

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: P1007494

Luminaire Tested: S123IP-B1025UB40-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123IP-B1025UB40-4F0-XX-W2A-4
Description: Define 3 Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

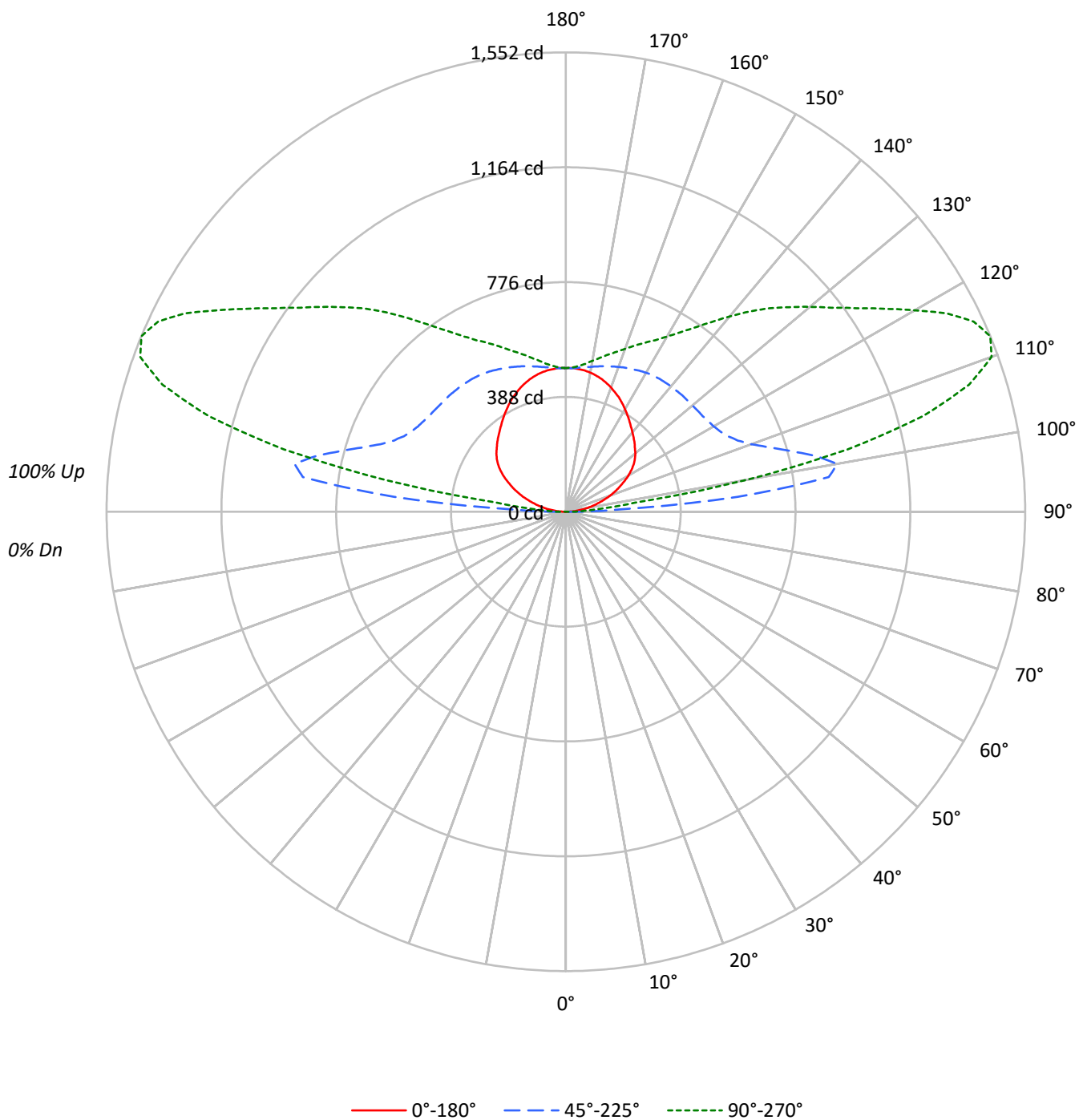
Lumens per Lamp: N/A
Luminaire Lumens: 3654.0 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

