

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: 18215

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 18215  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: VW-SB-2T8  
Description: - DIRECT/INDIRECT LUMINAIRE - VERTECHS WALL - WHITE INTERIOR WITH  
SPECULAR REFLECTOR AND SEMI-SPECULAR 19 CELL LOUVER  
Light Source: TWO PHILIPS 32 WATT T8 LAMPS  
  
F32T8/TL841. LUMEN RATING = 3000 LMS.  
  
Ballast/Driver: -

**Summary**

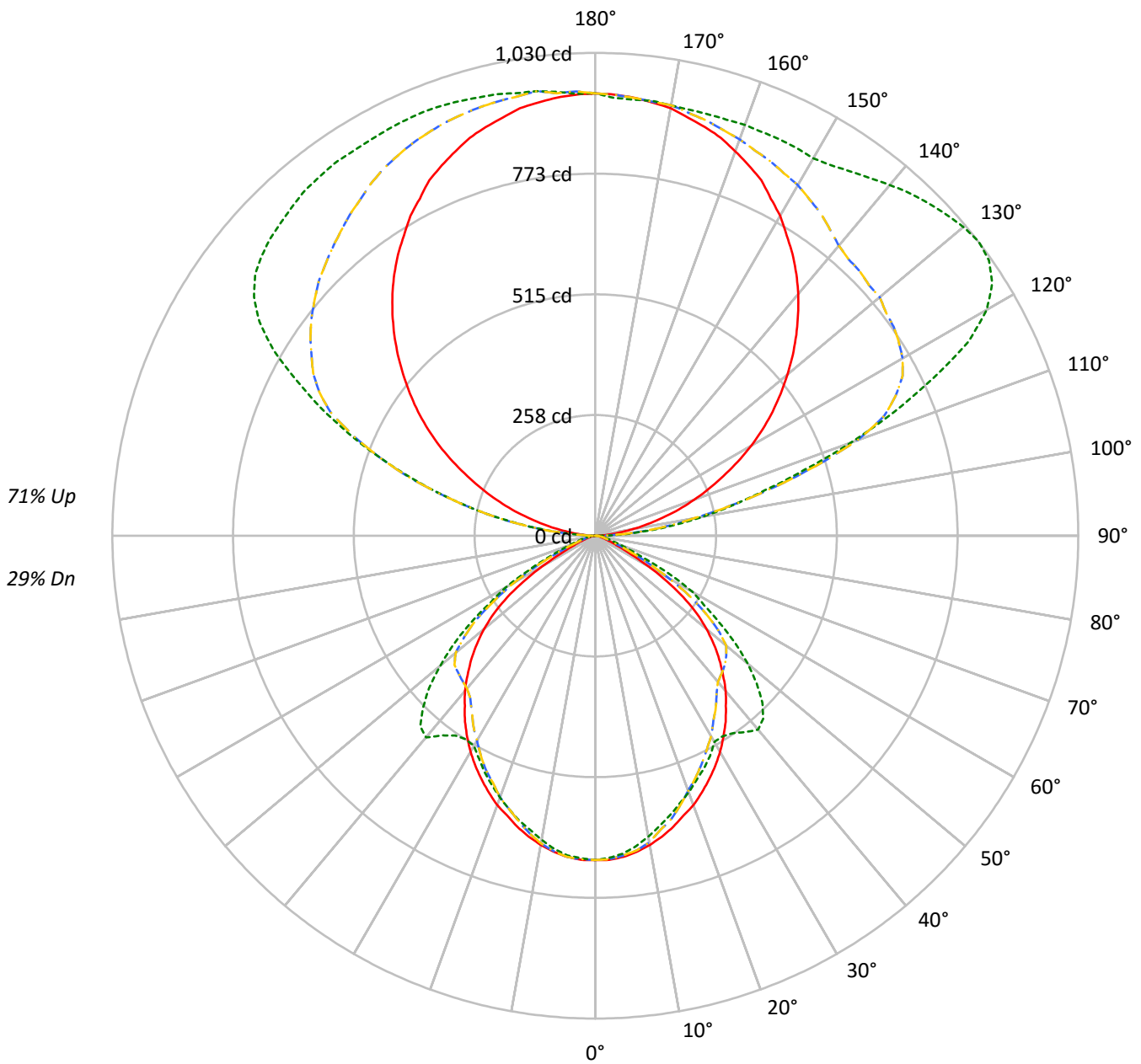
Lumens per Lamp: 3000 (2 lamps)  
Luminaire Lumens: 5075.0 lumens  
Efficiency: 84.6%  
Efficacy: 86.0 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.12 / 1.27  
Luminous Opening: Rectangular (W 0.23' x L: 3.58' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 18215  
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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										
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	0														
RCR																																						
0	86	86	86	86	78	78	78	78	61	61	61	46	46	46	31	31	31	25																				
1	79	76	73	70	71	68	66	63	54	52	51	41	40	39	28	28	27	22																				
2	72	67	62	58	65	60	56	53	48	45	42	36	34	33	25	24	24	19																				
3	66	59	53	48	59	53	48	44	42	39	36	32	30	28	23	22	20	16																				
4	61	52	46	41	54	47	42	38	38	34	31	29	26	24	21	19	18	14																				
5	56	46	40	35	50	42	36	32	34	30	27	26	23	21	19	17	16	12																				
6	51	42	35	30	46	38	32	28	30	26	23	23	21	18	17	15	14	11																				
7	47	37	31	27	42	34	28	24	27	23	20	21	18	16	15	14	12	10																				
8	44	34	28	23	39	31	25	22	25	21	18	19	17	14	14	12	11	9																				
9	41	31	25	21	37	28	23	19	23	19	16	18	15	13	13	11	10	8																				
10	38	28	22	18	34	26	21	17	21	17	14	16	14	12	12	10	9	7																				

