

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: P1007410

Luminaire Tested: S122IP-B725UB27-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007410
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-B725UB27-4F0-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

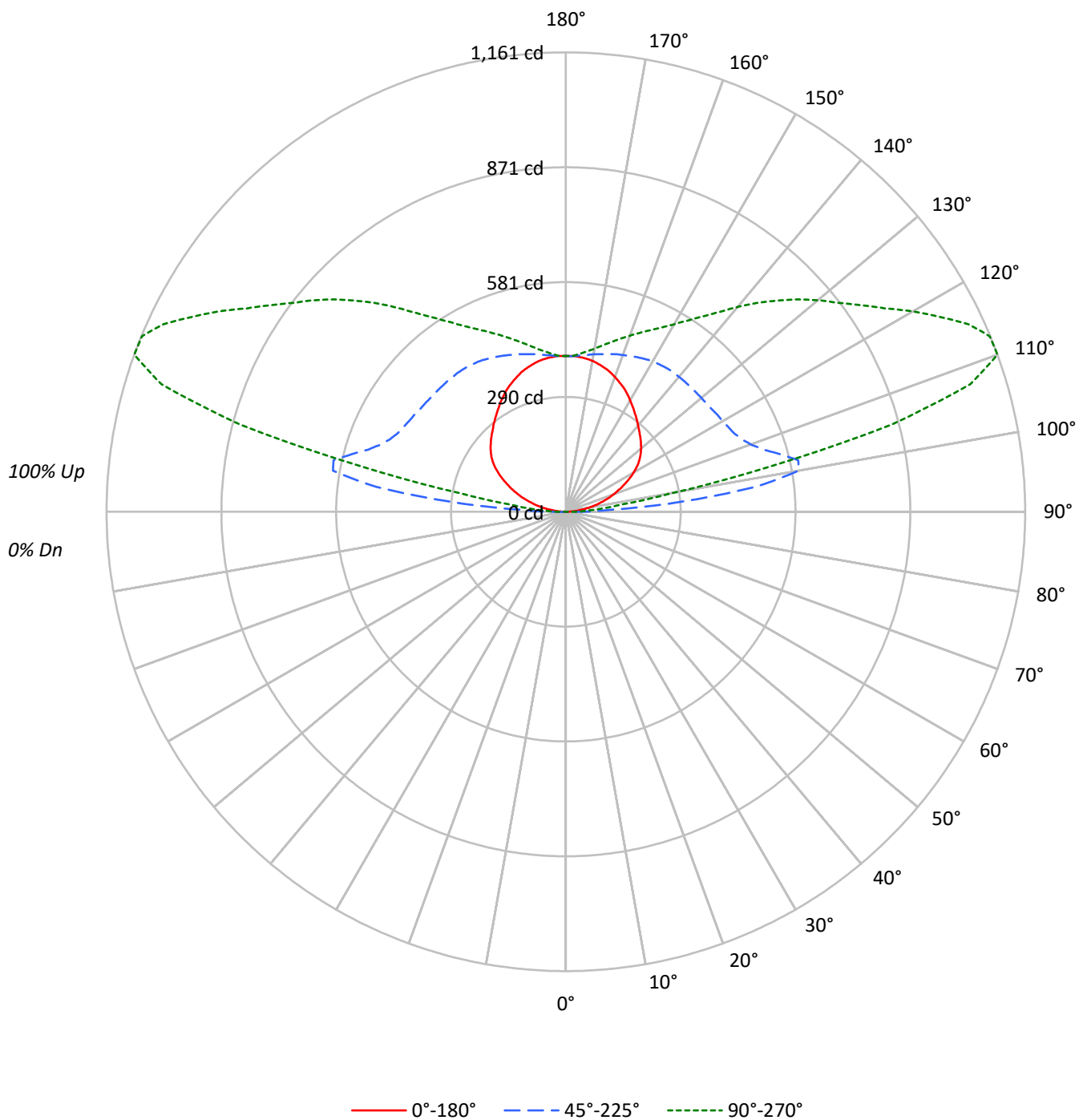
Lumens per Lamp: N/A
Luminaire Lumens: 2743.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 21.1
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°	2.5	0.1
90°-100°	153.4	5.6
100°-110°	540.2	19.7
110°-120°	567.4	20.7
120°-130°	466.8	17.0
130°-140°	375.0	13.7
140°-150°	283.2	10.3
150°-160°	199.1	7.3
160°-170°	117.2	4.3
170°-180°	38.1	1.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.5	0.1
90°-120°	1261.0	46.0
90°-150°	2386.0	87.0
90°-180°	2740.0	99.9
0°-180°	2743.0	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	10	26	25	25	2
95°	26	65	297	112	86	27
105°	92	139	561	1002	853	98
115°	163	205	469	968	1122	161
125°	227	269	451	784	910	202
135°	266	318	446	659	754	206
145°	304	350	444	551	602	191
155°	346	373	431	487	506	159
165°	377	388	412	437	444	106
175°	393	393	396	401	400	37
180°	394	394	394	394	394	

