

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: P1007641

Luminaire Tested: S124IP-B1035UB35-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007641
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-B1035UB35-4F0-XX-W2A-4
Description: Define 4 Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

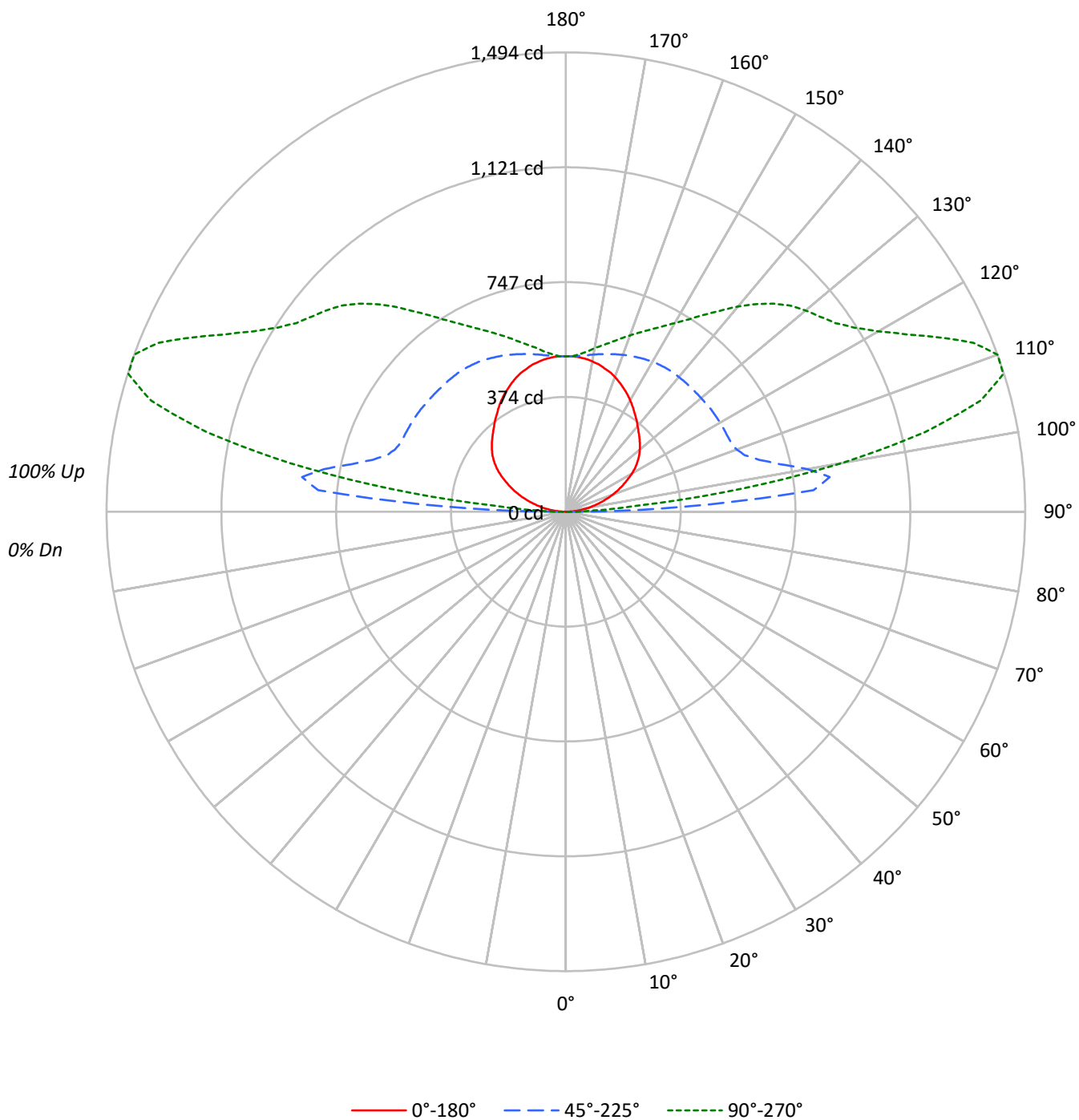
Lumens per Lamp: N/A
Luminaire Lumens: 3682.0 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

