73	81.79	73.22
77°	72.99	70.21	69.05	71.13	69.74	77.85	66.03	61.63	81.10	84.34	79.24	70.67
78°	74.84	71.13	69.05	67.66	68.58	75.07	65.34	64.88	79.24	80.40	78.55	70.67
79°	77.16	71.83	69.28	66.96	67.89	72.06	67.42	61.86	77.85	78.31	82.02	69.28
80°	79.70	72.75	69.97	63.02	67.42	72.29	69.74	59.08	75.53	79.01	81.33	66.73
81°	76.69	73.91	70.67	63.02	68.35	71.83	70.67	58.16	72.06	79.01	79.70	66.96
82°	73.68	73.22	67.89	63.95	69.05	71.83	68.58	57.23	73.22	79.01	76.92	67.42
83°	70.90	71.83	72.29	69.74	64.18	66.50	69.74	57.69	76.69	78.55	76.00	66.73
84°	68.12	70.21	74.38	67.19	63.49	65.34	70.67	55.38	76.92	78.55	76.46	64.88
85°	65.57	69.05	75.30	63.02	62.79	65.11	71.13	54.22	72.99	78.78	76.92	61.86
86°	61.17	67.89	70.44	60.47	62.79	65.34	72.99	53.29	70.90	78.78	77.39	61.40
87°	57.23	67.89	69.97	60.47	63.49	66.03	73.45	52.36	69.28	78.78	77.62	61.40
88°	53.52	66.03	70.67	60.24	60.47	65.80	68.58	52.36	68.58	74.14	77.85	61.86
89°	50.28	65.57	70.90	60.24	60.47	65.80	68.58	52.13	68.58	70.44	77.85	62.10
90°	47.50	64.41	71.13	60.24	60.47	65.80	74.38	52.13	68.58	69.51	77.85	62.10
91°	50.28	65.57	70.90	60.24	66.27	65.80	68.35	52.13	68.58	73.91	77.85	61.63
92°	53.75	66.03	70.67	60.24	61.17	65.80	68.58	52.36	68.58	76.92	77.62	61.17
93°	57.46	66.50	69.97	60.47	63.49	66.03	73.45	52.36	69.28	78.78	77.62	61.17
94°	61.40	67.42	69.28	60.47	62.79	66.27	72.99	53.29	70.90	78.78	77.39	63.49
95°	65.57	68.81	68.12	60.71	62.79	65.34	71.13	54.22	72.99	78.78	77.16	66.50
96°	66.73	69.74	66.96	60.94	62.79	65.57	70.21	54.91	76.92	78.55	76.46	66.50
97°	67.89	70.44	66.27	62.10	63.02	65.80	69.28	55.61	79.01	78.55	76.00	66.73
98°	69.51	71.60	65.11	61.17	64.88	66.50	69.05	55.61	78.55	81.79	76.69	67.42
99°	70.90	70.67	63.49	61.63	64.41	69.28	67.66	57.93	74.14	82.25	78.78	66.96
100°	72.29	65.80	56.53	61.17	63.49	73.22	68.81	58.62	72.75	79.47	79.70	66.73
101°	66.96	61.63	53.06	62.79	63.72	72.52	68.12	59.32	72.99	79.24	80.40	69.28
102°	62.56	57.93	52.13	59.78	63.95	71.13	66.50	61.17	74.61	80.86	81.56	70.90
103°	58.85	54.91	52.83	59.55	63.49	72.29	64.88	62.33	78.55	83.41	81.10	71.36
104°	55.61	51.90	53.29	59.55	65.80	72.75	63.25	63.72	79.47	83.64	80.17	71.83
105°	52.60	52.60	53.99	60.01	65.34	70.90	61.40	65.34	80.40	83.88	80.63	72.29
106°	53.99	54.22	54.45	56.53	64.41	71.83	59.78	66.73	81.79	84.34	80.86	75.07
107°	55.38	55.84	55.84	57.69	65.34	72.75	57.69	68.81	82.49	85.50	80.40	76.46
108°	57.00	57.69	60.24	58.85	66.73	70.67	56.30	70.90	83.18	85.96	78.55	76.92
109°	58.62	59.78	60.94	60.24	67.66	71.60	55.38	72.99	83.88	85.73	76.46	75.77
110°	60.47	60.24	61.40	61.63	69.97	70.44	57.69	75.53	84.80	85.73	75.53	74.61
111°	61.17	59.55	61.40	63.72	74.38	66.50	57.00	77.62	84.34	85.73	74.61	75.07

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112°	61.86	59.08	61.63	66.27	77.39	64.64	60.01	77.85	83.41	85.73	73.68	76.23
113°	62.33	58.39	61.86	68.35	79.24	62.79	63.72	76.92	83.88	85.27	72.99	78.31
114°	62.79	57.93	62.10	69.28	73.68	61.40	65.57	74.61	83.64	85.27	72.06	80.17
115°	63.25	58.39	62.79	71.36	68.81	59.55	67.66	75.30	83.18	84.80	71.13	81.33
116°	64.64	60.71	64.64	73.68	66.50	57.00	69.28	76.69	83.41	83.41	70.21	82.72
117°	66.03	63.72	67.42	70.90	65.34	56.53	70.21	78.31	83.64	82.95	69.74	83.88
118°	67.42	66.50	70.44	67.42	62.33	58.85	71.36	79.94	83.88	82.02	72.52	85.27
119°	69.05	69.05	68.81	64.64	59.78	61.17	72.52	81.10	84.11	81.10	75.77	86.42
120°	70.44	68.58	64.18	62.10	60.01	63.95	73.91	82.25	84.34	80.17	76.46	86.66
121°	65.80	64.18	60.24	58.16	61.86	67.66	75.30	82.95	84.57	79.24	76.46	85.73
122°	61.63	60.47	57.00	53.52	63.72	70.44	76.92	83.18	85.03	78.31	77.16	83.41
123°	58.16	57.00	53.99	54.91	65.80	72.29	78.55	83.41	85.27	77.39	78.08	82.02
124°	54.91	53.99	53.06	58.16	67.89	73.68	80.40	83.88	83.64	76.46	80.17	82.25
125°	52.13	53.29	57.00	61.86	70.21	75.30	82.25	84.34	81.56	75.30	82.02	83.18
126°	55.84	57.23	61.40	65.80	72.75	77.16	82.95	84.57	79.24	74.84	83.18	84.80
127°	59.78	61.86	66.50	70.44	75.07	79.24	83.41	84.80	77.39	73.91	84.34	85.50
128°	64.64	67.19	72.52	73.68	76.92	81.10	83.64	85.27	75.30	72.99	85.73	85.50
129°	69.97	73.68	79.01	76.00	78.55	82.72	84.11	83.41	73.22	74.14	86.89	85.50
130°	76.46	79.01	79.70	78.55	80.40	83.18	84.34	80.86	71.13	76.00	86.66	85.27
131°	77.62	79.70	80.17	80.63	82.25	83.64	84.80	78.31	69.51	77.85	86.42	85.27
132°	78.78	80.17	81.10	82.02	82.95	84.11	85.27	76.00	69.51	79.70	86.19	85.03
133°	80.17	81.10	82.02	82.72	83.41	84.34	83.41	74.38	71.36	82.02	85.96	85.03
134°	81.33	82.02	82.72	83.88	83.88	84.80	81.33	74.38	73.22	84.34	85.73	85.27
135°	82.72	82.72	82.95	85.27	84.34	85.03	79.47	74.61	74.38	86.89	86.42	85.73
136°	83.18	83.18	83.41	86.66	84.80	82.95	77.85	74.14	75.77	87.35	88.05	86.19
137°	83.64	83.88	84.11	88.05	85.73	81.10	76.46	74.84	77.85	86.89	89.67	87.58
138°	84.34	84.34	84.57	89.67	84.34	79.24	75.30	76.46	79.47	86.42	90.59	89.44
139°	84.80	84.80	85.03	87.58	82.49	77.39	75.30	78.55	80.40	86.66	91.75	90.13
140°	85.27	84.80	83.41	84.34	80.63	75.77	76.92	81.10	81.33	86.42	92.45	90.59
141°	82.72	82.49	80.63	81.33	78.08	75.07	78.55	83.18	83.18	86.42	92.45	90.59
142°	80.17	80.17	79.24	78.31	75.53	76.69	80.40	85.03	85.27	86.89	90.36	89.90
143°	77.85	78.08	77.16	76.00	75.77	78.55	82.25	86.42	86.89	87.35	88.97	89.20
144°	75.77	76.23	75.30	75.30	77.62	80.40	84.34	87.35	88.51	87.81	88.74	88.51
145°	73.68	74.61	75.77	77.39	79.47	82.49	85.96	88.28	90.83	88.74	88.74	87.81
146°	75.77	76.46	77.85	79.24	81.56	84.57	87.12	89.44	92.45	90.59	90.13	87.12
147°	78.08	78.55	79.94	81.56	83.88	86.19	88.28	90.59	92.91	92.45	92.68	86.19
148°	80.40	80.86	82.25	83.88	85.96	87.58	89.44	91.75	93.14	93.84	94.07	87.58
149°	83.18	83.41	84.57	85.96	87.12	88.51	90.59	92.91	93.14	94.07	93.14	88.97
150°	85.73	85.73	86.42	87.35	88.51	89.90	91.98	93.14	93.38	94.30	91.98	88.74
151°	86.19	86.19	87.35	88.51	89.67	91.29	92.91	93.38	93.84	94.30	91.06	88.05
152°	86.89	86.42	88.28	89.90	91.06	92.68	93.14	93.38	94.07	93.14	90.13	87.12
153°	87.35	86.66	88.74	91.29	92.45	93.14	93.14	93.84	94.30	91.75	89.20	86.42
154°	88.05	87.12	89.20	92.91	93.14	93.38	93.38	94.07	93.61	90.83	88.28	86.42
155°	88.97	87.58	89.20	92.45	93.14	93.61	93.84	94.30	92.22	89.67	87.35	86.66
156°	88.97	88.05	88.74	91.75	93.38	93.84	94.30	93.38	91.06	88.74	86.42	87.12
157°	88.97	88.05	88.51	90.83	93.84	94.07	93.84	91.75	89.90	87.81	86.42	87.58
158°	88.97	88.51	88.51	89.90	93.84	94.07	92.45	90.36	88.74	86.66	86.89	88.05
159°	88.97	88.74	88.74	89.20	92.45	92.68	91.06	89.20	87.58	86.42	87.35	88.51
160°	88.97	88.97	88.74	88.28	90.13	91.29	90.13	88.28	86.42	86.89	87.81	88.97
161°	88.05	87.81	87.58	87.12	88.28	90.13	89.20	87.35	86.66	87.35	88.28	89.44
162°	87.12	86.89	86.66	86.42	86.66	88.51	88.05	87.12	87.12	87.81	88.74	89.67
163°	86.19	85.96	85.96	85.50	85.27	86.89	87.35	87.58	87.81	88.51	89.44	89.20
164°	85.03	85.27	85.03	84.80	84.34	86.19	87.81	88.05	88.28	88.97	89.67	88.05
165°	84.34	84.57	84.80	85.50	85.50	86.42	87.81	88.51	88.51	88.97	88.74	86.89
166°	86.42	86.42	86.89	87.35	87.35	86.89	88.05	88.97	88.97	86.89	87.12	85.50
167°	88.51	88.51	88.97	89.44	89.44	88.51	88.74	89.44	89.44	87.58	85.73	84.34
168°	90.83	90.83	91.06	91.75	91.98	90.83	89.44	89.67	88.51	86.66	85.03	83.41

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169°	93.14	93.14	93.38	94.07	94.77	93.38	90.13	88.28	87.12	85.96	84.57	83.18
170°	95.46	95.23	95.00	94.30	93.61	91.98	89.44	87.12	85.73	84.80	83.88	82.95
171°	92.45	92.22	91.98	91.29	90.59	89.67	88.05	86.19	84.80	83.88	83.18	82.49
172°	89.44	89.44	89.20	88.74	88.05	87.12	86.19	85.03	83.88	83.18	82.49	82.95
173°	86.66	86.66	86.42	86.19	85.73	85.03	84.34	83.64	82.95	82.25	83.18	83.88
174°	84.34	84.34	84.11	83.88	83.64	83.18	82.72	82.49	82.95	83.41	84.11	84.57
175°	82.25	82.25	82.49	82.49	82.72	82.95	83.41	83.64	84.11	84.57	85.03	85.50
176°	83.88	83.88	84.11	84.11	84.11	84.34	85.27	84.80	85.03	85.50	85.96	86.19
177°	85.50	85.50	85.50	85.50	85.50	85.73	85.73	85.96	86.19	86.42	86.89	87.12
178°	86.89	86.89	86.89	86.89	86.89	87.12	87.12	87.35	87.58	87.58	87.81	88.05
179°	88.28	88.28	88.51	88.51	88.51	88.51	88.74	88.74	88.74	88.97	89.20	89.20
180°	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36
Gamma	C60°	C65°	C70°	C75°	C80°	C85°	C90°	C95°	C100°	C105°	C110°	C115°
0°	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53
1°	112.84	112.84	113.07	113.07	113.30	113.30	113.53	113.30	113.30	113.07	113.07	112.84
2°	112.61	112.61	112.84	113.07	113.30	113.30	113.53	113.30	113.30	113.07	112.84	112.61
3°	112.37	112.61	112.61	112.84	113.07	113.30	113.53	113.30	113.07	112.84	112.61	112.61
4°	112.14	112.37	112.61	112.61	112.84	113.30	113.53	113.30	112.84	112.61	112.61	112.37
5°	112.14	112.14	112.37	112.61	112.84	113.07	113.53	113.07	112.84	112.61	112.37	112.14
6°	111.91	112.14	112.14	112.37	112.61	113.07	113.53	113.07	112.61	112.37	112.14	112.14
7°	111.91	111.91	112.14	112.37	112.61	113.07	113.53	113.07	112.61	112.37	112.14	111.91
8°	111.91	111.91	112.14	112.14	112.61	113.07	113.53	113.07	112.61	112.14	112.14	111.91
9°	111.68	111.91	111.91	112.14	112.37	112.84	113.53	112.84	112.37	112.14	111.91	111.91
10°	111.45	111.68	111.91	111.91	112.37	112.84	113.53	112.84	112.37	111.91	111.91	111.68
11°	111.91	111.68	111.22	110.98	111.22	112.14	113.53	112.14	111.22	110.98	111.22	111.68
12°	110.98	109.13	108.90	109.13	110.06	111.45	113.53	111.45	110.06	109.13	108.90	109.13
13°	109.13	107.05	106.58	107.28	108.20	109.83	112.14	109.83	108.20	107.28	106.58	107.05
14°	107.51	105.89	104.50	105.42	106.35	108.20	110.52	108.20	106.35	105.42	104.50	105.89
15°	107.74	105.19	102.87	104.50	105.89	107.74	110.52	107.74	105.89	104.50	102.87	105.19
16°	107.97	105.42	103.34	104.27	105.66	107.74	110.52	107.74	105.66	104.27	103.34	105.42
17°	109.13	106.12	104.03	104.03	105.66	107.51	110.52	107.51	105.66	104.03	104.03	106.12
18°	110.29	107.28	104.73	103.57	105.42	107.51	110.52	107.51	105.42	103.57	104.73	107.28
19°	112.61	109.59	105.89	102.87	105.19	107.28	110.52	107.28	105.19	102.87	105.89	109.59
20°	116.08	111.68	106.35	102.18	104.73	107.28	110.52	107.28	104.73	102.18	106.35	111.68
21°	117.24	112.84	106.81	102.64	104.27	105.66	107.74	105.66	104.27	102.64	106.81	112.84
22°	116.55	114.23	108.20	103.57	103.80	104.27	104.96	104.27	103.80	103.57	108.20	114.23
23°	115.62	115.85	109.59	104.50	104.27	105.66	107.74	105.66	104.27	104.50	109.59	115.85
24°	113.76	117.24	110.75	105.19	104.50	107.05	110.52	107.05	104.50	105.19	110.75	117.24
25°	111.68	117.01	111.68	105.66	104.27	107.05	110.52	107.05	104.27	105.66	111.68	117.01
26°	110.52	115.85	111.45	105.42	104.03	107.05	110.52	107.05	104.03	105.42	111.45	115.85
27°	109.36	113.07	110.52	105.42	103.80	107.05	110.52	107.05	103.80	105.42	110.52	113.07
28°	107.97	110.52	110.29	105.66	103.57	106.81	110.52	106.81	103.57	105.66	110.29	110.52
29°	106.81	109.36	110.98	106.35	103.11	105.66	107.74	105.66	103.11	106.35	110.98	109.36
30°	106.35	109.13	113.30	108.20	102.87	104.27	104.96	104.27	102.87	108.20	113.30	109.13
31°	106.12	109.83	116.78	109.83	101.48	103.11	105.66	103.11	101.48	109.83	116.78	109.83
32°	106.81	110.52	116.55	107.74	99.40	102.18	106.35	102.18	99.40	107.74	116.55	110.52
33°	107.51	109.13	113.07	106.12	99.63	103.11	107.74	103.11	99.63	106.12	113.07	109.13
34°	107.97	106.12	110.06	106.58	101.25	104.73	109.13	104.73	101.25	106.58	110.06	106.12
35°	106.12	104.03	108.20	106.58	101.72	103.11	105.66	103.11	101.72	106.58	108.20	104.03
36°	104.27	103.34	106.58	106.58	101.25	101.48	101.95	101.48	101.25	106.58	106.58	103.34
37°	104.50	102.18	104.96	106.35	99.86	99.86	101.95	99.86	99.86	106.35	104.96	102.18
38°	104.50	100.09	103.57	104.50	97.55	98.01	101.95	98.01	97.55	104.50	103.57	100.09
39°	104.27	99.86	103.34	102.87	97.31	98.24	102.64	98.24	97.31	102.87	103.34	99.86
40°	104.50	102.64	103.34	105.89	98.70	98.70	103.34	98.70	98.70	105.89	103.34	102.64
41°	106.12	104.03	102.64	109.13	99.63	98.70	103.34	98.70	99.63	109.13	102.64	104.03
42°	107.28	102.41	101.72	109.83	100.09	98.70	103.34	98.70	100.09	109.83	101.72	102.41
43°	107.74	101.48	100.56	109.13	99.40	96.62	99.17	96.62	99.40	109.13	100.56	101.48

