

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: P1007680

Luminaire Tested: S124IP-B365UB27-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007680
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-B365UB27-4F0-XX-W2A-4
Description: Define 4 Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

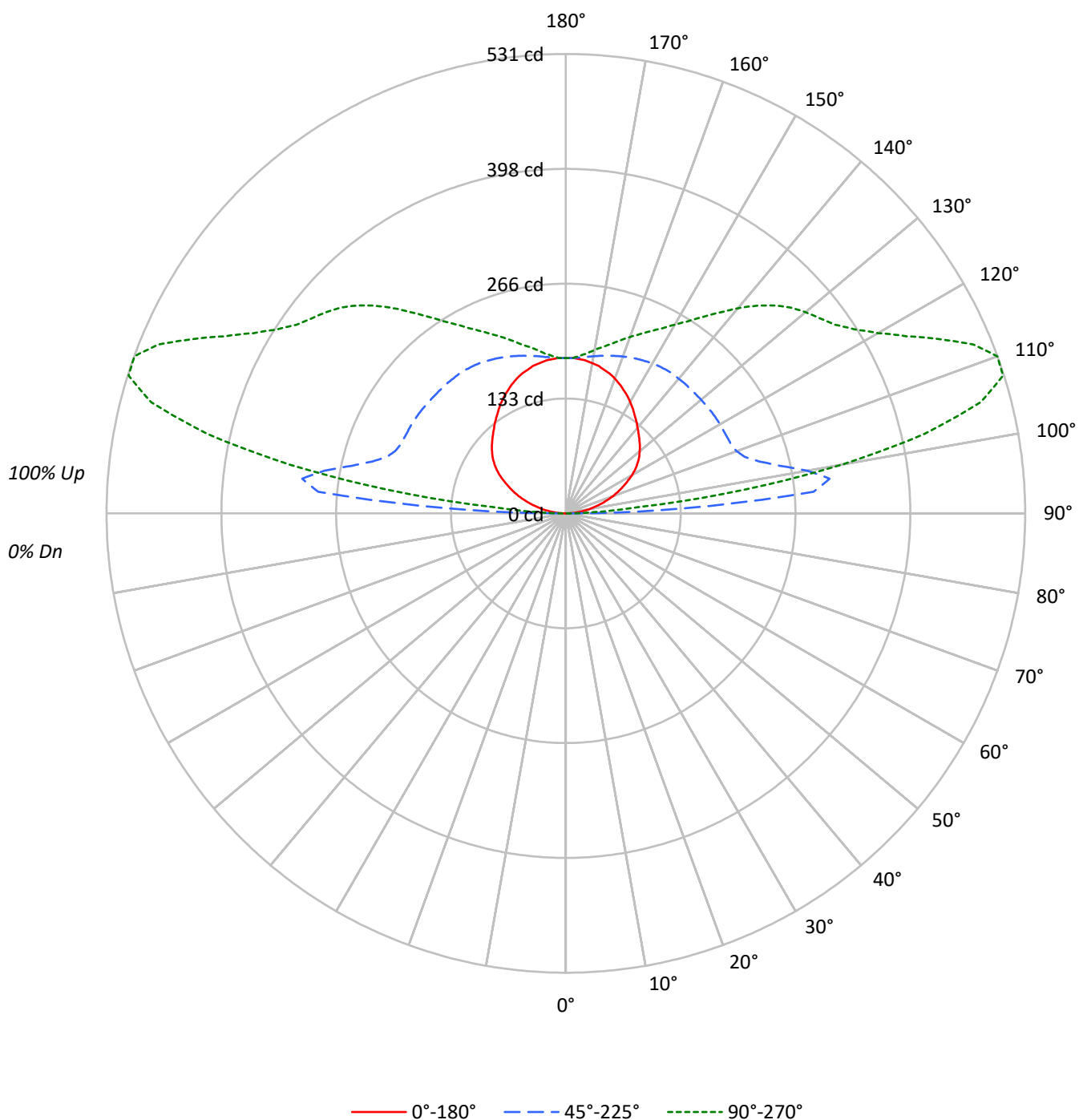
Lumens per Lamp: N/A
Luminaire Lumens: 1308.0 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 9.3
Input Voltage (V):
Input Current (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°	0.7	0.1
90°-100°	130.1	9.9
100°-110°	271.6	20.8
110°-120°	241.4	18.5
120°-130°	203.2	15.5
130°-140°	169.6	13.0
140°-150°	129.5	9.9
150°-160°	91.0	7.0
160°-170°	53.5	4.1
170°-180°	17.4	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°	643.1	49.2
90°-150°	1145.4	87.6
90°-180°	1307.0	99.9
0°-180°	1308.0	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	7	1
95°	12	37	287	142	86	13
105°	41	60	231	498	496	44
115°	73	91	206	396	476	72
125°	101	120	205	337	380	90
135°	120	143	204	299	340	93
145°	139	159	202	252	278	87
155°	158	170	197	223	232	73
165°	172	177	189	200	203	49
175°	179	180	181	183	183	17
180°	180	180	180	180	180	

