

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: P1007689

Luminaire Tested: S124IP-B365UB2750-4F0-XX-W2A-4_3500K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124IP-B365UB2750-4F0-XX-W2A-4_3500K
Description: Define 4 Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

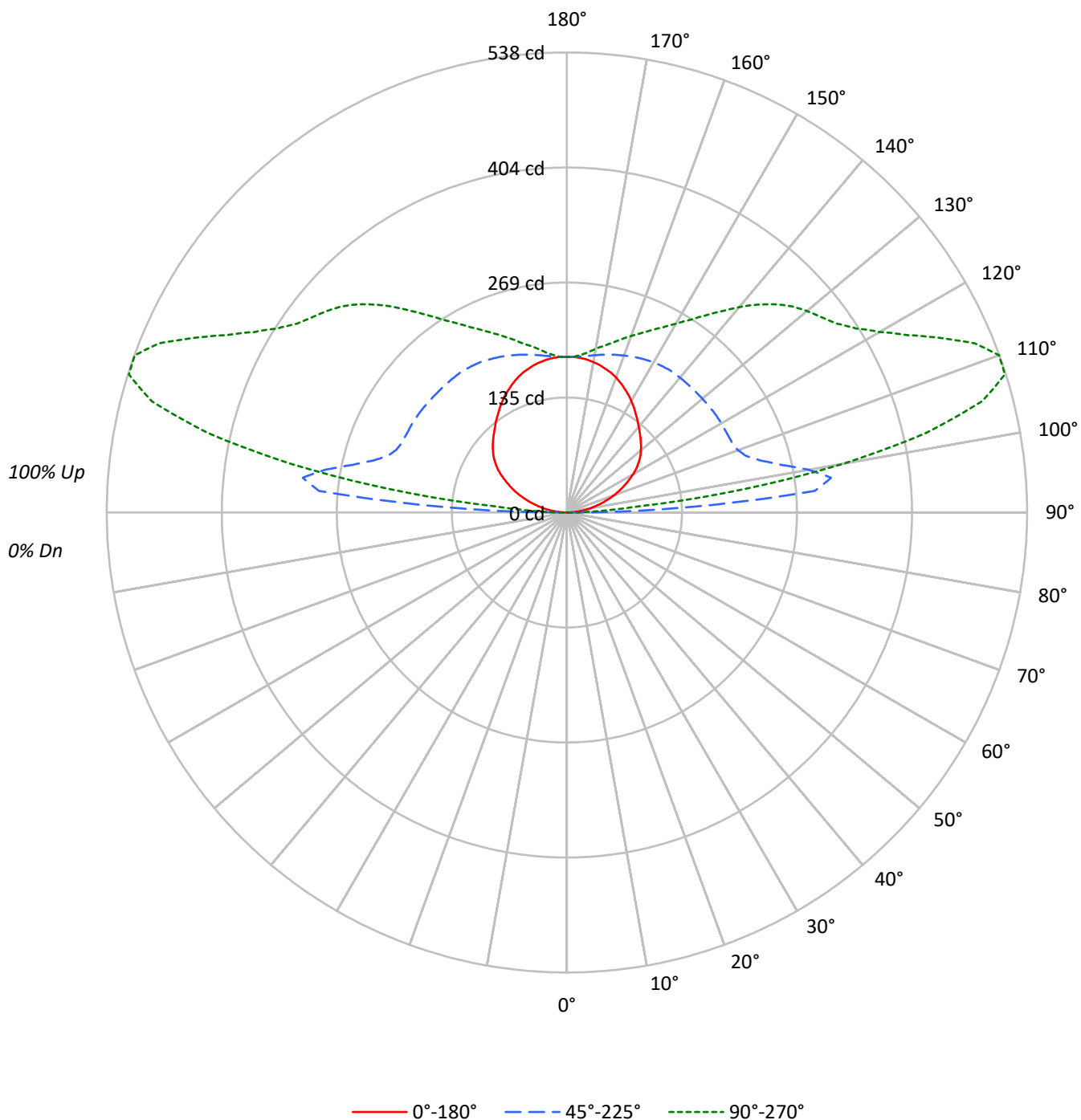
Lumens per Lamp: N/A
Luminaire Lumens: 1325.0 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 9.3
Input Voltage (V):
Input Current (A_{in}): 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°	0.7	0.1
90°-100°	131.8	9.9
100°-110°	275.1	20.8
110°-120°	244.6	18.5
120°-130°	205.9	15.5
130°-140°	171.8	13.0
140°-150°	131.1	9.9
150°-160°	92.2	7.0
160°-170°	54.2	4.1
170°-180°	17.6	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.7	0.1
90°-120°	651.5	49.2
90°-150°	1160.2	87.6
90°-180°	1324.0	99.9
0°-180°	1325.0	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	3	6	7	8	1
95°	12	37	291	144	87	13
105°	42	61	234	505	503	45
115°	74	92	209	402	483	73
125°	102	122	208	342	385	91
135°	122	145	206	303	344	94
145°	140	161	205	256	281	88
155°	160	172	199	226	235	74
165°	174	179	191	202	205	49
175°	182	182	183	186	185	17
180°	182	182	182	182	182	