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

	0°	90°	180°	270°
0°	9044	9044	9044	9044
5°	9023	8930	9023	8984
10°	8888	8649	8888	8744
15°	8697	8345	8697	8509
20°	8510	8103	8510	8270
25°	8274	7899	8274	8044
30°	8032	7664	8032	7812
35°	7732	8198	7732	8306
40°	7382	9210	7382	9582
45°	6916	9310	6916	9608
50°	6298	8615	6298	8778
55°	5221	7352	5221	7421
60°	3404	6236	3404	5765
65°	1735	3672	1735	3545
70°	1036	2087	1036	2167
75°	737	1596	737	1596
80°	647	1250	647	1332
85°	540	1140	540	1305



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	64.8	1.3	1.1
10°-20°	177.6	3.5	3.0
20°-30°	254.2	5.0	4.2
30°-40°	298.8	5.9	5.0
40°-50°	319.7	6.3	5.3
50°-60°	245.5	4.8	4.1
60°-70°	97.2	1.9	1.6
70°-80°	26.4	0.5	0.4
80°-90°	7.1	0.1	0.1
90°-100°	89.5	1.8	1.5
100°-110°	344.0	6.8	5.7
110°-120°	575.8	11.3	9.6
120°-130°	654.0	12.9	10.9
130°-140°	618.5	12.2	10.3
140°-150°	534.0	10.5	8.9
150°-160°	414.9	8.2	6.9
160°-170°	263.0	5.2	4.4
170°-180°	89.9	1.8	1.5
0°-30°	496.6	9.8	8.3
0°-40°	795.4	15.7	13.3
0°-60°	1360.6	26.8	22.7
0°-90°	1491.3	29.4	24.9
90°-120°	1009.3	19.9	16.8
90°-150°	2815.9	55.5	46.9
90°-180°	3584.0	70.6	59.7
0°-180°	5075.0	100.0	84.6

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	692	692	692	692	692	
5°	688	680	688	685	688	65
15°	643	617	643	629	643	181
25°	574	548	574	558	574	264
35°	484	514	484	520	484	302
45°	374	504	374	520	374	287
55°	229	323	229	326	229	201
65°	56	119	56	115	56	64
75°	15	32	15	32	15	17
85°	4	8	4	9	4	4
90°	0	0	0	0	0	1
95°	27	103	27	67	27	34
105°	149	374	149	338	149	159
115°	301	795	301	646	301	299
125°	462	1024	462	888	462	412
135°	606	1004	606	947	606	467
145°	733	949	733	970	733	458
155°	837	932	837	974	837	385
165°	903	931	903	968	903	255
175°	938	934	938	950	938	89
180°	944	944	944	944	944	



