

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: 16233

Luminaire Tested: **IW-SP-1T5-IC-120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 16233
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IW-SP-1T5-IC-120
Description: DIRECT/INDIRECT WALL MOUNT - IRIDIUM WALL WITH SPECULAR REFLECTOR
AND WHITE LENS OVER PERFORATIONS
Light Source: ONE SYLVANIA 54 WATT T5 LAMP

FP54/841/HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

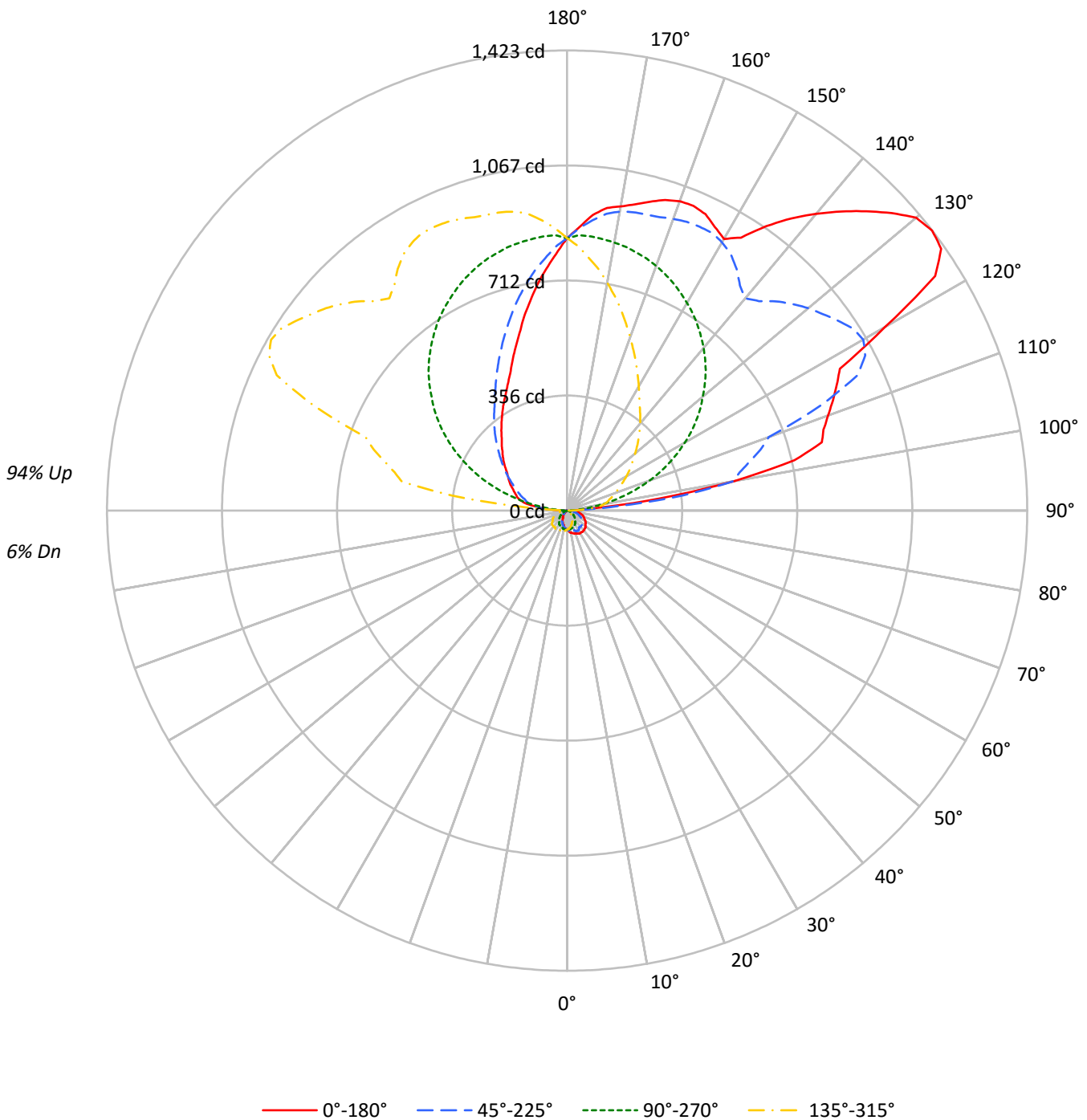
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 3315.9 lumens
Efficiency: 73.7%
Efficacy: 53.5 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.21 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3.67' x H: 0.09')
CIE Type: Indirect

