

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: P1007350

Luminaire Tested: S122IP-B330UB27-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007350
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-B330UB27-4F0-XX-W2A-4
Description: Define 2 Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

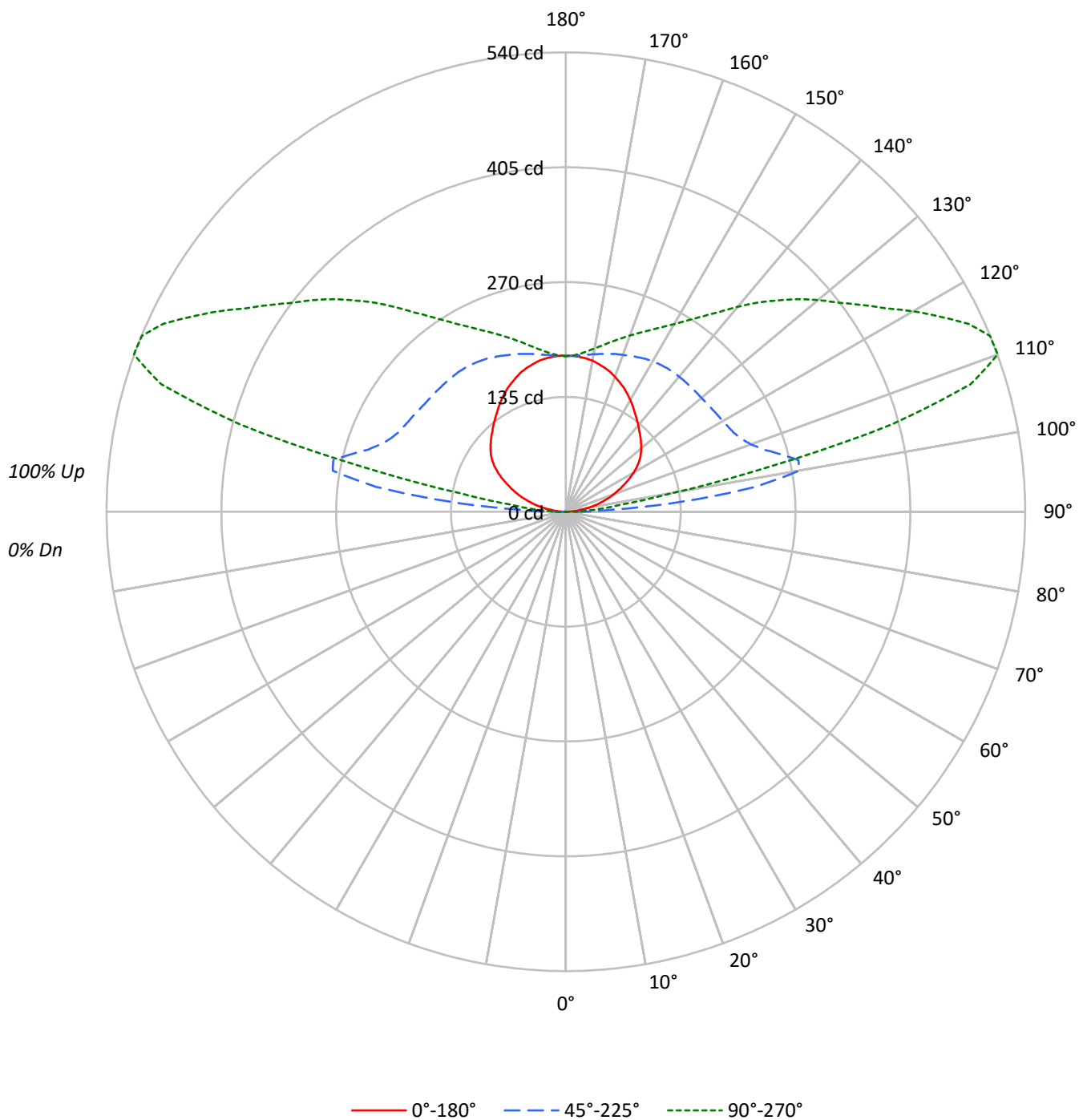
Lumens per Lamp: N/A
Luminaire Lumens: 1277.0 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

