

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: P1007527

Luminaire Tested: S123IP-B1195UB50-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007527
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-B1195UB50-4F0-XX-W2A-4
Description: Define 3 Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

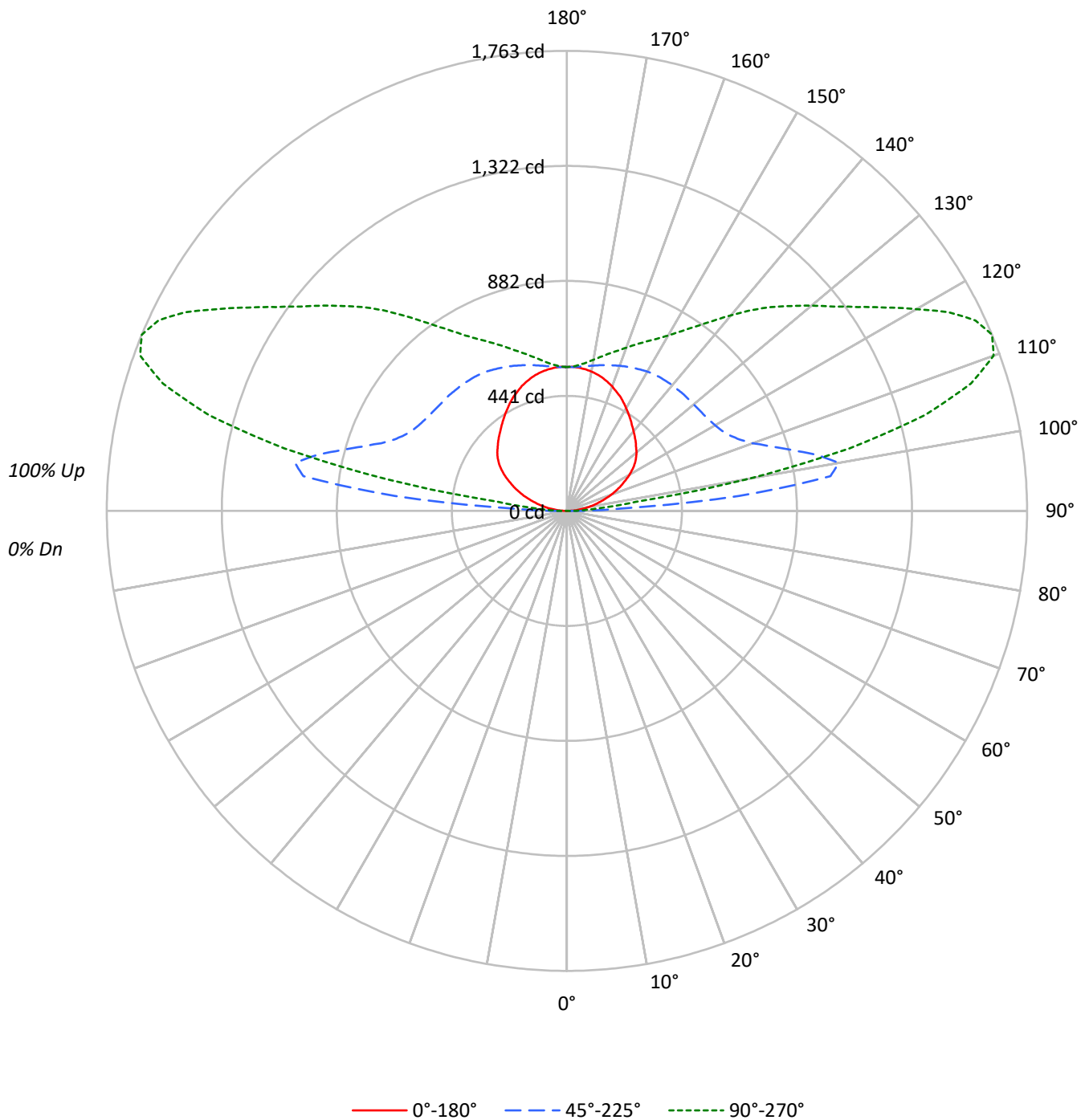
Lumens per Lamp: N/A
Luminaire Lumens: 4152.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 35
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°	3.0	0.1
90°-100°	299.3	7.2
100°-110°	876.3	21.1
110°-120°	855.7	20.6
120°-130°	681.5	16.4
130°-140°	537.7	12.9
140°-150°	401.1	9.7
150°-160°	279.7	6.7
160°-170°	164.3	4.0
170°-180°	53.4	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.0	0.1
90°-120°	2031.3	48.9
90°-150°	3651.5	87.9
90°-180°	4149.0	99.9
0°-180°	4152.0	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	13	28	31	32	3
95°	38	123	662	193	130	40
105°	130	192	898	1570	1420	138
115°	229	285	687	1506	1727	227
125°	318	376	641	1161	1362	283
135°	373	445	632	956	1104	288
145°	425	487	624	784	863	267
155°	484	521	604	687	716	222
165°	528	543	578	614	624	149
175°	550	551	555	563	562	52
180°	552	552	552	552	552	