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44°	107.74	100.33	99.40	105.89	97.78	94.30	94.77	94.30	97.78	105.89	99.40	100.33
45°	105.66	99.63	98.01	102.64	96.39	92.68	97.78	92.68	96.39	102.64	98.01	99.63
46°	103.57	100.56	96.85	103.11	95.46	91.06	100.56	91.06	95.46	103.11	96.85	100.56
47°	103.34	101.25	96.62	103.34	95.69	91.98	97.78	91.98	95.69	103.34	96.62	101.25
48°	102.41	99.63	96.39	100.79	96.62	93.61	94.77	93.61	96.62	100.79	96.39	99.63
49°	101.25	98.47	96.39	98.47	96.16	91.52	94.77	91.52	96.16	98.47	96.39	98.47
50°	100.79	98.70	96.16	97.08	95.00	89.20	94.77	89.20	95.00	97.08	96.16	98.70
51°	99.63	98.94	92.68	95.46	95.23	89.20	94.07	89.20	95.23	95.46	92.68	98.94
52°	98.01	99.17	90.36	95.23	96.16	89.67	93.38	89.67	96.16	95.23	90.36	99.17
53°	98.47	99.86	90.36	95.00	95.69	87.81	92.68	87.81	95.69	95.00	90.36	99.86
54°	98.94	100.56	90.36	94.07	94.07	85.73	91.98	85.73	94.07	94.07	90.36	100.56
55°	97.55	98.94	90.13	93.14	92.45	85.03	89.90	85.03	92.45	93.14	90.13	98.94
56°	96.16	94.30	89.90	91.75	90.83	84.57	87.58	84.57	90.83	91.75	89.90	94.30
57°	95.00	92.91	91.06	90.36	91.75	85.50	90.59	85.50	91.75	90.36	91.06	92.91
58°	94.53	95.69	90.83	89.67	94.30	86.19	93.38	86.19	94.30	89.67	90.83	95.69
59°	94.77	96.16	87.81	88.74	93.84	83.64	89.20	83.64	93.84	88.74	87.81	96.16
60°	94.77	94.30	86.66	88.74	91.29	80.63	84.80	80.63	91.29	88.74	86.66	94.30
61°	94.30	92.68	88.28	88.74	90.36	79.01	84.80	79.01	90.36	88.74	88.28	92.68
62°	92.22	91.06	88.05	86.89	90.59	77.62	84.80	77.62	90.59	86.89	88.05	91.06
63°	88.05	90.36	86.19	85.27	89.67	77.39	84.80	77.39	89.67	85.27	86.19	90.36
64°	87.81	90.83	85.73	84.80	88.28	77.39	84.80	77.39	88.28	84.80	85.73	90.83
65°	90.83	89.90	86.19	84.34	87.81	77.16	82.72	77.16	87.81	84.34	86.19	89.90
66°	89.44	88.51	85.27	82.49	88.05	76.92	80.40	76.92	88.05	82.49	85.27	88.51
67°	86.42	86.42	83.64	80.63	86.89	77.62	81.79	77.62	86.89	80.63	83.64	86.42
68°	83.88	84.11	84.11	78.31	85.27	78.08	83.18	78.08	85.27	78.31	84.11	84.11
69°	81.79	85.96	85.50	77.62	86.42	76.69	79.70	76.69	86.42	77.62	85.50	85.96
70°	84.34	87.12	84.34	79.94	88.51	75.07	76.00	75.07	88.51	79.94	84.34	87.12
71°	85.50	83.18	82.02	80.40	86.19	72.06	76.92	72.06	86.19	80.40	82.02	83.18
72°	82.49	80.40	81.33	77.39	81.79	68.81	77.62	68.81	81.79	77.39	81.33	80.40
73°	81.10	80.86	80.86	76.00	81.10	71.60	77.62	71.60	81.10	76.00	80.86	80.86
74°	81.33	81.10	81.10	76.92	81.56	74.84	77.62	74.84	81.56	76.92	81.10	81.10
75°	79.70	81.10	81.33	76.23	81.56	72.52	77.62	72.52	81.56	76.23	81.33	81.10
76°	77.39	81.10	81.10	73.91	81.33	69.74	77.62	69.74	81.33	73.91	81.10	81.10
77°	78.31	81.10	80.63	72.75	81.33	68.12	74.14	68.12	81.33	72.75	80.63	81.10
78°	79.01	80.17	78.31	72.52	81.33	66.50	70.44	66.50	81.33	72.52	78.31	80.17
79°	78.55	79.24	76.92	72.75	79.24	63.95	72.52	63.95	79.24	72.75	76.92	79.24
80°	76.92	78.78	78.55	72.99	76.46	61.40	74.61	61.40	76.46	72.99	78.55	78.78
81°	74.14	78.31	79.47	72.29	77.62	63.72	74.61	63.72	77.62	72.29	79.47	78.31
82°	73.22	78.08	78.78	70.90	79.47	66.50	74.61	66.50	79.47	70.90	78.78	78.08
83°	73.22	77.39	77.16	68.12	79.24	66.50	71.83	66.50	79.24	68.12	77.16	77.39
84°	76.23	74.38	74.38	65.11	78.78	66.50	69.05	66.50	78.78	65.11	74.38	74.38
85°	78.31	74.38	73.22	64.88	76.23	63.95	69.74	63.95	76.23	64.88	73.22	74.38
86°	75.53	77.85	73.45	65.34	73.45	61.17	70.44	61.17	73.45	65.34	73.45	77.85
87°	73.91	79.24	76.00	67.42	73.22	61.86	73.22	61.86	73.22	67.42	76.00	79.24
88°	73.91	79.24	79.47	69.97	73.22	62.33	76.00	62.33	73.22	69.97	79.47	79.24
89°	73.91	79.24	79.94	70.21	73.22	62.33	76.00	62.33	73.22	70.21	79.94	79.24
90°	73.91	79.24	79.94	70.21	73.22	62.33	76.00	62.33	73.22	70.21	79.94	79.24
91°	73.91	79.24	77.16	67.66	73.22	62.33	76.00	62.33	73.22	67.66	77.16	79.24
92°	73.91	78.78	74.61	65.34	73.22	62.33	76.00	62.33	73.22	65.34	74.61	78.78
93°	73.91	76.00	73.91	64.88	76.00	61.86	73.22	61.86	76.00	64.88	73.91	76.00
94°	73.91	74.84	73.45	64.88	78.78	61.17	70.44	61.17	78.78	64.88	73.45	74.84
95°	73.91	77.16	73.45	67.19	78.78	63.95	69.74	63.95	78.78	67.19	73.45	77.16
96°	73.68	78.08	74.38	69.51	78.55	66.50	69.05	66.50	78.55	69.51	74.38	78.08
97°	73.22	78.08	77.16	71.60	77.39	66.50	71.83	66.50	77.39	71.60	77.16	78.08
98°	73.22	78.08	78.31	72.99	76.69	66.50	74.61	66.50	76.69	72.99	78.31	78.08
99°	74.14	78.08	77.85	72.52	79.47	66.50	74.61	66.50	79.47	72.52	77.85	78.08
100°	76.92	78.78	78.78	72.52	81.56	66.50	74.61	66.50	81.56	72.52	78.78	78.78

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101°	78.55	79.47	80.63	72.52	81.56	66.50	75.30	66.50	81.56	72.52	80.63	79.47
102°	79.01	80.40	81.10	72.52	81.33	66.73	76.00	66.73	81.33	72.52	81.10	80.40
103°	80.63	81.79	80.86	72.75	81.33	68.12	76.92	68.12	81.33	72.75	80.86	81.79
104°	82.49	84.11	81.10	73.91	81.79	69.74	77.62	69.74	81.79	73.91	81.10	84.11
105°	82.49	85.73	81.33	76.46	84.57	72.52	77.62	72.52	84.57	76.46	81.33	85.73
106°	82.49	86.19	83.18	76.69	85.96	74.84	77.62	74.84	85.96	76.69	83.18	86.19
107°	81.79	84.57	84.80	74.84	82.49	72.29	80.40	72.29	82.49	74.84	84.80	84.57
108°	81.10	81.79	82.49	74.61	80.17	69.97	83.18	69.97	80.17	74.61	82.49	81.79
109°	80.86	80.63	80.63	75.77	80.86	71.83	79.70	71.83	80.86	75.77	80.63	80.63
110°	81.56	79.94	80.63	77.85	82.25	73.68	76.00	73.68	82.25	77.85	80.63	79.94
111°	82.72	81.56	80.86	80.86	85.96	73.91	79.01	73.91	85.96	80.86	80.86	81.56
112°	82.95	83.41	81.33	82.02	88.51	73.91	81.79	73.91	88.51	82.02	81.33	83.41
113°	83.18	84.57	82.02	82.25	88.51	74.84	82.49	74.84	88.51	82.25	82.02	84.57
114°	84.57	85.96	83.64	82.49	88.51	75.53	83.18	75.53	88.51	82.49	83.64	85.96
115°	85.27	86.89	84.80	82.72	88.97	78.08	83.18	78.08	88.97	82.72	84.80	86.89
116°	85.27	87.58	85.73	82.49	88.28	80.17	83.18	80.17	88.28	82.49	85.73	87.58
117°	85.27	87.81	85.96	81.79	85.73	79.24	84.80	79.24	85.73	81.79	85.96	87.81
118°	85.27	88.05	85.27	82.49	84.57	78.55	86.19	78.55	84.57	82.49	85.27	88.05
119°	85.03	88.28	84.80	83.64	86.42	78.78	89.20	78.78	86.42	83.64	84.80	88.28
120°	85.03	88.74	84.34	83.88	87.35	79.01	91.98	79.01	87.35	83.88	84.34	88.74
121°	85.03	88.97	83.64	84.11	86.89	79.24	91.98	79.24	86.89	84.11	83.64	88.97
122°	85.03	89.44	83.18	84.34	86.42	79.24	91.98	79.24	86.42	84.34	83.18	89.44
123°	85.27	89.44	82.95	84.57	86.42	79.47	91.98	79.47	86.42	84.57	82.95	89.44
124°	85.50	89.67	82.49	85.03	86.42	79.47	91.98	79.47	86.42	85.03	82.49	89.67
125°	85.50	89.90	83.41	85.73	86.66	79.47	91.98	79.47	86.66	85.73	83.41	89.90
126°	85.50	88.97	85.03	85.50	85.73	79.24	91.98	79.24	85.73	85.50	85.03	88.97
127°	85.50	87.12	83.88	85.03	83.41	77.62	87.58	77.62	83.41	85.03	83.88	87.12
128°	85.50	86.42	81.33	85.50	82.95	76.46	83.18	76.46	82.95	85.50	81.33	86.42
129°	85.50	85.96	80.40	86.19	85.50	78.78	83.18	78.78	85.50	86.19	80.40	85.96
130°	85.73	85.50	79.94	86.19	86.66	80.86	83.18	80.86	86.66	86.19	79.94	85.50
131°	85.73	85.03	79.70	86.42	86.19	81.10	83.18	81.10	86.19	86.42	79.70	85.03
132°	86.19	84.57	80.40	86.89	85.03	81.33	83.18	81.33	85.03	86.89	80.40	84.57
133°	86.42	83.88	80.86	87.58	82.72	79.24	82.49	79.24	82.72	87.58	80.86	83.88
134°	87.12	84.34	81.33	88.51	82.02	77.85	81.79	77.85	82.02	88.51	81.33	84.34
135°	88.51	85.27	83.18	89.20	83.41	80.17	82.49	80.17	83.41	89.20	83.18	85.27
136°	89.90	84.57	85.73	90.13	84.11	82.49	83.18	82.49	84.11	90.13	85.73	84.57
137°	89.90	82.95	84.80	90.83	83.88	82.49	83.18	82.49	83.88	90.83	84.80	82.95
138°	88.74	81.79	83.41	90.36	82.95	82.49	83.18	82.49	82.95	90.36	83.41	81.79
139°	87.58	80.86	83.18	89.20	81.79	82.95	87.58	82.95	81.79	89.20	83.18	80.86
140°	86.42	80.17	83.41	88.51	80.63	83.41	91.98	83.41	80.63	88.51	83.41	80.17
141°	86.19	79.47	83.88	87.81	79.94	82.02	88.51	82.02	79.94	87.81	83.88	79.47
142°	86.66	80.40	84.57	87.81	80.17	80.86	84.80	80.86	80.17	87.81	84.57	80.40
143°	86.19	83.18	86.89	87.81	81.79	82.72	84.80	82.72	81.79	87.81	86.89	83.18
144°	85.96	84.80	90.13	89.44	82.95	84.34	84.80	84.34	82.95	89.44	90.13	84.80
145°	85.73	85.96	91.98	90.59	83.18	85.27	87.58	85.27	83.18	90.59	91.98	85.96
146°	85.50	86.42	92.91	90.13	83.18	85.96	90.36	85.96	83.18	90.13	92.91	86.42
147°	84.57	86.19	92.45	89.44	82.95	85.96	90.36	85.96	82.95	89.44	92.45	86.19
148°	83.41	85.73	90.59	87.35	82.72	86.19	90.36	86.19	82.72	87.35	90.59	85.73
149°	83.41	85.96	89.67	85.50	82.49	85.96	90.36	85.96	82.49	85.50	89.67	85.96
150°	85.50	86.66	89.67	84.57	82.02	85.73	90.36	85.73	82.02	84.57	89.67	86.66
151°	86.66	88.05	88.97	83.88	81.56	84.11	87.58	84.11	81.56	83.88	88.97	88.05
152°	87.12	89.20	88.28	83.41	81.33	82.49	84.80	82.49	81.33	83.41	88.28	89.20
153°	87.35	89.44	87.58	83.18	81.56	82.49	84.80	82.49	81.56	83.18	87.58	89.44
154°	87.81	89.67	86.89	82.72	81.56	82.49	84.80	82.49	81.56	82.72	86.89	89.67
155°	88.51	89.90	86.42	82.49	81.56	82.49	84.80	82.49	81.56	82.49	86.42	89.90
156°	88.74	89.67	85.73	82.25	81.79	82.49	84.80	82.49	81.79	82.25	85.73	89.67
157°	89.20	88.74	85.03	82.02	81.79	82.72	84.80	82.72	81.79	82.02	85.03	88.74

