

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: 13580

Luminaire Tested: **AW-SP-2T8-120**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 13580  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: AW-SP-2T8-120  
Description: FLUORESCENT WALL MOUNT LUMINAIRE WITH WHITE INTERIOR, SPECULAR REFLECTOR AND WHITE PLASTIC OVER PERFORATIONS " "  
Light Source: TWO PHILIPS 32 WATT FLUORESCENT LAMPS  
  
F32T8/TL84. LUMEN RATING = 3000 LMS.  
  
Ballast/Driver: -

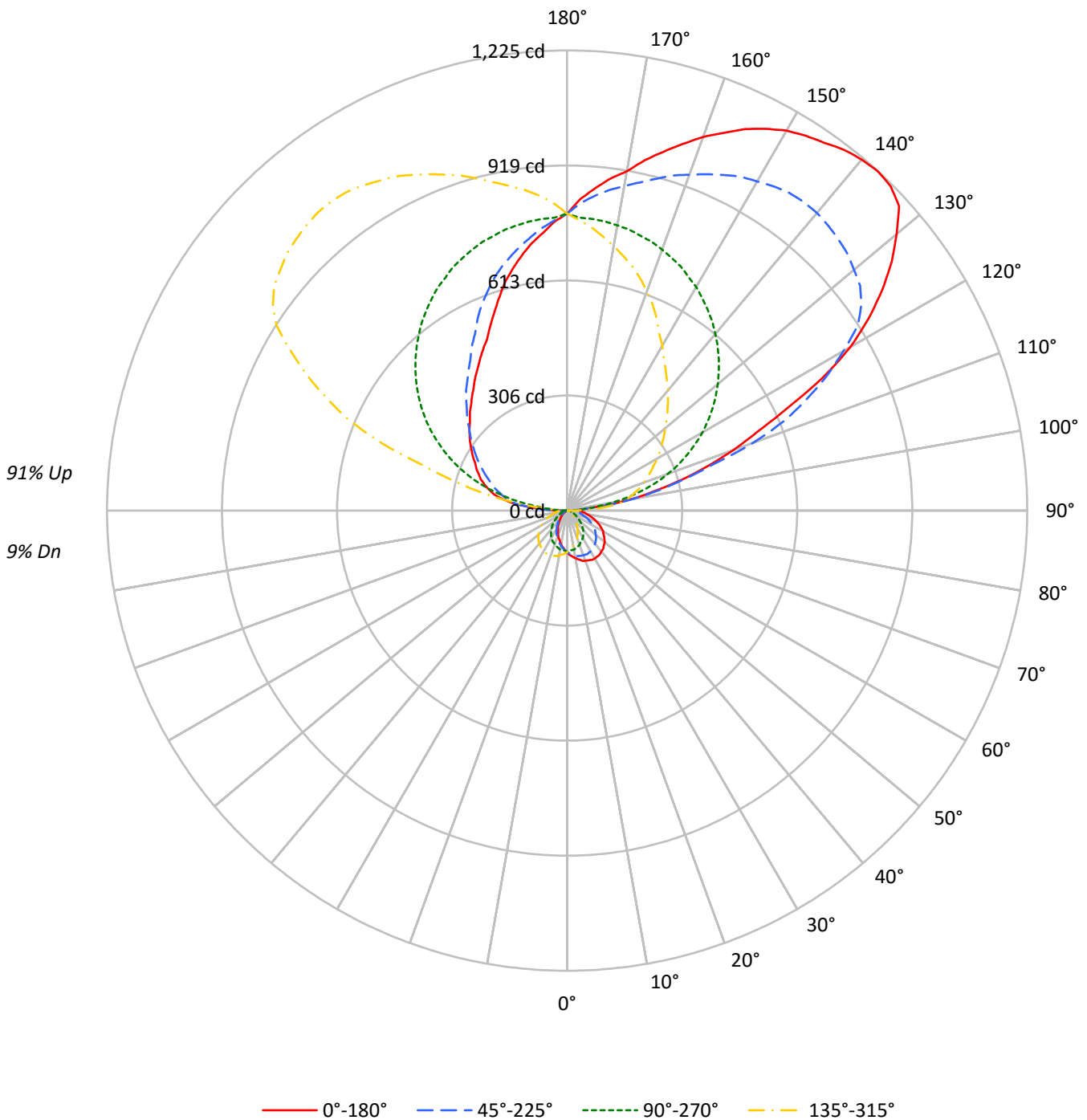
**Summary**

Lumens per Lamp: 3000 (2 lamps)  
Luminaire Lumens: 3293.5 lumens  
Efficiency: 54.9%  
Efficacy: 59.3 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.13 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 3.67' x H: 0')  
CIE Type: Indirect  
  