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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	2.8	2.8	4.9	4.9	5.6	6.3	6.0
92.5°	4.9	7.1	10.9	16.2	22.6	31.7	53.6	87.8	121.0	138.2	115.0
95°	11.6	12.7	16.2	20.8	29.3	44.1	74.8	132.6	216.9	287.4	295.5
97.5°	19.4	19.4	22.6	26.8	34.2	46.9	71.2	121.0	207.7	307.5	370.6
100°	26.8	26.8	29.3	33.5	40.2	51.5	72.3	112.1	184.1	283.5	373.8
102.5°	33.9	34.6	36.7	40.6	46.9	57.5	75.8	109.7	168.2	253.5	347.3
105°	41.3	42.3	44.1	48.3	54.7	64.9	81.8	111.1	160.5	231.3	314.2
107.5°	49.4	50.1	51.8	56.4	62.4	72.6	88.2	115.3	158.3	216.9	287.0
110°	57.5	58.2	59.9	64.2	70.5	80.0	95.6	120.2	159.0	210.2	267.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	65.2	65.9	68.1	71.9	78.3	87.8	102.6	125.5	161.2	207.0	256.7
115°	72.6	73.7	76.2	79.7	86.4	95.9	110.0	131.2	164.0	206.3	250.7
117.5°	80.4	81.5	83.6	87.5	93.8	103.7	117.1	136.8	166.8	205.9	247.6
120°	88.2	88.9	91.3	95.2	101.2	111.1	124.5	142.8	170.0	205.9	245.1
122.5°	95.2	95.9	98.4	101.9	108.6	118.1	131.5	148.5	173.1	205.6	242.3
125°	101.2	102.6	104.7	108.6	115.3	125.2	137.9	154.1	176.3	205.2	239.1
127.5°	106.8	107.9	110.4	114.6	121.7	131.5	143.9	159.0	178.8	204.5	234.9
130°	111.4	112.8	115.7	121.0	127.7	137.9	149.9	163.6	181.6	204.2	231.0
132.5°	116.0	117.1	121.0	125.9	133.3	142.8	154.8	168.2	184.1	203.8	227.5
135°	120.2	121.7	125.2	131.2	138.6	147.8	159.4	172.1	186.5	203.5	223.9
137.5°	124.5	125.9	129.8	135.4	143.2	152.0	162.9	174.9	188.0	203.5	220.8
140°	129.1	130.1	134.0	140.0	147.4	155.9	166.4	177.7	189.7	203.1	218.3
142.5°	134.0	135.1	138.6	144.2	151.3	159.4	169.6	179.8	191.1	203.1	216.2
145°	138.6	139.6	143.2	148.1	154.8	162.6	171.7	181.3	191.5	202.4	213.7
147.5°	143.9	144.2	147.4	152.7	158.3	165.4	174.2	182.7	191.8	201.4	211.6
150°	148.8	149.2	152.0	156.2	161.5	168.2	176.0	183.7	191.8	200.3	209.1
152.5°	153.4	153.4	156.2	160.1	164.7	170.7	177.4	184.4	191.1	198.5	206.3
155°	157.6	158.0	160.1	163.6	167.5	172.8	178.8	184.8	190.4	196.8	203.5
157.5°	161.9	161.9	164.0	166.8	170.3	174.6	179.8	184.8	189.7	195.0	200.7
160°	165.7	165.7	167.2	169.6	172.4	176.3	180.6	184.8	188.7	192.9	197.5
162.5°	169.3	168.9	170.0	172.1	174.6	177.4	181.3	184.8	187.6	190.8	194.7
165°	171.7	171.7	172.4	174.2	176.0	178.1	181.3	184.1	186.2	188.7	191.5
167.5°	174.6	174.2	174.6	176.0	177.0	178.8	181.3	183.4	184.8	186.5	188.7
170°	176.3	176.0	176.3	177.4	178.1	179.1	180.9	182.7	183.4	184.4	185.8
172.5°	178.1	177.7	177.7	178.4	178.8	179.5	180.6	182.0	182.0	182.3	183.4
175°	179.1	178.8	178.8	179.1	179.5	179.5	180.2	181.3	180.9	180.9	181.6
177.5°	179.8	179.5	179.1	179.5	179.5	179.5	179.8	180.6	179.8	179.8	180.2
180°	179.5	179.5	179.5	179.5	179.5	179.5	179.5	179.5	179.5	179.5	179.5