Input Watts (W): 62
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT



TEST NUMBER: 16233
CATALOG NUMBER: IW-SP-1T5-IC-120

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									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	71	71	71	71	61	61	61	61	43	43	43	27	27	27	11	11	11	4																												
1	65	62	59	57	56	53	51	49	38	36	35	23	22	22	10	10	9	3																												
2	59	54	50	46	51	46	43	40	33	31	29	20	19	18	9	8	8	3																												
3	54	47	42	38	46	41	37	33	29	26	24	18	16	15	8	7	7	2																												
4	49	41	36	32	42	36	32	28	25	23	20	16	14	13	7	6	6	2																												
5	45	37	31	27	38	32	27	24	23	20	17	14	12	11	6	5	5	2																												
6	41	33	27	23	35	28	24	20	20	17	15	13	11	9	5	5	4	1																												
7	38	29	24	20	32	25	21	18	18	15	13	11	10	8	5	4	4	1																												
8	35	26	21	17	30	23	18	15	16	13	11	10	8	7	4	4	3	1																												
9	32	24	19	15	28	21	16	14	15	12	10	9	8	6	4	3	3	1																												
10	30	22	17	14	26	19	15	12	14	11	9	8	7	6	4	3	3	1																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	1025	1025	1025	1025
5°	1101	973	954	973
10°	1202	933	886	933
15°	1279	863	807	863
20°	1356	831	690	831
25°	1462	785	653	785
30°	1589	743	493	743
35°	1675	656	429	656
40°	1759	633	410	633
45°	1822	563	291	563
50°	1912	482	180	482
55°	2002	403	108	403
60°	2175	335	17	335
65°	2265	245	19	245
70°	2495	197	24	197
75°	2834	119	31	119
80°	3306	22	44	22
85°	4051	14	77	14



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	5.6	0.2	0.1
10°-20°	16.2	0.5	0.4
20°-30°	24.7	0.7	0.5
30°-40°	29.6	0.9	0.7
40°-50°	31.1	0.9	0.7
50°-60°	28.2	0.9	0.6
60°-70°	22.8	0.7	0.5
70°-80°	16.0	0.5	0.4
80°-90°	8.7	0.3	0.2
90°-100°	131.0	4.0	2.9
100°-110°	377.0	11.4	8.4
110°-120°	485.6	14.6	10.8
120°-130°	561.9	16.9	12.5
130°-140°	508.4	15.3	11.3
140°-150°	423.4	12.8	9.4
150°-160°	341.1	10.3	7.6
160°-170°	225.1	6.8	5.0
170°-180°	79.5	2.4	1.8
0°-30°	46.6	1.4	1.0
0°-40°	76.2	2.3	1.7
0°-60°	135.5	4.1	3.0
0°-90°	183.0	5.5	4.1
90°-120°	993.6	30.0	22.1
90°-150°	2487.3	75.0	55.3
90°-180°	3133.0	94.5	69.6
0°-180°	3315.9	100.0	73.7

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	59	59	59	59	59	
5°	64	59	55	59	64	6
15°	72	55	46	55	72	21
25°	78	51	35	51	78	36
35°	81	43	21	43	81	51
45°	76	35	12	35	76	60
55°	69	24	4	24	69	62
65°	58	13	0	13	58	59
75°	46	5	0	5	46	49
85°	26	0	0	0	26	24
90°	18	0	0	0	18	11
95°	83	35	70	35	83	174
105°	815	189	160	189	815	808
115°	920	348	194	348	920	931
125°	1412	488	234	488	1412	1222
135°	1309	606	286	606	1309	1015
145°	1074	702	352	702	1074	678
155°	1012	776	433	776	1012	464
165°	989	826	568	826	989	281
175°	918	851	749	851	918	89
180°	842	842	842	842	842	



