

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: P1007620

Luminaire Tested: S124IP-B1035UB27-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007620
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-B1035UB27-4F0-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

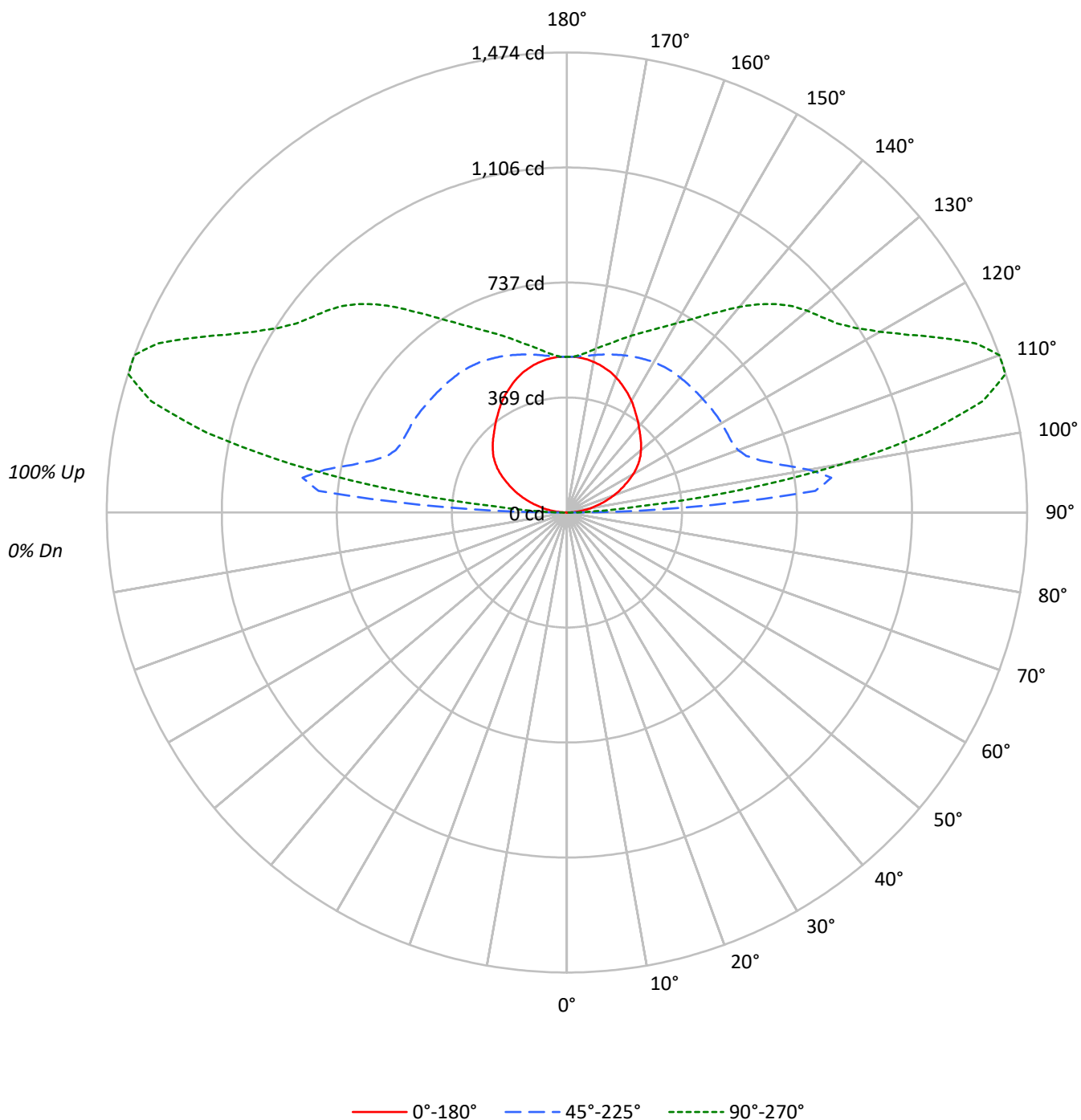
Lumens per Lamp: N/A
Luminaire Lumens: 3634.0 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 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°	2.0	0.1
90°-100°	361.4	9.9
100°-110°	754.6	20.8
110°-120°	670.8	18.5
120°-130°	564.6	15.5
130°-140°	471.1	13.0
140°-150°	359.7	9.9
150°-160°	252.9	7.0
160°-170°	148.7	4.1
170°-180°	48.4	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.0	0.1
90°-120°	1786.7	49.2
90°-150°	3182.1	87.6
90°-180°	3632.0	99.9
0°-180°	3634.0	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	8	18	20	21	2
95°	32	102	798	395	239	35
105°	115	166	643	1384	1378	122
115°	202	253	573	1101	1324	200
125°	281	334	570	937	1056	251
135°	334	398	565	832	944	258
145°	385	441	562	702	771	242
155°	438	473	547	619	646	202
165°	477	492	524	555	563	135
175°	498	499	503	510	508	47
180°	499	499	499	499	499	