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°	71.4	5.6
100°-110°	251.5	19.7
110°-120°	264.1	20.7
120°-130°	217.3	17.0
130°-140°	174.6	13.7
140°-150°	131.9	10.3
150°-160°	92.7	7.3
160°-170°	54.6	4.3
170°-180°	17.8	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°	587.1	46.0
90°-150°	1110.8	87.0
90°-180°	1276.0	99.9
0°-180°	1277.0	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	11	12	1
95°	12	30	138	52	40	13
105°	43	65	261	467	397	46
115°	76	96	218	451	522	75
125°	106	125	210	365	424	94
135°	124	148	208	307	351	96
145°	142	163	206	256	280	89
155°	161	174	200	227	236	74
165°	176	181	192	204	207	49
175°	183	183	185	187	186	17
180°	183	183	183	183	183	

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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	3.5	4.2	5.3	7.0	9.5	11.6	12.0	11.6
92.5°	5.3	7.4	10.2	12.0	14.8	18.7	28.2	41.6	53.6	54.3	45.4
95°	12.3	13.7	17.3	20.4	26.1	34.5	50.7	81.4	122.3	138.1	120.8
97.5°	18.3	20.4	24.3	28.9	35.2	44.7	65.5	108.2	174.0	225.1	226.9
100°	27.1	28.2	31.4	37.0	44.0	53.9	72.6	115.6	191.7	278.3	329.1
102.5°	35.2	35.9	39.1	44.7	52.1	62.0	78.9	115.9	185.0	280.1	367.1
105°	43.0	44.4	46.9	52.1	59.9	69.8	86.3	117.7	175.8	261.1	354.8
107.5°	51.4	52.5	55.0	59.9	67.6	77.5	93.7	121.5	170.9	243.4	328.7
110°	59.9	61.3	63.4	68.0	75.4	85.6	101.1	126.5	169.5	231.5	304.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	67.6	69.1	71.5	75.7	82.8	93.4	108.2	131.8	169.8	223.7	287.5
115°	75.7	77.5	79.6	83.9	90.9	100.4	115.6	137.0	171.2	218.4	274.1
117.5°	84.2	85.6	87.7	91.6	98.3	108.2	122.3	142.7	173.3	215.6	264.9
120°	92.0	93.4	95.5	98.6	105.7	115.6	129.3	148.3	175.5	213.1	257.9
122.5°	99.4	100.4	102.5	106.0	113.1	123.3	136.0	153.3	177.9	211.7	251.9
125°	105.7	106.8	108.9	113.1	120.1	130.0	142.7	158.5	180.4	210.0	246.3
127.5°	111.0	112.4	115.2	119.8	126.5	136.7	149.0	163.5	182.8	208.9	241.0
130°	115.6	117.0	120.5	125.4	132.5	142.3	154.7	168.1	185.7	208.2	235.7
132.5°	119.8	121.5	125.4	130.7	138.1	148.0	159.6	172.6	188.5	207.9	231.5
135°	124.0	125.4	129.7	134.9	143.0	152.9	164.2	176.5	190.6	207.5	227.6
137.5°	127.9	129.7	133.9	139.5	147.6	156.8	168.1	179.7	192.7	207.5	224.8
140°	132.5	133.9	138.1	143.7	151.5	160.7	171.2	182.1	194.1	207.2	222.3
142.5°	137.0	138.1	142.0	147.6	155.0	163.5	173.7	184.3	195.2	207.2	219.8
145°	141.6	143.0	146.6	151.8	158.9	166.6	176.2	186.0	195.9	206.5	217.7
147.5°	146.6	147.6	151.1	156.1	162.1	169.1	178.3	187.1	196.2	205.4	215.6
150°	151.5	152.6	155.4	159.9	165.2	171.6	179.7	187.8	195.9	204.3	212.8
152.5°	156.4	156.8	159.6	163.5	168.4	174.0	181.1	188.1	195.2	202.6	210.3
155°	161.0	161.4	163.5	167.3	171.2	176.5	182.5	188.5	194.5	200.5	207.2
157.5°	164.9	165.2	167.0	170.5	173.7	178.3	183.6	188.5	193.1	198.4	204.3
160°	168.8	169.1	170.5	173.3	176.2	180.0	184.3	188.5	192.0	196.2	201.2
162.5°	172.6	172.3	173.7	175.8	178.3	181.1	184.6	188.1	191.0	194.5	198.4
165°	175.5	175.1	175.8	177.9	179.7	181.8	185.0	187.4	189.5	192.0	195.2
167.5°	177.9	177.6	178.3	179.7	181.1	182.5	185.0	187.1	188.1	189.9	192.0
170°	180.4	179.7	180.0	181.1	181.8	182.8	184.6	186.4	187.1	188.1	189.5
172.5°	181.8	181.4	181.1	182.1	182.5	183.2	184.3	185.3	185.7	186.0	187.1
175°	182.8	182.5	182.1	182.8	182.8	183.2	183.9	184.6	184.3	184.6	185.0
177.5°	183.6	182.8	182.5	183.2	183.2	183.2	183.6	184.3	183.6	183.2	183.6
180°	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2