TEST NUMBER: 18215  
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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8
2.5°	692.1	694.7	690.6	688.7	687.6	688.7	690.6	694.7	692.1	692.5	690.6
5°	687.6	691.7	684.6	684.6	680.5	684.6	684.6	691.7	687.6	687.6	687.6
7.5°	680.1	685.7	676.7	676.7	667.7	676.7	676.7	685.7	680.1	679.7	678.6
10°	669.6	673.7	663.6	659.5	651.6	659.5	663.6	673.7	669.6	667.7	666.6
12.5°	657.2	662.5	642.6	644.5	633.6	644.5	642.6	662.5	657.2	651.6	649.7
15°	642.6	643.7	625.6	624.6	616.6	624.6	625.6	643.7	642.6	635.5	630.6
17.5°	625.6	630.6	602.7	609.5	598.6	609.5	602.7	630.6	625.6	616.6	611.7
20°	611.7	606.5	578.7	585.5	582.5	585.5	578.7	606.5	611.7	595.6	593.7
22.5°	593.2	584.7	558.5	564.5	563.7	564.5	558.5	584.7	593.2	575.7	570.5
25°	573.6	562.6	536.7	545.7	547.6	545.7	536.7	562.6	573.6	553.6	551.7
27.5°	553.6	538.6	514.5	525.7	529.6	525.7	514.5	538.6	553.6	526.6	528.7
30°	532.1	516.7	493.5	505.5	507.7	505.5	493.5	516.7	532.1	506.6	504.7
32.5°	508.5	490.5	468.7	480.7	506.6	480.7	468.7	490.5	508.5	478.5	483.7
35°	484.5	467.6	447.7	475.5	513.7	475.5	447.7	467.6	484.5	456.7	458.6
37.5°	457.1	437.6	424.7	475.5	527.6	475.5	424.7	437.6	457.1	427.7	437.6
40°	432.6	413.5	406.7	480.7	539.7	480.7	406.7	413.5	432.6	401.5	425.5
42.5°	403.2	383.5	398.5	489.7	529.6	489.7	398.5	383.5	403.2	373.7	419.5
45°	374.1	356.5	390.6	476.6	503.6	476.6	390.6	356.5	374.1	345.6	413.5
47.5°	343.1	327.5	378.6	446.6	466.5	446.6	378.6	327.5	343.1	317.7	407.5
50°	309.7	299.7	364.7	409.7	423.6	409.7	364.7	299.7	309.7	288.5	388.7
52.5°	273.1	273.5	329.7	369.6	375.6	369.6	329.7	273.5	273.1	265.6	350.7
55°	229.1	242.6	285.5	318.5	322.6	318.5	285.5	242.6	229.1	231.7	306.5
57.5°	182.6	213.7	236.6	276.5	274.6	276.5	236.6	213.7	182.6	194.6	250.6
60°	130.2	164.6	179.6	218.6	238.5	218.6	179.6	164.6	130.2	142.7	198.7
62.5°	85.7	118.7	129.6	186.7	182.6	186.7	129.6	118.7	85.7	93.6	145.7
65°	56.1	72.6	86.5	135.6	118.7	135.6	86.5	72.6	56.1	59.7	96.6
67.5°	38.2	48.5	57.6	86.5	79.7	86.5	57.6	48.5	38.2	40.6	63.6
70°	27.1	35.7	37.6	62.7	54.6	62.7	37.6	35.7	27.1	29.7	40.6
72.5°	20.0	26.7	29.7	42.5	39.5	42.5	29.7	26.7	20.0	22.6	31.6
75°	14.6	21.5	22.6	27.5	31.6	27.5	22.6	21.5	14.6	17.7	23.7
77.5°	12.1	17.7	17.7	23.7	22.6	23.7	17.7	17.7	12.1	14.7	17.7
80°	8.6	13.6	14.7	19.6	16.6	19.6	14.7	13.6	8.6	9.5	13.6
82.5°	6.6	9.5	9.5	13.6	11.7	13.6	9.5	9.5	6.6	6.5	10.6
85°	3.6	6.5	6.5	9.5	7.6	9.5	6.5	6.5	3.6	3.5	6.5
87.5°	1.0	3.5	1.6	6.5	3.5	6.5	1.6	3.5	1.0	1.6	4.6
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°	8.1	38.7	38.7	59.7	48.5	59.7	38.7	38.7	8.1	7.6	18.5
95°	27.1	86.5	91.7	114.6	102.6	114.6	91.7	86.5	27.1	52.6	70.7
97.5°	52.6	164.6	149.6	179.6	163.7	179.6	149.6	164.6	52.6	107.5	131.5
100°	81.6	286.6	213.7	281.7	231.7	281.7	213.7	286.6	81.6	169.8	198.7
102.5°	113.7	314.7	293.7	316.6	298.6	316.6	293.7	314.7	113.7	199.5	266.7
105°	148.6	355.7	386.5	410.5	374.5	410.5	386.5	355.7	148.6	294.5	339.6
107.5°	187.1	387.6	489.7	517.5	467.6	517.5	489.7	387.6	187.1	348.6	417.6
110°	223.7	410.5	593.7	623.7	578.7	623.7	593.7	410.5	223.7	385.7	489.7



