

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: P1007440

Luminaire Tested: S122IP-B925UB27-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007440
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-B925UB27-4F0-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

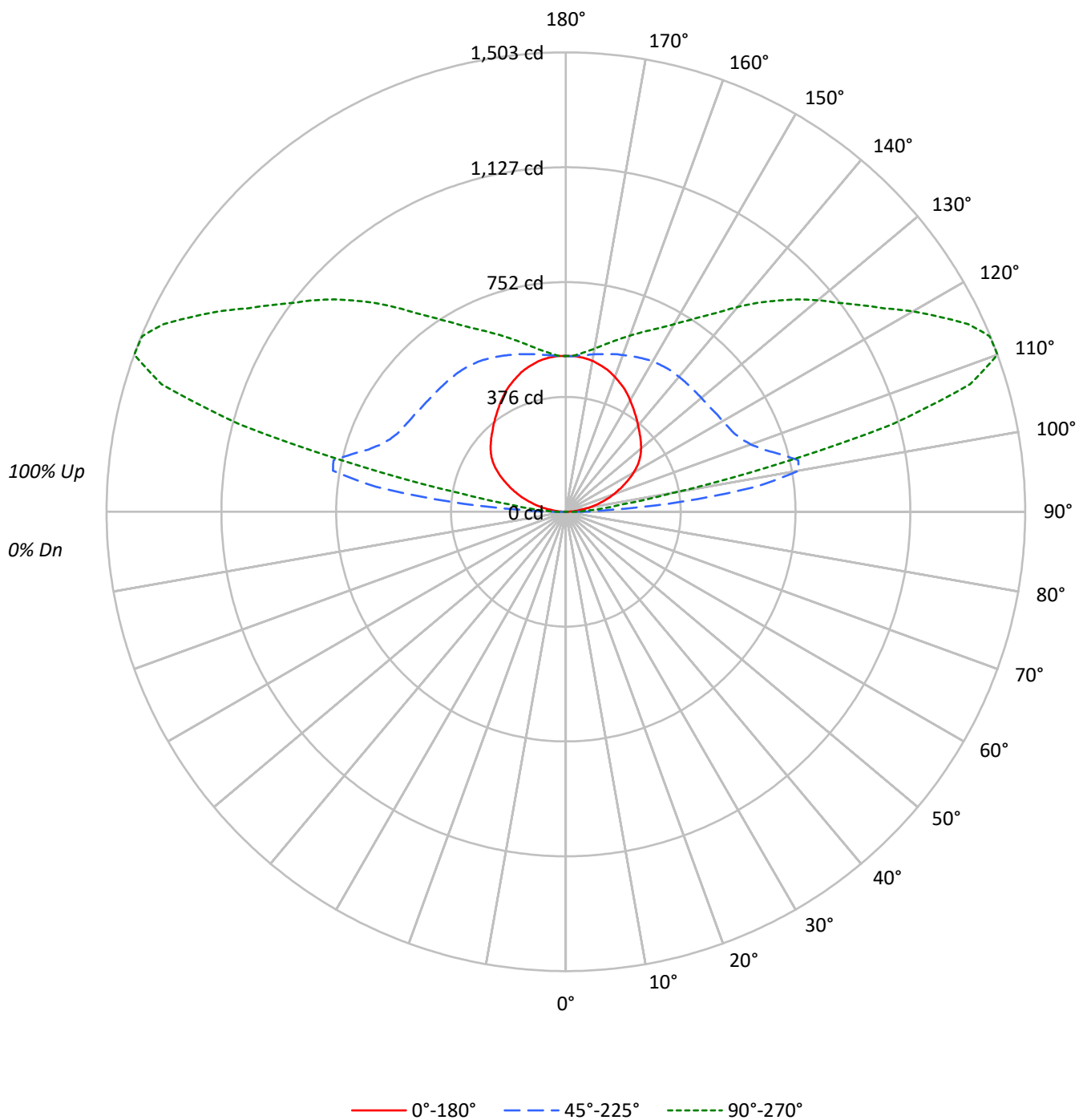
Lumens per Lamp: N/A
Luminaire Lumens: 3551.0 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 28.5
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°	3.3	0.1
90°-100°	198.6	5.6
100°-110°	699.4	19.7
110°-120°	734.5	20.7
120°-130°	604.3	17.0
130°-140°	485.4	13.7
140°-150°	366.7	10.3
150°-160°	257.8	7.3
160°-170°	151.7	4.3
170°-180°	49.4	1.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.3	0.1
90°-120°	1632.5	46.0
90°-150°	3088.8	87.0
90°-180°	3548.0	99.9
0°-180°	3551.0	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	13	33	32	32	2
95°	34	84	384	145	112	35
105°	120	180	726	1298	1104	127
115°	211	266	607	1254	1453	209
125°	294	348	584	1015	1179	261
135°	345	412	577	853	977	266
145°	394	453	574	713	780	247
155°	448	483	557	630	655	206
165°	488	503	534	566	575	138
175°	508	509	513	520	518	48
180°	509	509	509	509	509	