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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°	11.3	10.6	11.3	11.6	11.6	11.6	11.6	11.6
92.5°	35.6	30.3	26.4	23.6	23.3	21.8	22.2	21.5
95°	92.3	70.8	56.0	48.3	43.7	40.9	39.8	40.2
97.5°	188.8	150.8	115.2	94.1	80.3	73.3	69.4	67.3
100°	321.7	278.0	229.7	187.1	157.8	142.7	132.5	126.1
102.5°	408.7	407.3	375.2	329.4	297.0	268.5	255.1	245.9
105°	428.1	467.9	472.4	460.8	439.0	417.1	402.0	397.1
107.5°	407.3	466.5	501.0	515.1	514.7	511.6	507.0	498.9
110°	378.7	441.8	486.9	515.8	530.9	537.6	540.8	540.4

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CATALOG NUMBER: S122IP-B330UB27-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	352.7	412.6	461.5	495.7	518.2	530.6	537.3	539.7
115°	332.2	386.5	432.6	468.9	493.9	510.1	519.3	522.5
117.5°	315.3	363.9	406.9	441.4	467.2	484.4	493.9	496.4
120°	303.3	347.0	384.4	416.4	441.1	457.7	467.9	471.4
122.5°	293.8	332.9	367.8	396.0	417.5	433.7	442.5	445.3
125°	284.7	321.0	352.0	378.4	398.8	412.2	421.0	423.8
127.5°	275.5	309.0	338.6	363.2	381.2	393.9	401.6	403.7
130°	266.7	297.0	324.8	348.1	365.3	377.3	384.4	387.2
132.5°	258.2	285.7	310.7	332.2	349.1	361.1	367.5	369.9
135°	250.5	273.7	297.0	316.7	331.9	343.5	349.8	351.3
137.5°	244.2	264.2	283.3	300.9	315.3	325.5	331.2	333.3
140°	238.2	255.1	271.3	286.8	298.1	307.2	312.5	314.6
142.5°	233.2	247.0	260.4	272.7	283.3	291.4	295.9	295.9
145°	228.7	240.3	251.2	261.4	269.9	275.9	279.4	280.4
147.5°	225.1	234.6	243.4	251.2	258.6	263.5	266.0	266.7
150°	221.3	229.0	236.4	242.7	248.0	252.3	254.4	254.7
152.5°	217.4	224.4	230.4	235.7	239.6	243.1	244.5	244.5
155°	213.9	219.5	224.8	228.7	232.5	235.0	236.4	235.7
157.5°	209.6	214.6	219.1	222.3	225.1	227.2	227.9	227.9
160°	205.7	209.6	213.5	216.0	218.4	220.2	220.5	220.5
162.5°	201.9	205.0	208.2	210.0	212.4	213.5	213.9	213.5
165°	198.0	200.5	202.9	204.3	205.7	207.2	207.2	206.8
167.5°	194.1	196.2	198.0	199.4	200.1	200.8	200.8	200.5
170°	191.3	192.4	193.8	194.5	194.8	195.9	195.5	194.8
172.5°	188.1	188.8	189.9	190.2	190.6	191.0	190.6	190.2
175°	186.0	186.4	186.7	187.1	187.1	187.4	187.1	186.4
177.5°	184.3	184.3	184.6	184.6	184.6	184.6	184.3	183.6
180°	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2

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