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°	366.2	9.9
100°-110°	764.5	20.8
110°-120°	679.6	18.5
120°-130°	572.1	15.5
130°-140°	477.3	13.0
140°-150°	364.4	9.9
150°-160°	256.2	7.0
160°-170°	150.7	4.1
170°-180°	49.0	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°	1810.3	49.2
90°-150°	3224.1	87.6
90°-180°	3680.0	99.9
0°-180°	3682.0	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°	33	103	809	401	242	36
105°	116	168	651	1402	1397	124
115°	204	257	581	1116	1341	203
125°	285	338	578	950	1070	254
135°	338	403	573	843	957	262
145°	390	447	570	711	781	245
155°	444	479	554	627	654	205
165°	483	498	531	562	571	137
175°	504	505	509	516	514	48
180°	505	505	505	505	505	

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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	3.0	6.0	6.9	7.9	7.9	13.9	13.9	15.9	17.9	16.9
92.5°	13.9	19.9	30.8	45.7	63.5	89.3	150.9	247.2	340.5	389.1	323.6
95°	32.8	35.7	45.7	58.6	82.4	124.1	210.4	373.2	610.5	809.0	831.9
97.5°	54.6	54.6	63.5	75.4	96.3	132.0	200.5	340.5	584.7	865.6	1043.3
100°	75.4	75.4	82.4	94.3	113.2	144.9	203.5	315.7	518.2	798.1	1052.2
102.5°	95.3	97.3	103.2	114.2	132.0	161.8	213.4	308.7	473.5	713.7	977.8
105°	116.1	119.1	124.1	136.0	153.9	182.7	230.3	312.7	451.7	651.2	884.5
107.5°	139.0	141.0	145.9	158.8	175.7	204.5	248.2	324.6	445.7	610.5	808.0
110°	161.8	163.8	168.8	180.7	198.5	225.3	269.0	338.5	447.7	591.6	753.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	183.6	185.6	191.6	202.5	220.4	247.2	288.9	353.4	453.7	582.7	722.7
115°	204.5	207.5	214.4	224.3	243.2	270.0	309.7	369.3	461.6	580.7	705.8
117.5°	226.3	229.3	235.3	246.2	264.1	291.8	329.6	385.2	469.5	579.7	696.9
120°	248.2	250.2	257.1	268.0	284.9	312.7	350.4	402.0	478.5	579.7	689.9
122.5°	268.0	270.0	277.0	286.9	305.7	332.5	370.3	417.9	487.4	578.7	682.0
125°	284.9	288.9	294.8	305.7	324.6	352.4	388.1	433.8	496.3	577.7	673.0
127.5°	300.8	303.8	310.7	322.6	342.5	370.3	405.0	447.7	503.3	575.8	661.1
130°	313.7	317.7	325.6	340.5	359.3	388.1	421.9	460.6	511.2	574.8	650.2
132.5°	326.6	329.6	340.5	354.4	375.2	402.0	435.8	473.5	518.2	573.8	640.3
135°	338.5	342.5	352.4	369.3	390.1	415.9	448.7	484.4	525.1	572.8	630.3
137.5°	350.4	354.4	365.3	381.2	403.0	427.8	458.6	492.4	529.1	572.8	621.4
140°	363.3	366.3	377.2	394.1	414.9	438.8	468.5	500.3	534.1	571.8	614.5
142.5°	377.2	380.2	390.1	406.0	425.9	448.7	477.5	506.3	538.0	571.8	608.5
145°	390.1	393.1	403.0	416.9	435.8	457.6	483.4	510.2	539.0	569.8	601.6
147.5°	405.0	406.0	414.9	429.8	445.7	465.6	490.4	514.2	540.0	566.8	595.6
150°	418.9	419.9	427.8	439.8	454.6	473.5	495.3	517.2	540.0	563.8	588.7
152.5°	431.8	431.8	439.8	450.7	463.6	480.5	499.3	519.2	538.0	558.9	580.7
155°	443.7	444.7	450.7	460.6	471.5	486.4	503.3	520.2	536.0	553.9	572.8
157.5°	455.6	455.6	461.6	469.5	479.5	491.4	506.3	520.2	534.1	548.9	564.8
160°	466.6	466.6	470.5	477.5	485.4	496.3	508.2	520.2	531.1	543.0	555.9
162.5°	476.5	475.5	478.5	484.4	491.4	499.3	510.2	520.2	528.1	537.0	548.0
165°	483.4	483.4	485.4	490.4	495.3	501.3	510.2	518.2	524.1	531.1	539.0
167.5°	491.4	490.4	491.4	495.3	498.3	503.3	510.2	516.2	520.2	525.1	531.1
170°	496.3	495.3	496.3	499.3	501.3	504.3	509.2	514.2	516.2	519.2	523.1
172.5°	501.3	500.3	500.3	502.3	503.3	505.3	508.2	512.2	512.2	513.2	516.2
175°	504.3	503.3	503.3	504.3	505.3	505.3	507.3	510.2	509.2	509.2	511.2
177.5°	506.3	505.3	504.3	505.3	505.3	505.3	506.3	508.2	506.3	506.3	507.3
180°	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3