Input Watts (W): 55.5  
Input Voltage (V): NR  
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: 25 FT



TEST NUMBER: 13580  
CATALOG NUMBER: AW-SP-2T8-120

### 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	0
RCR																		
0	54	54	54	54	46	46	46	46	33	33	33	21	21	21	10	10	10	5
1	49	46	44	43	42	40	39	37	29	28	27	19	18	18	9	9	9	4
2	44	40	37	35	38	35	33	30	25	24	22	16	15	15	8	7	7	3
3	40	35	32	29	35	31	28	25	22	20	19	14	13	12	7	6	6	3
4	37	31	27	24	32	27	24	21	20	18	16	13	11	10	6	6	5	3
5	34	28	24	20	29	24	21	18	18	15	13	11	10	9	6	5	4	2
6	31	25	21	18	27	22	18	16	16	13	12	10	9	8	5	4	4	2
7	28	22	18	15	25	19	16	13	14	12	10	9	8	7	5	4	3	2
8	26	20	16	13	23	17	14	12	13	10	9	8	7	6	4	4	3	2
9	24	18	14	12	21	16	13	10	12	9	8	8	6	5	4	3	3	1
10	23	16	13	10	20	14	11	9	11	8	7	7	6	5	3	3	2	1

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	1119	1119	1119	1119
5°	1230	1078	1022	1078
10°	1321	1083	940	1083
15°	1426	1054	831	1054
20°	1525	1040	756	1040
25°	1621	1015	648	1015
30°	1720	975	569	975
35°	1806	917	463	917
40°	1871	870	375	870
45°	1958	798	312	798
50°	2055	702	255	702
55°	2119	621	219	621
60°	2247	554	180	554
65°	2324	479	163	479
70°	2428	452	151	452
75°	2634	395	156	395
80°	3116	349	192	349
85°	4792	267	267	267



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	10.5	0.3	0.2
10°-20°	29.9	0.9	0.5
20°-30°	44.7	1.4	0.7
30°-40°	52.4	1.6	0.9
40°-50°	52.4	1.6	0.9
50°-60°	46.3	1.4	0.8
60°-70°	36.1	1.1	0.6
70°-80°	24.6	0.7	0.4
80°-90°	15.4	0.5	0.3
90°-100°	86.0	2.6	1.4
100°-110°	274.7	8.3	4.6
110°-120°	441.2	13.4	7.4
120°-130°	534.3	16.2	8.9
130°-140°	531.1	16.1	8.9
140°-150°	461.8	14.0	7.7
150°-160°	354.2	10.8	5.9
160°-170°	222.4	6.8	3.7
170°-180°	75.5	2.3	1.3
0°-30°	85.1	2.6	1.4
0°-40°	137.4	4.2	2.3
0°-60°	236.1	7.2	3.9
0°-90°	312.3	9.5	5.2
90°-120°	801.9	24.3	13.4
90°-150°	2329.1	70.7	38.8
90°-180°	2981.0	90.5	49.7
0°-180°	3293.5	100.0	54.9

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	111	111	111	111	111	
5°	121	106	101	106	121	12
15°	136	101	79	101	136	39
25°	145	91	58	91	145	67
35°	146	74	38	74	146	91
45°	137	56	22	56	137	106
55°	120	35	12	35	120	107
65°	97	20	7	20	97	96
75°	67	10	4	10	67	71
85°	41	2	2	2	41	37
90°	34	7	6	7	34	19
95°	33	41	92	41	33	63
105°	313	208	215	208	313	332
115°	648	354	267	354	648	651
125°	1024	472	315	472	1024	911
135°	1219	571	366	571	1219	933
145°	1195	652	428	652	1195	752
155°	1120	717	504	717	1120	518
165°	989	757	633	757	989	282
175°	861	779	742	779	861	84
180°	790	790	790	790	790	



