

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: 18213

Luminaire Tested: **VW-SC-2T8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 18213  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: VW-SC-2T8  
Description: - DIRECT/INDIRECT LUMINAIRE - VERTECHS WALL - WHITE INTERIOR WITH  
SPECULAR REFLECTOR AND WHITE PLASTIC LENS OVER PERF  
Light Source: TWO PHILIPS 32 WATT T8 LAMPS  
  
F32T8/TL841. LUMEN RATING = 3000 LMS.  
  
Ballast/Driver: -

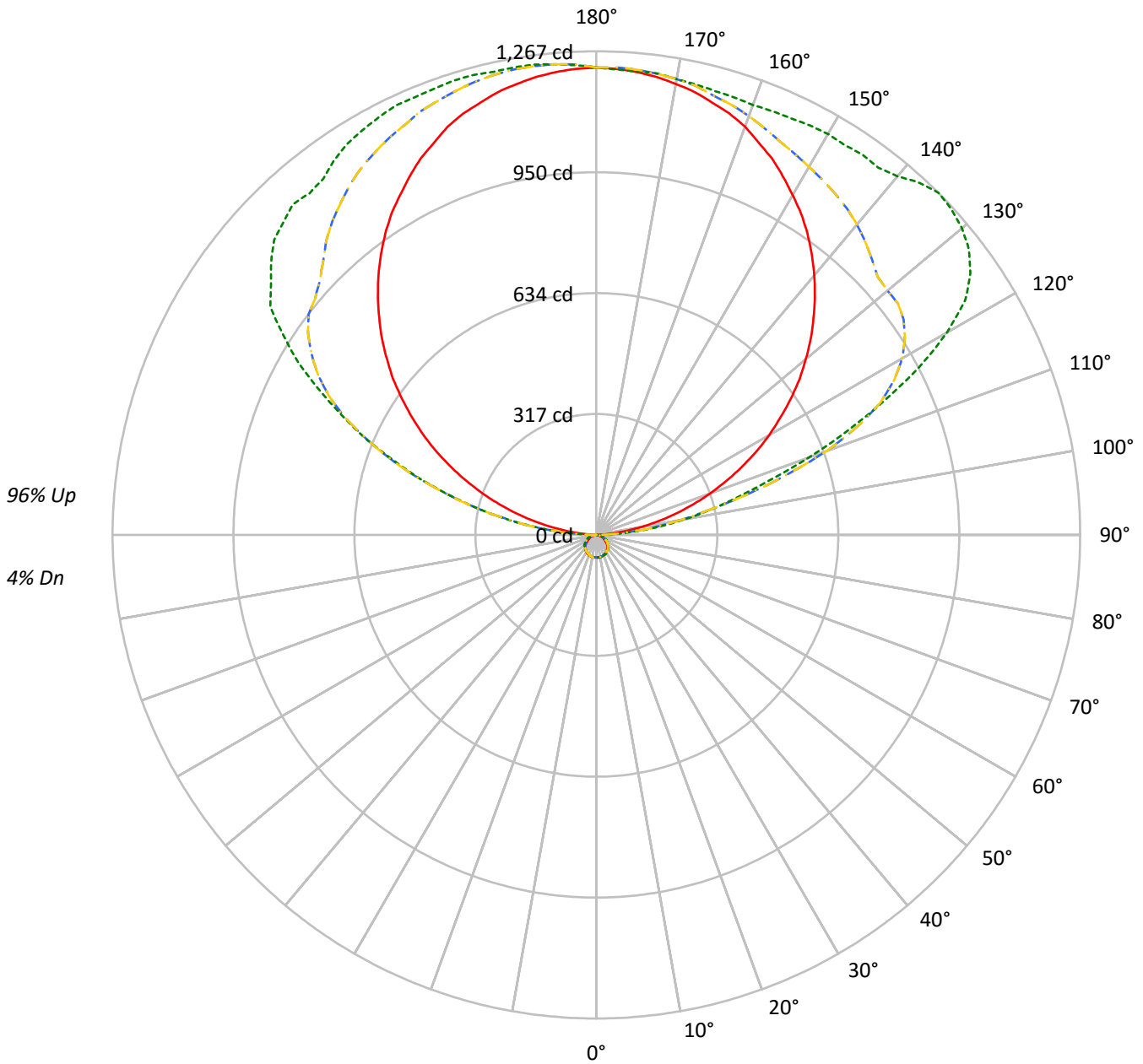
**Summary**

Lumens per Lamp: 3000 (2 lamps)  
Luminaire Lumens: 4634.7 lumens  
Efficiency: 77.2%  
Efficacy: 79.9 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 0.23' x L: 3.58' x H: 0')  
CIE Type: Indirect  
  