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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°	17.9	18.9	19.9	19.9	20.8	21.8	20.8	20.8
92.5°	239.2	178.7	141.0	116.1	101.3	94.3	90.3	90.3
95°	735.6	581.7	448.7	352.4	303.8	273.0	255.1	242.2
97.5°	1059.2	982.7	873.6	762.4	694.9	635.3	605.5	581.7
100°	1197.2	1217.0	1168.4	1094.9	1008.6	948.0	918.2	910.3
102.5°	1190.2	1308.3	1338.1	1318.3	1273.6	1233.9	1202.1	1196.2
105°	1111.8	1283.5	1381.8	1422.5	1424.5	1416.5	1402.6	1396.7
107.5°	1015.5	1201.1	1338.1	1421.5	1465.2	1483.1	1491.0	1492.0
110°	930.1	1101.9	1245.8	1355.0	1425.5	1467.2	1485.0	1494.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	867.6	1014.5	1148.5	1257.7	1340.1	1392.7	1419.5	1435.4
115°	829.9	952.0	1068.1	1163.4	1241.8	1301.4	1333.2	1341.1
117.5°	808.0	911.3	1005.6	1089.0	1158.4	1210.1	1243.8	1248.8
120°	794.1	886.5	965.9	1036.4	1092.9	1136.6	1162.4	1173.3
122.5°	782.2	870.6	941.1	1000.6	1046.3	1082.0	1102.9	1113.8
125°	768.3	853.7	922.2	976.8	1016.5	1045.3	1064.1	1070.1
127.5°	752.4	834.8	903.3	955.0	994.7	1020.5	1036.4	1042.3
130°	732.6	811.0	878.5	931.1	971.8	996.6	1012.5	1018.5
132.5°	711.7	784.2	849.7	902.3	942.0	970.8	985.7	991.7
135°	692.9	757.4	818.0	867.6	907.3	935.1	951.0	956.9
137.5°	675.0	731.6	784.2	829.9	867.6	896.4	909.3	916.2
140°	660.1	706.8	751.5	793.1	827.9	849.7	863.6	871.6
142.5°	646.2	685.9	722.7	757.4	787.2	807.0	819.0	823.9
145°	633.3	667.1	696.9	724.7	749.5	766.3	776.3	781.2
147.5°	622.4	650.2	675.0	697.8	716.7	731.6	739.5	741.5
150°	612.5	635.3	655.2	673.0	688.9	701.8	707.8	708.8
152.5°	601.6	620.4	638.3	652.2	665.1	675.0	678.0	679.0
155°	590.6	606.5	621.4	633.3	643.3	651.2	654.2	654.2
157.5°	578.7	592.6	605.5	615.5	623.4	629.4	631.3	631.3
160°	567.8	578.7	589.6	597.6	603.5	609.5	610.5	610.5
162.5°	556.9	565.8	573.8	580.7	584.7	590.6	591.6	590.6
165°	547.0	552.9	559.9	564.8	568.8	572.8	571.8	570.8
167.5°	537.0	542.0	548.0	550.9	552.9	555.9	555.9	554.9
170°	528.1	531.1	535.1	538.0	540.0	541.0	540.0	540.0
172.5°	520.2	522.1	524.1	526.1	527.1	528.1	527.1	525.1
175°	513.2	514.2	516.2	516.2	516.2	518.2	516.2	514.2
177.5°	508.2	509.2	509.2	510.2	509.2	510.2	508.2	506.3
180°	505.3	505.3	505.3	505.3	505.3	505.3	505.3	505.3

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