

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: 17904

Luminaire Tested: **E2W-WC-1T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 17904
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2W-WC-1T5
Description: DIRECT/INDIRECT WALL LUMINAIRE - ELEMENT WALL
WITH WHITE INTERIOR AND WHITE LENS OVER CONCAVE PERF PANEL

Light Source: ONE PHILIPS 54 WATT T5 LAMP

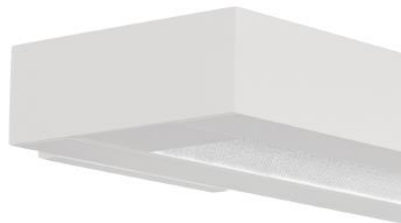
F54T5/841HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

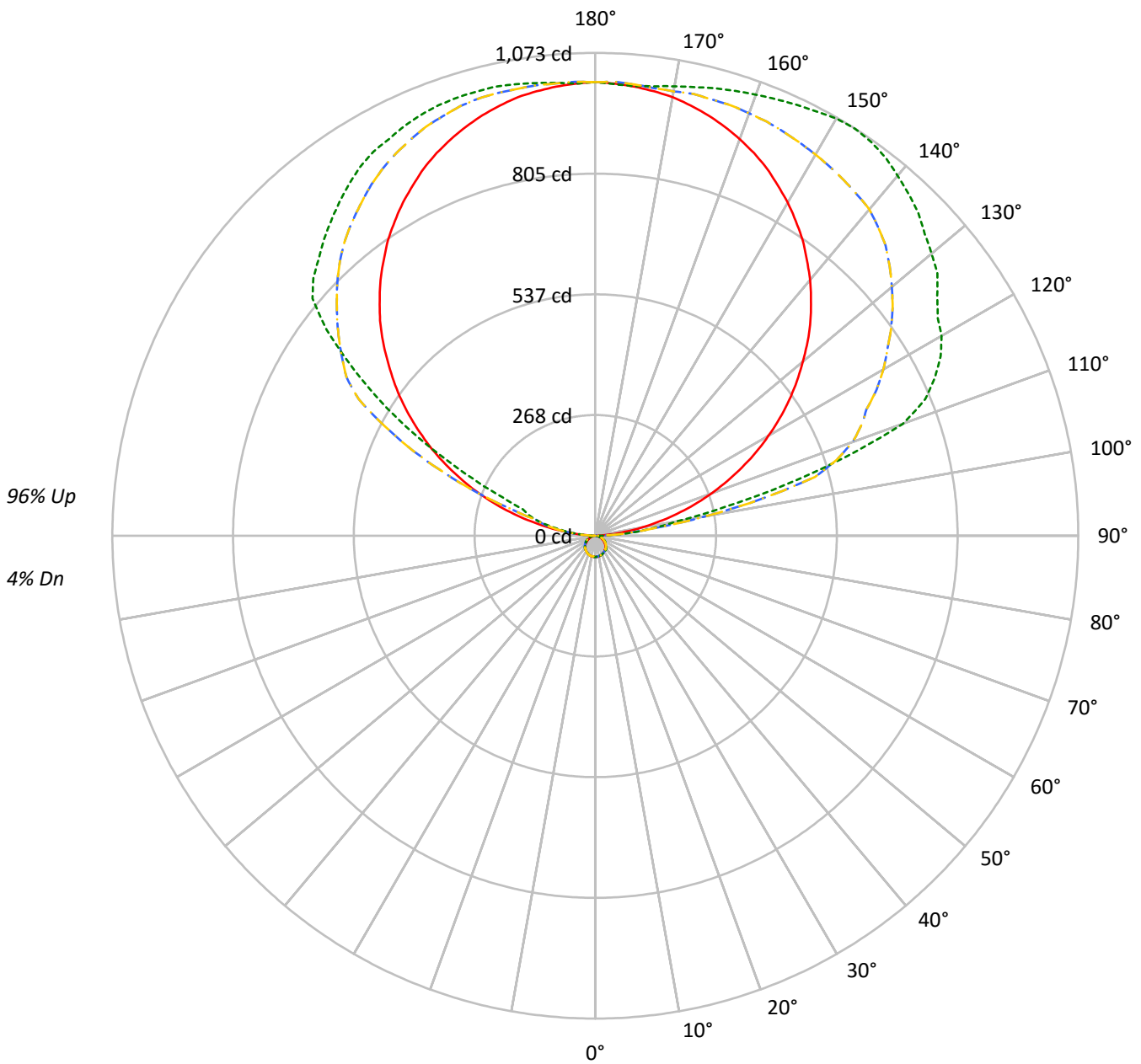
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 3716.0 lumens
Efficiency: 82.6%
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.41
Luminous Opening: Rectangular (W 0.22' x L: 3.59' x H: 0')
CIE Type: Indirect