Input Watts (W): 58  
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: 18213  
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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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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	74	74	74	74	64	64	64	64	45	45	45	27	27	27	11	11	11	3
1	68	64	62	59	58	56	53	51	39	37	36	23	23	22	9	9	9	3
2	61	56	52	48	53	48	45	42	34	32	30	21	19	18	8	8	7	2
3	56	49	44	40	48	42	38	35	30	27	25	18	17	15	7	7	6	2
4	51	43	38	33	44	37	33	29	26	23	21	16	14	13	6	6	5	1
5	47	38	33	28	40	33	28	25	23	20	18	14	13	11	6	5	5	1
6	43	34	28	24	37	30	25	21	21	18	15	13	11	10	5	4	4	1
7	39	31	25	21	34	27	22	18	19	16	13	11	10	8	5	4	3	1
8	36	28	22	18	31	24	19	16	17	14	12	10	9	7	4	4	3	1
9	34	25	20	16	29	22	17	14	15	12	10	9	8	6	4	3	3	1
10	31	23	18	14	27	20	15	12	14	11	9	9	7	6	4	3	2	1

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

	0°	90°	180°	270°
0°	773	773	773	773
5°	782	769	782	756
10°	786	804	786	778
15°	786	820	786	767
20°	787	789	787	773
25°	788	818	788	788
30°	771	811	771	765
35°	768	809	768	792
40°	754	828	754	776
45°	741	786	741	786
50°	704	803	704	803
55°	666	814	666	814
60°	630	797	630	855
65°	606	826	606	826
70°	592	864	592	936
75°	510	742	510	934
80°	534	881	534	715
85°	405	405	405	690



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	5.7	0.1	0.1
10°-20°	16.4	0.4	0.3
20°-30°	24.9	0.5	0.4
30°-40°	30.6	0.7	0.5
40°-50°	32.3	0.7	0.5
50°-60°	30.3	0.7	0.5
60°-70°	24.5	0.5	0.4
70°-80°	15.7	0.3	0.3
80°-90°	4.8	0.1	0.1
90°-100°	102.1	2.2	1.7
100°-110°	395.1	8.5	6.6
110°-120°	676.5	14.6	11.3
120°-130°	809.6	17.5	13.5
130°-140°	785.1	16.9	13.1
140°-150°	686.4	14.8	11.4
150°-160°	536.4	11.6	8.9
160°-170°	341.4	7.4	5.7
170°-180°	117.0	2.5	1.9
0°-30°	46.9	1.0	0.8
0°-40°	77.5	1.7	1.3
0°-60°	140.1	3.0	2.3
0°-90°	185.1	4.0	3.1
90°-120°	1173.7	25.3	19.6
90°-150°	3454.8	74.5	57.6
90°-180°	4450.0	96.0	74.2
0°-180°	4634.7	100.0	77.2

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	59	59	59	59	59	
5°	60	59	60	58	60	6
15°	58	61	58	57	58	16
25°	55	57	55	55	55	25
35°	48	51	48	50	48	30
45°	40	42	40	42	40	31
55°	29	36	29	36	29	26
65°	20	27	20	27	20	20
75°	10	15	10	18	10	11
85°	3	3	3	5	3	3
90°	0	0	0	0	0	2
95°	38	98	38	92	38	49
105°	216	384	216	394	216	228
115°	419	832	419	730	419	415
125°	621	1196	621	1042	621	555
135°	804	1267	804	1158	804	620
145°	964	1216	964	1198	964	602
155°	1088	1205	1088	1242	1088	501
165°	1173	1204	1173	1248	1173	331
175°	1217	1219	1217	1238	1217	116
180°	1224	1224	1224	1224	1224	