TEST NUMBER: 13580

CATALOG NUMBER: AW-SP-2T8-120

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6
2.5°	116.6	116.6	113.8	112.8	107.3	109.0	106.2	109.0	107.3	109.0	106.2
5°	121.2	122.2	116.6	113.8	106.2	107.3	103.4	104.5	100.7	104.5	103.4
7.5°	125.0	125.0	118.4	114.6	105.9	103.4	98.9	99.9	97.1	99.9	98.9
10°	128.6	129.6	121.2	113.8	105.5	101.7	94.3	95.1	91.5	95.1	94.3
12.5°	132.4	132.4	124.0	114.6	103.4	98.9	90.5	89.5	86.0	89.5	90.5
15°	136.2	133.4	125.0	113.8	100.7	94.3	86.7	84.9	79.4	84.9	86.7
17.5°	140.7	136.9	125.8	113.8	98.9	91.5	82.1	79.4	75.8	79.4	82.1
20°	141.7	136.9	126.8	112.8	96.6	87.7	77.6	74.8	70.2	74.8	77.6
22.5°	143.5	139.7	126.8	111.1	92.8	81.1	71.0	68.2	63.6	68.2	71.0
25°	145.3	139.7	127.8	109.0	91.0	78.6	67.4	62.6	58.1	62.6	67.4
27.5°	147.3	139.7	125.8	107.3	86.7	74.8	60.8	56.3	52.5	56.3	60.8
30°	147.3	139.7	125.8	104.5	83.5	70.2	55.3	52.5	48.7	52.5	55.3
32.5°	146.3	138.9	123.0	100.7	79.5	64.7	50.7	46.9	43.1	46.9	50.7
35°	146.3	136.9	120.2	97.9	74.3	59.8	45.1	42.3	37.5	42.3	45.1
37.5°	144.5	136.2	117.4	94.3	70.2	55.3	40.3	37.5	33.0	37.5	40.3
40°	141.7	132.4	115.6	90.5	65.9	49.7	35.7	33.0	28.4	33.0	35.7
42.5°	140.7	132.4	111.8	83.9	60.3	45.1	31.2	27.4	24.6	27.4	31.2
45°	136.9	128.6	108.3	81.1	55.8	40.3	27.4	24.6	21.8	24.6	27.4
47.5°	133.4	123.0	104.5	75.8	50.6	35.7	23.6	20.8	19.0	20.8	23.6
50°	130.6	120.2	98.9	70.2	44.6	30.2	20.0	20.0	16.2	20.0	20.0
52.5°	125.0	114.6	95.1	66.4	39.0	25.6	18.0	16.2	14.4	16.2	18.0
55°	120.2	110.0	90.5	60.8	35.2	23.6	15.2	13.4	12.4	13.4	15.2
57.5°	113.8	104.5	83.9	54.3	31.1	18.0	13.4	13.4	9.6	13.4	13.4
60°	111.1	98.9	79.4	47.9	27.4	17.2	10.6	10.6	8.9	10.6	10.6
62.5°	103.4	90.5	73.0	43.1	23.6	14.4	9.6	7.9	6.8	7.9	9.6
65°	97.1	86.0	66.4	38.5	20.0	12.4	7.9	8.9	6.8	8.9	7.9
67.5°	89.5	78.6	59.8	34.0	18.1	10.6	6.8	6.1	6.1	6.1	6.8
70°	82.1	73.0	55.3	31.2	15.3	8.9	6.8	6.1	5.1	6.1	6.8
72.5°	74.8	65.4	46.9	27.4	12.9	6.8	5.1	6.1	5.1	6.1	5.1
75°	67.4	58.1	41.3	24.6	10.1	6.1	5.1	5.1	4.0	5.1	5.1
77.5°	59.8	49.7	37.5	20.8	7.9	3.3	4.0	5.1	4.0	5.1	4.0
80°	53.5	45.1	31.9	18.0	6.0	3.3	3.3	4.0	3.3	4.0	3.3
82.5°	47.9	38.5	28.4	16.2	4.0	3.3	4.0	3.3	3.3	3.3	4.0
85°	41.3	33.0	24.6	13.4	2.3	3.3	2.3	3.3	2.3	3.3	2.3
87.5°	36.8	31.2	21.8	11.7	2.3	1.3	2.3	3.3	2.3	3.3	2.3
90°	34.2	30.7	21.3	28.4	6.7	5.6	7.9	3.5	5.6	3.5	7.9
92.5°	34.0	28.4	20.8	42.3	19.5	47.9	57.0	31.9	51.5	31.9	57.0
95°	33.0	59.8	41.3	84.9	40.8	82.1	99.9	78.6	92.3	78.6	99.9
97.5°	95.1	142.5	113.8	149.1	77.1	99.9	136.2	115.6	141.7	115.6	136.2
100°	171.4	204.9	177.7	234.5	121.7	113.8	157.5	162.0	174.2	162.0	157.5
102.5°	236.3	276.4	247.5	327.3	166.7	130.6	173.2	183.3	199.3	183.3	173.2
105°	312.6	351.4	322.8	396.1	207.5	147.3	187.1	201.1	215.0	201.1	187.1
107.5°	389.7	429.5	406.5	463.0	249.0	164.8	203.9	216.8	230.7	216.8	203.9
110°	470.4	505.6	526.1	520.6	285.1	185.4	216.0	231.8	244.7	231.8	216.0