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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°	262.6	433.7	666.6	731.6	688.7	731.6	666.6	433.7	262.6	420.6	559.6
115°	301.1	455.6	706.7	828.5	794.6	828.5	706.7	455.6	301.1	446.6	622.6
117.5°	342.6	475.5	738.7	894.5	897.5	894.5	738.7	475.5	342.6	482.6	663.6
120°	383.5	499.5	756.7	935.5	963.6	935.5	756.7	499.5	383.5	509.6	694.7
122.5°	423.1	540.5	767.6	964.7	1003.5	964.7	767.6	540.5	423.1	540.5	717.6
125°	461.6	557.7	776.6	965.5	1024.5	965.5	776.6	557.7	461.6	553.6	741.7
127.5°	498.2	585.5	781.5	963.6	1030.5	963.6	781.5	585.5	498.2	594.5	762.7
130°	534.6	610.6	791.6	957.6	1024.5	957.6	791.6	610.6	534.6	626.7	781.5
132.5°	571.0	645.6	791.6	950.5	1014.7	950.5	791.6	645.6	571.0	658.7	800.6
135°	606.1	669.6	797.6	941.5	1003.5	941.5	797.6	669.6	606.1	687.6	815.6
137.5°	640.1	693.6	799.5	933.6	991.7	933.6	799.5	693.6	640.1	713.6	830.7
140°	673.1	721.5	807.7	922.7	976.7	922.7	807.7	721.5	673.1	740.6	845.7
142.5°	704.1	747.7	822.5	914.5	961.7	914.5	822.5	747.7	704.1	765.7	861.5
145°	733.1	779.6	838.6	904.6	948.6	904.6	838.6	779.6	733.1	790.5	874.6
147.5°	759.5	790.5	850.6	905.5	936.6	905.5	850.6	790.5	759.5	800.6	890.7
150°	788.1	811.6	863.7	909.6	929.5	909.6	863.7	811.6	788.1	831.5	903.6
152.5°	810.6	833.7	871.6	915.6	931.7	915.6	871.6	833.7	810.6	852.5	913.7
155°	837.1	852.5	881.7	917.5	932.5	917.5	881.7	852.5	837.1	870.5	923.5
157.5°	855.1	868.6	889.6	917.5	931.7	917.5	889.6	868.6	855.1	886.6	930.6
160°	872.6	885.5	899.7	919.7	932.5	919.7	899.7	885.5	872.6	902.5	937.7
162.5°	890.2	900.5	907.6	920.5	930.6	920.5	907.6	900.5	890.2	915.6	942.6
165°	902.6	910.6	916.7	923.5	930.6	923.5	916.7	910.6	902.6	924.6	946.7
167.5°	913.7	925.7	923.5	929.5	930.6	929.5	923.5	925.7	913.7	932.5	949.7
170°	926.1	928.7	932.5	931.7	931.7	931.7	932.5	928.7	926.1	937.7	951.6
172.5°	932.1	936.6	933.6	933.6	935.5	933.6	933.6	936.6	932.1	943.7	956.5
175°	938.1	940.7	937.7	934.7	933.6	934.7	937.7	940.7	938.1	947.5	947.5
177.5°	942.0	945.6	941.5	936.6	934.7	936.6	941.5	945.6	942.0	948.6	948.6
180°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6