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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°	2.2	4.5	6.7	10.0	12.3	14.5	17.9	21.2	24.6	27.9	26.8
92.5°	16.7	24.6	35.7	45.8	56.9	77.0	112.8	171.9	230.0	207.7	155.2
95°	38.0	41.3	53.6	72.6	101.6	145.1	240.1	406.4	589.5	662.1	537.1
97.5°	60.3	61.4	71.5	88.2	117.2	165.2	259.0	452.2	760.4	1018.3	1052.9
100°	82.6	83.7	91.6	107.2	134.0	177.5	255.7	420.9	714.6	1057.4	1277.3
102.5°	106.1	108.3	115.0	129.5	153.0	192.0	260.2	394.1	647.6	984.8	1288.5
105°	129.5	132.9	139.6	153.0	174.2	208.8	269.1	384.1	595.1	897.7	1218.1
107.5°	154.1	157.4	164.1	177.5	197.6	230.0	283.6	381.9	557.2	820.7	1117.6
110°	180.9	184.2	189.8	202.1	221.1	252.3	302.6	387.4	537.1	757.0	1023.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	205.4	208.8	214.4	226.7	245.6	275.8	321.6	398.6	525.9	714.6	942.4
115°	228.9	233.4	240.1	251.2	270.2	300.3	342.8	410.9	524.8	686.7	879.8
117.5°	252.3	257.9	263.5	273.6	294.8	322.7	365.1	426.5	525.9	667.7	838.5
120°	276.9	280.2	285.8	297.0	318.2	346.1	386.3	444.4	530.4	655.4	807.3
122.5°	298.1	301.5	307.0	319.3	339.4	369.6	408.7	461.1	538.2	647.6	781.6
125°	318.2	320.4	327.1	339.4	360.6	390.8	429.9	479.0	546.0	640.9	760.4
127.5°	333.8	337.2	345.0	357.3	380.7	410.9	448.8	493.5	554.9	637.5	740.3
130°	348.4	351.7	361.8	375.2	398.6	428.7	465.6	508.0	563.8	634.2	724.6
132.5°	359.5	364.0	375.2	391.9	415.4	444.4	480.1	521.4	570.5	633.1	710.1
135°	372.9	377.4	389.7	406.4	429.9	460.0	494.6	532.6	577.2	632.0	697.8
137.5°	385.2	389.7	402.0	419.8	443.3	471.2	504.7	541.5	581.7	629.7	686.7
140°	397.5	403.1	414.2	432.1	454.4	482.3	514.7	548.2	586.2	628.6	676.6
142.5°	410.9	415.4	427.6	443.3	465.6	491.3	522.5	554.9	589.5	626.4	667.7
145°	425.4	428.7	438.8	455.5	474.5	500.2	529.2	559.4	590.6	624.1	659.9
147.5°	439.9	442.1	452.2	466.7	485.7	508.0	534.8	562.7	590.6	620.8	652.1
150°	454.4	455.5	464.5	479.0	494.6	514.7	540.4	563.8	590.6	616.3	644.2
152.5°	468.9	468.9	477.9	490.2	503.6	522.5	543.8	566.1	587.3	610.7	635.3
155°	483.5	483.5	490.2	501.3	513.6	529.2	548.2	566.1	585.1	604.0	626.4
157.5°	494.6	495.7	501.3	511.4	522.5	534.8	550.5	567.2	581.7	598.5	616.3
160°	508.0	508.0	512.5	521.4	529.2	540.4	553.8	567.2	579.5	591.8	606.3
162.5°	518.1	518.1	521.4	528.1	534.8	543.8	554.9	566.1	575.0	585.1	596.2
165°	528.1	527.0	529.2	534.8	539.3	547.1	556.0	563.8	570.5	578.4	587.3
167.5°	535.9	534.8	535.9	540.4	543.8	549.3	556.0	562.7	566.1	571.7	578.4
170°	542.6	540.4	541.5	544.9	547.1	549.3	554.9	559.4	561.6	565.0	570.5
172.5°	547.1	546.0	546.0	548.2	549.3	550.5	554.9	558.3	558.3	559.4	562.7
175°	550.5	549.3	548.2	550.5	550.5	551.6	553.8	556.0	554.9	554.9	557.2
177.5°	552.7	551.6	550.5	551.6	551.6	551.6	552.7	554.9	552.7	551.6	552.7
180°	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6