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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	2.9	5.9	6.9	7.8	7.8	13.7	13.7	15.7	17.6	16.7
92.5°	13.7	19.6	30.4	45.1	62.7	88.2	148.9	244.0	336.0	384.1	319.4
95°	32.3	35.3	45.1	57.8	81.3	122.5	207.7	368.4	602.5	798.5	821.0
97.5°	53.9	53.9	62.7	74.5	95.0	130.3	197.9	336.0	577.1	854.3	1029.7
100°	74.5	74.5	81.3	93.1	111.7	143.0	200.8	311.6	511.4	787.7	1038.5
102.5°	94.1	96.0	101.9	112.7	130.3	159.7	210.6	304.7	467.3	704.4	965.0
105°	114.6	117.6	122.5	134.2	151.9	180.3	227.3	308.6	445.8	642.7	872.9
107.5°	137.2	139.1	144.0	156.8	173.4	201.8	244.9	320.4	439.9	602.5	797.5
110°	159.7	161.7	166.6	178.3	195.9	222.4	265.5	334.1	441.9	583.9	743.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	181.3	183.2	189.1	199.9	217.5	244.0	285.1	348.8	447.7	575.1	713.2
115°	201.8	204.8	211.6	221.4	240.0	266.5	305.7	364.5	455.6	573.1	696.6
117.5°	223.4	226.3	232.2	243.0	260.6	288.0	325.3	380.1	463.4	572.2	687.8
120°	244.9	246.9	253.8	264.5	281.2	308.6	345.8	396.8	472.2	572.2	680.9
122.5°	264.5	266.5	273.3	283.1	301.8	328.2	365.4	412.5	481.0	571.2	673.1
125°	281.2	285.1	291.0	301.8	320.4	347.8	383.1	428.1	489.9	570.2	664.3
127.5°	296.9	299.8	306.7	318.4	338.0	365.4	399.7	441.9	496.7	568.2	652.5
130°	309.6	313.5	321.4	336.0	354.7	383.1	416.4	454.6	504.6	567.3	641.7
132.5°	322.3	325.3	336.0	349.8	370.3	396.8	430.1	467.3	511.4	566.3	631.9
135°	334.1	338.0	347.8	364.5	385.0	410.5	442.8	478.1	518.3	565.3	622.1
137.5°	345.8	349.8	360.5	376.2	397.8	422.3	452.6	485.9	522.2	565.3	613.3
140°	358.6	361.5	372.3	389.0	409.5	433.0	462.4	493.8	527.1	564.3	606.5
142.5°	372.3	375.2	385.0	400.7	420.3	442.8	471.3	499.7	531.0	564.3	600.6
145°	385.0	388.0	397.8	411.5	430.1	451.7	477.1	503.6	532.0	562.4	593.7
147.5°	399.7	400.7	409.5	424.2	439.9	459.5	484.0	507.5	533.0	559.4	587.8
150°	413.4	414.4	422.3	434.0	448.7	467.3	488.9	510.4	533.0	556.5	581.0
152.5°	426.2	426.2	434.0	444.8	457.5	474.2	492.8	512.4	531.0	551.6	573.1
155°	437.9	438.9	444.8	454.6	465.4	480.1	496.7	513.4	529.1	546.7	565.3
157.5°	449.7	449.7	455.6	463.4	473.2	485.0	499.7	513.4	527.1	541.8	557.5
160°	460.5	460.5	464.4	471.3	479.1	489.9	501.6	513.4	524.2	535.9	548.6
162.5°	470.3	469.3	472.2	478.1	485.0	492.8	503.6	513.4	521.2	530.0	540.8
165°	477.1	477.1	479.1	484.0	488.9	494.8	503.6	511.4	517.3	524.2	532.0
167.5°	485.0	484.0	485.0	488.9	491.8	496.7	503.6	509.5	513.4	518.3	524.2
170°	489.9	488.9	489.9	492.8	494.8	497.7	502.6	507.5	509.5	512.4	516.3
172.5°	494.8	493.8	493.8	495.7	496.7	498.7	501.6	505.5	505.5	506.5	509.5
175°	497.7	496.7	496.7	497.7	498.7	498.7	500.6	503.6	502.6	502.6	504.6
177.5°	499.7	498.7	497.7	498.7	498.7	498.7	499.7	501.6	499.7	499.7	500.6
180°	498.7	498.7	498.7	498.7	498.7	498.7	498.7	498.7	498.7	498.7	498.7