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158°	89.44	88.05	84.57	81.79	82.02	82.95	84.80	82.95	82.02	81.79	84.57	88.05
159°	89.67	87.35	83.88	81.56	82.72	84.80	87.58	84.80	82.72	81.56	83.88	87.35
160°	89.67	86.42	83.41	81.10	83.64	86.42	90.36	86.42	83.64	81.10	83.41	86.42
161°	88.51	85.73	82.95	81.33	84.11	86.66	90.36	86.66	84.11	81.33	82.95	85.73
162°	87.58	84.80	82.49	81.79	84.34	87.12	90.36	87.12	84.34	81.79	82.49	84.80
163°	86.66	84.11	82.02	82.25	84.57	87.12	90.36	87.12	84.57	82.25	82.02	84.11
164°	85.73	83.41	81.56	82.72	84.80	87.35	90.36	87.35	84.80	82.72	81.56	83.41
165°	84.80	82.95	81.10	83.18	85.27	87.58	90.36	87.58	85.27	83.18	81.10	82.95
166°	83.88	82.25	81.56	83.64	85.50	87.81	90.36	87.81	85.50	83.64	81.56	82.25
167°	83.18	81.79	82.02	83.88	85.73	87.81	90.36	87.81	85.73	83.88	82.02	81.79
168°	82.25	81.10	82.72	84.34	85.96	88.05	90.36	88.05	85.96	84.34	82.72	81.10
169°	82.02	81.79	83.18	84.80	86.19	88.28	90.36	88.28	86.19	84.80	83.18	81.79
170°	81.79	82.95	84.11	85.27	86.66	88.51	90.36	88.51	86.66	85.27	84.11	82.95
171°	82.95	84.11	85.03	85.96	87.12	88.74	90.36	88.74	87.12	85.96	85.03	84.11
172°	83.88	84.80	85.50	86.42	87.58	88.97	90.36	88.97	87.58	86.42	85.50	84.80
173°	84.57	85.27	86.19	86.89	88.05	89.20	90.36	89.20	88.05	86.89	86.19	85.27
174°	85.27	85.96	86.66	87.35	88.28	89.20	90.36	89.20	88.28	87.35	86.66	85.96
175°	85.96	86.66	87.12	87.81	88.51	89.44	90.36	89.44	88.51	87.81	87.12	86.66
176°	86.66	87.12	87.81	88.28	88.97	89.67	90.36	89.67	88.97	88.28	87.81	87.12
177°	87.58	87.81	88.28	88.74	89.44	89.90	90.36	89.90	89.44	88.74	88.28	87.81
178°	88.28	88.74	88.97	89.44	89.67	90.13	90.36	90.13	89.67	89.44	88.97	88.74
179°	89.44	89.44	89.67	89.90	90.13	90.13	90.36	90.13	90.13	89.90	89.67	89.44
180°	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36
Gamma	C120°	C125°	C130°	C135°	C140°	C145°	C150°	C155°	C160°	C165°	C170°	C175°
0°	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53
1°	112.84	112.61	112.61	112.37	112.37	112.14	112.14	111.91	111.91	111.68	111.68	111.68
2°	112.61	112.37	112.14	112.14	111.91	111.68	111.45	111.22	110.98	110.75	110.52	110.29
3°	112.37	112.37	112.37	112.14	112.14	111.91	111.45	110.98	110.75	110.29	109.83	109.36
4°	112.14	112.14	112.14	112.14	112.14	112.14	111.91	111.45	110.75	110.06	109.13	108.44
5°	112.14	112.14	111.91	111.91	111.91	111.91	111.68	111.68	110.98	109.83	108.44	107.28
6°	111.91	111.91	111.91	111.68	111.68	111.45	111.68	111.91	111.91	110.98	109.59	108.20
7°	111.91	111.91	111.68	111.45	111.91	112.61	112.84	113.07	113.07	112.61	110.98	109.59
8°	111.91	111.68	111.68	112.37	113.07	113.76	114.46	114.46	114.46	114.23	112.84	110.98
9°	111.68	111.68	112.61	113.30	114.23	115.15	116.08	116.55	116.55	116.08	114.92	112.84
10°	111.45	112.37	113.53	114.46	115.62	116.78	117.94	118.86	118.86	118.17	116.78	114.46
11°	111.91	112.84	114.23	116.08	117.47	118.63	119.79	120.95	119.56	117.24	115.39	112.84
12°	110.98	113.07	114.69	117.01	119.09	120.48	119.79	117.94	116.55	114.69	112.84	110.98
13°	109.13	111.91	114.92	117.47	120.02	118.86	117.01	115.15	113.53	111.91	110.52	109.13
14°	107.51	110.29	114.00	117.70	117.24	116.08	114.23	112.37	110.75	109.36	108.20	107.28
15°	107.74	109.83	112.61	114.69	114.46	113.07	111.22	109.36	107.97	106.81	105.89	105.42
16°	107.97	110.98	112.14	111.91	111.68	110.29	108.67	106.81	105.42	105.89	106.12	106.35
17°	109.13	112.37	111.68	109.83	109.13	107.97	106.12	105.66	106.35	106.58	107.05	107.28
18°	110.29	113.07	110.98	108.90	107.05	106.12	105.89	106.35	107.05	107.51	107.97	108.44
19°	112.61	112.37	109.83	107.74	106.12	105.89	106.81	107.28	107.74	108.20	108.67	109.59
20°	116.08	112.61	108.67	106.81	105.66	106.81	107.74	107.97	108.67	109.13	109.59	110.98
21°	117.24	113.53	108.44	105.89	106.35	107.51	108.44	109.36	109.59	110.06	110.29	111.22
22°	116.55	113.76	109.36	106.12	107.28	107.97	109.59	110.52	110.52	110.98	110.75	111.45
23°	115.62	112.61	110.52	108.67	108.90	108.44	110.75	111.22	111.45	111.91	111.22	111.68
24°	113.76	111.91	110.29	110.75	110.98	110.06	110.98	111.22	111.91	113.07	111.91	111.91
25°	111.68	109.36	110.75	111.91	112.84	112.37	110.75	111.45	112.37	114.00	112.84	112.14
26°	110.52	106.81	110.52	112.37	114.23	113.76	110.75	111.68	112.61	114.92	112.84	112.37
27°	109.36	105.66	109.83	113.30	114.69	114.00	111.45	111.91	112.14	113.76	112.37	112.61
28°	107.97	106.12	109.36	113.76	114.46	113.30	111.91	112.14	111.68	112.84	111.68	112.84
29°	106.81	106.35	109.13	114.92	114.00	112.84	112.14	111.91	111.68	111.91	111.22	112.84
30°	106.35	106.58	108.44	114.23	113.53	112.61	111.91	111.22	112.37	110.75	110.29	112.61
31°	106.12	107.05	108.90	112.37	113.07	112.14	111.45	110.52	113.53	110.06	108.44	109.13
32°	106.81	107.74	109.59	110.75	112.61	111.68	110.98	110.29	114.69	107.51	105.42	105.66

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33°	107.51	108.67	110.29	110.75	112.14	111.45	110.75	110.06	110.52	104.50	102.64	102.18
34°	107.97	110.98	110.29	110.98	111.91	110.98	110.29	108.44	106.12	101.95	100.09	99.40
35°	106.12	113.76	109.83	110.75	111.45	110.52	109.83	105.42	102.18	99.86	97.78	96.85
36°	104.27	112.37	110.75	108.90	111.22	110.29	107.97	102.64	98.94	97.55	97.31	98.70
37°	104.50	109.13	110.52	106.58	110.98	110.06	105.66	100.33	96.62	97.78	99.86	101.25
38°	104.50	107.97	110.52	106.58	107.97	108.90	103.34	98.01	95.92	100.33	102.64	104.03
39°	104.27	106.81	111.45	107.05	104.27	106.81	101.25	96.39	97.78	103.11	107.74	107.28
40°	104.50	105.66	109.36	108.20	102.41	104.50	99.17	97.31	99.63	105.42	108.67	110.29
41°	106.12	105.19	105.66	108.90	103.80	101.48	97.31	98.94	101.72	107.28	110.52	109.59
42°	107.28	104.96	103.80	106.81	104.27	98.70	97.31	100.56	103.80	107.97	109.13	107.97
43°	107.74	105.19	103.34	103.34	102.18	97.31	98.94	102.41	105.89	106.12	107.51	106.58
44°	107.74	105.42	103.11	101.25	99.40	96.85	100.56	104.27	105.66	104.96	105.89	104.96
45°	105.66	105.42	103.11	101.02	97.08	96.85	101.48	107.05	105.42	104.50	104.50	103.57
46°	103.57	105.19	102.87	100.09	95.92	96.39	101.95	107.74	105.19	103.80	103.34	102.64
47°	103.34	105.19	102.64	98.24	95.00	95.69	101.95	107.28	104.96	103.34	102.18	101.48
48°	102.41	103.80	102.64	96.16	93.61	97.08	102.87	106.35	104.50	101.95	101.25	100.33
49°	101.25	99.86	102.41	94.77	92.45	99.17	103.11	105.42	103.80	100.33	100.09	99.40
50°	100.79	97.55	101.25	93.38	91.75	100.79	102.41	104.50	101.95	98.70	99.17	98.47
51°	99.63	98.24	98.70	92.22	92.22	102.41	100.33	104.27	98.70	97.31	98.24	93.84
52°	98.01	97.78	95.46	91.06	94.07	103.80	98.47	102.64	95.00	96.16	92.68	88.28
53°	98.47	97.31	92.68	89.90	94.77	103.34	97.08	101.02	91.75	93.61	87.35	83.18
54°	98.94	96.85	91.52	88.97	93.61	102.87	97.31	99.86	89.20	88.97	82.49	78.55
55°	97.55	95.46	91.06	89.44	93.14	101.02	99.40	97.08	86.89	84.11	78.08	74.38
56°	96.16	94.30	89.44	89.44	93.84	98.47	98.94	95.46	84.11	79.94	75.53	75.30
57°	95.00	93.61	88.74	86.19	96.62	96.16	97.08	92.68	80.86	76.23	77.62	78.55
58°	94.53	92.45	88.05	86.42	99.63	95.69	94.53	88.05	78.31	73.22	81.56	81.79
59°	94.77	91.29	87.58	89.20	97.78	95.92	91.98	84.34	75.77	76.00	84.80	85.50
60°	94.77	90.36	84.57	90.83	95.23	96.16	90.83	82.02	72.99	78.55	87.35	89.67
61°	94.30	89.20	81.56	91.75	94.53	95.46	89.44	79.24	72.29	80.40	89.90	89.67
62°	92.22	88.51	81.10	90.83	93.61	92.91	87.58	76.46	72.52	81.56	90.36	87.35
63°	88.05	87.35	80.17	90.59	91.29	90.59	84.11	74.14	72.29	82.95	88.05	85.03
64°	87.81	84.34	79.24	91.29	91.52	87.12	81.33	71.83	77.39	83.64	85.73	82.95
65°	90.83	82.95	79.01	90.59	93.84	86.42	77.85	70.44	81.79	84.11	83.64	80.63
66°	89.44	84.57	79.70	88.05	93.84	88.28	74.38	68.81	84.80	83.18	81.56	78.78
67°	86.42	84.11	80.63	90.13	92.45	89.20	73.22	70.67	85.73	80.17	79.01	76.69
68°	83.88	82.25	81.33	91.98	88.74	85.73	70.21	74.14	82.72	78.08	75.07	74.84
69°	81.79	80.40	81.79	92.45	86.19	79.94	66.27	76.00	81.10	76.69	72.99	72.99
70°	84.34	79.01	81.56	90.59	85.50	76.92	64.18	78.55	79.47	79.01	72.29	71.36
71°	85.50	76.92	80.86	87.35	87.12	75.77	63.02	78.78	78.55	78.55	71.36	69.74
72°	82.49	74.61	79.01	85.73	84.80	75.53	61.86	79.01	77.62	76.00	70.67	68.58
73°	81.10	72.75	77.85	84.34	82.95	73.91	61.86	79.94	74.61	76.00	70.21	67.19
74°	81.33	73.45	78.31	82.72	82.72	71.36	67.42	79.24	72.29	72.99	69.97	66.03
75°	79.70	75.77	79.94	84.80	78.55	67.89	68.81	75.77	67.42	71.83	69.97	64.64
76°	77.39	73.22	81.79	85.73	78.55	63.95	68.58	77.62	72.06	71.60	69.97	67.42
77°	78.31	70.67	79.24	84.34	81.10	61.63	66.03	77.85	69.74	71.13	69.05	70.21
78°	79.01	70.67	78.55	80.40	79.24	64.88	65.34	75.07	68.58	67.66	69.05	71.13
79°	78.55	69.28	82.02	78.31	77.85	61.86	67.42	72.06	67.89	66.96	69.28	71.83
80°	76.92	66.73	81.33	77.62	75.53	59.08	69.74	72.29	67.42	63.02	69.97	72.75
81°	74.14	66.96	79.70	79.01	72.06	58.16	70.67	71.83	68.35	63.02	70.67	73.91
82°	73.22	67.42	76.92	79.01	73.22	57.23	68.58	71.83	69.05	63.95	67.89	73.22
83°	73.22	66.73	76.00	78.55	76.69	57.69	69.74	66.50	64.18	69.74	72.29	71.83
84°	76.23	64.88	76.46	78.55	76.92	55.38	70.67	65.34	63.49	67.19	74.38	70.21
85°	78.31	61.86	76.92	78.78	72.99	54.22	71.13	65.11	62.79	63.02	75.30	69.05
86°	75.53	61.40	77.39	78.78	70.90	53.29	72.99	65.34	62.79	60.47	70.44	67.89
87°	73.91	61.40	77.62	78.78	69.28	52.36	73.45	66.03	63.49	60.47	69.97	67.89
88°	73.91	61.86	77.85	74.14	68.58	52.36	74.38	65.80	60.47	60.24	70.67	66.03
89°	73.91	62.10	77.85	70.44	68.58	52.13	74.38	65.80	60.47	60.24	70.90	65.57