TEST NUMBER: 18213  
 CATALOG NUMBER: VW-SC-2T8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
2.5°	58.6	59.7	58.6	59.7	60.6	59.7	58.6	59.7	58.6	60.6	59.7
5°	59.6	59.7	58.6	58.6	58.6	58.6	58.6	59.7	59.6	60.6	58.6
7.5°	59.6	58.6	60.6	60.6	58.6	60.6	60.6	58.6	59.6	58.6	59.7
10°	59.2	59.7	58.6	59.7	60.6	59.7	58.6	59.7	59.2	58.6	59.7
12.5°	58.1	60.6	58.6	60.6	57.6	60.6	58.6	60.6	58.1	57.6	56.7
15°	58.1	59.7	57.6	58.6	60.6	58.6	57.6	59.7	58.1	56.7	57.6
17.5°	57.6	59.7	56.7	58.6	58.6	58.6	56.7	59.7	57.6	56.7	56.7
20°	56.6	56.7	55.6	59.7	56.7	59.7	55.6	56.7	56.6	55.6	55.6
22.5°	55.1	56.7	54.6	56.7	55.6	56.7	54.6	56.7	55.1	53.7	54.6
25°	54.6	54.6	54.6	56.7	56.7	56.7	54.6	54.6	54.6	52.6	52.6
27.5°	53.7	52.6	54.6	54.6	54.6	54.6	54.6	52.6	53.7	50.7	51.5
30°	51.1	51.5	51.5	54.6	53.7	54.6	51.5	51.5	51.1	49.6	49.6
32.5°	50.2	50.7	50.7	53.7	53.7	53.7	50.7	50.7	50.2	48.5	50.7
35°	48.1	49.6	50.7	51.5	50.7	51.5	50.7	49.6	48.1	46.6	47.7
37.5°	46.1	47.7	49.6	50.7	50.7	50.7	49.6	47.7	46.1	45.5	46.6
40°	44.2	45.5	46.6	48.5	48.5	48.5	46.6	45.5	44.2	41.7	44.7
42.5°	42.1	43.6	44.7	46.6	45.5	46.6	44.7	43.6	42.1	40.6	42.5
45°	40.1	42.5	42.5	44.7	42.5	44.7	42.5	42.5	40.1	39.5	42.5
47.5°	38.7	40.6	41.7	42.5	42.5	42.5	41.7	40.6	38.7	35.7	39.5
50°	34.6	36.5	38.7	41.7	39.5	41.7	38.7	36.5	34.6	35.7	37.6
52.5°	32.6	36.5	37.6	38.7	37.6	38.7	37.6	36.5	32.6	32.7	36.5
55°	29.2	35.7	34.6	36.5	35.7	36.5	34.6	35.7	29.2	30.5	34.6
57.5°	27.1	33.5	33.5	34.6	32.7	34.6	33.5	33.5	27.1	26.7	31.6
60°	24.1	28.6	29.7	32.7	30.5	32.7	29.7	28.6	24.1	27.5	31.6
62.5°	22.6	26.7	26.7	29.7	29.7	29.7	26.7	26.7	22.6	23.7	26.7
65°	19.6	23.7	26.7	27.5	26.7	27.5	26.7	23.7	19.6	21.5	26.7
67.5°	18.1	21.5	22.6	24.5	24.5	24.5	22.6	21.5	18.1	20.7	23.7
70°	15.5	19.6	20.7	22.6	22.6	22.6	20.7	19.6	15.5	16.6	21.5
72.5°	12.1	17.7	18.5	20.7	18.5	20.7	18.5	17.7	12.1	14.7	18.5
75°	10.1	14.7	16.6	16.6	14.7	16.6	16.6	14.7	10.1	12.5	15.5
77.5°	7.6	12.5	12.5	13.6	11.7	13.6	12.5	12.5	7.6	12.5	11.7
80°	7.1	10.6	10.6	12.5	11.7	12.5	10.6	10.6	7.1	8.7	11.7
82.5°	4.6	6.5	6.5	7.6	7.6	7.6	6.5	6.5	4.6	4.6	7.6
85°	2.7	4.6	2.7	6.5	2.7	6.5	2.7	4.6	2.7	2.7	1.6
87.5°	1.0	3.5	2.7	3.5	2.7	3.5	2.7	3.5	1.0	0.5	2.7
90°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	12.6	43.6	33.5	53.7	38.7	53.7	33.5	43.6	12.6	14.7	35.7
95°	37.6	95.5	87.6	113.5	97.7	113.5	87.6	95.5	37.6	67.7	91.7
97.5°	76.7	173.6	152.6	183.7	164.6	183.7	152.6	173.6	76.7	128.5	170.6
100°	119.1	323.7	221.6	292.6	234.7	292.6	221.6	323.7	119.1	198.7	234.7
102.5°	166.2	369.6	301.6	328.6	306.5	328.6	301.6	369.6	166.2	236.6	316.6