Input Watts (W): 64
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: 17904
CATALOG NUMBER: E2W-WC-1T5

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	79	79	79	79	68	68	68	68	48	48	48	29	29	29	11	11	11	3
1	72	69	66	63	62	59	57	55	41	40	39	25	24	24	10	10	9	3
2	66	60	55	51	56	52	48	45	36	34	32	22	21	20	9	8	8	2
3	60	53	47	43	51	45	41	37	32	29	27	19	18	16	8	7	7	2
4	55	46	40	36	47	40	35	31	28	25	23	17	15	14	7	6	6	2
5	50	41	35	30	43	35	30	27	25	22	19	15	13	12	6	5	5	1
6	46	37	30	26	39	32	26	23	22	19	16	14	12	10	5	5	4	1
7	42	33	27	22	36	28	23	20	20	17	14	12	10	9	5	4	4	1
8	39	29	24	20	33	26	21	17	18	15	12	11	9	8	4	4	3	1
9	36	27	21	17	31	23	18	15	16	13	11	10	8	7	4	3	3	1
10	33	24	19	15	29	21	16	13	15	12	10	9	7	6	4	3	3	1

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	645	645	645	645
5°	636	648	636	636
10°	644	612	644	624
15°	635	636	635	645
20°	641	641	641	629
25°	632	632	632	618
30°	625	647	625	637
35°	636	661	636	636
40°	632	665	632	624
45°	617	659	617	617
50°	606	678	606	630
55°	561	634	561	615
60°	551	684	551	621
65°	526	661	526	642
70°	486	634	486	634
75°	416	563	416	685
80°	353	526	353	777
85°	297	344	297	594



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	4.4	0.1	0.1
10°-20°	12.7	0.3	0.3
20°-30°	19.4	0.5	0.4
30°-40°	23.8	0.6	0.5
40°-50°	25.1	0.7	0.6
50°-60°	23.3	0.6	0.5
60°-70°	18.6	0.5	0.4
70°-80°	11.6	0.3	0.3
80°-90°	3.5	0.1	0.1
90°-100°	74.7	2.0	1.7
100°-110°	306.8	8.3	6.8
110°-120°	511.0	13.8	11.4
120°-130°	628.9	16.9	14.0
130°-140°	645.1	17.4	14.3
140°-150°	577.6	15.5	12.8
150°-160°	450.1	12.1	10.0
160°-170°	283.3	7.6	6.3
170°-180°	96.1	2.6	2.1
0°-30°	36.6	1.0	0.8
0°-40°	60.3	1.6	1.3
0°-60°	108.7	2.9	2.4
0°-90°	142.5	3.8	3.2
90°-120°	892.4	24.0	19.8
90°-150°	2744.0	73.8	61.0
90°-180°	3574.0	96.2	79.4
0°-180°	3716.0	100.0	82.6

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	47	47	47	47	47	
5°	46	47	46	46	46	4
15°	45	45	45	46	45	13
25°	42	42	42	41	42	19
35°	38	40	38	38	38	23
45°	32	34	32	32	32	25
55°	24	27	24	26	24	21
65°	16	20	16	20	16	16
75°	8	11	8	13	8	9
85°	2	2	2	4	2	2
90°	0	0	0	0	0	2
95°	33	80	33	32	33	42
105°	188	436	188	139	188	198
115°	360	832	360	301	360	356
125°	526	927	526	667	526	469
135°	676	1015	676	869	676	521
145°	803	1068	803	954	803	502
155°	901	1057	901	1004	901	415
165°	968	1029	968	1022	968	273
175°	1002	1003	1002	1010	1002	95
180°	1008	1008	1008	1008	1008	