TEST NUMBER: 16233

CATALOG NUMBER: IW-SP-1T5-IC-120

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
2.5°	60.4	60.4	60.4	60.4	58.8	58.4	57.2	57.2	57.2	57.2	57.2
5°	63.7	64.8	61.6	60.4	58.8	57.2	57.2	54.0	55.2	54.0	57.2
7.5°	68.9	64.8	65.7	62.5	58.8	55.2	54.0	52.8	54.0	52.8	54.0
10°	68.9	66.9	64.8	62.5	58.2	52.8	52.8	49.6	50.8	49.6	52.8
12.5°	71.3	68.0	68.0	63.7	57.2	54.0	50.8	47.6	46.4	47.6	50.8
15°	72.1	71.3	66.9	64.8	55.2	50.8	47.6	44.4	45.5	44.4	47.6
17.5°	75.3	71.3	70.1	64.8	55.6	49.6	44.4	42.3	43.2	42.3	44.4
20°	74.5	74.5	63.7	61.6	54.0	47.6	43.2	39.1	37.9	39.1	43.2
22.5°	77.7	74.5	70.1	61.6	52.0	46.4	39.1	36.8	37.9	36.8	39.1
25°	77.7	75.3	68.0	61.6	51.4	43.2	37.9	34.7	34.7	34.7	37.9
27.5°	80.9	76.5	71.3	60.4	50.2	42.3	36.8	30.3	29.4	30.3	36.8
30°	80.9	76.5	70.1	58.4	48.7	37.9	34.7	27.1	25.1	27.1	34.7
32.5°	79.7	77.7	68.9	58.4	46.5	35.9	29.4	26.2	26.2	26.2	29.4
35°	80.9	76.5	63.7	56.0	42.7	33.5	26.2	20.7	20.7	20.7	26.2
37.5°	80.9	77.7	63.7	54.0	42.2	31.5	26.2	19.8	19.8	19.8	26.2
40°	79.7	77.7	65.7	52.8	40.6	30.3	21.8	18.6	18.6	18.6	21.8
42.5°	79.7	76.5	63.7	50.8	36.3	25.1	19.8	16.6	14.2	16.6	19.8
45°	76.5	74.5	63.7	49.6	35.3	23.9	17.5	17.5	12.2	17.5	17.5
47.5°	77.7	74.5	63.7	46.4	31.1	19.8	14.2	10.1	10.1	10.1	14.2
50°	73.3	73.3	60.4	45.5	29.3	16.6	12.2	9.0	6.9	9.0	12.2
52.5°	72.1	68.9	58.4	44.4	26.7	16.6	12.2	7.8	5.8	7.8	12.2
55°	68.9	66.9	54.0	40.0	23.5	13.4	7.8	5.8	3.7	5.8	7.8
57.5°	66.9	65.7	52.8	39.1	21.8	10.1	7.8	4.6	0.5	4.6	7.8
60°	65.7	62.5	52.0	35.9	18.6	9.0	3.7	4.6	0.5	4.6	3.7
62.5°	61.6	59.3	48.7	32.7	17.0	6.9	3.7	0.5	0.5	0.5	3.7
65°	58.4	56.0	45.5	28.3	12.8	4.6	4.6	0.5	0.5	0.5	4.6
67.5°	57.2	54.0	40.0	27.1	10.6	3.7	3.7	0.5	0.5	0.5	3.7
70°	52.8	49.6	37.9	23.9	9.6	4.6	0.5	0.5	0.5	0.5	0.5
72.5°	52.0	46.4	34.7	21.8	3.7	2.5	0.5	0.5	0.5	0.5	0.5
75°	46.4	42.3	30.3	16.6	5.3	1.4	0.5	0.5	0.5	0.5	0.5
77.5°	42.3	39.1	25.1	14.2	2.5	1.4	0.5	0.5	2.5	0.5	0.5
80°	37.9	34.7	21.8	12.2	0.9	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	31.5	29.4	19.8	9.0	0.9	0.5	0.5	0.5	0.5	0.5	0.5
85°	26.2	25.1	14.2	5.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	23.0	21.8	12.2	4.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	18.0	14.8	9.6	4.0	0.5	2.5	0.5	0.5	0.5	0.5	0.5
92.5°	18.6	28.3	17.5	109.6	13.4	21.8	36.8	14.2	32.7	14.2	36.8
95°	82.9	169.8	160.1	223.3	35.3	54.0	72.1	56.0	70.1	56.0	72.1
97.5°	288.5	401.0	361.3	262.8	67.5	71.3	103.1	89.4	102.2	89.4	103.1
100°	523.0	693.4	518.9	367.7	105.3	81.8	117.2	121.5	132.1	121.5	117.2
102.5°	720.0	735.2	546.6	430.9	147.7	86.2	128.8	128.8	148.1	128.8	128.8
105°	815.3	752.2	582.9	490.8	188.9	107.5	136.5	149.3	160.1	149.3	136.5
107.5°	831.4	780.0	627.0	522.1	229.1	120.4	149.3	157.8	166.6	157.8	149.3
110°	858.3	815.3	663.3	533.8	271.4	135.3	159.0	167.4	175.0	167.4	159.0