105°	215.6	441.7	407.5	415.7	383.5	415.7	407.5	441.7	215.6	362.5	395.5
107.5°	265.6	497.6	520.5	527.6	473.6	527.6	520.5	497.6	265.6	430.7	481.5
110°	316.6	539.7	639.6	646.7	591.5	646.7	639.6	539.7	316.6	488.6	566.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	366.6	563.7	738.7	766.5	710.5	766.5	738.7	563.7	366.6	537.5	647.5
115°	418.6	587.7	820.6	887.7	831.5	887.7	820.6	587.7	418.6	573.5	724.5
117.5°	471.7	625.6	879.5	991.7	954.6	991.7	879.5	625.6	471.7	598.6	789.7
120°	522.2	673.7	924.6	1073.6	1059.7	1073.6	924.6	673.7	522.2	644.5	842.7
122.5°	571.2	730.5	957.6	1146.5	1145.7	1146.5	957.6	730.5	571.2	692.5	884.7
125°	621.0	747.7	982.7	1162.6	1195.7	1162.6	982.7	747.7	621.0	718.7	921.6
127.5°	670.6	781.5	995.5	1185.6	1229.5	1185.6	995.5	781.5	670.6	781.5	949.7
130°	715.6	811.6	995.5	1198.7	1249.7	1198.7	995.5	811.6	715.6	820.6	961.7
132.5°	761.6	848.7	999.6	1203.6	1261.7	1203.6	999.6	848.7	761.6	858.5	982.7
135°	804.0	877.6	1020.7	1187.5	1267.4	1187.5	1020.7	877.6	804.0	895.6	1011.7
137.5°	847.0	911.5	1041.7	1169.7	1251.6	1169.7	1041.7	911.5	847.0	929.5	1046.6
140°	887.6	948.6	1061.6	1165.6	1226.5	1165.6	1061.6	948.6	887.6	963.6	1074.7
142.5°	926.5	975.6	1077.7	1172.7	1212.6	1172.7	1077.7	975.6	926.5	997.5	1098.5
145°	963.6	1023.7	1090.6	1181.5	1215.6	1181.5	1090.6	1023.7	963.6	1030.5	1122.5
147.5°	998.0	1036.5	1102.6	1180.6	1210.7	1180.6	1102.6	1036.5	998.0	1042.5	1142.7
150°	1028.0	1064.6	1113.5	1182.5	1212.6	1182.5	1113.5	1064.6	1028.0	1088.6	1158.5
152.5°	1058.6	1090.6	1125.5	1182.5	1209.6	1182.5	1125.5	1090.6	1058.6	1112.7	1173.5
155°	1088.1	1113.5	1137.5	1180.6	1204.7	1180.6	1137.5	1113.5	1088.1	1137.5	1185.6
157.5°	1111.6	1137.5	1152.5	1181.5	1201.7	1181.5	1152.5	1137.5	1111.6	1160.7	1201.7
160°	1138.2	1159.6	1167.5	1186.6	1198.7	1186.6	1167.5	1159.6	1138.2	1179.5	1210.7
162.5°	1157.7	1176.5	1180.6	1193.5	1201.7	1193.5	1180.6	1176.5	1157.7	1195.7	1220.5
165°	1172.6	1192.6	1190.5	1198.7	1203.6	1198.7	1190.5	1192.6	1172.6	1207.7	1228.7
167.5°	1188.6	1211.5	1204.7	1208.5	1208.5	1208.5	1204.7	1211.5	1188.6	1220.5	1234.7
170°	1199.6	1214.5	1212.6	1212.6	1212.6	1212.6	1212.6	1214.5	1199.6	1221.6	1238.5
172.5°	1210.0	1222.7	1218.6	1218.6	1219.7	1218.6	1218.6	1222.7	1210.0	1229.5	1238.5
175°	1217.1	1226.5	1223.5	1218.6	1218.6	1218.6	1223.5	1226.5	1217.1	1235.5	1237.7
177.5°	1222.1	1229.5	1225.7	1215.6	1220.5	1215.6	1225.7	1229.5	1222.1	1232.5	1233.6
180°	1224.5	1224.5	1224.5	1224.5	1224.5	1224.5	1224.5	1224.5	1224.5	1224.5	1224.5