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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°	1.0	3.9	7.8	9.8	11.8	14.7	19.6	26.5	32.3	33.3	32.3
92.5°	14.7	20.6	28.4	33.3	41.1	51.9	78.4	115.6	148.9	150.9	126.4
95°	34.3	38.2	48.0	56.8	72.5	96.0	141.1	226.3	340.0	384.0	336.0
97.5°	50.9	56.8	67.6	80.3	98.0	124.4	182.2	300.8	484.0	626.0	630.9
100°	75.4	78.4	87.2	102.9	122.5	149.9	201.8	321.3	532.9	774.0	915.0
102.5°	98.0	99.9	108.7	124.4	145.0	172.4	219.4	322.3	514.3	778.8	1020.8
105°	119.5	123.4	130.3	145.0	166.5	194.0	240.0	327.2	488.9	725.9	986.5
107.5°	143.0	146.0	152.8	166.5	188.1	215.5	260.6	338.0	475.1	677.0	914.0
110°	166.5	170.5	176.3	189.1	209.7	238.1	281.2	351.7	471.2	643.7	846.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	188.1	192.0	198.9	210.6	230.2	259.6	300.8	366.4	472.2	622.1	799.4
115°	210.6	215.5	221.4	233.2	252.8	279.2	321.3	381.1	476.1	607.4	762.2
117.5°	234.1	238.1	243.9	254.7	273.3	300.8	340.0	396.8	482.0	599.6	736.7
120°	255.7	259.6	265.5	274.3	293.9	321.3	359.5	412.4	487.9	592.7	717.1
122.5°	276.3	279.2	285.1	294.9	314.5	342.9	378.2	426.2	494.7	588.8	700.5
125°	293.9	296.8	302.7	314.5	334.1	361.5	396.8	440.9	501.6	583.9	684.8
127.5°	308.6	312.5	320.4	333.1	351.7	380.1	414.4	454.6	508.5	581.0	670.1
130°	321.3	325.3	335.1	348.8	368.4	395.8	430.1	467.3	516.3	579.0	655.4
132.5°	333.1	338.0	348.8	363.5	384.0	411.5	443.8	480.0	524.1	578.0	643.7
135°	344.8	348.8	360.5	375.2	397.8	425.2	456.5	490.8	530.0	577.0	632.9
137.5°	355.6	360.5	372.3	388.0	410.5	436.0	467.3	499.6	535.9	577.0	625.0
140°	368.4	372.3	384.0	399.7	421.3	446.7	476.1	506.5	539.8	576.1	618.2
142.5°	381.1	384.0	394.8	410.5	431.1	454.6	483.0	512.4	542.7	576.1	611.3
145°	393.8	397.8	407.5	422.2	441.8	463.4	489.8	517.3	544.7	574.1	605.4
147.5°	407.5	410.5	420.3	434.0	450.7	470.2	495.7	520.2	545.7	571.2	599.6
150°	421.3	424.2	432.0	444.8	459.5	477.1	499.6	522.2	544.7	568.2	591.7
152.5°	435.0	436.0	443.8	454.6	468.3	484.0	503.6	523.2	542.7	563.3	584.9
155°	447.7	448.7	454.6	465.4	476.1	490.8	507.5	524.1	540.8	557.4	576.1
157.5°	458.5	459.5	464.4	474.2	483.0	495.7	510.4	524.1	536.9	551.6	568.2
160°	469.3	470.2	474.2	482.0	489.8	500.6	512.4	524.1	533.9	545.7	559.4
162.5°	480.0	479.1	483.0	488.9	495.7	503.6	513.4	523.2	531.0	540.8	551.6
165°	487.9	486.9	488.9	494.7	499.6	505.5	514.3	521.2	527.1	533.9	542.7
167.5°	494.7	493.8	495.7	499.6	503.6	507.5	514.3	520.2	523.2	528.1	533.9
170°	501.6	499.6	500.6	503.6	505.5	508.5	513.4	518.3	520.2	523.2	527.1
172.5°	505.5	504.5	503.6	506.5	507.5	509.4	512.4	515.3	516.3	517.3	520.2
175°	508.5	507.5	506.5	508.5	508.5	509.4	511.4	513.4	512.4	513.4	514.3
177.5°	510.4	508.5	507.5	509.4	509.4	509.4	510.4	512.4	510.4	509.4	510.4
180°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4