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90°	73.91	62.10	77.85	69.51	68.58	52.13	74.38	65.80	60.47	60.24	71.13	64.41
91°	73.91	61.63	77.85	73.91	68.58	52.13	74.38	65.80	66.27	60.24	70.90	65.57
92°	73.91	61.17	77.62	76.92	68.58	52.36	74.38	65.80	61.17	60.24	70.67	66.03
93°	73.91	61.17	77.62	78.78	69.28	52.36	73.45	66.03	63.49	60.47	69.97	66.50
94°	73.91	63.49	77.39	78.78	70.90	53.29	72.99	66.27	62.79	60.47	69.28	67.42
95°	73.91	66.50	77.16	78.78	72.99	54.22	71.13	65.34	62.79	60.71	68.12	68.81
96°	73.68	66.50	76.46	78.55	76.92	54.91	70.21	65.57	62.79	60.94	66.96	69.74
97°	73.22	66.73	76.00	78.55	79.01	55.61	69.28	65.80	63.02	62.10	66.27	70.44
98°	73.22	67.42	76.69	81.79	78.55	55.61	69.05	66.50	64.88	61.17	65.11	71.60
99°	74.14	66.96	78.78	82.25	74.14	57.93	67.66	69.28	64.41	61.63	63.49	70.67
100°	76.92	66.73	79.70	78.78	72.75	58.62	68.81	73.22	63.49	61.17	56.53	65.80
101°	78.55	69.28	80.40	79.24	72.99	59.32	68.12	72.52	63.72	62.79	53.06	61.63
102°	79.01	70.90	81.56	80.86	74.61	61.17	66.50	71.13	63.95	59.78	52.13	57.93
103°	80.63	71.36	81.10	83.41	78.55	62.33	64.88	72.29	63.49	59.55	52.83	54.91
104°	82.49	71.83	80.17	83.64	79.47	63.72	63.25	72.75	65.80	59.55	53.29	51.90
105°	82.49	72.29	80.63	83.88	80.40	65.34	61.40	70.90	65.34	60.01	53.99	52.60
106°	82.49	75.07	80.86	84.34	81.79	66.73	59.78	71.83	64.41	56.53	54.45	54.22
107°	81.79	76.46	80.40	85.50	82.49	68.81	57.69	72.75	65.34	57.69	55.84	55.84
108°	81.10	76.92	78.55	85.96	83.18	70.90	56.30	70.67	66.73	58.85	60.24	57.69
109°	80.86	75.77	76.46	85.73	83.88	72.99	55.38	71.60	67.66	60.24	60.94	59.78
110°	81.56	74.61	75.53	85.73	84.80	75.53	57.69	70.44	69.97	61.63	61.40	60.24
111°	82.72	75.07	74.61	85.73	84.34	77.62	57.00	66.50	74.38	63.72	61.40	59.55
112°	82.95	76.23	73.68	85.73	83.41	77.85	60.01	64.64	77.39	66.27	61.63	59.08
113°	83.18	78.31	72.99	85.27	83.88	76.92	63.72	62.79	79.24	68.35	61.86	58.39
114°	84.57	80.17	72.06	85.27	83.64	74.61	65.57	61.40	73.68	69.28	62.10	57.93
115°	85.27	81.33	71.13	84.80	83.18	75.30	67.66	59.55	68.81	71.36	62.79	58.39
116°	85.27	82.72	70.21	83.41	83.41	76.69	69.28	57.00	66.50	73.68	64.64	60.71
117°	85.27	83.88	69.74	82.95	83.64	78.31	70.21	56.53	65.34	70.90	67.42	63.72
118°	85.27	85.27	72.52	82.02	83.88	79.94	71.36	58.85	62.33	67.42	70.44	66.50
119°	85.03	86.42	75.77	81.10	84.11	81.10	72.52	61.17	59.78	64.64	68.81	69.05
120°	85.03	86.66	76.46	80.17	84.34	82.25	73.91	63.95	60.01	62.10	64.18	68.58
121°	85.03	85.73	76.46	79.24	84.57	82.95	75.30	67.66	61.86	58.16	60.24	64.18
122°	85.03	83.41	77.16	78.31	85.03	83.18	76.92	70.44	63.72	53.52	57.00	60.47
123°	85.27	82.02	78.08	77.39	85.27	83.41	78.55	72.29	65.80	54.91	53.99	57.00
124°	85.50	82.25	80.17	76.46	83.64	83.88	80.40	73.68	67.89	58.16	53.06	53.99
125°	85.50	83.18	82.02	75.30	81.56	84.34	82.25	75.30	70.21	61.86	57.00	53.29
126°	85.50	84.80	83.18	74.84	79.24	84.57	82.95	77.16	72.75	65.80	61.40	57.23
127°	85.50	85.50	84.34	73.91	77.39	84.80	83.41	79.24	75.07	70.44	66.50	61.86
128°	85.50	85.50	85.73	72.99	75.30	85.27	83.64	81.10	76.92	73.68	72.52	67.19
129°	85.50	85.50	86.89	74.14	73.22	83.41	84.11	82.72	78.55	76.00	79.01	73.68
130°	85.73	85.27	86.66	76.00	71.13	80.86	84.34	83.18	80.40	78.55	79.70	79.01
131°	85.73	85.27	86.42	77.85	69.51	78.31	84.80	83.64	82.25	80.63	80.17	79.70
132°	86.19	85.03	86.19	79.70	69.51	76.00	85.27	84.11	82.95	82.02	81.10	80.17
133°	86.42	85.03	85.96	82.02	71.36	74.38	83.41	84.34	83.41	82.72	82.02	81.10
134°	87.12	85.27	85.73	84.34	73.22	74.38	81.33	84.80	83.88	83.88	82.72	82.02
135°	88.51	85.73	86.42	86.89	74.38	74.61	79.47	85.03	84.34	85.27	82.95	82.72
136°	89.90	86.19	88.05	87.35	75.77	74.14	77.85	82.95	84.80	86.66	83.41	83.18
137°	89.90	87.58	89.67	86.89	77.85	74.84	76.46	81.10	85.73	88.05	84.11	83.88
138°	88.74	89.44	90.59	86.42	79.47	76.46	75.30	79.24	84.34	89.67	84.57	84.34
139°	87.58	90.13	91.75	86.66	80.40	78.55	75.30	77.39	82.49	87.58	85.03	84.80
140°	86.42	90.59	92.45	86.42	81.33	81.10	76.92	75.77	80.63	84.34	83.41	84.80
141°	86.19	90.59	92.45	86.42	83.18	83.18	78.55	75.07	78.08	81.33	82.95	82.49
142°	86.66	89.90	90.36	86.89	85.27	85.03	80.40	76.69	75.53	78.31	79.24	80.17
143°	86.19	89.20	88.74	87.35	86.89	86.42	82.25	78.55	75.77	76.00	77.16	78.08
144°	85.96	88.51	88.74	87.81	88.51	87.35	84.34	80.40	77.62	75.30	75.30	76.23
145°	85.73	87.81	88.74	88.74	90.83	88.28	85.96	82.49	79.47	77.39	75.77	74.61
146°	85.50	87.12	90.13	90.59	92.45	89.44	87.12	84.57	81.56	79.24	77.85	76.46

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147°	84.57	86.19	92.68	92.45	92.91	90.59	88.28	86.19	83.88	81.56	79.94	78.55
148°	83.41	87.58	94.07	93.84	93.14	91.75	89.44	87.58	85.96	83.88	82.25	80.86
149°	83.41	88.97	93.14	94.07	93.14	92.91	90.59	88.51	87.12	85.96	84.57	83.41
150°	85.50	88.74	91.98	94.30	93.38	93.14	91.98	89.90	88.51	87.35	86.42	85.73
151°	86.66	88.05	91.06	94.30	93.84	93.38	92.91	91.29	89.67	88.51	87.35	86.19
152°	87.12	87.12	90.13	93.14	94.07	93.38	93.14	92.68	91.06	89.90	88.28	86.42
153°	87.35	86.42	89.20	91.75	94.30	93.84	93.14	93.14	92.45	91.29	88.74	86.66
154°	87.81	86.42	88.28	90.83	93.61	94.07	93.38	93.38	93.14	92.91	89.20	87.12
155°	88.51	86.66	87.35	89.67	92.22	94.30	93.84	93.61	93.14	92.45	89.20	87.58
156°	88.74	87.12	86.42	88.74	91.06	93.38	94.30	93.84	93.38	91.75	88.74	88.05
157°	89.20	87.58	86.42	87.81	89.90	91.75	93.84	94.07	93.84	90.83	88.51	88.05
158°	89.44	88.05	86.89	86.66	88.74	90.36	92.45	94.07	93.84	89.90	88.51	88.51
159°	89.67	88.51	87.35	86.42	87.58	89.20	91.06	92.68	92.45	89.20	88.74	88.74
160°	89.67	88.97	87.81	86.89	86.42	88.28	90.13	91.29	90.13	88.28	88.74	88.97
161°	88.51	89.44	88.28	87.35	86.66	87.35	89.20	90.13	88.28	87.12	87.58	87.81
162°	87.58	89.67	88.74	87.81	87.12	87.12	88.05	88.51	86.66	86.42	86.66	86.89
163°	86.66	89.20	89.44	88.51	87.81	87.58	87.35	86.89	85.27	85.50	85.96	85.96
164°	85.73	88.05	89.67	88.97	88.28	88.05	87.81	86.19	84.34	84.80	85.03	85.27
165°	84.80	86.89	88.74	88.97	88.51	88.51	87.81	86.42	85.50	85.50	84.80	84.57
166°	83.88	85.50	87.12	88.74	88.97	88.97	88.05	86.89	87.35	87.35	86.89	86.42
167°	83.18	84.34	85.73	87.58	89.44	89.44	88.74	88.51	89.44	89.44	88.97	88.51
168°	82.25	83.41	85.03	86.66	88.51	89.67	89.44	90.83	91.98	91.75	91.06	90.83
169°	82.02	83.18	84.57	85.96	87.12	88.28	90.13	93.38	94.77	94.07	93.38	93.14
170°	81.79	82.95	83.88	84.80	85.73	87.12	89.44	91.98	93.61	94.30	95.00	95.23
171°	82.95	82.49	83.18	83.88	84.80	86.19	88.05	89.67	90.59	91.29	91.98	92.22
172°	83.88	82.95	82.49	83.18	83.88	85.03	86.19	87.12	88.05	88.74	89.20	89.44
173°	84.57	83.88	83.18	82.25	82.95	83.64	84.34	85.03	85.73	86.19	86.42	86.66
174°	85.27	84.57	84.11	83.41	82.95	82.49	82.72	83.18	83.64	83.88	84.11	84.34
175°	85.96	85.50	85.03	84.57	84.11	83.64	83.41	82.95	82.72	82.49	82.49	82.25
176°	86.66	86.19	85.96	85.50	85.03	84.80	83.88	84.34	84.11	84.11	84.11	83.88
177°	87.58	87.12	86.89	86.42	86.19	85.96	85.73	85.73	85.50	85.50	85.50	85.50
178°	88.28	88.05	87.81	87.58	87.58	87.35	87.12	87.12	86.89	86.89	86.89	86.89
179°	89.44	89.20	89.20	88.97	88.74	88.74	88.74	88.51	88.51	88.51	88.51	88.28
180°	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36
Gamma	C180°	C185°	C190°	C195°	C200°	C205°	C210°	C215°	C220°	C225°	C230°	C235°
0°	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53
1°	111.45	111.45	111.45	111.22	111.22	111.22	110.98	110.98	110.98	110.98	111.22	111.22
2°	110.06	109.83	109.59	109.36	109.13	109.13	108.90	108.90	108.90	108.90	108.90	108.90
3°	108.90	108.44	108.20	107.74	107.51	107.28	107.05	106.81	106.81	106.81	107.05	107.51
4°	107.51	107.05	106.58	106.12	105.89	105.42	104.50	105.42	105.66	105.89	106.35	106.58
5°	106.12	105.42	104.73	104.27	103.80	103.57	104.03	104.27	104.73	104.96	105.42	105.89
6°	107.05	106.35	105.89	105.19	104.27	103.80	103.34	103.11	103.57	104.03	104.50	104.96
7°	107.97	107.97	107.74	107.28	106.81	106.12	105.42	104.50	103.80	102.87	103.57	104.27
8°	109.36	109.83	110.29	110.29	109.59	108.67	107.74	106.58	105.66	104.50	103.11	103.11
9°	110.75	112.14	113.30	113.30	112.61	111.45	110.29	108.90	107.51	105.89	104.27	102.41
10°	112.14	114.46	116.55	116.55	115.62	114.46	113.07	111.45	109.59	107.51	105.66	103.80
11°	110.75	113.53	116.31	116.78	117.24	117.47	116.08	114.23	112.14	109.83	107.51	105.66
12°	109.36	112.37	114.92	115.39	115.85	116.55	117.24	117.01	114.69	112.14	109.59	107.28
13°	107.97	110.98	113.53	113.76	114.46	114.92	115.39	116.31	117.47	114.69	111.91	108.20
14°	106.58	109.83	111.91	112.37	112.84	113.53	113.30	114.00	116.08	117.70	112.37	108.44
15°	105.42	108.67	110.29	110.75	111.45	111.22	110.75	111.91	114.00	114.46	112.14	108.90
16°	106.58	109.59	110.75	110.52	110.06	108.90	107.97	109.83	111.45	111.68	111.91	110.29
17°	107.51	110.75	111.68	111.22	110.75	107.51	106.12	107.97	109.13	109.83	111.22	111.45
18°	108.44	111.91	112.37	112.14	111.22	107.97	106.35	106.12	107.28	108.90	110.52	112.37
19°	109.59	113.07	113.53	113.07	111.68	109.13	107.74	105.89	106.35	108.44	109.59	111.68
20°	110.98	114.46	114.46	114.00	112.84	110.98	108.90	106.58	106.12	107.05	108.20	111.68
21°	111.22	114.23	114.69	114.69	114.23	112.84	109.59	107.05	106.81	105.19	106.81	111.45

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22°	111.22	113.53	114.00	114.23	114.69	114.69	109.83	107.97	107.28	104.50	105.42	109.36
23°	111.45	112.84	113.30	113.53	114.00	114.23	109.59	108.67	108.67	105.19	103.57	104.96
24°	111.91	112.61	112.84	113.07	113.53	112.84	110.06	110.29	110.98	105.66	100.79	101.25
25°	112.14	112.14	112.37	112.61	113.07	111.91	109.59	112.61	111.45	105.42	99.86	100.33
26°	111.45	111.68	111.91	112.14	112.61	111.68	108.44	113.30	111.68	104.96	100.33	99.40
27°	110.98	110.98	111.22	111.45	111.91	111.45	108.20	112.37	110.52	104.50	101.48	100.33
28°	110.52	110.75	110.75	110.75	111.45	110.29	108.20	110.98	108.67	105.42	102.87	103.11
29°	110.29	110.29	110.52	110.52	110.98	107.97	107.97	110.52	106.35	106.58	104.73	103.57
30°	109.83	109.83	110.06	110.29	110.75	105.42	107.74	109.59	104.96	106.35	106.35	102.64
31°	106.58	107.05	108.44	109.83	110.29	103.80	107.97	107.28	104.73	106.35	106.81	102.41
32°	103.34	104.03	105.42	107.51	109.59	104.03	107.74	104.27	104.50	106.58	107.51	102.64
33°	100.33	101.25	102.64	104.73	105.66	104.73	107.51	102.87	104.50	106.12	107.51	103.34
34°	97.78	98.70	100.33	102.18	101.95	104.50	105.19	102.41	104.50	105.89	107.28	101.72
35°	95.23	96.39	97.78	99.63	99.40	101.72	102.87	102.18	104.27	105.66	106.12	99.17
36°	97.31	97.78	97.08	97.31	97.55	98.94	100.09	101.95	104.50	105.42	102.18	101.02
37°	99.17	99.63	98.70	97.55	95.92	96.39	98.70	101.48	105.42	104.96	98.01	103.57
38°	101.48	101.72	100.56	99.63	94.53	94.07	97.31	100.56	105.19	101.25	100.09	102.64
39°	103.80	103.80	104.03	101.48	94.77	92.91	95.69	100.09	103.80	98.01	102.18	100.09
40°	106.12	105.66	104.96	103.34	95.69	94.53	93.14	98.94	101.72	97.55	100.79	98.70
41°	105.42	105.66	106.81	104.73	97.78	96.39	89.90	95.92	99.40	96.62	98.24	98.24
42°	104.96	105.19	106.58	104.96	100.09	97.78	88.97	93.14	96.39	95.92	97.31	98.01
43°	104.50	104.73	106.12	103.80	102.41	99.40	91.29	91.06	93.14	96.85	97.31	97.55
44°	103.80	104.27	105.66	103.34	101.72	101.25	93.38	89.44	90.83	98.24	96.85	96.85
45°	103.34	103.80	104.96	103.57	100.33	103.34	94.77	89.20	90.13	98.24	95.46	95.69
46°	102.41	102.41	103.80	103.80	98.70	103.34	94.53	90.36	89.20	95.46	94.07	94.30
47°	101.25	100.33	100.33	104.27	97.55	102.64	93.61	92.22	86.19	92.22	93.61	91.98
48°	100.09	98.24	96.62	102.64	98.24	101.02	94.53	93.14	82.49	90.13	92.68	91.06
49°	99.17	96.39	93.38	99.40	99.17	98.94	94.77	92.91	82.49	87.81	90.83	93.14
50°	98.24	94.30	90.59	97.08	98.70	96.85	96.62	92.91	85.96	85.27	89.67	92.91
51°	91.98	89.90	88.28	95.92	96.39	96.16	98.24	94.30	87.35	83.88	89.44	88.74
52°	86.66	85.27	85.73	94.77	94.07	95.00	96.85	95.46	86.66	82.72	87.35	86.42
53°	81.56	80.86	82.49	89.67	91.75	93.38	94.30	94.53	86.89	80.40	84.11	87.81
54°	77.16	77.16	79.01	83.64	89.67	91.98	93.14	93.14	88.28	78.08	82.72	88.05
55°	73.22	74.14	75.30	79.70	86.66	90.59	92.45	93.14	88.51	78.31	82.49	85.27
56°	76.23	74.84	70.67	76.23	81.33	89.20	90.13	93.61	87.12	78.55	80.63	83.41
57°	79.47	77.16	70.67	73.22	76.69	87.58	88.51	93.61	89.44	77.16	79.70	82.72
58°	82.95	79.24	72.99	70.44	73.22	85.73	89.20	92.22	91.98	78.31	77.85	82.02
59°	86.89	81.56	75.77	72.52	70.44	80.17	90.36	89.67	89.67	81.79	75.30	82.02
60°	91.29	84.11	80.17	74.14	66.96	75.07	86.42	86.89	87.58	81.79	72.75	81.79
61°	88.74	83.41	85.27	74.84	64.88	72.99	80.40	84.11	87.35	80.63	70.44	81.56
62°	86.42	81.10	87.35	76.69	69.05	70.21	78.55	83.88	86.19	80.86	69.97	78.31
63°	84.11	78.78	85.50	80.17	73.68	67.66	76.92	83.41	83.41	81.56	69.51	75.53
64°	81.79	76.92	84.57	82.49	73.68	62.33	75.53	82.72	83.88	83.18	70.44	75.07
65°	79.70	75.07	83.88	83.18	74.38	59.08	71.36	79.24	86.42	85.03	69.97	73.68
66°	77.85	73.68	82.25	82.49	76.69	64.64	66.27	75.53	84.34	85.73	68.35	71.60
67°	75.77	73.22	80.40	79.01	79.70	67.89	63.49	77.85	81.33	83.64	69.28	69.97
68°	73.91	72.29	76.46	76.00	79.47	69.05	62.56	78.08	77.62	81.56	69.51	68.12
69°	72.06	71.60	74.14	73.91	79.01	65.80	61.63	76.92	77.39	78.31	67.42	67.42
70°	70.21	70.67	73.45	72.29	77.85	67.42	56.77	71.13	77.39	77.39	67.19	66.96
71°	70.21	70.21	72.29	70.44	75.30	72.29	54.91	68.81	76.92	77.39	68.81	65.57
72°	69.97	70.67	71.83	68.58	71.36	77.39	56.77	67.42	76.00	75.07	69.74	64.41
73°	69.74	70.44	71.13	66.96	69.97	78.08	57.93	65.57	73.22	74.38	69.74	62.79
74°	69.28	69.97	68.35	66.27	71.60	72.29	57.46	62.56	69.05	76.46	66.27	60.24
75°	69.05	69.51	66.50	69.28	69.97	70.90	59.08	58.62	71.36	72.29	65.34	57.23
76°	70.90	69.28	64.41	68.35	64.41	70.44	60.01	55.38	71.36	70.44	67.19	58.39
77°	72.99	70.21	63.49	67.19	64.18	70.44	58.62	55.14	69.74	71.60	67.19	59.55
78°	74.84	70.90	67.42	62.33	63.95	69.97	58.62	57.46	66.50	73.45	66.73	57.00