TEST NUMBER: 18215  
 CATALOG NUMBER: VW-SB-2T8

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	691.8	691.8	691.8	691.8	691.8	691.8
2.5°	686.5	688.7	686.5	690.6	692.5	692.1
5°	678.6	684.6	678.6	687.6	687.6	687.6
7.5°	667.7	673.7	667.7	678.6	679.7	680.1
10°	651.6	658.7	651.6	666.6	667.7	669.6
12.5°	638.5	642.6	638.5	649.7	651.6	657.2
15°	621.6	628.7	621.6	630.6	635.5	642.6
17.5°	604.6	611.7	604.6	611.7	616.6	625.6
20°	584.7	594.5	584.7	593.7	595.6	611.7
22.5°	564.5	575.7	564.5	570.5	575.7	593.2
25°	543.5	557.7	543.5	551.7	553.6	573.6
27.5°	523.5	536.7	523.5	528.7	526.6	553.6
30°	501.7	517.5	501.7	504.7	506.6	532.1
32.5°	492.7	514.5	492.7	483.7	478.5	508.5
35°	491.6	520.5	491.6	458.6	456.7	484.5
37.5°	499.5	536.7	499.5	437.6	427.7	457.1
40°	515.6	561.5	515.6	425.5	401.5	432.6
42.5°	508.5	552.5	508.5	419.5	373.7	403.2
45°	479.6	519.7	479.6	413.5	345.6	374.1
47.5°	437.6	480.7	437.6	407.5	317.7	343.1
50°	390.6	431.6	390.6	388.7	288.5	309.7
52.5°	339.6	381.6	339.6	350.7	265.6	273.1
55°	277.6	325.6	277.6	306.5	231.7	229.1
57.5°	229.5	264.5	229.5	250.6	194.6	182.6
60°	180.7	220.5	180.7	198.7	142.7	130.2
62.5°	139.7	162.7	139.7	145.7	93.6	85.7
65°	94.7	114.6	94.7	96.6	59.7	56.1
67.5°	67.7	79.7	67.7	63.6	40.6	38.2
70°	46.6	56.7	46.6	40.6	29.7	27.1
72.5°	33.5	41.7	33.5	31.6	22.6	20.0
75°	24.5	31.6	24.5	23.7	17.7	14.6
77.5°	19.6	23.7	19.6	17.7	14.7	12.1
80°	14.7	17.7	14.7	13.6	9.5	8.6
82.5°	8.7	11.7	8.7	10.6	6.5	6.6
85°	5.7	8.7	5.7	6.5	3.5	3.6
87.5°	3.5	3.5	3.5	4.6	1.6	1.0
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	8.7	17.7	8.7	18.5	7.6	8.1
95°	49.6	66.6	49.6	70.7	52.6	27.1
97.5°	99.6	128.5	99.6	131.5	107.5	52.6
100°	174.7	194.6	174.7	198.7	169.8	81.6
102.5°	204.7	266.7	204.7	266.7	199.5	113.7
105°	305.7	337.6	305.7	339.6	294.5	148.6
107.5°	385.7	413.5	385.7	417.6	348.6	187.1
110°	465.7	490.5	465.7	489.7	385.7	223.7





TEST NUMBER: 18215  
 CATALOG NUMBER: VW-SB-2T8

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	543.5	568.6	543.5	559.6	420.6	262.6
115°	606.5	645.6	606.5	622.6	446.6	301.1
117.5°	693.6	718.7	693.6	663.6	482.6	342.6
120°	761.6	792.7	761.6	694.7	509.6	383.5
122.5°	811.6	849.5	811.6	717.6	540.5	423.1
125°	829.6	888.5	829.6	741.7	553.6	461.6
127.5°	869.7	914.5	869.7	762.7	594.5	498.2
130°	885.5	928.7	885.5	781.5	626.7	534.6
132.5°	896.7	939.6	896.7	800.6	658.7	571.0
135°	907.6	946.7	907.6	815.6	687.6	606.1
137.5°	917.5	954.6	917.5	830.7	713.6	640.1
140°	927.6	962.5	927.6	845.7	740.6	673.1
142.5°	933.6	965.5	933.6	861.5	765.7	704.1
145°	939.6	969.6	939.6	874.6	790.5	733.1
147.5°	941.5	969.6	941.5	890.7	800.6	759.5
150°	946.7	970.7	946.7	903.6	831.5	788.1
152.5°	951.6	972.6	951.6	913.7	852.5	810.6
155°	956.5	974.5	956.5	923.5	870.5	837.1
157.5°	959.5	975.6	959.5	930.6	886.6	855.1
160°	960.6	974.5	960.6	937.7	902.5	872.6
162.5°	961.7	971.5	961.7	942.6	915.6	890.2
165°	960.6	967.7	960.6	946.7	924.6	902.6
167.5°	958.7	964.7	958.7	949.7	932.5	913.7
170°	956.5	958.7	956.5	951.6	937.7	926.1
172.5°	953.5	956.5	953.5	956.5	943.7	932.1
175°	951.6	950.5	951.6	947.5	947.5	938.1
177.5°	945.6	943.7	945.6	948.6	948.6	942.0
180°	943.6	943.6	943.6	943.6	943.6	943.6

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