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°	2.7	0.1
90°-100°	263.4	7.2
100°-110°	771.2	21.1
110°-120°	753.1	20.6
120°-130°	599.7	16.4
130°-140°	473.2	12.9
140°-150°	353.0	9.7
150°-160°	246.1	6.7
160°-170°	144.6	4.0
170°-180°	47.0	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.7	0.1
90°-120°	1787.6	48.9
90°-150°	3213.6	87.9
90°-180°	3651.0	99.9
0°-180°	3654.0	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°	2	12	25	28	28	3
95°	33	109	583	170	114	35
105°	114	168	790	1382	1250	121
115°	201	251	604	1325	1520	199
125°	280	331	564	1022	1199	249
135°	328	392	556	842	972	254
145°	374	429	549	690	760	235
155°	426	459	532	604	630	196
165°	465	478	509	540	549	131
175°	484	485	488	495	494	46
180°	485	485	485	485	485	

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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°	2.0	3.9	5.9	8.8	10.8	12.8	15.7	18.7	21.6	24.6	23.6
92.5°	14.7	21.6	31.4	40.3	50.1	67.8	99.2	151.3	202.4	182.8	136.6
95°	33.4	36.4	47.2	63.9	89.4	127.7	211.3	357.7	518.8	582.7	472.6
97.5°	53.1	54.0	62.9	77.6	103.2	145.4	228.0	398.0	669.2	896.1	926.6
100°	72.7	73.7	80.6	94.3	117.9	156.2	225.0	370.4	628.9	930.5	1124.1
102.5°	93.3	95.3	101.2	114.0	134.6	169.0	228.9	346.9	569.9	866.7	1133.9
105°	114.0	116.9	122.8	134.6	153.3	183.7	236.8	338.0	523.7	790.0	1072.0
107.5°	135.6	138.5	144.4	156.2	173.9	202.4	249.6	336.1	490.3	722.2	983.6
110°	159.2	162.1	167.0	177.9	194.6	222.1	266.3	341.0	472.6	666.2	901.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	180.8	183.7	188.7	199.5	216.2	242.7	283.0	350.8	462.8	628.9	829.3
115°	201.4	205.4	211.3	221.1	237.8	264.3	301.7	361.6	461.8	604.3	774.3
117.5°	222.1	227.0	231.9	240.7	259.4	284.0	321.3	375.4	462.8	587.6	737.9
120°	243.7	246.6	251.5	261.4	280.0	304.6	340.0	391.1	466.7	576.8	710.4
122.5°	262.4	265.3	270.2	281.0	298.7	325.2	359.6	405.8	473.6	569.9	687.8
125°	280.0	282.0	287.9	298.7	317.4	343.9	378.3	421.5	480.5	564.0	669.2
127.5°	293.8	296.7	303.6	314.4	335.1	361.6	395.0	434.3	488.4	561.1	651.5
130°	306.6	309.5	318.4	330.2	350.8	377.3	409.7	447.1	496.2	558.1	637.7
132.5°	316.4	320.3	330.2	344.9	365.5	391.1	422.5	458.9	502.1	557.1	624.9
135°	328.2	332.1	342.9	357.7	378.3	404.8	435.3	468.7	508.0	556.2	614.1
137.5°	339.0	342.9	353.7	369.5	390.1	414.7	444.1	476.6	511.9	554.2	604.3
140°	349.8	354.7	364.5	380.3	399.9	424.5	453.0	482.5	515.9	553.2	595.5
142.5°	361.6	365.5	376.3	390.1	409.7	432.4	459.9	488.4	518.8	551.2	587.6
145°	374.4	377.3	386.2	400.9	417.6	440.2	465.8	492.3	519.8	549.3	580.7
147.5°	387.1	389.1	398.0	410.7	427.4	447.1	470.7	495.2	519.8	546.3	573.8
150°	399.9	400.9	408.8	421.5	435.3	453.0	475.6	496.2	519.8	542.4	567.0
152.5°	412.7	412.7	420.6	431.4	443.2	459.9	478.5	498.2	516.9	537.5	559.1
155°	425.5	425.5	431.4	441.2	452.0	465.8	482.5	498.2	514.9	531.6	551.2
157.5°	435.3	436.3	441.2	450.0	459.9	470.7	484.4	499.2	511.9	526.7	542.4
160°	447.1	447.1	451.0	458.9	465.8	475.6	487.4	499.2	510.0	520.8	533.6
162.5°	455.9	455.9	458.9	464.8	470.7	478.5	488.4	498.2	506.0	514.9	524.7
165°	464.8	463.8	465.8	470.7	474.6	481.5	489.3	496.2	502.1	509.0	516.9
167.5°	471.7	470.7	471.7	475.6	478.5	483.4	489.3	495.2	498.2	503.1	509.0
170°	477.6	475.6	476.6	479.5	481.5	483.4	488.4	492.3	494.3	497.2	502.1
172.5°	481.5	480.5	480.5	482.5	483.4	484.4	488.4	491.3	491.3	492.3	495.2
175°	484.4	483.4	482.5	484.4	484.4	485.4	487.4	489.3	488.4	488.4	490.3
177.5°	486.4	485.4	484.4	485.4	485.4	485.4	486.4	488.4	486.4	485.4	486.4
180°	485.4	485.4	485.4	485.4	485.4	485.4	485.4	485.4	485.4	485.4	485.4

