

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1007368

Luminaire Tested: S122IP-B330UB30-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122IP-B330UB30-4F0-XX-W2A-4
Description: Define 2 Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

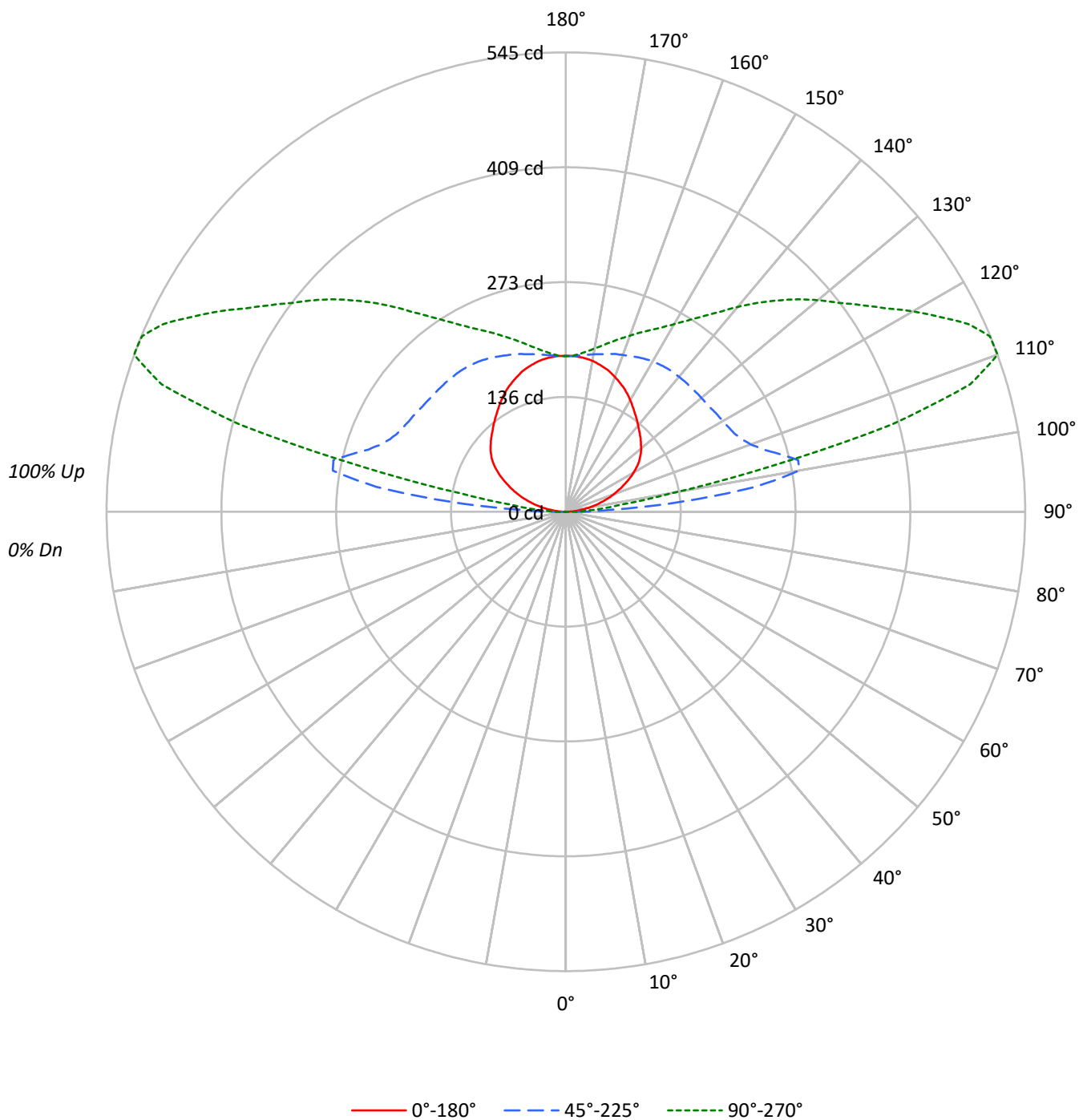
Lumens per Lamp: N/A
Luminaire Lumens: 1288.0 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 9.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 0°
Luminance: 0 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	1.2	0.1
90°-100°	72.0	5.6
100°-110°	253.7	19.7
110°-120°	266.4	20.7
120°-130°	219.2	17.0
130°-140°	176.1	13.7
140°-150°	133.0	10.3
150°-160°	93.5	7.3
160°-170°	55.0	4.3
170°-180°	17.9	1.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.2	0.1
90°-120°	592.1	46.0
90°-150°	1120.4	87.0
90°-180°	1287.0	99.9
0°-180°	1288.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	5	12	12	12	1
95°	12	31	139	53	40	13
105°	43	65	263	471	400	46
115°	76	96	220	455	527	76
125°	107	126	212	368	428	95
135°	125	149	209	310	354	97
145°	143	164	208	259	283	90
155°	162	175	202	229	238	75
165°	177	182	194	205	209	50
175°	184	185	186	188	188	18
180°	185	185	185	185	185	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.4	1.4	2.8	3.6	4.3	5.3	7.1	9.6	11.7	12.1	11.7
92.5°	5.3	7.5	10.3	12.1	14.9	18.8	28.4	41.9	54.0	54.7	45.8
95°	12.4	13.9	17.4	20.6	26.3	34.8	51.2	82.1	123.3	139.3	121.9
97.5°	18.5	20.6	24.5	29.1	35.5	45.1	66.1	109.1	175.5	227.1	228.8
100°	27.4	28.4	31.6	37.3	44.4	54.4	73.2	116.6	193.3	280.7	331.9
102.5°	35.5	36.2	39.4	45.1	52.6	62.5	79.6	116.9	186.6	282.5	370.3
105°	43.4	44.8	47.3	52.6	60.4	70.4	87.1	118.7	177.3	263.3	357.8
107.5°	51.9	52.9	55.4	60.4	68.2	78.2	94.5	122.6	172.3	245.5	331.5
110°	60.4	61.8	64.0	68.6	76.0	86.3	102.0	127.6	170.9	233.5	307.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	68.2	69.6	72.1	76.4	83.5	94.2	109.1	132.9	171.3	225.6	290.0
115°	76.4	78.2	80.3	84.6	91.7	101.3	116.6	138.2	172.7	220.3	276.5
117.5°	84.9	86.3	88.5	92.4	99.1	109.1	123.3	143.9	174.8	217.5	267.2
120°	92.7	94.2	96.3	99.5	106.6	116.6	130.4	149.6	177.0	215.0	260.1