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79°	77.16	71.83	70.44	62.10	65.34	68.58	60.24	52.36	65.80	72.75	66.50	57.00
80°	79.70	72.52	69.74	61.63	65.11	66.50	60.94	48.43	66.03	67.42	67.89	59.55
81°	76.69	73.91	64.88	61.63	62.10	60.24	62.79	47.73	67.19	67.89	68.35	55.61
82°	73.68	78.55	64.64	62.33	60.71	59.78	64.41	47.50	63.25	67.89	65.80	51.67
83°	70.90	76.23	65.80	60.47	58.62	64.18	65.80	46.57	62.10	68.35	63.02	50.97
84°	68.12	72.06	66.96	60.94	59.32	64.18	63.02	46.11	60.47	68.12	61.17	50.51
85°	65.57	67.89	68.12	61.17	55.38	62.79	63.95	45.64	58.39	68.35	65.11	50.51
86°	61.17	66.96	69.28	60.94	54.45	57.93	63.49	43.10	62.79	67.66	66.96	50.97
87°	57.23	70.44	68.58	60.94	58.39	57.69	62.33	39.85	61.63	64.18	66.96	51.21
88°	53.52	68.58	71.83	61.40	60.47	56.77	63.25	39.39	60.01	61.63	63.95	51.21
89°	50.28	63.25	72.06	60.71	60.47	56.30	63.25	43.33	59.08	60.47	62.56	51.21
90°	47.50	63.02	72.29	52.60	60.47	61.86	63.25	43.33	59.08	60.47	62.56	51.21
91°	50.28	63.25	72.06	61.17	60.47	56.53	63.25	43.33	60.24	60.47	65.80	51.21
92°	53.75	68.58	71.83	61.40	60.47	57.46	63.25	39.39	62.10	61.86	67.19	51.21
93°	57.46	69.28	69.28	61.17	60.24	57.69	68.12	42.40	63.25	64.18	67.19	51.21
94°	61.40	69.28	69.28	60.47	56.53	57.69	63.49	45.41	63.49	67.66	63.95	50.97
95°	65.57	65.11	68.35	60.94	55.61	62.79	61.40	45.88	63.49	68.35	63.02	50.51
96°	66.73	63.72	67.42	60.94	57.69	63.72	62.79	46.11	62.56	68.35	65.11	50.51
97°	67.89	63.25	66.73	60.71	60.24	64.64	63.02	46.57	62.10	68.35	65.34	51.90
98°	69.51	62.79	59.08	60.47	60.24	65.11	64.18	51.44	62.33	67.66	65.57	55.14
99°	70.90	64.64	61.40	60.47	58.62	65.57	62.79	49.35	62.33	67.66	65.80	56.30
100°	72.29	64.18	55.38	56.77	58.62	64.88	61.17	48.89	65.80	67.42	68.35	57.00
101°	66.96	61.17	52.83	57.23	60.94	62.79	59.32	49.58	68.12	68.12	70.21	55.84
102°	62.56	58.16	52.36	58.85	61.86	63.95	57.46	50.05	68.81	69.51	67.89	56.77
103°	58.85	58.85	51.90	57.69	60.47	66.03	57.23	50.51	67.42	72.75	66.73	59.55
104°	55.61	58.39	51.44	52.36	62.10	68.81	57.93	52.13	66.03	74.84	66.27	60.24
105°	52.60	56.30	51.21	52.83	63.02	69.74	56.53	56.77	65.80	74.61	67.66	60.24
106°	53.99	54.68	50.74	52.83	58.39	70.67	54.91	61.17	67.19	72.75	68.58	61.40
107°	55.38	53.29	50.51	53.75	60.01	71.60	53.52	62.79	69.74	72.52	69.51	63.02
108°	57.00	52.60	50.97	54.91	61.63	68.58	51.90	64.64	71.83	72.52	67.42	65.57
109°	58.62	51.90	52.13	56.07	63.49	63.49	50.51	66.50	74.14	72.99	64.88	64.64
110°	60.47	52.83	53.52	57.23	65.34	59.78	51.90	68.81	74.61	74.38	63.95	63.02
111°	61.17	54.91	54.68	59.08	67.42	56.77	49.82	70.44	75.07	73.68	63.25	62.33
112°	61.86	57.23	56.07	60.94	69.74	53.75	50.51	70.90	75.53	70.44	63.02	62.10
113°	62.33	59.55	57.46	63.25	71.13	50.97	52.60	71.36	75.77	71.60	61.63	63.95
114°	62.79	61.86	59.55	65.57	66.96	49.58	55.84	71.83	75.53	73.68	60.94	65.57
115°	63.25	63.72	62.10	68.12	63.25	50.74	59.08	72.29	75.30	73.45	62.33	66.03
116°	64.64	64.18	65.34	70.90	59.78	51.90	62.79	72.99	75.07	72.99	63.95	67.19
117°	66.03	64.88	68.58	68.35	56.77	53.99	66.96	73.45	74.84	72.29	66.27	68.12
118°	67.42	66.50	71.13	63.95	53.99	56.53	70.44	74.14	74.61	71.83	67.42	69.28
119°	69.05	68.35	69.28	60.01	51.44	59.08	71.13	74.84	74.61	71.13	67.66	70.21
120°	70.44	68.58	65.11	56.53	52.13	62.10	71.83	75.53	74.84	70.67	67.66	70.44
121°	65.80	65.11	61.40	54.22	54.68	65.57	72.29	76.00	76.23	69.97	68.12	70.67
122°	61.63	61.63	57.23	52.60	57.69	69.28	72.99	76.00	77.62	69.51	68.12	71.13
123°	58.16	58.39	52.60	56.30	61.17	71.13	73.91	76.46	77.85	69.28	68.58	71.36
124°	54.91	55.38	49.82	59.08	66.73	71.60	74.84	76.69	75.77	68.81	70.21	71.60
125°	52.13	54.22	51.67	61.86	74.14	72.06	76.69	77.85	73.68	66.27	72.06	72.52
126°	55.84	57.23	56.30	64.64	76.23	72.52	79.70	80.17	71.60	63.02	74.61	73.91
127°	59.78	60.94	60.71	67.66	76.00	73.45	80.40	81.56	69.51	63.72	76.23	75.30
128°	64.64	65.34	64.88	69.97	76.00	74.14	79.24	82.72	68.81	65.11	77.39	76.69
129°	69.97	70.44	68.81	72.06	76.00	74.61	78.78	81.10	69.51	66.50	79.01	77.62
130°	76.46	75.07	71.13	74.84	76.00	75.07	78.31	78.55	68.81	67.66	79.01	78.55
131°	77.62	75.53	73.68	77.62	76.46	75.53	77.16	76.00	67.19	69.97	79.01	79.01
132°	78.78	76.00	76.69	80.86	78.08	77.16	77.39	73.68	66.73	71.13	78.78	79.24
133°	80.17	76.46	80.17	83.88	79.47	79.01	75.30	71.13	67.89	71.60	77.62	78.78
134°	81.33	77.16	83.41	83.41	80.86	80.86	74.14	68.81	69.51	72.29	76.23	78.31
135°	82.72	77.85	84.11	83.41	81.56	81.33	73.91	67.19	70.90	74.84	76.00	78.31

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136°	83.18	79.24	84.34	83.18	82.02	79.01	73.91	66.96	72.29	77.85	76.46	78.31
137°	83.64	80.63	84.57	83.64	81.33	76.69	71.83	68.35	74.14	78.78	78.08	78.31
138°	84.34	82.25	84.80	84.34	79.47	74.84	68.81	71.83	75.77	78.31	81.33	78.78
139°	84.80	83.88	85.27	83.41	78.08	72.75	68.58	75.77	77.62	77.85	82.49	79.94
140°	85.27	84.80	82.72	81.79	77.62	70.90	71.13	78.31	78.55	77.39	80.17	81.56
141°	82.72	82.25	81.56	79.94	76.46	69.97	73.68	78.31	80.40	77.62	79.01	81.79
142°	80.17	79.70	76.00	77.85	75.07	71.83	75.77	78.55	82.72	79.94	79.70	81.56
143°	77.85	77.39	72.99	75.77	75.77	74.61	77.85	80.63	84.34	82.95	80.63	82.49
144°	75.77	75.53	70.21	75.53	77.85	78.08	80.17	82.72	84.11	84.57	83.64	84.57
145°	73.68	73.91	70.44	77.62	79.94	82.02	82.02	85.03	84.57	85.03	85.50	85.27
146°	75.77	75.30	72.99	79.70	82.25	85.73	82.49	85.50	86.89	84.57	85.03	83.88
147°	78.08	76.69	75.30	81.56	84.80	86.66	82.95	85.27	89.20	83.64	83.18	82.49
148°	80.40	78.08	77.85	84.34	86.89	86.42	84.11	85.27	89.90	82.95	81.56	80.40
149°	83.18	79.70	80.40	86.89	86.66	85.96	84.80	85.73	87.81	84.57	80.63	78.78
150°	85.73	81.33	82.49	87.58	86.89	85.50	85.27	85.27	86.42	86.19	80.40	78.78
151°	86.19	82.49	84.11	88.28	87.58	85.27	85.03	85.27	85.96	85.96	81.56	79.24
152°	86.89	83.64	85.73	88.74	88.51	85.03	85.27	85.50	85.96	85.50	82.25	79.94
153°	87.35	84.80	87.58	89.20	89.90	85.73	85.50	85.96	85.96	85.50	82.72	79.70
154°	88.05	85.96	89.67	90.13	90.59	87.58	86.19	86.66	85.96	85.03	83.64	81.33
155°	88.97	87.12	90.83	89.90	91.06	89.67	87.35	87.12	85.27	85.03	84.57	84.11
156°	88.97	87.12	90.36	89.67	91.06	91.98	88.74	86.19	84.11	84.11	84.34	86.19
157°	88.97	87.35	89.90	89.44	90.59	94.30	89.67	84.80	82.72	82.49	84.80	86.89
158°	88.97	87.81	89.67	89.44	90.13	94.30	88.74	83.88	81.33	80.17	84.11	87.35
159°	88.97	88.51	89.20	88.97	89.44	91.06	88.05	82.49	79.94	79.94	83.64	87.35
160°	88.97	88.97	88.51	88.05	87.81	88.51	87.58	81.56	78.78	80.63	84.11	87.58
161°	88.05	87.58	87.35	86.89	86.42	86.42	86.19	81.56	79.70	82.02	85.03	88.28
162°	87.12	86.42	86.19	85.96	85.50	85.03	84.34	82.49	81.56	83.64	86.42	89.44
163°	86.19	85.50	85.27	84.80	84.34	83.88	84.11	84.80	84.34	85.27	87.81	89.20
164°	85.03	84.57	84.11	83.88	83.41	84.57	85.96	86.66	86.42	87.35	89.44	88.28
165°	84.34	83.88	83.88	84.57	85.27	86.42	88.05	88.74	88.51	88.97	89.20	87.35
166°	86.42	85.96	85.96	86.66	87.58	88.74	90.13	91.52	91.06	89.90	88.05	86.42
167°	88.51	88.28	88.28	88.97	89.90	91.06	92.45	93.84	94.07	90.13	87.12	85.50
168°	90.83	90.59	90.59	91.29	92.22	93.38	94.53	94.77	92.91	89.90	86.89	84.80
169°	93.14	93.14	93.38	93.84	94.53	95.23	93.84	92.22	90.59	88.74	86.42	84.57
170°	95.46	95.23	95.00	94.53	93.61	92.45	91.29	89.90	88.28	86.66	85.27	83.64
171°	92.45	92.45	91.98	91.52	90.83	89.90	88.74	87.58	86.42	85.03	83.88	82.49
172°	89.44	89.44	89.20	88.97	88.28	87.58	86.66	85.73	84.57	83.64	82.49	82.95
173°	86.66	86.66	86.66	86.19	85.96	85.27	84.57	83.88	82.95	82.25	82.95	83.88
174°	84.34	84.34	84.11	83.88	83.64	83.18	82.72	82.49	82.95	83.41	84.11	84.57
175°	82.25	82.25	82.49	82.49	82.72	82.95	83.41	83.64	84.11	84.57	85.03	85.27
176°	83.88	83.88	84.11	84.11	84.34	84.34	83.88	85.03	85.27	85.50	85.96	86.19
177°	85.50	85.50	85.50	85.50	85.73	85.73	85.96	86.19	86.42	86.66	86.89	87.35
178°	86.89	86.89	86.89	86.89	86.89	87.12	87.35	87.35	87.58	87.81	88.05	88.28
179°	88.28	88.28	88.51	88.51	88.51	88.51	88.74	88.74	88.97	88.97	89.20	89.20
180°	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36
Gamma	C240°	C245°	C250°	C255°	C260°	C265°	C270°	C275°	C280°	C285°	C290°	C295°
0°	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53
1°	111.22	111.45	111.45	111.45	111.68	111.91	112.14	111.91	111.68	111.45	111.45	111.45
2°	108.90	109.13	109.36	109.59	109.83	110.29	110.52	110.29	109.83	109.59	109.36	109.13
3°	107.74	108.20	108.67	109.13	109.59	110.06	110.52	110.06	109.59	109.13	108.67	108.20
4°	107.05	107.51	108.20	108.67	109.36	109.83	110.52	109.83	109.36	108.67	108.20	107.51
5°	106.35	106.81	107.51	108.20	108.90	109.59	110.52	109.59	108.90	108.20	107.51	106.81
6°	105.66	106.12	106.81	107.74	108.44	109.59	110.52	109.59	108.44	107.74	106.81	106.12
7°	104.96	105.42	106.12	107.05	107.97	109.13	110.52	109.13	107.97	107.05	106.12	105.42
8°	103.80	104.50	105.42	106.35	107.51	108.90	110.52	108.90	107.51	106.35	105.42	104.50
9°	102.64	103.80	104.96	106.12	107.28	108.90	110.52	108.90	107.28	106.12	104.96	103.80
10°	102.18	103.57	104.96	106.12	107.51	108.90	110.52	108.90	107.51	106.12	104.96	103.57