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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°	0.8	3.0	6.1	7.6	9.1	11.4	15.1	20.4	25.0	25.7	25.0
92.5°	11.4	15.9	21.9	25.7	31.8	40.1	60.5	89.3	115.0	116.5	97.6
95°	26.5	29.5	37.1	43.9	56.0	74.2	109.0	174.8	262.6	296.7	259.6
97.5°	39.4	43.9	52.2	62.1	75.7	96.1	140.8	232.3	373.8	483.6	487.4
100°	58.3	60.5	67.4	79.5	94.6	115.8	155.9	248.2	411.7	597.8	706.8
102.5°	75.7	77.2	84.0	96.1	112.0	133.2	169.5	249.0	397.3	601.6	788.5
105°	92.3	95.4	100.6	112.0	128.7	149.8	185.4	252.8	377.6	560.8	762.1
107.5°	110.5	112.8	118.1	128.7	145.3	166.5	201.3	261.1	367.0	522.9	706.1
110°	128.7	131.7	136.2	146.1	161.9	183.9	217.2	271.7	364.0	497.2	653.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	145.3	148.3	153.6	162.7	177.8	200.5	232.3	283.0	364.8	480.5	617.5
115°	162.7	166.5	171.0	180.1	195.2	215.7	248.2	294.4	367.8	469.2	588.8
117.5°	180.9	183.9	188.4	196.8	211.1	232.3	262.6	306.5	372.3	463.1	569.1
120°	197.5	200.5	205.1	211.9	227.0	248.2	277.7	318.6	376.9	457.8	554.0
122.5°	213.4	215.7	220.2	227.8	242.9	264.9	292.1	329.2	382.2	454.8	541.1
125°	227.0	229.3	233.8	242.9	258.1	279.2	306.5	340.5	387.5	451.0	529.0
127.5°	238.4	241.4	247.5	257.3	271.7	293.6	320.1	351.1	392.8	448.8	517.6
130°	248.2	251.2	258.8	269.4	284.5	305.7	332.2	361.0	398.8	447.2	506.3
132.5°	257.3	261.1	269.4	280.8	296.7	317.8	342.8	370.8	404.9	446.5	497.2
135°	266.4	269.4	278.5	289.8	307.2	328.4	352.7	379.1	409.4	445.7	488.9
137.5°	274.7	278.5	287.6	299.7	317.1	336.8	361.0	386.0	414.0	445.7	482.8
140°	284.5	287.6	296.7	308.8	325.4	345.1	367.8	391.2	417.0	445.0	477.5
142.5°	294.4	296.7	305.0	317.1	333.0	351.1	373.1	395.8	419.2	445.0	472.2
145°	304.2	307.2	314.8	326.2	341.3	358.0	378.4	399.6	420.8	443.5	467.7
147.5°	314.8	317.1	324.7	335.2	348.1	363.2	382.9	401.8	421.5	441.2	463.1
150°	325.4	327.7	333.7	343.6	354.9	368.5	386.0	403.4	420.8	438.9	457.1
152.5°	336.0	336.8	342.8	351.1	361.7	373.8	389.0	404.1	419.2	435.1	451.8
155°	345.8	346.6	351.1	359.5	367.8	379.1	392.0	404.9	417.7	430.6	445.0
157.5°	354.2	354.9	358.7	366.3	373.1	382.9	394.3	404.9	414.7	426.1	438.9
160°	362.5	363.2	366.3	372.3	378.4	386.7	395.8	404.9	412.4	421.5	432.1
162.5°	370.8	370.1	373.1	377.6	382.9	389.0	396.5	404.1	410.2	417.7	426.1
165°	376.9	376.1	377.6	382.2	386.0	390.5	397.3	402.6	407.1	412.4	419.2
167.5°	382.2	381.4	382.9	386.0	389.0	392.0	397.3	401.8	404.1	407.9	412.4
170°	387.5	386.0	386.7	389.0	390.5	392.8	396.5	400.3	401.8	404.1	407.1
172.5°	390.5	389.7	389.0	391.2	392.0	393.5	395.8	398.1	398.8	399.6	401.8
175°	392.8	392.0	391.2	392.8	392.8	393.5	395.0	396.5	395.8	396.5	397.3
177.5°	394.3	392.8	392.0	393.5	393.5	393.5	394.3	395.8	394.3	393.5	394.3
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5