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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°	6.3	6.7	7.1	7.1	7.4	7.8	7.4	7.4
92.5°	85.0	63.5	50.1	41.3	36.0	33.5	32.1	32.1
95°	261.3	206.6	159.4	125.2	107.9	97.0	90.6	86.0
97.5°	376.3	349.1	310.3	270.8	246.8	225.7	215.1	206.6
100°	425.3	432.3	415.1	389.0	358.3	336.8	326.2	323.4
102.5°	422.8	464.8	475.4	468.3	452.4	438.3	427.0	424.9
105°	395.0	456.0	490.9	505.3	506.0	503.2	498.3	496.2
107.5°	360.7	426.7	475.4	505.0	520.5	526.8	529.7	530.0
110°	330.4	391.4	442.6	481.4	506.4	521.2	527.5	530.7

TEST NUMBER: P1007680

CATALOG NUMBER: S124IP-B365UB27-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	308.2	360.4	408.0	446.8	476.1	494.8	504.3	509.9
115°	294.8	338.2	379.4	413.3	441.2	462.3	473.6	476.4
117.5°	287.0	323.7	357.2	386.8	411.5	429.9	441.9	443.6
120°	282.1	314.9	343.1	368.2	388.3	403.8	412.9	416.8
122.5°	277.9	309.3	334.3	355.5	371.7	384.4	391.8	395.7
125°	272.9	303.3	327.6	347.0	361.1	371.3	378.0	380.1
127.5°	267.3	296.6	320.9	339.2	353.3	362.5	368.2	370.3
130°	260.2	288.1	312.1	330.8	345.2	354.0	359.7	361.8
132.5°	252.8	278.6	301.9	320.5	334.7	344.9	350.2	352.3
135°	246.1	269.1	290.6	308.2	322.3	332.2	337.8	339.9
137.5°	239.8	259.9	278.6	294.8	308.2	318.4	323.0	325.5
140°	234.5	251.1	266.9	281.8	294.1	301.9	306.8	309.6
142.5°	229.6	243.7	256.7	269.1	279.6	286.7	290.9	292.7
145°	225.0	237.0	247.6	257.4	266.2	272.2	275.8	277.5
147.5°	221.1	231.0	239.8	247.9	254.6	259.9	262.7	263.4
150°	217.6	225.7	232.7	239.1	244.7	249.3	251.4	251.8
152.5°	213.7	220.4	226.7	231.7	236.3	239.8	240.9	241.2
155°	209.8	215.5	220.8	225.0	228.5	231.3	232.4	232.4
157.5°	205.6	210.5	215.1	218.6	221.5	223.6	224.3	224.3
160°	201.7	205.6	209.5	212.3	214.4	216.5	216.9	216.9
162.5°	197.8	201.0	203.8	206.3	207.7	209.8	210.2	209.8
165°	194.3	196.4	198.9	200.7	202.1	203.5	203.1	202.8
167.5°	190.8	192.5	194.7	195.7	196.4	197.5	197.5	197.1
170°	187.6	188.7	190.1	191.1	191.8	192.2	191.8	191.8
172.5°	184.8	185.5	186.2	186.9	187.3	187.6	187.3	186.5
175°	182.3	182.7	183.4	183.4	183.4	184.1	183.4	182.7
177.5°	180.6	180.9	180.9	181.3	180.9	181.3	180.6	179.8
180°	179.5	179.5	179.5	179.5	179.5	179.5	179.5	179.5

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