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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	1.1	2.1	2.5	2.9	2.9	5.0	5.0	5.7	6.4	6.1
92.5°	5.0	7.1	11.1	16.4	22.9	32.1	54.3	88.9	122.5	140.0	116.5
95°	11.8	12.9	16.4	21.1	29.6	44.7	75.7	134.3	219.7	291.1	299.4
97.5°	19.6	19.6	22.9	27.1	34.7	47.5	72.2	122.5	210.4	311.5	375.4
100°	27.1	27.1	29.6	33.9	40.7	52.2	73.2	113.6	186.5	287.2	378.7
102.5°	34.3	35.0	37.2	41.1	47.5	58.2	76.8	111.1	170.4	256.8	351.9
105°	41.8	42.9	44.7	48.9	55.4	65.7	82.9	112.5	162.5	234.3	318.3
107.5°	50.0	50.7	52.5	57.2	63.2	73.6	89.3	116.8	160.4	219.7	290.8
110°	58.2	58.9	60.7	65.0	71.4	81.1	96.8	121.8	161.1	212.9	271.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	66.1	66.8	68.9	72.9	79.3	88.9	104.0	127.2	163.3	209.7	260.1
115°	73.6	74.7	77.2	80.7	87.5	97.2	111.5	132.9	166.1	209.0	254.0
117.5°	81.4	82.5	84.7	88.6	95.0	105.0	118.6	138.6	169.0	208.6	250.8
120°	89.3	90.0	92.5	96.4	102.5	112.5	126.1	144.7	172.2	208.6	248.3
122.5°	96.4	97.2	99.7	103.2	110.0	119.7	133.2	150.4	175.4	208.3	245.4
125°	102.5	104.0	106.1	110.0	116.8	126.8	139.7	156.1	178.6	207.9	242.2
127.5°	108.2	109.3	111.8	116.1	123.2	133.2	145.7	161.1	181.1	207.2	237.9
130°	112.9	114.3	117.2	122.5	129.3	139.7	151.8	165.8	184.0	206.8	234.0
132.5°	117.5	118.6	122.5	127.5	135.0	144.7	156.8	170.4	186.5	206.5	230.4
135°	121.8	123.2	126.8	132.9	140.4	149.7	161.5	174.3	189.0	206.1	226.8
137.5°	126.1	127.5	131.5	137.2	145.0	154.0	165.0	177.2	190.4	206.1	223.6
140°	130.7	131.8	135.7	141.8	149.3	157.9	168.6	180.0	192.2	205.8	221.1
142.5°	135.7	136.8	140.4	146.1	153.2	161.5	171.8	182.2	193.6	205.8	219.0
145°	140.4	141.5	145.0	150.0	156.8	164.7	174.0	183.6	194.0	205.0	216.5
147.5°	145.7	146.1	149.3	154.7	160.4	167.5	176.5	185.0	194.3	204.0	214.3
150°	150.7	151.1	154.0	158.2	163.6	170.4	178.3	186.1	194.3	202.9	211.8
152.5°	155.4	155.4	158.2	162.2	166.8	172.9	179.7	186.8	193.6	201.1	209.0
155°	159.7	160.0	162.2	165.8	169.7	175.0	181.1	187.2	192.9	199.3	206.1
157.5°	164.0	164.0	166.1	169.0	172.5	176.8	182.2	187.2	192.2	197.5	203.3
160°	167.9	167.9	169.3	171.8	174.7	178.6	182.9	187.2	191.1	195.4	200.0
162.5°	171.5	171.1	172.2	174.3	176.8	179.7	183.6	187.2	190.0	193.3	197.2
165°	174.0	174.0	174.7	176.5	178.3	180.4	183.6	186.5	188.6	191.1	194.0
167.5°	176.8	176.5	176.8	178.3	179.3	181.1	183.6	185.8	187.2	189.0	191.1
170°	178.6	178.3	178.6	179.7	180.4	181.5	183.3	185.0	185.8	186.8	188.3
172.5°	180.4	180.0	180.0	180.8	181.1	181.8	182.9	184.3	184.3	184.7	185.8
175°	181.5	181.1	181.1	181.5	181.8	181.8	182.5	183.6	183.3	183.3	184.0
177.5°	182.2	181.8	181.5	181.8	181.8	181.8	182.2	182.9	182.2	182.2	182.5
180°	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8