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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°	31.3	29.4	31.3	32.3	32.3	32.3	32.3	32.3
92.5°	98.9	84.3	73.5	65.6	64.7	60.7	61.7	59.8
95°	256.7	196.9	155.8	134.2	121.5	113.6	110.7	111.7
97.5°	525.1	419.3	320.4	261.6	223.4	203.8	193.0	187.1
100°	894.5	773.0	638.8	520.2	438.9	396.8	368.4	350.7
102.5°	1136.4	1132.5	1043.4	916.0	825.9	746.5	709.3	683.8
105°	1190.3	1301.0	1313.8	1281.4	1220.7	1159.9	1117.8	1104.1
107.5°	1132.5	1297.1	1393.1	1432.3	1431.3	1422.5	1409.8	1387.2
110°	1053.2	1228.5	1353.9	1434.3	1476.4	1495.0	1503.8	1502.8

TEST NUMBER: P1007440

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	980.7	1147.2	1283.4	1378.4	1441.1	1475.4	1494.0	1500.9
115°	923.8	1074.7	1203.1	1304.0	1373.5	1418.6	1444.1	1452.9
117.5°	876.8	1012.0	1131.5	1227.5	1299.1	1347.1	1373.5	1380.4
120°	843.5	965.0	1068.8	1158.0	1226.6	1272.6	1301.0	1310.8
122.5°	817.1	925.8	1022.8	1101.2	1160.9	1206.0	1230.5	1238.3
125°	791.6	892.5	978.7	1052.2	1109.0	1146.2	1170.7	1178.6
127.5°	766.1	859.2	941.5	1010.1	1060.0	1095.3	1116.8	1122.7
130°	741.6	825.9	903.3	967.9	1015.9	1049.2	1068.8	1076.7
132.5°	718.1	794.5	864.1	923.8	970.9	1004.2	1021.8	1028.7
135°	696.6	761.2	825.9	880.7	922.9	955.2	972.8	976.7
137.5°	678.9	734.8	787.7	836.7	876.8	905.2	920.9	926.8
140°	662.3	709.3	754.4	797.5	828.8	854.3	869.0	874.9
142.5°	648.6	686.8	724.0	758.3	787.7	810.2	822.9	822.9
145°	635.8	668.1	698.5	726.9	750.4	767.1	776.9	779.8
147.5°	626.0	652.5	677.0	698.5	719.1	732.8	739.7	741.6
150°	615.2	636.8	657.4	675.0	689.7	701.5	707.3	708.3
152.5°	604.5	624.1	640.7	655.4	666.2	676.0	679.9	679.9
155°	594.7	610.3	625.0	635.8	646.6	653.4	657.4	655.4
157.5°	582.9	596.6	609.4	618.2	626.0	631.9	633.9	633.9
160°	572.1	582.9	593.7	600.5	607.4	612.3	613.3	613.3
162.5°	561.4	570.2	579.0	583.9	590.7	593.7	594.7	593.7
165°	550.6	557.4	564.3	568.2	572.1	576.1	576.1	575.1
167.5°	539.8	545.7	550.6	554.5	556.5	558.4	558.4	557.4
170°	532.0	534.9	538.8	540.8	541.8	544.7	543.7	541.8
172.5°	523.2	525.1	528.1	529.0	530.0	531.0	530.0	529.0
175°	517.3	518.3	519.2	520.2	520.2	521.2	520.2	518.3
177.5°	512.4	512.4	513.4	513.4	513.4	513.4	512.4	510.4
180°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4

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