TEST NUMBER: 18213  
 CATALOG NUMBER: VW-SC-2T8

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	59.1	59.1	59.1	59.1	59.1	59.1
2.5°	58.6	58.6	58.6	59.7	60.6	58.6
5°	58.6	57.6	58.6	58.6	60.6	59.6
7.5°	58.6	58.6	58.6	59.7	58.6	59.6
10°	57.6	58.6	57.6	59.7	58.6	59.2
12.5°	56.7	58.6	56.7	56.7	57.6	58.1
15°	56.7	56.7	56.7	57.6	56.7	58.1
17.5°	54.6	56.7	54.6	56.7	56.7	57.6
20°	53.7	55.6	53.7	55.6	55.6	56.6
22.5°	53.7	53.7	53.7	54.6	53.7	55.1
25°	52.6	54.6	52.6	52.6	52.6	54.6
27.5°	50.7	50.7	50.7	51.5	50.7	53.7
30°	50.7	50.7	50.7	49.6	49.6	51.1
32.5°	47.7	50.7	47.7	50.7	48.5	50.2
35°	47.7	49.6	47.7	47.7	46.6	48.1
37.5°	45.5	46.6	45.5	46.6	45.5	46.1
40°	45.5	45.5	45.5	44.7	41.7	44.2
42.5°	42.5	44.7	42.5	42.5	40.6	42.1
45°	42.5	42.5	42.5	42.5	39.5	40.1
47.5°	39.5	42.5	39.5	39.5	35.7	38.7
50°	38.7	39.5	38.7	37.6	35.7	34.6
52.5°	36.5	38.7	36.5	36.5	32.7	32.6
55°	34.6	35.7	34.6	34.6	30.5	29.2
57.5°	31.6	34.6	31.6	31.6	26.7	27.1
60°	31.6	32.7	31.6	31.6	27.5	24.1
62.5°	28.6	26.7	28.6	26.7	23.7	22.6
65°	27.5	26.7	27.5	26.7	21.5	19.6
67.5°	24.5	24.5	24.5	23.7	20.7	18.1
70°	20.7	24.5	20.7	21.5	16.6	15.5
72.5°	17.7	18.5	17.7	18.5	14.7	12.1
75°	15.5	18.5	15.5	15.5	12.5	10.1
77.5°	13.6	18.5	13.6	11.7	12.5	7.6
80°	8.7	9.5	8.7	11.7	8.7	7.1
82.5°	5.7	7.6	5.7	7.6	4.6	4.6
85°	3.5	4.6	3.5	1.6	2.7	2.7
87.5°	3.5	2.7	3.5	2.7	0.5	1.0
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	12.5	31.6	12.5	35.7	14.7	12.6
95°	66.6	91.7	66.6	91.7	67.7	37.6
97.5°	135.6	165.7	135.6	170.6	128.5	76.7
100°	211.5	239.6	211.5	234.7	198.7	119.1
102.5°	244.6	314.7	244.6	316.6	236.6	166.2
105°	366.6	393.6	366.6	395.5	362.5	215.6
107.5°	447.7	478.5	447.7	481.5	430.7	265.6
110°	534.7	559.6	534.7	566.7	488.6	316.6





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 CATALOG NUMBER: VW-SC-2T8

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	622.6	648.6	622.6	647.5	537.5	366.6
115°	703.7	730.5	703.7	724.5	573.5	418.6
117.5°	785.6	814.6	785.6	789.7	598.6	471.7
120°	868.6	900.5	868.6	842.7	644.5	522.2
122.5°	939.6	970.7	939.6	884.7	692.5	571.2
125°	967.7	1042.5	967.7	921.6	718.7	621.0
127.5°	1039.5	1073.6	1039.5	949.7	781.5	670.6
130°	1075.5	1111.6	1075.5	961.7	820.6	715.6
132.5°	1102.6	1144.6	1102.6	982.7	858.5	761.6
135°	1124.7	1158.5	1124.7	1011.7	895.6	804.0
137.5°	1125.5	1175.5	1125.5	1046.6	929.5	847.0
140°	1129.6	1168.6	1129.6	1074.7	963.6	887.6
142.5°	1142.7	1175.5	1142.7	1098.5	997.5	926.5
145°	1169.7	1197.6	1169.7	1122.5	1030.5	963.6
147.5°	1179.5	1214.5	1179.5	1142.7	1042.5	998.0
150°	1201.7	1224.6	1201.7	1158.5	1088.6	1028.0
152.5°	1212.6	1233.6	1212.6	1173.5	1112.7	1058.6
155°	1221.6	1241.5	1221.6	1185.6	1137.5	1088.1
157.5°	1225.7	1241.5	1225.7	1201.7	1160.7	1111.6
160°	1229.5	1243.7	1229.5	1210.7	1179.5	1138.2
162.5°	1236.6	1247.5	1236.6	1220.5	1195.7	1157.7
165°	1237.7	1247.5	1237.7	1228.7	1207.7	1172.6
167.5°	1238.5	1242.6	1238.5	1234.7	1220.5	1188.6
170°	1237.7	1243.7	1237.7	1238.5	1221.6	1199.6
172.5°	1239.6	1242.6	1239.6	1238.5	1229.5	1210.0
175°	1237.7	1237.7	1237.7	1237.7	1235.5	1217.1
177.5°	1231.7	1231.7	1231.7	1233.6	1232.5	1222.1
180°	1224.5	1224.5	1224.5	1224.5	1224.5	1224.5

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