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11°	103.80	103.34	104.73	106.12	107.28	108.90	110.52	108.90	107.28	106.12	104.73	103.34
12°	104.96	102.87	104.27	105.66	107.05	108.67	110.52	108.67	107.05	105.66	104.27	102.87
13°	105.42	103.57	103.80	105.19	106.81	108.44	110.52	108.44	106.81	105.19	103.80	103.57
14°	105.89	104.03	103.34	104.96	106.58	108.20	110.52	108.20	106.58	104.96	103.34	104.03
15°	106.81	104.96	103.11	104.27	105.42	106.35	107.74	106.35	105.42	104.27	103.11	104.96
16°	107.97	105.66	103.57	103.57	104.27	104.50	104.96	104.50	104.27	103.57	103.57	105.66
17°	109.13	106.35	104.03	102.18	102.87	103.80	105.66	103.80	102.87	102.18	104.03	106.35
18°	110.29	107.05	102.87	99.63	101.02	103.11	106.35	103.11	101.02	99.63	102.87	107.05
19°	112.84	108.44	102.41	97.55	100.33	103.57	107.74	103.57	100.33	97.55	102.41	108.44
20°	116.78	109.59	101.95	96.39	99.63	103.80	109.13	103.80	99.63	96.39	101.95	109.59
21°	116.08	108.44	101.02	97.08	99.63	102.41	105.66	102.41	99.63	97.08	101.02	108.44
22°	110.75	106.81	102.18	99.40	100.09	101.02	101.95	101.02	100.09	99.40	102.18	106.81
23°	106.58	107.97	103.80	100.33	98.94	99.86	101.95	99.86	98.94	100.33	103.80	107.97
24°	105.42	108.44	103.57	98.47	96.62	98.47	101.95	98.47	96.62	98.47	103.57	108.44
25°	104.27	108.20	103.34	97.31	95.69	98.70	102.64	98.70	95.69	97.31	103.34	108.20
26°	104.50	107.97	104.27	98.01	95.69	99.17	103.34	99.17	95.69	98.01	104.27	107.97
27°	104.96	107.51	105.89	98.94	95.69	99.17	103.34	99.17	95.69	98.94	105.89	107.51
28°	103.80	106.58	107.28	100.09	95.92	99.40	103.34	99.40	95.92	100.09	107.28	106.58
29°	101.48	105.42	108.20	100.79	95.92	99.40	103.34	99.40	95.92	100.79	108.20	105.42
30°	99.40	104.03	107.97	100.33	95.69	99.40	103.34	99.40	95.69	100.33	107.97	104.03
31°	97.55	101.95	105.42	99.40	94.53	96.39	99.17	96.39	94.53	99.40	105.42	101.95
32°	97.31	99.63	103.11	98.24	92.68	93.14	94.77	93.14	92.68	98.24	103.11	99.63
33°	96.85	98.24	101.72	97.31	92.45	94.30	97.78	94.30	92.45	97.31	101.72	98.24
34°	96.62	97.31	100.56	97.78	93.14	95.69	100.56	95.69	93.14	97.78	100.56	97.31
35°	97.78	96.16	99.17	98.24	91.98	93.38	97.78	93.38	91.98	98.24	99.17	96.16
36°	98.70	94.07	98.01	97.78	89.90	90.36	94.77	90.36	89.90	97.78	98.01	94.07
37°	97.31	92.68	97.78	97.55	88.97	90.13	95.46	90.13	88.97	97.55	97.78	92.68
38°	95.92	93.38	97.08	96.62	88.97	90.36	96.16	90.36	88.97	96.62	97.08	93.38
39°	97.08	93.38	94.07	95.23	88.97	89.20	94.77	89.20	88.97	95.23	94.07	93.38
40°	97.78	91.52	92.68	98.24	89.20	88.05	93.38	88.05	89.20	98.24	92.68	91.52
41°	98.24	90.83	95.00	101.25	88.51	86.66	89.90	86.66	88.51	101.25	95.00	90.83
42°	99.17	93.38	95.92	96.85	86.89	85.03	86.19	85.03	86.89	96.85	95.92	93.38
43°	98.94	94.30	92.45	91.98	85.96	84.34	89.90	84.34	85.96	91.98	92.45	94.30
44°	97.31	92.22	89.44	94.53	85.96	83.64	93.38	83.64	85.96	94.53	89.44	92.22
45°	94.77	90.13	86.89	96.62	86.66	84.57	90.59	84.57	86.66	96.62	86.89	90.13
46°	92.22	88.74	84.80	94.07	87.81	85.96	87.58	85.96	87.81	94.07	84.80	88.74
47°	92.45	88.05	85.73	91.98	86.89	83.41	88.97	83.41	86.89	91.98	85.73	88.05
48°	93.38	89.44	86.19	91.06	84.80	80.40	90.36	80.40	84.80	91.06	86.19	89.44
49°	91.98	89.90	83.41	89.90	83.64	79.47	87.58	79.47	83.64	89.90	83.41	89.90
50°	90.13	88.97	82.02	88.51	83.18	78.78	84.80	78.78	83.18	88.51	82.02	88.97
51°	89.20	88.28	82.72	87.35	83.18	78.31	82.72	78.31	83.18	87.35	82.72	88.28
52°	88.51	88.51	82.72	86.42	83.41	77.85	80.40	77.85	83.41	86.42	82.72	88.51
53°	88.28	88.05	81.10	85.27	83.64	77.39	81.79	77.39	83.64	85.27	81.10	88.05
54°	88.05	86.42	79.94	85.50	83.88	76.69	83.18	76.69	83.88	85.50	79.94	86.42
55°	88.05	85.27	80.63	85.27	81.79	73.45	79.70	73.45	81.79	85.27	80.63	85.27
56°	88.51	85.27	80.40	81.56	78.08	69.97	76.00	69.97	78.08	81.56	80.40	85.27
57°	86.66	84.34	78.08	78.31	77.39	72.29	76.92	72.29	77.39	78.31	78.08	84.34
58°	84.57	82.02	77.16	78.31	78.55	75.30	77.62	75.30	78.55	78.31	77.16	82.02
59°	82.25	80.86	78.08	78.31	78.55	73.22	77.62	73.22	78.55	78.31	78.08	80.86
60°	80.86	81.33	78.08	76.69	78.31	70.90	77.62	70.90	78.31	76.69	78.08	81.33
61°	80.17	81.10	76.92	75.30	77.39	66.96	76.23	66.96	77.39	75.30	76.92	81.10
62°	79.24	80.63	75.77	73.68	76.23	63.02	74.61	63.02	76.23	73.68	75.77	80.63
63°	78.31	79.70	74.61	72.29	76.23	64.41	71.83	64.41	76.23	72.29	74.61	79.70
64°	77.16	79.01	73.45	71.83	76.69	66.73	69.05	66.73	76.69	71.83	73.45	79.01
65°	76.00	77.62	72.06	71.13	74.84	64.64	72.52	64.64	74.84	71.13	72.06	77.62
66°	75.77	76.00	71.36	68.81	71.83	62.56	76.00	62.56	71.83	68.81	71.36	76.00
67°	75.77	76.46	71.13	67.19	71.36	63.49	71.83	63.49	71.36	67.19	71.13	76.46

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68°	76.00	77.39	71.36	66.96	72.52	64.88	67.42	64.88	72.52	66.96	71.36	77.39
69°	75.53	74.38	71.60	66.73	72.52	61.86	64.64	61.86	72.52	66.73	71.60	74.38
70°	72.29	71.36	69.28	65.57	72.06	58.39	61.86	58.39	72.06	65.57	69.28	71.36
71°	69.97	70.44	65.80	64.64	70.67	58.85	64.64	58.85	70.67	64.64	65.80	70.44
72°	70.44	70.21	67.42	63.95	69.05	59.55	67.42	59.55	69.05	63.95	67.42	70.21
73°	70.44	70.90	69.74	62.33	69.05	59.55	63.95	59.55	69.05	62.33	69.74	70.90
74°	70.44	69.97	67.19	60.01	69.74	59.32	60.24	59.32	69.74	60.01	67.19	69.97
75°	68.12	66.27	65.11	60.01	67.89	57.93	59.55	57.93	67.89	60.01	65.11	66.27
76°	65.11	66.03	68.81	62.56	65.34	56.53	58.85	56.53	65.34	62.56	68.81	66.03
77°	68.12	68.35	70.67	61.40	65.11	53.75	58.85	53.75	65.11	61.40	70.67	68.35
78°	69.97	66.73	65.80	57.00	65.80	50.97	58.85	50.97	65.80	57.00	65.80	66.73
79°	64.64	63.49	62.56	55.61	64.18	51.44	59.55	51.44	64.18	55.61	62.56	63.49
80°	61.86	66.27	62.56	55.84	62.10	52.13	60.24	52.13	62.10	55.84	62.56	66.27
81°	62.10	68.81	63.02	56.07	61.86	50.74	58.85	50.74	61.86	56.07	63.02	68.81
82°	60.24	64.18	63.72	56.07	61.86	49.12	57.46	49.12	61.86	56.07	63.72	64.18
83°	57.69	60.71	63.95	53.06	60.01	48.43	54.68	48.43	60.01	53.06	63.95	60.71
84°	60.24	60.47	63.95	49.12	57.69	47.73	51.67	47.73	57.69	49.12	63.95	60.47
85°	62.56	60.71	61.17	50.28	60.01	45.64	54.68	45.64	60.01	50.28	61.17	60.71
86°	62.56	61.40	57.00	52.60	63.02	43.56	57.46	43.56	63.02	52.60	57.00	61.40
87°	61.17	61.63	57.93	50.74	61.63	46.11	54.68	46.11	61.63	50.74	57.93	61.63
88°	58.16	61.63	60.71	48.43	60.01	48.89	51.67	48.89	60.01	48.43	60.71	61.63
89°	55.84	61.63	61.17	48.19	60.01	48.89	51.67	48.89	60.01	48.19	61.17	61.63
90°	53.75	61.63	61.17	48.19	60.01	48.89	51.67	48.89	60.01	48.19	61.17	61.63
91°	55.84	61.63	58.39	50.51	61.63	46.34	54.68	46.34	61.63	50.51	58.39	61.63
92°	58.16	61.40	56.30	52.83	63.25	43.56	57.46	43.56	63.25	52.83	56.30	61.40
93°	61.17	60.94	60.94	50.74	63.25	45.64	53.99	45.64	63.25	50.74	60.94	60.94
94°	62.56	60.47	64.18	49.58	63.25	47.73	50.28	47.73	63.25	49.58	64.18	60.47
95°	62.56	60.47	64.18	53.29	62.56	48.43	53.06	48.43	62.56	53.29	64.18	60.47
96°	59.78	60.94	64.18	55.84	61.86	48.89	55.84	48.89	61.86	55.84	64.18	60.94
97°	56.77	61.63	64.18	56.07	61.86	50.51	56.77	50.51	61.86	56.07	64.18	61.63
98°	60.01	64.88	63.72	56.77	62.10	52.13	57.46	52.13	62.10	56.77	63.72	64.88
99°	62.10	69.05	63.25	59.32	64.88	51.44	58.85	51.44	64.88	59.32	63.25	69.05
100°	61.86	66.27	63.02	60.01	66.73	50.97	60.24	50.97	66.73	60.01	63.02	66.27
101°	63.72	63.49	62.56	57.00	64.64	53.75	59.55	53.75	64.64	57.00	62.56	63.49
102°	67.19	66.50	64.64	56.30	63.02	56.30	58.85	56.30	63.02	56.30	64.64	66.50
103°	67.19	68.58	67.89	59.32	63.95	56.53	61.86	56.53	63.95	59.32	67.89	68.58
104°	66.73	68.35	67.19	61.86	65.34	56.53	64.64	56.53	65.34	61.86	67.19	68.35
105°	66.03	68.12	65.80	63.49	67.66	56.53	61.86	56.53	67.66	63.49	65.80	68.12
106°	66.27	68.12	67.66	63.95	69.51	56.53	58.85	56.53	69.51	63.95	67.66	68.12
107°	69.05	69.28	69.74	63.72	69.51	58.16	63.25	58.16	69.51	63.72	69.74	69.28
108°	70.44	70.90	69.51	63.72	69.51	59.78	67.42	59.78	69.51	63.72	69.51	70.90
109°	70.44	71.36	69.51	63.72	69.28	62.56	67.42	62.56	69.28	63.72	69.51	71.36
110°	71.36	71.13	69.74	65.11	69.05	64.64	67.42	64.64	69.05	65.11	69.74	71.13
111°	72.75	72.75	69.97	67.19	68.81	61.63	70.44	61.63	68.81	67.19	69.97	72.75
112°	70.44	73.91	68.58	67.19	69.74	58.85	73.22	58.85	69.74	67.19	68.58	73.91
113°	68.12	72.52	67.42	66.27	72.99	58.85	69.74	58.85	72.99	66.27	67.42	72.52
114°	69.05	71.36	67.66	66.27	75.30	58.85	66.03	58.85	75.30	66.27	67.66	71.36
115°	69.51	71.13	68.12	66.50	75.53	61.40	66.03	61.40	75.53	66.50	68.12	71.13
116°	69.74	71.36	69.74	68.81	75.07	63.72	66.03	63.72	75.07	68.81	69.74	71.36
117°	70.67	73.68	71.60	71.13	72.75	64.18	69.05	64.18	72.75	71.13	71.60	73.68
118°	72.75	76.00	73.68	71.60	71.36	64.41	71.83	64.41	71.36	71.60	73.68	76.00
119°	73.91	77.62	74.38	71.36	70.67	65.11	72.52	65.11	70.67	71.36	74.38	77.62
120°	74.38	78.31	74.14	71.36	69.97	65.57	73.22	65.57	69.97	71.36	74.14	78.31
121°	74.84	78.78	73.68	71.36	69.05	63.25	73.22	63.25	69.05	71.36	73.68	78.78
122°	75.30	79.01	73.45	72.75	69.51	61.63	73.22	61.63	69.51	72.75	73.45	79.01
123°	75.53	79.24	73.22	74.14	72.52	65.34	73.22	65.34	72.52	74.14	73.22	79.24
124°	75.77	79.47	72.75	74.61	74.14	68.81	73.22	68.81	74.14	74.61	72.75	79.47

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125°	76.00	79.70	72.29	74.84	73.68	68.12	71.83	68.12	73.68	74.84	72.29	79.70
126°	76.23	79.94	71.83	75.07	73.22	67.42	70.44	67.42	73.22	75.07	71.83	79.94
127°	75.77	79.01	69.97	75.30	72.99	67.42	70.44	67.42	72.99	75.30	69.97	79.01
128°	74.84	76.23	67.42	74.61	72.75	67.42	70.44	67.42	72.75	74.61	67.42	76.23
129°	74.84	73.22	66.27	73.91	72.52	67.42	70.44	67.42	72.52	73.91	66.27	73.22
130°	74.84	72.29	65.57	74.38	72.06	67.42	70.44	67.42	72.06	74.38	65.57	72.29
131°	76.92	71.83	66.96	74.84	71.83	68.12	73.22	68.12	71.83	74.84	66.96	71.83
132°	78.78	72.99	69.05	75.77	71.60	68.81	76.00	68.81	71.60	75.77	69.05	72.99
133°	78.78	74.14	69.97	76.69	71.13	68.81	75.30	68.81	71.13	76.69	69.97	74.14
134°	78.78	73.68	70.21	77.16	70.90	68.81	74.61	68.81	70.90	77.16	70.21	73.68
135°	78.78	73.22	70.67	77.62	70.44	68.81	74.61	68.81	70.44	77.62	70.67	73.22
136°	78.78	74.14	71.36	78.08	70.21	69.05	74.61	69.05	70.21	78.08	71.36	74.14
137°	78.78	75.53	73.68	78.31	69.97	69.74	77.62	69.74	69.97	78.31	73.68	75.53
138°	78.31	75.30	76.92	80.17	69.74	70.44	80.40	70.44	69.74	80.17	76.92	75.30
139°	78.55	74.38	78.08	81.10	69.51	69.05	76.92	69.05	69.51	81.10	78.08	74.38
140°	79.01	75.07	79.01	83.18	70.44	68.35	73.22	68.35	70.44	83.18	79.01	75.07
141°	79.24	76.46	80.63	85.03	73.22	71.83	76.92	71.83	73.22	85.03	80.63	76.46
142°	79.24	76.69	82.49	84.80	75.30	75.30	80.40	75.30	75.30	84.80	82.49	76.69
143°	79.01	76.92	82.25	84.34	76.23	76.69	81.79	76.69	76.23	84.34	82.25	76.92
144°	78.55	77.39	80.86	82.02	76.69	78.08	83.18	78.08	76.69	82.02	80.86	77.39
145°	78.78	78.31	81.56	79.70	76.00	77.16	80.40	77.16	76.00	79.70	81.56	78.31
146°	78.78	79.01	83.64	80.40	75.53	76.23	77.62	76.23	75.53	80.40	83.64	79.01
147°	77.85	79.70	84.80	80.86	74.84	76.69	79.70	76.69	74.84	80.86	84.80	79.70
148°	76.69	80.40	85.50	80.17	74.14	77.39	81.79	77.39	74.14	80.17	85.50	80.40
149°	76.23	80.86	86.19	79.70	73.91	77.39	81.79	77.39	73.91	79.70	86.19	80.86
150°	77.39	81.56	85.96	79.01	73.68	77.16	81.79	77.16	73.68	79.01	85.96	81.56
151°	79.01	82.95	85.50	78.31	73.91	77.62	81.79	77.62	73.91	78.31	85.50	82.95
152°	80.86	84.34	85.50	79.47	75.07	77.85	81.79	77.85	75.07	79.47	85.50	84.34
153°	82.72	85.50	85.50	81.10	77.85	79.24	81.79	79.24	77.85	81.10	85.50	85.50
154°	85.03	86.89	84.80	81.33	79.70	80.63	81.79	80.63	79.70	81.33	84.80	86.89
155°	88.28	91.75	84.80	81.10	80.17	82.25	84.80	82.25	80.17	81.10	84.80	91.75
156°	89.44	95.92	85.03	79.47	79.94	83.41	87.58	83.41	79.94	79.47	85.03	95.92
157°	89.44	91.52	84.11	76.92	77.39	81.10	85.50	81.10	77.39	76.92	84.11	91.52
158°	89.67	87.81	82.02	76.00	76.00	79.01	83.18	79.01	76.00	76.00	82.02	87.81
159°	89.67	85.73	80.40	75.77	76.92	79.47	83.18	79.47	76.92	75.77	80.40	85.73
160°	89.44	83.64	79.01	74.84	77.16	79.94	83.18	79.94	77.16	74.84	79.01	83.64
161°	88.51	83.41	77.62	74.14	76.69	79.24	82.49	79.24	76.69	74.14	77.62	83.41
162°	88.05	84.57	80.17	76.92	77.62	79.01	81.79	79.01	77.62	76.92	80.17	84.57
163°	87.12	84.80	82.95	81.33	82.25	83.64	86.19	83.64	82.25	81.33	82.95	84.80
164°	86.19	84.34	82.72	83.64	85.73	87.81	90.36	87.81	85.73	83.64	82.72	84.34
165°	85.50	83.88	82.25	84.11	85.96	87.81	90.36	87.81	85.96	84.11	82.25	83.88
166°	84.80	83.18	82.72	84.34	86.19	88.05	90.36	88.05	86.19	84.34	82.72	83.18
167°	84.11	82.72	83.18	84.80	86.42	88.28	90.36	88.28	86.42	84.80	83.18	82.72
168°	83.41	82.25	83.64	85.27	86.66	88.28	90.36	88.28	86.66	85.27	83.64	82.25
169°	82.95	82.72	84.11	85.50	86.89	88.51	90.36	88.51	86.89	85.50	84.11	82.72
170°	82.25	83.41	84.57	85.96	87.35	88.74	90.36	88.74	87.35	85.96	84.57	83.41
171°	83.18	84.11	85.27	86.19	87.58	88.74	90.36	88.74	87.58	86.19	85.27	84.11
172°	83.88	84.80	85.73	86.66	87.81	88.97	90.36	88.97	87.81	86.66	85.73	84.80
173°	84.57	85.27	86.19	87.12	88.05	89.20	90.36	89.20	88.05	87.12	86.19	85.27
174°	85.27	85.96	86.66	87.58	88.28	89.44	90.36	89.44	88.28	87.58	86.66	85.96
175°	85.96	86.42	87.12	87.81	88.74	89.44	90.36	89.44	88.74	87.81	87.12	86.42
176°	86.66	87.12	87.81	88.28	88.97	89.67	90.36	89.67	88.97	88.28	87.81	87.12
177°	87.58	88.05	88.51	88.97	89.44	89.90	90.36	89.90	89.44	88.97	88.51	88.05
178°	88.51	88.74	89.20	89.44	89.67	90.13	90.36	90.13	89.67	89.44	89.20	88.74
179°	89.44	89.44	89.67	89.90	90.13	90.13	90.36	90.13	90.13	89.90	89.67	89.44
180°	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36
Gamma	C300°	C305°	C310°	C315°	C320°	C325°	C330°	C335°	C340°	C345°	C350°	C355°