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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°	24.6	25.5	26.5	28.5	27.5	28.5	29.5	28.5
92.5°	97.3	75.7	65.8	59.0	57.0	53.1	54.0	52.1
95°	353.7	239.8	187.7	152.3	133.6	124.8	117.9	114.0
97.5°	812.6	613.2	483.4	371.4	305.6	268.3	244.7	233.9
100°	1158.5	1078.9	963.9	824.4	725.2	653.4	615.1	616.1
102.5°	1273.5	1290.2	1235.1	1159.5	1087.8	1034.7	1004.2	975.7
105°	1277.4	1375.7	1394.3	1368.8	1323.6	1286.2	1254.8	1249.9
107.5°	1218.4	1372.7	1449.4	1475.9	1470.0	1452.3	1439.5	1428.7
110°	1126.1	1306.9	1430.7	1499.5	1527.0	1534.8	1532.9	1530.9

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1034.7	1220.4	1362.9	1456.2	1512.2	1540.7	1550.6	1551.5
115°	956.1	1127.1	1271.5	1378.6	1452.3	1495.5	1515.2	1520.1
117.5°	895.2	1046.5	1179.1	1290.2	1366.8	1415.0	1444.4	1451.3
120°	849.0	981.6	1099.5	1198.8	1276.4	1331.4	1355.0	1360.9
122.5°	812.6	929.6	1036.7	1127.1	1193.9	1242.0	1268.6	1276.4
125°	781.2	888.3	982.6	1061.2	1124.1	1167.3	1191.9	1198.8
127.5°	752.7	850.0	936.4	1009.1	1066.1	1103.5	1126.1	1132.0
130°	726.2	814.6	894.2	961.0	1013.1	1048.4	1069.1	1076.9
132.5°	701.6	781.2	853.9	916.8	964.9	1000.3	1018.0	1022.9
135°	680.0	749.7	813.6	869.6	917.8	947.2	964.9	971.8
137.5°	659.3	718.3	775.3	825.4	866.7	897.1	911.9	917.8
140°	641.6	691.8	738.9	781.2	818.5	846.0	861.8	860.8
142.5°	624.9	666.2	705.5	740.9	771.4	794.9	808.7	807.7
145°	612.2	644.6	676.0	704.5	729.1	749.7	757.6	759.6
147.5°	601.4	627.9	654.4	675.1	694.7	709.4	717.3	718.3
150°	589.6	612.2	632.8	651.5	666.2	677.0	682.9	682.9
152.5°	578.8	597.4	615.1	629.9	640.7	650.5	653.4	653.4
155°	568.0	583.7	598.4	610.2	619.0	626.9	628.9	629.9
157.5°	556.2	569.9	581.7	591.5	599.4	605.3	607.3	607.3
160°	546.3	557.1	567.0	573.8	580.7	586.6	586.6	585.6
162.5°	534.5	543.4	552.2	558.1	562.1	567.0	567.0	566.0
165°	524.7	530.6	537.5	542.4	546.3	550.3	549.3	549.3
167.5°	515.9	520.8	524.7	528.6	530.6	533.6	532.6	532.6
170°	507.0	510.0	513.9	515.9	516.9	518.8	517.8	517.8
172.5°	499.2	501.1	504.1	505.1	505.1	507.0	505.1	504.1
175°	492.3	493.3	495.2	495.2	495.2	496.2	495.2	494.3
177.5°	487.4	488.4	489.3	489.3	488.4	489.3	487.4	487.4
180°	485.4	485.4	485.4	485.4	485.4	485.4	485.4	485.4

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