

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: P1007584

Luminaire Tested: S123IP-B585UB40-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123IP-B585UB40-4F0-XX-W2A-4
Description: Define 3 Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

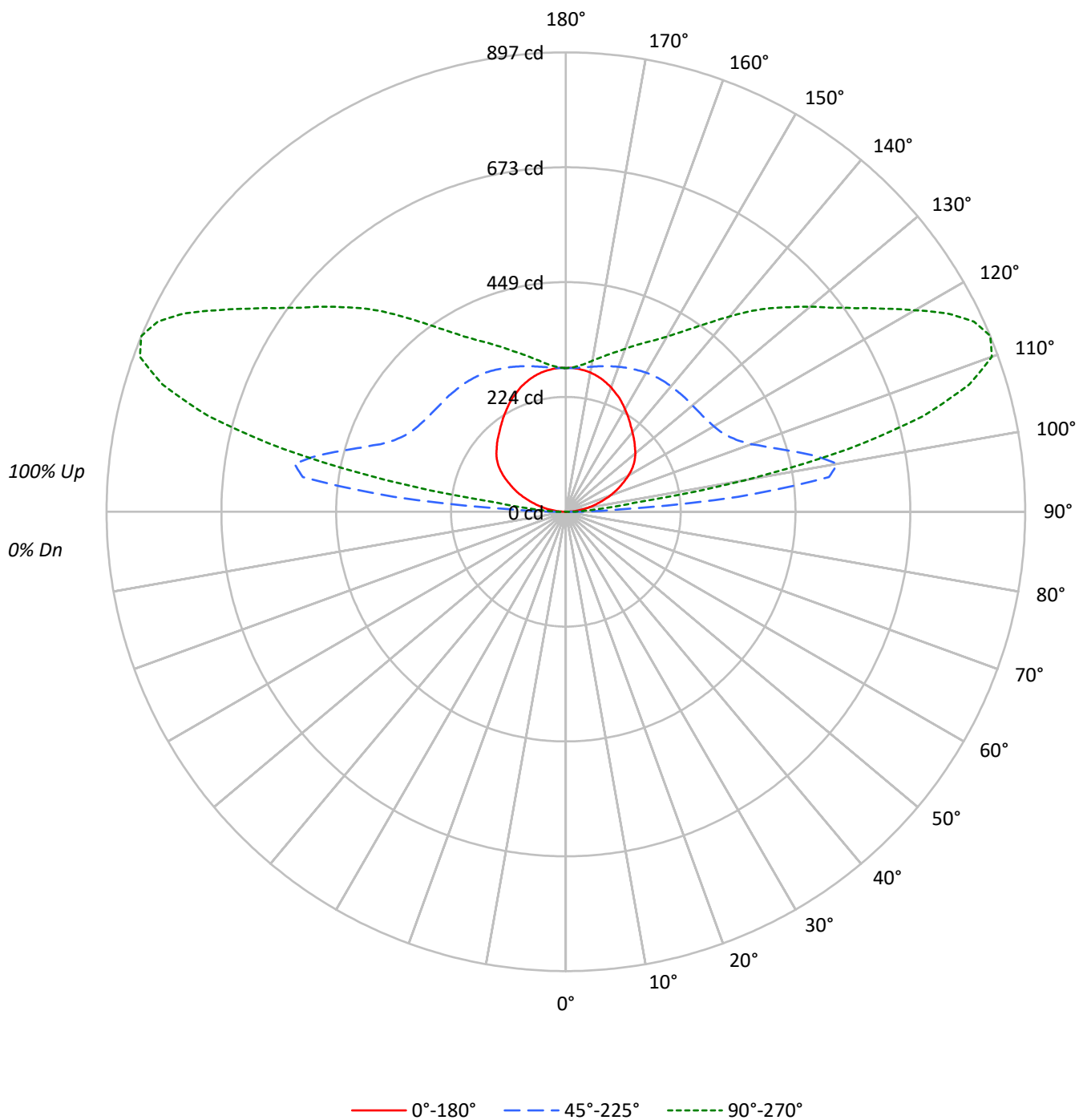
Lumens per Lamp: N/A
Luminaire Lumens: 2113.0 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 15.4
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°	1.6	0.1
90°-100°	152.3	7.2
100°-110°	445.9	21.1
110°-120°	435.5	20.6
120°-130°	346.8	16.4
130°-140°	273.6	12.9
140°-150°	204.1	9.7
150°-160°	142.3	6.7
160°-170°	83.6	4.0
170°-180°	27.2	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.6	0.1
90°-120°	1033.7	48.9
90°-150°	1858.3	87.9
90°-180°	2111.0	99.9
0°-180°	2113.0	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°	1	7	14	16	16	1
95°	19	63	337	98	66	20
105°	66	97	457	799	723	70
115°	116	145	350	766	879	115
125°	162	191	326	591	693	144
135°	190	226	322	487	562	147
145°	216	248	318	399	439	136
155°	246	265	307	349	364	113
165°	269	276	294	312	318	76
175°	280	280	282	286	286	27
180°	281	281	281	281	281	