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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°	17.6	18.6	19.6	19.6	20.6	21.6	20.6	20.6
92.5°	236.1	176.4	139.1	114.6	99.9	93.1	89.2	89.2
95°	726.0	574.1	442.8	347.8	299.8	269.4	251.8	239.1
97.5°	1045.4	969.9	862.2	752.4	685.8	627.0	597.6	574.1
100°	1181.6	1201.2	1153.1	1080.6	995.4	935.6	906.3	898.4
102.5°	1174.7	1291.3	1320.7	1301.1	1257.0	1217.8	1186.5	1180.6
105°	1097.3	1266.8	1363.8	1404.0	1405.9	1398.1	1384.4	1378.5
107.5°	1002.3	1185.5	1320.7	1403.0	1446.1	1463.7	1471.6	1472.5
110°	918.0	1087.5	1229.6	1337.3	1406.9	1448.0	1465.7	1474.5

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	856.3	1001.3	1133.5	1241.3	1322.6	1374.6	1401.0	1416.7
115°	819.1	939.6	1054.2	1148.2	1225.6	1284.4	1315.8	1323.6
117.5°	797.5	899.4	992.5	1074.8	1143.3	1194.3	1227.6	1232.5
120°	783.8	874.9	953.3	1022.8	1078.7	1121.8	1147.3	1158.0
122.5°	772.0	859.2	928.8	987.6	1032.6	1067.9	1088.5	1099.3
125°	758.3	842.6	910.2	964.1	1003.2	1031.7	1050.3	1056.2
127.5°	742.6	824.0	891.6	942.5	981.7	1007.2	1022.8	1028.7
130°	723.0	800.4	867.1	919.0	959.2	983.7	999.3	1005.2
132.5°	702.5	774.0	838.7	890.6	929.8	958.2	972.9	978.8
135°	683.9	747.5	807.3	856.3	895.5	922.9	938.6	944.5
137.5°	666.2	722.1	774.0	819.1	856.3	884.7	897.4	904.3
140°	651.5	697.6	741.7	782.8	817.1	838.7	852.4	860.2
142.5°	637.8	677.0	713.2	747.5	776.9	796.5	808.3	813.2
145°	625.1	658.4	687.8	715.2	739.7	756.4	766.2	771.0
147.5°	614.3	641.7	666.2	688.8	707.4	722.1	729.9	731.9
150°	604.5	627.0	646.6	664.3	679.9	692.7	698.5	699.5
152.5°	593.7	612.3	630.0	643.7	656.4	666.2	669.2	670.1
155°	582.9	598.6	613.3	625.1	634.9	642.7	645.6	645.6
157.5°	571.2	584.9	597.6	607.4	615.3	621.1	623.1	623.1
160°	560.4	571.2	582.0	589.8	595.7	601.6	602.5	602.5
162.5°	549.6	558.4	566.3	573.1	577.1	582.9	583.9	582.9
165°	539.8	545.7	552.6	557.5	561.4	565.3	564.3	563.3
167.5°	530.0	534.9	540.8	543.8	545.7	548.6	548.6	547.7
170°	521.2	524.2	528.1	531.0	533.0	534.0	533.0	533.0
172.5°	513.4	515.3	517.3	519.3	520.2	521.2	520.2	518.3
175°	506.5	507.5	509.5	509.5	509.5	511.4	509.5	507.5
177.5°	501.6	502.6	502.6	503.6	502.6	503.6	501.6	499.7
180°	498.7	498.7	498.7	498.7	498.7	498.7	498.7	498.7

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