122.5°	100.2	101.3	103.4	107.0	114.1	124.4	137.2	154.6	179.4	213.6	254.1
125°	106.6	107.7	109.8	114.1	121.2	131.1	143.9	159.9	181.9	211.8	248.4
127.5°	111.9	113.4	116.2	120.8	127.6	137.9	150.3	164.9	184.4	210.7	243.1
130°	116.6	118.0	121.5	126.5	133.6	143.6	156.0	169.5	187.3	210.0	237.7
132.5°	120.8	122.6	126.5	131.8	139.3	149.2	161.0	174.1	190.1	209.7	233.5
135°	125.1	126.5	130.8	136.1	144.3	154.2	165.6	178.0	192.2	209.3	229.6
137.5°	129.0	130.8	135.0	140.7	148.9	158.1	169.5	181.2	194.4	209.3	226.7
140°	133.6	135.0	139.3	145.0	152.8	162.0	172.7	183.7	195.8	208.9	224.2
142.5°	138.2	139.3	143.2	148.9	156.4	164.9	175.2	185.8	196.9	208.9	221.7
145°	142.8	144.3	147.8	153.2	160.3	168.1	177.7	187.6	197.6	208.2	219.6
147.5°	147.8	148.9	152.4	157.4	163.5	170.6	179.8	188.7	197.9	207.2	217.5
150°	152.8	153.9	156.7	161.3	166.7	173.1	181.2	189.4	197.6	206.1	214.6
152.5°	157.8	158.1	161.0	164.9	169.9	175.5	182.6	189.8	196.9	204.3	212.1
155°	162.4	162.7	164.9	168.8	172.7	178.0	184.1	190.1	196.2	202.2	208.9
157.5°	166.3	166.7	168.4	172.0	175.2	179.8	185.1	190.1	194.7	200.1	206.1
160°	170.2	170.6	172.0	174.8	177.7	181.6	185.8	190.1	193.7	197.9	202.9
162.5°	174.1	173.8	175.2	177.3	179.8	182.6	186.2	189.8	192.6	196.2	200.1
165°	177.0	176.6	177.3	179.4	181.2	183.4	186.6	189.0	191.2	193.7	196.9
167.5°	179.4	179.1	179.8	181.2	182.6	184.1	186.6	188.7	189.8	191.5	193.7
170°	181.9	181.2	181.6	182.6	183.4	184.4	186.2	188.0	188.7	189.8	191.2
172.5°	183.4	183.0	182.6	183.7	184.1	184.8	185.8	186.9	187.3	187.6	188.7
175°	184.4	184.1	183.7	184.4	184.4	184.8	185.5	186.2	185.8	186.2	186.6
177.5°	185.1	184.4	184.1	184.8	184.8	184.8	185.1	185.8	185.1	184.8	185.1
180°	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	11.4	10.7	11.4	11.7	11.7	11.7	11.7	11.7
92.5°	35.9	30.6	26.7	23.8	23.5	22.0	22.4	21.7
95°	93.1	71.4	56.5	48.7	44.1	41.2	40.2	40.5
97.5°	190.5	152.1	116.2	94.9	81.0	73.9	70.0	67.9
100°	324.4	280.4	231.7	188.7	159.2	143.9	133.6	127.2
102.5°	412.2	410.8	378.4	332.2	299.6	270.8	257.3	248.0
105°	431.7	471.9	476.5	464.8	442.8	420.7	405.4	400.5
107.5°	410.8	470.5	505.3	519.5	519.2	516.0	511.3	503.2
110°	382.0	445.6	491.1	520.2	535.5	542.3	545.5	545.1