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CATALOG NUMBER: IW-SP-1T5-IC-120

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	889.3	850.7	848.7	545.5	311.0	153.7	169.8	177.1	183.5	177.1	169.8
115°	920.3	895.7	991.0	556.3	347.5	173.9	182.6	185.9	194.3	185.9	182.6
117.5°	950.4	1103.6	1039.3	564.8	384.4	195.2	196.4	195.2	202.8	195.2	196.4
120°	1134.6	1287.8	1057.4	569.2	420.2	215.7	211.3	207.2	211.3	207.2	211.3
122.5°	1349.8	1338.1	1047.8	621.5	455.1	239.4	226.5	218.9	220.9	218.9	226.5
125°	1412.0	1338.1	1023.2	647.2	487.7	249.9	241.4	225.3	233.8	225.3	241.4
127.5°	1422.6	1324.0	997.5	700.7	518.9	287.3	257.5	244.6	246.7	244.6	257.5
130°	1408.8	1278.1	973.8	741.7	547.1	309.8	274.7	256.3	259.5	256.3	274.7
132.5°	1361.5	1231.1	945.1	774.7	577.6	333.5	292.9	269.2	271.5	269.2	292.9
135°	1309.1	1184.9	915.0	798.4	606.1	362.5	312.2	284.1	286.4	284.1	312.2
137.5°	1254.5	1134.6	878.5	817.7	631.9	390.2	331.5	301.3	299.3	301.3	331.5
140°	1197.7	1083.1	856.3	834.6	656.4	420.3	350.8	316.3	316.3	316.3	350.8
142.5°	1139.0	1029.6	877.6	847.5	679.4	451.3	370.9	335.6	333.5	335.6	370.9
145°	1073.5	953.6	913.0	861.5	702.3	482.3	391.4	354.8	351.6	354.8	391.4
147.5°	1000.7	954.8	940.8	865.9	722.8	496.4	414.8	363.6	370.9	363.6	414.8
150°	969.7	981.4	958.0	874.4	741.7	543.4	442.9	393.4	390.2	393.4	442.9
152.5°	989.0	1003.9	968.5	884.9	759.3	574.4	471.8	416.0	409.5	416.0	471.8
155°	1011.5	1012.4	968.5	896.9	776.3	602.2	503.7	437.3	433.2	437.3	503.7
157.5°	1020.0	1012.4	966.5	904.2	791.4	634.4	535.8	468.6	458.9	468.6	535.8
160°	1017.9	1007.1	960.0	910.6	805.2	662.4	570.3	499.6	494.0	499.6	570.3
162.5°	1007.1	992.2	951.6	915.0	817.1	690.2	605.4	538.2	529.4	538.2	605.4
165°	989.0	976.1	947.2	913.9	826.1	716.8	643.1	573.5	568.0	573.5	643.1
167.5°	969.7	958.9	945.1	904.2	835.8	741.7	679.4	618.3	614.2	618.3	679.4
170°	954.8	953.6	938.7	897.8	841.6	753.3	714.8	637.6	658.0	637.6	714.8
172.5°	944.0	938.7	925.8	888.1	846.5	786.4	751.3	703.9	705.1	703.9	751.3
175°	918.2	906.5	901.0	873.2	851.3	808.0	783.2	750.1	749.0	750.1	783.2
177.5°	877.6	868.8	874.4	860.4	852.3	827.3	816.5	790.8	794.0	790.8	816.5
180°	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3