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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°	1.1	2.3	3.4	5.1	6.3	7.4	9.1	10.8	12.5	14.2	13.6
92.5°	8.5	12.5	18.2	23.3	29.0	39.2	57.4	87.5	117.1	105.7	79.0
95°	19.3	21.0	27.3	36.9	51.7	73.9	122.2	206.8	300.0	337.0	273.3
97.5°	30.7	31.3	36.4	44.9	59.7	84.1	131.8	230.1	387.0	518.2	535.8
100°	42.0	42.6	46.6	54.5	68.2	90.3	130.1	214.2	363.7	538.1	650.0
102.5°	54.0	55.1	58.5	65.9	77.8	97.7	132.4	200.6	329.6	501.2	655.7
105°	65.9	67.6	71.0	77.8	88.6	106.3	136.9	195.5	302.9	456.8	619.9
107.5°	78.4	80.1	83.5	90.3	100.6	117.1	144.3	194.3	283.5	417.6	568.8
110°	92.1	93.8	96.6	102.8	112.5	128.4	154.0	197.2	273.3	385.3	521.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	104.6	106.3	109.1	115.3	125.0	140.3	163.6	202.9	267.6	363.7	479.6
115°	116.5	118.8	122.2	127.8	137.5	152.9	174.4	209.1	267.1	349.5	447.8
117.5°	128.4	131.3	134.1	139.2	150.0	164.2	185.8	217.1	267.6	339.8	426.7
120°	140.9	142.6	145.5	151.1	161.9	176.1	196.6	226.2	269.9	333.5	410.8
122.5°	151.7	153.4	156.3	162.5	172.7	188.1	208.0	234.7	273.9	329.6	397.8
125°	161.9	163.1	166.5	172.7	183.5	198.9	218.8	243.8	277.9	326.2	387.0
127.5°	169.9	171.6	175.6	181.8	193.8	209.1	228.4	251.2	282.4	324.5	376.7
130°	177.3	179.0	184.1	190.9	202.9	218.2	236.9	258.5	286.9	322.7	368.8
132.5°	183.0	185.2	190.9	199.4	211.4	226.2	244.3	265.4	290.4	322.2	361.4
135°	189.8	192.1	198.3	206.8	218.8	234.1	251.7	271.0	293.8	321.6	355.1
137.5°	196.0	198.3	204.6	213.6	225.6	239.8	256.8	275.6	296.0	320.5	349.5
140°	202.3	205.1	210.8	219.9	231.3	245.5	261.9	279.0	298.3	319.9	344.3
142.5°	209.1	211.4	217.6	225.6	236.9	250.0	265.9	282.4	300.0	318.8	339.8
145°	216.5	218.2	223.3	231.8	241.5	254.6	269.3	284.7	300.6	317.6	335.8
147.5°	223.9	225.0	230.1	237.5	247.2	258.5	272.2	286.4	300.6	315.9	331.8
150°	231.3	231.8	236.4	243.8	251.7	261.9	275.0	286.9	300.6	313.7	327.9
152.5°	238.7	238.7	243.2	249.4	256.3	265.9	276.7	288.1	298.9	310.8	323.3
155°	246.0	246.0	249.4	255.1	261.4	269.3	279.0	288.1	297.7	307.4	318.8
157.5°	251.7	252.3	255.1	260.2	265.9	272.2	280.1	288.7	296.0	304.6	313.7
160°	258.5	258.5	260.8	265.4	269.3	275.0	281.8	288.7	294.9	301.2	308.5
162.5°	263.7	263.7	265.4	268.8	272.2	276.7	282.4	288.1	292.6	297.7	303.4
165°	268.8	268.2	269.3	272.2	274.4	278.4	283.0	286.9	290.4	294.3	298.9
167.5°	272.7	272.2	272.7	275.0	276.7	279.6	283.0	286.4	288.1	290.9	294.3
170°	276.2	275.0	275.6	277.3	278.4	279.6	282.4	284.7	285.8	287.5	290.4
172.5°	278.4	277.9	277.9	279.0	279.6	280.1	282.4	284.1	284.1	284.7	286.4
175°	280.1	279.6	279.0	280.1	280.1	280.7	281.8	283.0	282.4	282.4	283.5
177.5°	281.3	280.7	280.1	280.7	280.7	280.7	281.3	282.4	281.3	280.7	281.3
180°	280.7	280.7	280.7	280.7	280.7	280.7	280.7	280.7	280.7	280.7	280.7