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0°	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53	113.53
1°	111.22	111.22	111.22	110.98	110.98	110.98	110.98	111.22	111.22	111.22	111.45	111.45
2°	108.90	108.90	108.90	108.90	108.90	108.90	108.90	109.13	109.13	109.36	109.59	109.83
3°	107.74	107.51	107.05	106.81	106.81	106.81	107.05	107.28	107.51	107.74	108.20	108.44
4°	107.05	106.58	106.35	105.89	105.66	105.42	105.89	105.42	105.89	106.12	106.58	107.05
5°	106.35	105.89	105.42	104.96	104.73	104.27	104.03	103.57	103.80	104.27	104.73	105.42
6°	105.66	104.96	104.50	104.03	103.57	103.11	103.34	103.80	104.27	105.19	105.89	106.35
7°	104.96	104.27	103.57	102.87	103.80	104.50	105.42	106.12	106.81	107.28	107.74	107.97
8°	103.80	103.11	103.11	104.50	105.66	106.58	107.74	108.67	109.59	110.29	110.29	109.83
9°	102.64	102.41	104.27	105.89	107.51	108.90	110.29	111.45	112.61	113.30	113.30	112.14
10°	102.18	103.80	105.66	107.51	109.59	111.45	113.07	114.46	115.62	116.55	116.55	114.46
11°	103.80	105.66	107.51	109.83	112.14	114.23	116.08	117.47	117.24	116.78	116.31	113.53
12°	104.96	107.28	109.59	112.14	114.69	117.01	117.24	116.55	115.85	115.39	114.92	112.37
13°	105.42	108.20	111.91	114.69	117.47	116.31	115.39	114.92	114.46	113.76	113.53	110.98
14°	105.89	108.44	112.37	114.23	116.08	114.00	113.30	113.53	112.84	112.37	111.91	109.83
15°	106.81	108.90	112.14	114.46	114.00	111.91	110.75	111.22	111.45	110.75	110.29	108.67
16°	107.97	110.29	111.91	111.68	111.45	109.83	107.97	108.90	110.06	110.52	110.75	109.59
17°	109.13	111.45	111.22	109.83	109.13	107.97	106.12	107.51	110.75	111.22	111.68	110.75
18°	110.29	112.37	110.52	108.90	107.28	106.12	106.35	107.97	111.22	112.14	112.37	111.91
19°	112.84	111.68	109.59	108.44	106.35	105.89	107.74	109.13	111.68	113.07	113.53	113.07
20°	116.78	111.68	108.20	107.05	106.12	106.58	108.90	110.98	112.84	114.00	114.46	114.46
21°	116.08	111.45	106.81	105.19	106.81	107.05	109.59	112.84	114.23	114.69	114.69	114.23
22°	110.75	109.36	105.42	104.50	107.28	107.97	109.83	114.69	114.69	114.23	114.00	113.53
23°	106.58	104.96	103.57	105.19	108.67	108.67	109.59	114.23	114.00	113.53	113.30	112.84
24°	105.42	101.25	100.79	105.66	110.98	110.29	110.06	112.84	113.53	113.07	112.84	112.61
25°	104.27	100.33	99.86	105.42	111.45	112.61	109.59	111.91	113.07	112.61	112.37	112.14
26°	104.50	99.40	100.33	104.96	111.68	113.30	108.44	111.68	112.61	112.14	111.91	111.68
27°	104.96	100.33	101.48	104.50	110.52	112.37	108.20	111.45	111.91	111.45	111.22	110.98
28°	103.80	103.11	102.87	105.42	108.67	110.98	108.20	110.29	111.45	110.75	110.75	110.75
29°	101.48	103.57	104.73	106.58	106.35	110.52	107.97	107.97	110.98	110.52	110.52	110.29
30°	99.40	102.64	106.35	106.35	104.96	109.59	107.74	105.42	110.75	110.29	110.06	109.83
31°	97.55	102.41	106.81	106.35	104.73	107.28	107.97	103.80	110.29	109.83	108.44	107.05
32°	97.31	102.64	107.51	106.58	104.50	104.27	107.74	104.03	109.59	107.51	105.42	104.03
33°	96.85	103.34	107.51	106.12	104.50	102.87	107.51	104.73	105.66	104.73	102.64	101.25
34°	96.62	101.72	107.28	105.89	104.50	102.41	105.19	104.50	101.95	102.18	100.33	98.70
35°	97.78	99.17	106.12	105.66	104.27	102.18	102.87	101.72	99.40	99.63	97.78	96.39
36°	98.70	101.02	102.18	105.42	104.50	101.95	100.09	98.94	97.55	97.31	97.08	97.78
37°	97.31	103.57	98.47	104.96	105.42	101.48	98.70	96.39	95.92	97.55	98.70	99.63
38°	95.92	102.64	100.09	101.25	105.19	100.56	97.31	94.07	94.53	99.63	100.56	101.72
39°	97.08	100.09	102.18	98.01	103.80	100.09	95.69	92.91	94.77	101.48	101.95	103.80
40°	97.78	98.70	100.79	97.55	101.72	98.94	93.14	94.53	95.69	103.34	104.96	105.66
41°	98.24	98.24	98.24	96.62	99.40	95.92	89.90	96.39	97.78	104.73	106.81	105.66
42°	99.17	98.01	97.31	95.92	96.39	93.14	88.97	97.78	100.09	104.96	106.58	105.19
43°	98.94	97.55	97.31	96.85	93.14	91.06	91.29	99.40	102.41	103.80	106.12	104.73
44°	97.31	96.85	96.85	98.24	90.83	89.44	93.38	101.25	101.72	103.34	105.66	104.27
45°	94.77	95.69	95.46	98.24	90.13	89.20	94.77	103.34	100.33	103.57	104.96	103.80
46°	92.22	94.30	94.07	95.46	89.20	90.36	94.53	103.34	98.70	103.80	103.80	102.41
47°	92.45	91.98	93.61	92.22	86.19	92.22	93.61	102.64	97.55	104.27	100.33	100.33
48°	93.38	91.06	92.68	90.13	82.49	93.14	94.53	101.02	98.24	102.64	96.62	98.24
49°	91.98	93.14	90.83	87.81	82.49	92.91	94.77	98.94	99.17	99.40	93.38	96.39
50°	90.13	92.91	89.67	85.27	85.96	92.91	96.62	96.85	98.70	97.08	90.59	94.30
51°	89.20	88.74	89.44	83.88	87.35	94.30	98.24	96.16	96.39	95.92	88.28	89.90
52°	88.51	86.42	87.35	82.72	86.66	95.46	96.85	95.00	94.07	94.77	85.73	85.27
53°	88.28	87.81	84.11	80.40	86.89	94.53	94.30	93.38	91.75	89.67	82.49	80.86
54°	88.05	88.05	82.72	78.08	88.28	93.14	93.14	91.98	89.67	83.64	79.01	77.16
55°	88.05	85.27	82.49	78.31	88.51	93.14	92.45	90.59	86.66	79.70	75.30	74.14
56°	88.51	83.41	80.63	78.55	87.12	93.61	90.13	89.20	81.33	76.23	70.67	74.84

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57°	86.66	82.72	79.70	77.16	89.44	93.61	88.51	87.58	76.69	73.22	70.67	77.16
58°	84.57	82.02	77.85	78.31	91.98	92.22	89.20	85.73	73.22	70.44	72.99	79.24
59°	82.25	82.02	75.30	81.79	89.67	89.67	90.36	80.17	70.44	72.52	75.77	81.56
60°	80.86	81.79	72.75	81.79	87.58	86.89	86.42	75.07	66.96	74.14	80.17	84.11
61°	80.17	81.56	70.44	80.63	87.35	84.11	80.40	72.99	64.88	74.84	85.27	83.41
62°	79.24	78.31	69.97	80.86	86.19	83.88	78.55	70.21	69.05	76.69	87.35	81.10
63°	78.31	75.53	69.51	81.56	83.41	83.41	76.92	67.66	73.68	80.17	85.50	78.78
64°	77.16	75.07	70.44	83.18	83.88	82.72	75.53	62.33	73.68	82.49	84.57	76.92
65°	76.00	73.68	69.97	85.03	86.42	79.24	71.36	59.08	74.38	83.18	83.88	75.07
66°	75.77	71.60	68.35	85.73	84.34	75.53	66.27	64.64	76.69	82.49	82.25	73.68
67°	75.77	69.97	69.28	83.64	81.33	77.85	63.49	67.89	79.70	79.01	80.40	73.22
68°	76.00	68.12	69.51	81.56	77.62	78.08	62.56	69.05	79.47	76.00	76.46	72.29
69°	75.53	67.42	67.42	78.31	77.39	76.92	61.63	65.80	79.01	73.91	74.14	71.60
70°	72.29	66.96	67.19	77.39	77.39	71.13	56.77	67.42	77.85	72.29	73.45	70.67
71°	69.97	65.57	68.81	77.39	76.92	68.81	54.91	72.29	75.30	70.44	72.29	70.21
72°	70.44	64.41	69.74	75.07	76.00	67.42	56.77	77.39	71.36	68.58	71.83	70.67
73°	70.44	62.79	69.74	74.38	73.22	65.57	57.93	78.08	69.97	66.96	71.13	70.44
74°	70.44	60.24	66.27	76.46	69.05	62.56	57.46	72.29	71.60	66.27	68.35	69.97
75°	68.12	57.23	65.34	72.29	71.36	58.62	59.08	70.90	69.97	69.28	66.50	69.51
76°	65.11	58.39	67.19	70.44	71.36	55.38	60.01	70.44	64.41	68.35	64.41	69.28
77°	68.12	59.55	67.19	71.60	69.74	55.14	58.62	70.44	64.18	67.19	63.49	70.21
78°	69.97	57.00	66.73	73.45	66.50	57.46	58.62	69.97	63.95	62.33	67.42	70.90
79°	64.64	57.00	66.50	72.75	65.80	52.36	60.24	68.58	65.34	62.10	70.44	71.83
80°	61.86	59.55	67.89	67.89	66.03	48.43	60.94	66.50	65.11	61.63	69.74	72.52
81°	62.10	55.61	68.35	67.89	67.19	47.73	62.79	60.24	62.10	61.63	64.88	73.91
82°	60.24	51.67	65.80	67.89	63.25	47.50	64.41	59.78	60.71	62.33	64.64	78.55
83°	57.69	50.97	63.02	68.35	62.10	46.57	65.80	64.18	58.62	60.47	65.80	76.23
84°	60.24	50.51	61.17	68.12	60.47	46.11	63.02	64.18	59.32	60.94	66.96	72.06
85°	62.56	50.51	65.11	68.35	58.39	45.64	63.95	62.79	55.38	61.17	68.12	67.89
86°	62.56	50.97	66.96	67.66	62.79	43.10	63.49	57.93	54.45	60.94	69.28	66.96
87°	61.17	51.21	66.96	64.18	61.63	39.85	62.33	57.69	58.39	60.94	68.58	70.44
88°	58.16	51.21	63.95	61.63	60.01	39.39	55.84	56.77	60.47	61.40	71.83	68.58
89°	55.84	51.21	62.56	60.47	59.08	43.33	57.93	56.30	60.47	60.71	72.06	63.25
90°	53.75	51.21	62.56	60.47	59.08	43.33	63.25	61.86	60.47	52.60	72.29	63.02
91°	55.84	51.21	65.80	60.47	60.24	43.33	57.93	56.53	60.47	61.17	72.06	63.25
92°	58.16	51.21	67.19	61.86	62.10	39.39	55.84	57.46	60.47	61.40	71.83	68.58
93°	61.17	51.21	67.19	64.18	63.25	42.40	68.12	57.69	60.24	61.17	69.28	69.28
94°	62.56	50.97	63.95	67.66	63.49	45.41	63.49	57.69	56.53	60.47	69.28	69.28
95°	62.56	50.51	63.02	68.35	63.49	45.88	61.40	62.79	55.61	60.94	68.35	65.11
96°	59.78	50.51	65.11	68.35	62.56	46.11	62.79	63.72	57.69	60.94	67.42	63.72
97°	56.77	51.90	65.34	68.35	62.10	46.57	63.02	64.64	60.24	60.71	66.73	63.25
98°	60.01	55.14	65.57	67.66	62.33	51.44	64.18	65.11	60.24	60.47	59.08	62.79
99°	62.10	56.30	65.80	67.66	62.33	49.35	62.79	65.57	58.62	60.47	61.40	64.64
100°	61.86	57.00	68.35	68.81	65.80	48.89	61.17	64.88	58.62	56.77	55.38	64.18
101°	63.72	55.84	70.21	68.12	68.12	49.58	59.32	62.79	60.94	57.23	52.83	61.17
102°	67.19	56.77	67.89	69.51	68.81	50.05	57.46	63.95	61.86	58.85	52.36	58.16
103°	67.19	59.55	66.73	72.75	67.42	50.51	57.23	66.03	60.47	57.69	51.90	58.85
104°	66.73	60.24	66.27	74.84	66.03	52.13	57.93	68.81	62.10	52.36	51.44	58.39
105°	66.03	60.24	67.66	74.61	65.80	56.77	56.53	69.74	63.02	52.83	51.21	56.30
106°	66.27	61.40	68.58	72.75	67.19	61.17	54.91	70.67	58.39	52.83	50.74	54.68
107°	69.05	63.02	69.51	72.52	69.74	62.79	53.52	71.60	60.01	53.75	50.51	53.29
108°	70.44	65.57	67.42	72.52	71.83	64.64	51.90	68.58	61.63	54.91	50.97	52.60
109°	70.44	64.64	64.88	72.99	74.14	66.50	50.51	63.49	63.49	56.07	52.13	51.90
110°	71.36	63.02	63.95	74.38	74.61	68.81	51.90	59.78	65.34	57.23	53.52	52.83
111°	72.75	62.33	63.25	73.68	75.07	70.44	49.82	56.77	67.42	59.08	54.68	54.91
112°	70.44	62.10	63.02	70.44	75.53	70.90	50.51	53.75	69.74	60.94	56.07	57.23
113°	68.12	63.95	61.63	71.60	75.77	71.36	52.60	50.97	71.13	63.25	57.46	59.55