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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°	24.2	22.7	24.2	25.0	25.0	25.0	25.0	25.0
92.5°	76.4	65.1	56.8	50.7	49.9	46.9	47.7	46.2
95°	198.3	152.1	120.3	103.7	93.8	87.8	85.5	86.3
97.5°	405.6	323.9	247.5	202.1	172.5	157.4	149.1	144.5
100°	690.9	597.1	493.4	401.8	339.0	306.5	284.5	270.9
102.5°	877.8	874.8	806.0	707.6	638.0	576.7	547.9	528.2
105°	919.5	1005.0	1014.8	989.8	942.9	896.0	863.5	852.9
107.5°	874.8	1002.0	1076.1	1106.4	1105.6	1098.8	1089.0	1071.6
110°	813.5	949.0	1045.9	1107.9	1140.4	1154.8	1161.6	1160.9

TEST NUMBER: P1007410

CATALOG NUMBER: S122IP-B725UB27-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	757.5	886.2	991.4	1064.8	1113.2	1139.7	1154.1	1159.4
115°	713.6	830.2	929.3	1007.3	1061.0	1095.8	1115.5	1122.3
117.5°	677.3	781.7	874.1	948.2	1003.5	1040.6	1061.0	1066.3
120°	651.6	745.4	825.6	894.5	947.5	983.0	1005.0	1012.6
122.5°	631.1	715.1	790.1	850.6	896.8	931.6	950.5	956.6
125°	611.5	689.4	756.0	812.8	856.7	885.4	904.3	910.4
127.5°	591.8	663.7	727.3	780.2	818.8	846.1	862.7	867.3
130°	572.9	638.0	697.7	747.7	784.8	810.5	825.6	831.7
132.5°	554.7	613.7	667.5	713.6	750.0	775.7	789.3	794.6
135°	538.1	588.0	638.0	680.3	712.9	737.8	751.5	754.5
137.5°	524.4	567.6	608.4	646.3	677.3	699.3	711.4	715.9
140°	511.6	547.9	582.7	616.0	640.2	659.9	671.3	675.8
142.5°	501.0	530.5	559.2	585.7	608.4	625.8	635.7	635.7
145°	491.1	516.1	539.6	561.5	579.7	592.5	600.1	602.4
147.5°	483.6	504.0	522.9	539.6	555.5	566.1	571.4	572.9
150°	475.2	491.9	507.8	521.4	532.8	541.8	546.4	547.1
152.5°	466.9	482.1	494.9	506.3	514.6	522.2	525.2	525.2
155°	459.4	471.5	482.8	491.1	499.5	504.8	507.8	506.3
157.5°	450.3	460.9	470.7	477.5	483.6	488.1	489.6	489.6
160°	442.0	450.3	458.6	463.9	469.2	473.0	473.7	473.7
162.5°	433.6	440.4	447.2	451.0	456.3	458.6	459.4	458.6
165°	425.3	430.6	435.9	438.9	442.0	445.0	445.0	444.2
167.5°	417.0	421.5	425.3	428.3	429.8	431.4	431.4	430.6
170°	410.9	413.2	416.2	417.7	418.5	420.8	420.0	418.5
172.5°	404.1	405.6	407.9	408.7	409.4	410.2	409.4	408.7
175°	399.6	400.3	401.1	401.8	401.8	402.6	401.8	400.3
177.5°	395.8	395.8	396.5	396.5	396.5	396.5	395.8	394.3
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5

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