TEST NUMBER: 16233

CATALOG NUMBER: IW-SP-1T5-IC-120

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	59.4	59.4	59.4	59.4	59.4	59.4
2.5°	58.4	58.8	60.4	60.4	60.4	60.4
5°	57.2	58.8	60.4	61.6	64.8	63.7
7.5°	55.2	58.8	62.5	65.7	64.8	68.9
10°	52.8	58.2	62.5	64.8	66.9	68.9
12.5°	54.0	57.2	63.7	68.0	68.0	71.3
15°	50.8	55.2	64.8	66.9	71.3	72.1
17.5°	49.6	55.6	64.8	70.1	71.3	75.3
20°	47.6	54.0	61.6	63.7	74.5	74.5
22.5°	46.4	52.0	61.6	70.1	74.5	77.7
25°	43.2	51.4	61.6	68.0	75.3	77.7
27.5°	42.3	50.2	60.4	71.3	76.5	80.9
30°	37.9	48.7	58.4	70.1	76.5	80.9
32.5°	35.9	46.5	58.4	68.9	77.7	79.7
35°	33.5	42.7	56.0	63.7	76.5	80.9
37.5°	31.5	42.2	54.0	63.7	77.7	80.9
40°	30.3	40.6	52.8	65.7	77.7	79.7
42.5°	25.1	36.3	50.8	63.7	76.5	79.7
45°	23.9	35.3	49.6	63.7	74.5	76.5
47.5°	19.8	31.1	46.4	63.7	74.5	77.7
50°	16.6	29.3	45.5	60.4	73.3	73.3
52.5°	16.6	26.7	44.4	58.4	68.9	72.1
55°	13.4	23.5	40.0	54.0	66.9	68.9
57.5°	10.1	21.8	39.1	52.8	65.7	66.9
60°	9.0	18.6	35.9	52.0	62.5	65.7
62.5°	6.9	17.0	32.7	48.7	59.3	61.6
65°	4.6	12.8	28.3	45.5	56.0	58.4
67.5°	3.7	10.6	27.1	40.0	54.0	57.2
70°	4.6	9.6	23.9	37.9	49.6	52.8
72.5°	2.5	3.7	21.8	34.7	46.4	52.0
75°	1.4	5.3	16.6	30.3	42.3	46.4
77.5°	1.4	2.5	14.2	25.1	39.1	42.3
80°	0.5	0.9	12.2	21.8	34.7	37.9
82.5°	0.5	0.9	9.0	19.8	29.4	31.5
85°	0.5	0.5	5.8	14.2	25.1	26.2
87.5°	0.5	0.5	4.6	12.2	21.8	23.0
90°	2.5	0.5	4.0	9.6	14.8	18.0
92.5°	21.8	13.4	109.6	17.5	28.3	18.6
95°	54.0	35.3	223.3	160.1	169.8	82.9
97.5°	71.3	67.5	262.8	361.3	401.0	288.5
100°	81.8	105.3	367.7	518.9	693.4	523.0
102.5°	86.2	147.7	430.9	546.6	735.2	720.0
105°	107.5	188.9	490.8	582.9	752.2	815.3
107.5°	120.4	229.1	522.1	627.0	780.0	831.4
110°	135.3	271.4	533.8	663.3	815.3	858.3



TEST NUMBER: 16233

CATALOG NUMBER: IW-SP-1T5-IC-120

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	153.7	311.0	545.5	848.7	850.7	889.3
115°	173.9	347.5	556.3	991.0	895.7	920.3
117.5°	195.2	384.4	564.8	1039.3	1103.6	950.4
120°	215.7	420.2	569.2	1057.4	1287.8	1134.6
122.5°	239.4	455.1	621.5	1047.8	1338.1	1349.8
125°	249.9	487.7	647.2	1023.2	1338.1	1412.0
127.5°	287.3	518.9	700.7	997.5	1324.0	1422.6
130°	309.8	547.1	741.7	973.8	1278.1	1408.8
132.5°	333.5	577.6	774.7	945.1	1231.1	1361.5
135°	362.5	606.1	798.4	915.0	1184.9	1309.1
137.5°	390.2	631.9	817.7	878.5	1134.6	1254.5
140°	420.3	656.4	834.6	856.3	1083.1	1197.7
142.5°	451.3	679.4	847.5	877.6	1029.6	1139.0
145°	482.3	702.3	861.5	913.0	953.6	1073.5
147.5°	496.4	722.8	865.9	940.8	954.8	1000.7
150°	543.4	741.7	874.4	958.0	981.4	969.7
152.5°	574.4	759.3	884.9	968.5	1003.9	989.0
155°	602.2	776.3	896.9	968.5	1012.4	1011.5
157.5°	634.4	791.4	904.2	966.5	1012.4	1020.0
160°	662.4	805.2	910.6	960.0	1007.1	1017.9
162.5°	690.2	817.1	915.0	951.6	992.2	1007.1
165°	716.8	826.1	913.9	947.2	976.1	989.0
167.5°	741.7	835.8	904.2	945.1	958.9	969.7
170°	753.3	841.6	897.8	938.7	953.6	954.8
172.5°	786.4	846.5	888.1	925.8	938.7	944.0
175°	808.0	851.3	873.2	901.0	906.5	918.2
177.5°	827.3	852.3	860.4	874.4	868.8	877.6
180°	842.3	842.3	842.3	842.3	842.3	842.3

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