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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°	14.2	14.8	15.3	16.5	15.9	16.5	17.0	16.5
92.5°	56.3	43.8	38.1	34.1	33.0	30.7	31.3	30.1
95°	204.6	138.6	108.5	88.1	77.3	72.2	68.2	65.9
97.5°	469.9	354.6	279.6	214.8	176.7	155.1	141.5	135.2
100°	669.9	623.9	557.4	476.7	419.3	377.9	355.7	356.3
102.5°	736.4	746.1	714.2	670.5	629.0	598.3	580.7	564.2
105°	738.7	795.5	806.3	791.5	765.4	743.8	725.6	722.8
107.5°	704.6	793.8	838.1	853.5	850.1	839.8	832.4	826.2
110°	651.2	755.7	827.3	867.1	883.0	887.6	886.4	885.3

TEST NUMBER: P1007584

CATALOG NUMBER: S123IP-B585UB40-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	598.3	705.7	788.1	842.1	874.5	891.0	896.6	897.2
115°	552.9	651.7	735.3	797.2	839.8	864.8	876.2	879.0
117.5°	517.6	605.2	681.9	746.1	790.4	818.2	835.3	839.3
120°	490.9	567.6	635.8	693.2	738.1	769.9	783.6	787.0
122.5°	469.9	537.5	599.5	651.7	690.4	718.2	733.6	738.1
125°	451.7	513.7	568.2	613.7	650.0	675.0	689.2	693.2
127.5°	435.3	491.5	541.5	583.6	616.5	638.1	651.2	654.6
130°	419.9	471.1	517.1	555.7	585.8	606.3	618.2	622.8
132.5°	405.7	451.7	493.8	530.1	558.0	578.4	588.7	591.5
135°	393.2	433.5	470.5	502.9	530.7	547.8	558.0	562.0
137.5°	381.3	415.4	448.3	477.3	501.2	518.8	527.3	530.7
140°	371.0	400.0	427.3	451.7	473.3	489.2	498.3	497.8
142.5°	361.4	385.3	408.0	428.4	446.0	459.7	467.6	467.1
145°	354.0	372.7	390.9	407.4	421.6	433.5	438.1	439.2
147.5°	347.7	363.1	378.4	390.4	401.7	410.3	414.8	415.4
150°	340.9	354.0	365.9	376.7	385.3	391.5	394.9	394.9
152.5°	334.7	345.5	355.7	364.2	370.5	376.2	377.9	377.9
155°	328.4	337.5	346.0	352.9	358.0	362.5	363.7	364.2
157.5°	321.6	329.6	336.4	342.1	346.6	350.0	351.2	351.2
160°	315.9	322.2	327.9	331.8	335.8	339.2	339.2	338.7
162.5°	309.1	314.2	319.3	322.7	325.0	327.9	327.9	327.3
165°	303.4	306.8	310.8	313.7	315.9	318.2	317.6	317.6
167.5°	298.3	301.2	303.4	305.7	306.8	308.5	308.0	308.0
170°	293.2	294.9	297.2	298.3	298.9	300.0	299.5	299.5
172.5°	288.7	289.8	291.5	292.1	292.1	293.2	292.1	291.5
175°	284.7	285.2	286.4	286.4	286.4	286.9	286.4	285.8
177.5°	281.8	282.4	283.0	283.0	282.4	283.0	281.8	281.8
180°	280.7	280.7	280.7	280.7	280.7	280.7	280.7	280.7

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