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CATALOG NUMBER: AW-SP-2T8-120

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	547.4	608.8	627.3	566.2	320.9	204.9	230.7	242.9	254.8	242.9	230.7
115°	647.9	741.7	705.4	613.4	353.8	224.4	245.7	254.1	267.0	254.1	245.7
117.5°	768.6	821.5	780.7	642.3	384.5	245.7	259.6	267.0	276.4	267.0	259.6
120°	870.7	900.4	849.4	677.5	416.1	268.0	277.1	278.2	290.3	278.2	277.1
122.5°	951.6	972.9	917.1	707.2	444.4	293.1	292.1	290.3	302.2	290.3	292.1
125°	1023.9	1040.6	956.2	734.3	471.9	315.4	307.8	304.3	315.4	304.3	307.8
127.5°	1089.1	1096.4	983.1	755.6	498.4	338.5	324.6	318.2	327.3	318.2	324.6
130°	1144.8	1140.0	997.0	771.3	523.4	362.6	340.3	330.1	339.5	330.1	340.3
132.5°	1198.6	1166.1	1012.0	787.1	547.6	384.9	359.8	342.3	350.7	342.3	359.8
135°	1219.1	1171.7	1021.1	802.0	570.8	415.6	377.6	359.0	366.4	359.0	377.6
137.5°	1224.7	1170.0	1028.7	814.2	593.0	444.5	397.1	373.0	378.6	373.0	397.1
140°	1219.9	1164.4	1034.3	823.3	613.9	473.1	418.4	389.7	394.3	389.7	418.4
142.5°	1210.8	1157.8	1035.1	830.9	634.3	503.8	436.1	405.4	409.2	405.4	436.1
145°	1194.8	1147.6	1032.3	837.3	652.4	531.7	457.4	425.0	427.8	425.0	457.4
147.5°	1182.9	1137.2	1023.1	842.8	669.7	555.8	478.7	442.5	445.3	442.5	478.7
150°	1167.9	1115.9	1012.0	844.6	687.3	583.7	506.6	462.0	464.0	462.0	506.6
152.5°	1145.6	1098.2	1001.8	843.9	700.3	607.0	530.7	482.5	484.3	482.5	530.7
155°	1120.5	1074.1	985.9	847.4	716.6	626.6	563.4	500.3	503.8	500.3	563.4
157.5°	1088.0	1047.2	969.1	848.4	727.7	652.4	593.8	533.5	533.5	533.5	593.8
160°	1058.4	1012.7	951.6	847.4	739.3	671.9	620.0	564.2	564.2	564.2	620.0
162.5°	1023.1	987.9	934.9	844.6	750.0	689.7	647.9	598.7	597.6	598.7	647.9
165°	988.6	958.0	914.4	841.1	756.9	703.6	671.9	623.8	632.9	623.8	671.9
167.5°	955.2	926.5	894.8	836.5	765.8	723.2	693.2	660.8	661.8	660.8	693.2
170°	917.1	898.6	877.3	829.9	770.8	738.9	714.8	687.7	690.5	687.7	714.8
172.5°	892.0	871.8	860.6	820.5	775.9	751.1	735.1	711.0	718.3	711.0	735.1
175°	861.4	845.6	841.1	811.4	779.2	764.0	755.6	736.1	741.7	736.1	755.6
177.5°	830.9	815.0	818.8	799.2	780.1	774.1	773.1	756.4	769.6	756.4	773.1
180°	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4