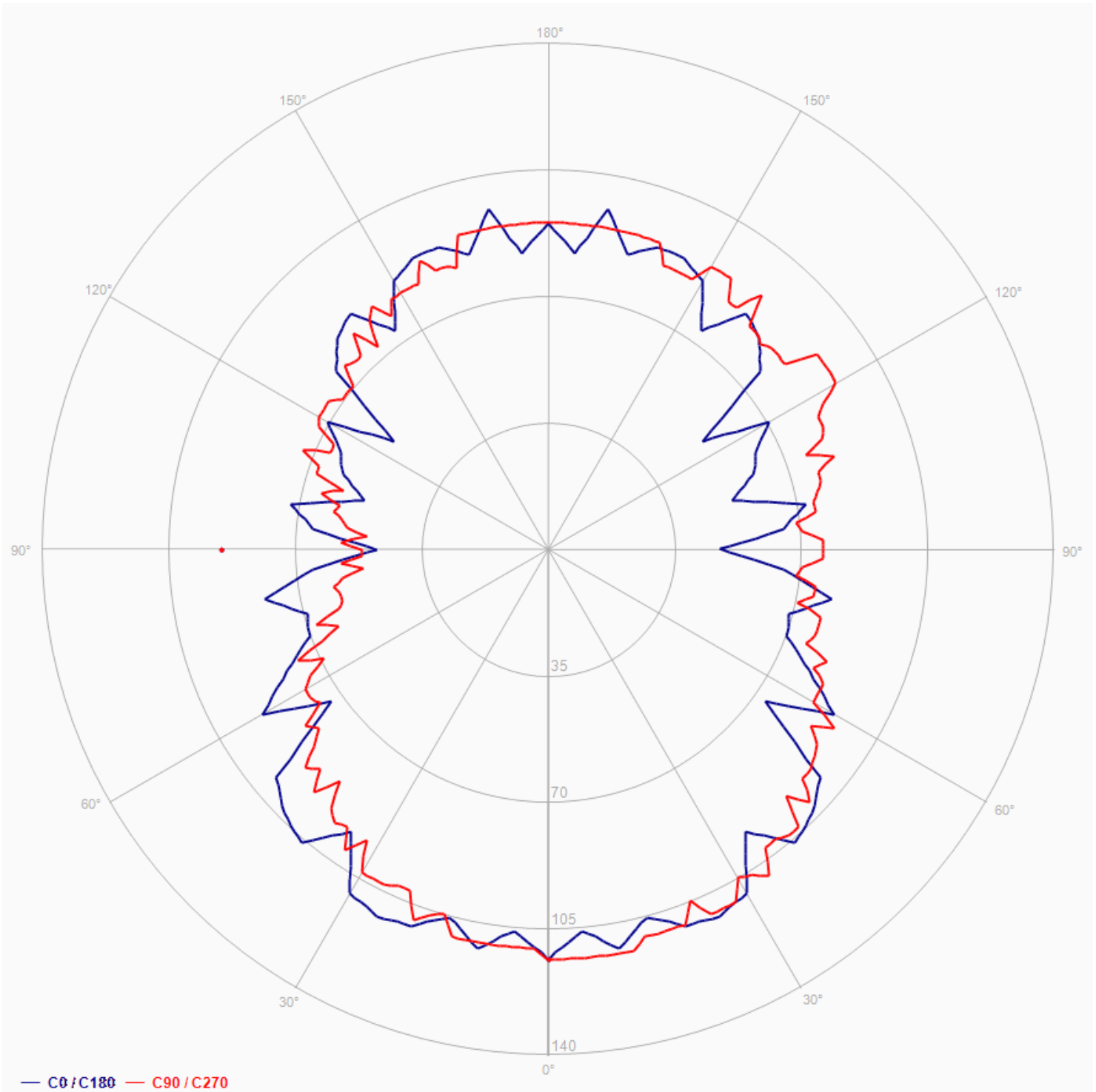
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114°	69.05	65.57	60.94	73.68	75.53	71.83	55.84	49.58	66.96	65.57	59.55	61.86
115°	69.51	66.03	62.33	73.45	75.30	72.29	59.08	50.74	63.25	68.12	62.10	63.72
116°	69.74	67.19	63.95	72.99	75.07	72.99	62.79	51.90	59.78	70.90	65.34	64.18
117°	70.67	68.12	66.27	72.29	74.84	73.45	66.96	53.99	56.77	68.35	68.58	64.88
118°	72.75	69.28	67.42	71.83	74.61	74.14	70.44	56.53	53.99	63.95	71.13	66.50
119°	73.91	70.21	67.66	71.13	74.61	74.84	71.13	59.08	51.44	60.01	69.28	68.35
120°	74.38	70.44	67.66	70.67	74.84	75.53	71.83	62.10	52.13	56.53	65.11	68.58
121°	74.84	70.67	68.12	69.97	76.23	76.00	72.29	65.57	54.68	54.22	61.40	65.11
122°	75.30	71.13	68.12	69.51	77.62	76.00	72.99	69.28	57.69	52.60	57.23	61.63
123°	75.53	71.36	68.58	69.28	77.85	76.46	73.91	71.13	61.17	56.30	52.60	58.39
124°	75.77	71.60	70.21	68.81	75.77	76.69	74.84	71.60	66.73	59.08	49.82	55.38
125°	76.00	72.52	72.06	66.27	73.68	77.85	76.69	72.06	74.14	61.86	51.67	54.22
126°	76.23	73.91	74.61	63.02	71.60	80.17	79.70	72.52	76.23	64.64	56.30	57.23
127°	75.77	75.30	76.23	63.72	69.51	81.56	80.40	73.45	76.00	67.66	60.71	60.94
128°	74.84	76.69	77.39	65.11	68.81	82.72	79.24	74.14	76.00	69.97	64.88	65.34
129°	74.84	77.62	79.01	66.50	69.51	81.10	78.78	74.61	76.00	72.06	68.81	70.44
130°	74.84	78.55	79.01	67.66	68.81	78.55	78.31	75.07	76.00	74.84	71.13	75.07
131°	76.92	79.01	79.01	69.97	67.19	76.00	77.16	75.53	76.46	77.62	73.68	75.53
132°	78.78	79.24	78.78	71.13	66.73	73.68	77.39	77.16	78.08	80.86	76.69	76.00
133°	78.78	78.78	77.62	71.60	67.89	71.13	75.30	79.01	79.47	83.88	80.17	76.46
134°	78.78	78.31	76.23	72.29	69.51	68.81	74.14	80.86	80.86	83.41	83.41	77.16
135°	78.78	78.31	76.00	74.84	70.90	67.19	73.91	81.33	81.56	83.41	84.11	77.85
136°	78.78	78.31	76.46	77.85	72.29	66.96	73.91	79.01	82.02	83.18	84.34	79.24
137°	78.78	78.31	78.08	78.78	74.14	68.35	71.83	76.69	81.33	83.64	84.57	80.63
138°	78.31	78.78	81.33	78.31	75.77	71.83	68.81	74.84	79.47	84.34	84.80	82.25
139°	78.55	79.94	82.49	77.85	77.62	75.77	68.58	72.75	78.08	83.41	85.27	83.88
140°	79.01	81.56	80.17	77.39	78.55	78.31	71.13	70.90	77.62	81.79	82.72	84.80
141°	79.24	81.79	79.01	77.62	80.40	78.31	73.68	69.97	76.46	79.94	78.08	82.25
142°	79.24	81.56	79.70	79.94	82.72	78.55	75.77	71.83	75.07	77.85	76.00	79.70
143°	79.01	82.49	82.72	82.95	84.34	80.63	77.85	74.61	75.77	75.77	72.99	77.39
144°	78.55	84.57	83.64	84.57	84.11	82.72	80.17	78.08	77.85	75.53	70.21	75.53
145°	78.78	85.27	85.50	85.03	84.57	85.03	82.02	82.02	79.94	77.62	70.44	73.91
146°	78.78	83.88	85.03	84.57	86.89	85.50	82.49	85.73	82.25	79.70	72.99	75.30
147°	77.85	82.49	83.18	83.64	89.20	85.27	82.95	86.66	84.80	81.56	75.30	76.69
148°	76.69	80.40	81.56	82.95	89.90	85.27	84.11	86.42	86.89	84.34	77.85	78.08
149°	76.23	78.78	80.63	84.57	87.81	85.73	84.80	85.96	86.66	86.89	80.40	79.70
150°	77.39	78.78	80.40	86.19	86.42	85.27	85.27	85.50	86.89	87.58	82.49	81.33
151°	79.01	79.24	81.56	85.96	85.96	85.27	85.03	85.27	87.58	88.28	84.11	82.49
152°	80.86	79.94	82.25	85.50	85.96	85.50	85.27	85.03	88.51	88.74	85.73	83.64
153°	82.72	79.70	82.72	85.50	85.96	85.96	85.50	85.73	89.90	89.20	87.58	84.80
154°	85.03	81.33	83.64	85.03	85.96	86.66	86.19	87.58	90.59	90.13	89.67	85.96
155°	88.28	84.11	84.57	85.03	85.27	87.12	87.35	89.67	91.06	89.90	90.83	87.12
156°	89.44	86.19	84.34	84.11	84.11	86.19	88.74	91.98	91.06	89.67	90.36	87.12
157°	89.44	86.89	84.80	82.49	82.72	84.80	89.67	94.30	90.59	89.44	89.90	87.35
158°	89.67	87.35	84.11	80.17	81.33	83.88	88.74	94.30	90.13	89.44	89.67	87.81
159°	89.67	87.35	83.64	79.94	79.94	82.49	88.05	91.06	89.44	88.97	89.20	88.51
160°	89.44	87.58	84.11	80.63	78.78	81.56	87.58	88.51	87.81	88.05	88.51	88.97
161°	88.51	88.28	85.03	82.02	79.70	81.56	86.19	86.42	86.42	86.89	87.35	87.58
162°	88.05	89.44	86.42	83.64	81.56	82.49	84.34	85.03	85.50	85.96	86.19	86.42
163°	87.12	89.20	87.81	85.27	84.34	84.80	84.11	83.88	84.34	84.80	85.27	85.50
164°	86.19	88.28	89.44	87.35	86.42	86.66	85.96	84.57	83.41	83.88	84.11	84.57
165°	85.50	87.35	89.20	88.97	88.51	88.74	88.05	86.42	85.27	84.57	83.88	83.88
166°	84.80	86.42	88.05	88.28	91.06	91.52	90.13	88.74	87.58	86.66	85.96	85.96
167°	84.11	85.50	87.12	90.13	94.07	93.84	92.45	91.06	89.90	88.97	88.28	88.28
168°	83.41	84.80	86.89	89.90	92.91	94.77	94.53	93.38	92.22	91.29	90.59	90.59
169°	82.95	84.57	86.42	88.74	90.59	92.22	93.84	95.23	94.53	93.84	93.38	93.14
170°	82.25	83.64	85.27	86.66	88.28	89.90	91.29	92.45	93.61	94.53	95.00	95.23

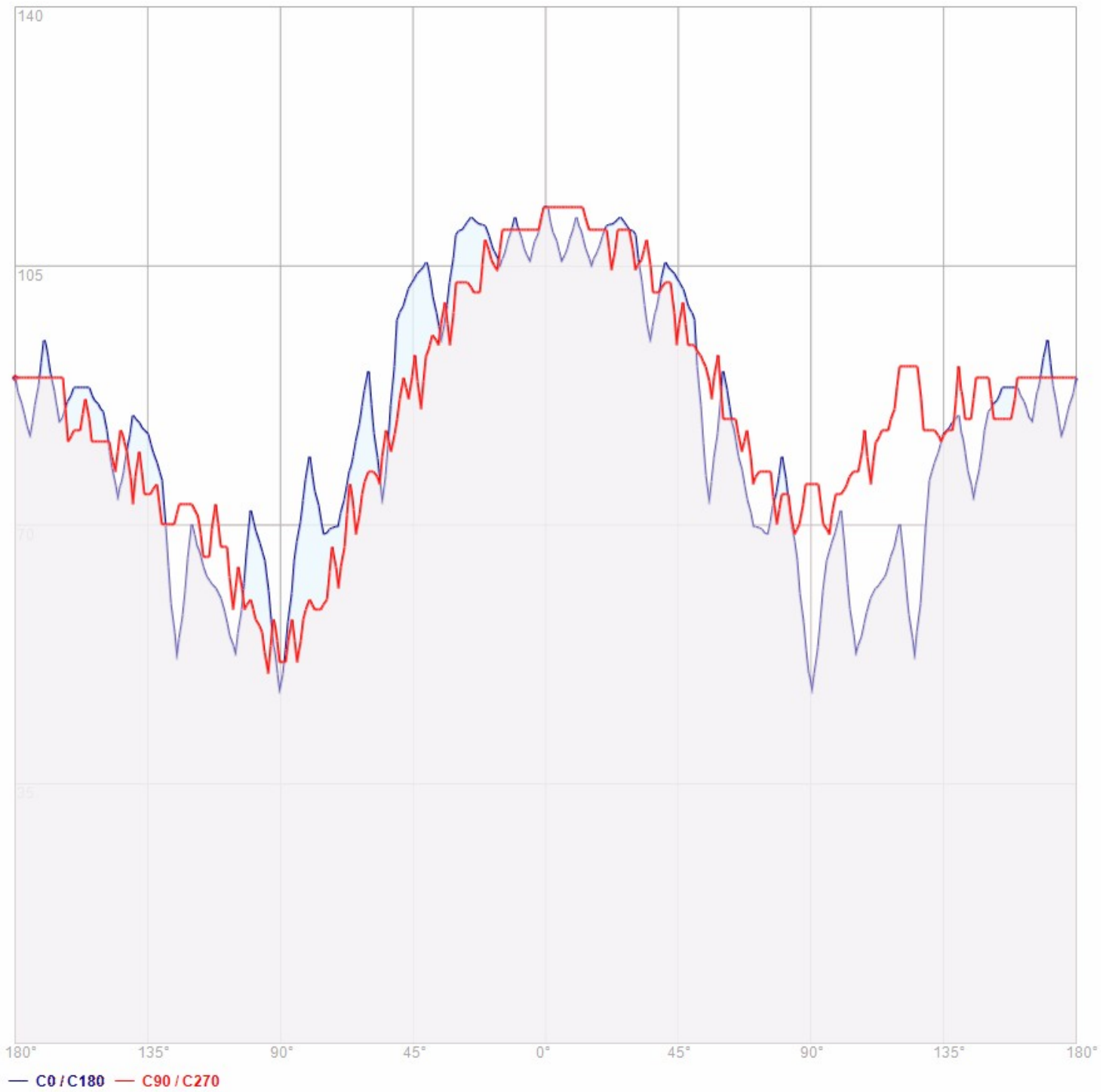
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171°	83.18	82.49	83.88	85.03	86.42	87.58	88.74	89.90	90.83	91.52	91.98	92.45
172°	83.88	82.95	82.49	83.64	84.57	85.73	86.66	87.58	88.28	88.97	89.20	89.44
173°	84.57	83.88	82.95	82.25	82.95	83.88	84.57	85.27	85.96	86.19	86.66	86.66
174°	85.27	84.57	84.11	83.41	82.95	82.49	82.72	83.18	83.64	83.88	84.11	84.34
175°	85.96	85.27	85.03	84.57	84.11	83.64	83.41	82.95	82.72	82.49	82.49	82.25
176°	86.66	86.19	85.96	85.50	85.27	85.03	85.27	84.34	84.34	84.11	84.11	83.88
177°	87.58	87.35	86.89	86.66	86.42	86.19	85.96	85.73	85.73	85.50	85.50	85.50
178°	88.51	88.28	88.05	87.81	87.58	87.35	87.35	87.12	86.89	86.89	86.89	86.89
179°	89.44	89.20	89.20	88.97	88.97	88.74	88.74	88.51	88.51	88.51	88.51	88.28
180°	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36	90.36

Photometric Polar Diagram



Photometric Cartesian Diagram



Light Emmission Photo