TEST NUMBER: P1007368

CATALOG NUMBER: S122IP-B330UB30-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	355.7	416.1	465.5	500.0	522.7	535.2	541.9	544.4
115°	335.1	389.8	436.4	473.0	498.2	514.5	523.8	527.0
117.5°	318.0	367.1	410.4	445.2	471.2	488.6	498.2	500.7
120°	306.0	350.0	387.7	420.0	444.9	461.6	471.9	475.5
122.5°	296.4	335.8	371.0	399.4	421.1	437.4	446.3	449.2
125°	287.1	323.7	355.0	381.6	402.3	415.8	424.6	427.5
127.5°	277.9	311.6	341.5	366.4	384.5	397.3	405.1	407.2
130°	269.0	299.6	327.6	351.1	368.5	380.6	387.7	390.5
132.5°	260.5	288.2	313.4	335.1	352.1	364.2	370.6	373.1
135°	252.7	276.1	299.6	319.5	334.7	346.5	352.9	354.3
137.5°	246.3	266.5	285.7	303.5	318.0	328.3	334.0	336.2
140°	240.2	257.3	273.6	289.3	300.6	309.9	315.2	317.3
142.5°	235.2	249.1	262.6	275.0	285.7	293.9	298.5	298.5
145°	230.6	242.3	253.4	263.7	272.2	278.2	281.8	282.9
147.5°	227.1	236.7	245.5	253.4	260.8	265.8	268.3	269.0
150°	223.2	231.0	238.4	244.8	250.2	254.4	256.6	256.9
152.5°	219.2	226.4	232.4	237.7	241.6	245.2	246.6	246.6
155°	215.7	221.4	226.7	230.6	234.5	237.0	238.4	237.7
157.5°	211.4	216.4	221.0	224.2	227.1	229.2	229.9	229.9
160°	207.5	211.4	215.3	217.8	220.3	222.1	222.4	222.4
162.5°	203.6	206.8	210.0	211.8	214.3	215.3	215.7	215.3
165°	199.7	202.2	204.7	206.1	207.5	208.9	208.9	208.6
167.5°	195.8	197.9	199.7	201.1	201.8	202.5	202.5	202.2
170°	193.0	194.0	195.4	196.2	196.5	197.6	197.2	196.5
172.5°	189.8	190.5	191.5	191.9	192.2	192.6	192.2	191.9
175°	187.6	188.0	188.3	188.7	188.7	189.0	188.7	188.0
177.5°	185.8	185.8	186.2	186.2	186.2	186.2	185.8	185.1
180°	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8

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