TEST NUMBER: 13580

CATALOG NUMBER: AW-SP-2T8-120

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	110.6	110.6	110.6	110.6	110.6	110.6
2.5°	109.0	107.3	112.8	113.8	116.6	116.6
5°	107.3	106.2	113.8	116.6	122.2	121.2
7.5°	103.4	105.9	114.6	118.4	125.0	125.0
10°	101.7	105.5	113.8	121.2	129.6	128.6
12.5°	98.9	103.4	114.6	124.0	132.4	132.4
15°	94.3	100.7	113.8	125.0	133.4	136.2
17.5°	91.5	98.9	113.8	125.8	136.9	140.7
20°	87.7	96.6	112.8	126.8	136.9	141.7
22.5°	81.1	92.8	111.1	126.8	139.7	143.5
25°	78.6	91.0	109.0	127.8	139.7	145.3
27.5°	74.8	86.7	107.3	125.8	139.7	147.3
30°	70.2	83.5	104.5	125.8	139.7	147.3
32.5°	64.7	79.5	100.7	123.0	138.9	146.3
35°	59.8	74.3	97.9	120.2	136.9	146.3
37.5°	55.3	70.2	94.3	117.4	136.2	144.5
40°	49.7	65.9	90.5	115.6	132.4	141.7
42.5°	45.1	60.3	83.9	111.8	132.4	140.7
45°	40.3	55.8	81.1	108.3	128.6	136.9
47.5°	35.7	50.6	75.8	104.5	123.0	133.4
50°	30.2	44.6	70.2	98.9	120.2	130.6
52.5°	25.6	39.0	66.4	95.1	114.6	125.0
55°	23.6	35.2	60.8	90.5	110.0	120.2
57.5°	18.0	31.1	54.3	83.9	104.5	113.8
60°	17.2	27.4	47.9	79.4	98.9	111.1
62.5°	14.4	23.6	43.1	73.0	90.5	103.4
65°	12.4	20.0	38.5	66.4	86.0	97.1
67.5°	10.6	18.1	34.0	59.8	78.6	89.5
70°	8.9	15.3	31.2	55.3	73.0	82.1
72.5°	6.8	12.9	27.4	46.9	65.4	74.8
75°	6.1	10.1	24.6	41.3	58.1	67.4
77.5°	3.3	7.9	20.8	37.5	49.7	59.8
80°	3.3	6.0	18.0	31.9	45.1	53.5
82.5°	3.3	4.0	16.2	28.4	38.5	47.9
85°	3.3	2.3	13.4	24.6	33.0	41.3
87.5°	1.3	2.3	11.7	21.8	31.2	36.8
90°	5.6	6.7	28.4	21.3	30.7	34.2
92.5°	47.9	19.5	42.3	20.8	28.4	34.0
95°	82.1	40.8	84.9	41.3	59.8	33.0
97.5°	99.9	77.1	149.1	113.8	142.5	95.1
100°	113.8	121.7	234.5	177.7	204.9	171.4
102.5°	130.6	166.7	327.3	247.5	276.4	236.3
105°	147.3	207.5	396.1	322.8	351.4	312.6
107.5°	164.8	249.0	463.0	406.5	429.5	389.7
110°	185.4	285.1	520.6	526.1	505.6	470.4





TEST NUMBER: 13580

CATALOG NUMBER: AW-SP-2T8-120

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	204.9	320.9	566.2	627.3	608.8	547.4
115°	224.4	353.8	613.4	705.4	741.7	647.9
117.5°	245.7	384.5	642.3	780.7	821.5	768.6
120°	268.0	416.1	677.5	849.4	900.4	870.7
122.5°	293.1	444.4	707.2	917.1	972.9	951.6
125°	315.4	471.9	734.3	956.2	1040.6	1023.9
127.5°	338.5	498.4	755.6	983.1	1096.4	1089.1
130°	362.6	523.4	771.3	997.0	1140.0	1144.8
132.5°	384.9	547.6	787.1	1012.0	1166.1	1198.6
135°	415.6	570.8	802.0	1021.1	1171.7	1219.1
137.5°	444.5	593.0	814.2	1028.7	1170.0	1224.7
140°	473.1	613.9	823.3	1034.3	1164.4	1219.9
142.5°	503.8	634.3	830.9	1035.1	1157.8	1210.8
145°	531.7	652.4	837.3	1032.3	1147.6	1194.8
147.5°	555.8	669.7	842.8	1023.1	1137.2	1182.9
150°	583.7	687.3	844.6	1012.0	1115.9	1167.9
152.5°	607.0	700.3	843.9	1001.8	1098.2	1145.6
155°	626.6	716.6	847.4	985.9	1074.1	1120.5
157.5°	652.4	727.7	848.4	969.1	1047.2	1088.0
160°	671.9	739.3	847.4	951.6	1012.7	1058.4
162.5°	689.7	750.0	844.6	934.9	987.9	1023.1
165°	703.6	756.9	841.1	914.4	958.0	988.6
167.5°	723.2	765.8	836.5	894.8	926.5	955.2
170°	738.9	770.8	829.9	877.3	898.6	917.1
172.5°	751.1	775.9	820.5	860.6	871.8	892.0
175°	764.0	779.2	811.4	841.1	845.6	861.4
177.5°	774.1	780.1	799.2	818.8	815.0	830.9
180°	790.4	790.4	790.4	790.4	790.4	790.4

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