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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°	6.4	6.8	7.1	7.1	7.5	7.9	7.5	7.5
92.5°	86.1	64.3	50.7	41.8	36.4	33.9	32.5	32.5
95°	264.7	209.3	161.5	126.8	109.3	98.2	91.8	87.2
97.5°	381.2	353.6	314.4	274.3	250.1	228.6	217.9	209.3
100°	430.8	438.0	420.5	394.0	362.9	341.1	330.4	327.6
102.5°	428.3	470.8	481.5	474.4	458.3	444.0	432.6	430.5
105°	400.1	461.9	497.3	511.9	512.6	509.8	504.8	502.6
107.5°	365.4	432.2	481.5	511.5	527.3	533.7	536.5	536.9
110°	334.7	396.5	448.3	487.6	513.0	528.0	534.4	537.6

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	312.2	365.1	413.3	452.6	482.2	501.2	510.8	516.5
115°	298.6	342.6	384.4	418.7	446.9	468.3	479.7	482.6
117.5°	290.8	327.9	361.9	391.9	416.9	435.5	447.6	449.4
120°	285.8	319.0	347.6	372.9	393.3	409.0	418.3	422.2
122.5°	281.5	313.3	338.6	360.1	376.5	389.4	396.9	400.8
125°	276.5	307.2	331.9	351.5	365.8	376.2	382.9	385.1
127.5°	270.8	300.4	325.1	343.6	357.9	367.2	372.9	375.1
130°	263.6	291.9	316.1	335.1	349.7	358.7	364.4	366.5
132.5°	256.1	282.2	305.8	324.7	339.0	349.4	354.7	356.9
135°	249.3	272.6	294.4	312.2	326.5	336.5	342.2	344.4
137.5°	242.9	263.3	282.2	298.6	312.2	322.6	327.2	329.7
140°	237.6	254.3	270.4	285.4	297.9	305.8	310.8	313.6
142.5°	232.6	246.8	260.1	272.6	283.3	290.4	294.7	296.5
145°	227.9	240.1	250.8	260.8	269.7	275.8	279.3	281.1
147.5°	224.0	234.0	242.9	251.1	257.9	263.3	266.1	266.8
150°	220.4	228.6	235.8	242.2	247.9	252.6	254.7	255.1
152.5°	216.5	223.3	229.7	234.7	239.3	242.9	244.0	244.3
155°	212.5	218.3	223.6	227.9	231.5	234.3	235.4	235.4
157.5°	208.3	213.3	217.9	221.5	224.3	226.5	227.2	227.2
160°	204.3	208.3	212.2	215.0	217.2	219.3	219.7	219.7
162.5°	200.4	203.6	206.5	209.0	210.4	212.5	212.9	212.5
165°	196.8	199.0	201.5	203.3	204.7	206.1	205.8	205.4
167.5°	193.3	195.0	197.2	198.3	199.0	200.0	200.0	199.7
170°	190.0	191.1	192.5	193.6	194.3	194.7	194.3	194.3
172.5°	187.2	187.9	188.6	189.3	189.7	190.0	189.7	189.0
175°	184.7	185.0	185.8	185.8	185.8	186.5	185.8	185.0
177.5°	182.9	183.3	183.3	183.6	183.3	183.6	182.9	182.2
180°	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8

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