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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°	27.9	29.0	30.1	32.4	31.3	32.4	33.5	32.4
92.5°	110.5	86.0	74.8	67.0	64.8	60.3	61.4	59.2
95°	402.0	272.4	213.3	173.1	151.8	141.8	134.0	129.5
97.5°	923.4	696.7	549.3	422.0	347.2	304.8	278.0	265.7
100°	1316.4	1226.0	1095.3	936.8	824.0	742.5	698.9	700.1
102.5°	1447.0	1466.0	1403.5	1317.5	1236.0	1175.7	1141.1	1108.7
105°	1451.5	1563.1	1584.4	1555.3	1504.0	1461.5	1425.8	1420.2
107.5°	1384.5	1559.8	1646.9	1677.0	1670.3	1650.2	1635.7	1623.4
110°	1279.5	1485.0	1625.7	1703.8	1735.1	1744.0	1741.8	1739.6

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1175.7	1386.7	1548.6	1654.7	1718.3	1750.7	1761.9	1763.0
115°	1086.4	1280.7	1444.8	1566.5	1650.2	1699.4	1721.7	1727.3
117.5°	1017.2	1189.1	1339.8	1466.0	1553.1	1607.8	1641.3	1649.1
120°	964.7	1115.4	1249.4	1362.2	1450.4	1512.9	1539.7	1546.4
122.5°	923.4	1056.2	1177.9	1280.7	1356.6	1411.3	1441.4	1450.4
125°	887.6	1009.3	1116.5	1205.9	1277.3	1326.4	1354.4	1362.2
127.5°	855.3	965.8	1064.1	1146.7	1211.4	1253.9	1279.5	1286.2
130°	825.1	925.6	1016.0	1092.0	1151.1	1191.3	1214.8	1223.7
132.5°	797.2	887.6	970.3	1041.7	1096.4	1136.6	1156.7	1162.3
135°	772.6	851.9	924.5	988.1	1042.8	1076.3	1096.4	1104.3
137.5°	749.2	816.2	880.9	937.9	984.8	1019.4	1036.1	1042.8
140°	729.1	786.0	839.6	887.6	930.1	961.3	979.2	978.1
142.5°	710.1	757.0	801.7	841.9	876.5	903.3	918.9	917.8
145°	695.6	732.4	768.2	800.6	828.5	851.9	860.8	863.1
147.5°	683.3	713.5	743.6	767.1	789.4	806.1	815.1	816.2
150°	669.9	695.6	719.0	740.3	757.0	769.3	776.0	776.0
152.5°	657.6	678.9	698.9	715.7	728.0	739.1	742.5	742.5
155°	645.4	663.2	680.0	693.4	703.4	712.3	714.6	715.7
157.5°	632.0	647.6	661.0	672.2	681.1	687.8	690.0	690.0
160°	620.8	633.1	644.2	652.1	659.9	666.6	666.6	665.5
162.5°	607.4	617.4	627.5	634.2	638.7	644.2	644.2	643.1
165°	596.2	602.9	610.7	616.3	620.8	625.3	624.1	624.1
167.5°	586.2	591.8	596.2	600.7	602.9	606.3	605.2	605.2
170°	576.1	579.5	583.9	586.2	587.3	589.5	588.4	588.4
172.5°	567.2	569.4	572.8	573.9	573.9	576.1	573.9	572.8
175°	559.4	560.5	562.7	562.7	562.7	563.8	562.7	561.6
177.5°	553.8	554.9	556.0	556.0	554.9	556.0	553.8	553.8
180°	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6

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