TEST NUMBER: 17904
 CATALOG NUMBER: E2W-WC-1T5

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
2.5°	47.0	47.4	47.4	46.5	46.5	46.5	47.4	47.4	47.0	46.5	47.4
5°	46.5	46.5	46.5	45.7	47.4	45.7	46.5	46.5	46.5	46.5	45.7
7.5°	47.4	45.7	46.5	46.5	45.1	46.5	46.5	45.7	47.4	48.0	45.7
10°	46.5	45.7	45.1	45.7	44.2	45.7	45.1	45.7	46.5	45.7	46.5
12.5°	46.1	45.7	45.7	45.1	45.7	45.1	45.7	45.7	46.1	45.7	45.7
15°	45.0	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.0	45.1	45.7
17.5°	44.2	45.1	45.1	44.2	45.1	44.2	45.1	45.1	44.2	44.2	44.2
20°	44.2	45.1	44.2	45.1	44.2	45.1	44.2	45.1	44.2	42.8	44.2
22.5°	43.4	43.4	42.0	42.8	43.4	42.8	42.0	43.4	43.4	42.0	43.4
25°	42.0	42.0	42.8	42.8	42.0	42.8	42.8	42.0	42.0	41.1	42.8
27.5°	41.1	41.1	41.1	41.1	42.0	41.1	41.1	41.1	41.1	41.1	41.1
30°	39.7	39.7	39.7	41.1	41.1	41.1	39.7	39.7	39.7	39.7	39.7
32.5°	38.5	38.8	39.7	39.7	40.5	39.7	39.7	38.8	38.5	39.7	38.8
35°	38.2	38.2	38.2	39.7	39.7	39.7	38.2	38.2	38.2	36.5	38.2
37.5°	35.5	36.5	37.4	37.4	38.8	37.4	37.4	36.5	35.5	35.9	35.9
40°	35.5	35.1	35.9	37.4	37.4	37.4	35.9	35.1	35.5	33.6	35.9
42.5°	33.2	33.6	35.1	35.9	35.1	35.9	35.1	33.6	33.2	32.0	34.2
45°	32.0	32.0	33.6	33.6	34.2	33.6	33.6	32.0	32.0	29.7	32.8
47.5°	29.7	29.7	32.0	32.0	32.8	32.0	32.0	29.7	29.7	29.7	32.0
50°	28.6	28.2	30.5	31.3	32.0	31.3	30.5	28.2	28.6	29.0	29.0
52.5°	26.3	27.4	29.0	30.5	29.7	30.5	29.0	27.4	26.3	25.9	28.2
55°	23.6	25.1	26.7	28.2	26.7	28.2	26.7	25.1	23.6	24.5	26.7
57.5°	21.7	23.6	25.1	26.7	26.7	26.7	25.1	23.6	21.7	22.2	25.1
60°	20.2	21.3	23.6	24.5	25.1	24.5	23.6	21.3	20.2	21.3	23.6
62.5°	18.6	19.9	20.5	23.6	22.8	23.6	20.5	19.9	18.6	19.0	22.2
65°	16.3	17.6	19.9	20.5	20.5	20.5	19.9	17.6	16.3	16.7	19.0
67.5°	14.5	15.3	17.6	19.0	19.0	19.0	17.6	15.3	14.5	15.3	17.6
70°	12.2	13.6	15.9	16.7	15.9	16.7	15.9	13.6	12.2	13.0	15.9
72.5°	10.3	12.2	13.6	14.5	14.5	14.5	13.6	12.2	10.3	12.2	15.3
75°	7.9	9.9	11.3	12.2	10.7	12.2	11.3	9.9	7.9	10.7	12.2
77.5°	6.9	7.6	9.0	10.7	9.0	10.7	9.0	7.6	6.9	8.4	9.9
80°	4.5	6.1	6.7	7.6	6.7	7.6	6.7	6.1	4.5	6.7	9.0
82.5°	3.4	3.8	3.0	4.5	4.5	4.5	3.0	3.8	3.4	5.3	7.6
85°	1.9	2.2	1.5	2.2	2.2	2.2	1.5	2.2	1.9	3.0	4.5
87.5°	1.0	0.5	0.5	2.2	1.5	2.2	0.5	0.5	1.0	1.5	3.0
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°	9.0	47.4	32.8	52.0	36.5	52.0	32.8	47.4	9.0	7.6	13.6
95°	32.8	119.9	79.2	96.1	80.1	96.1	79.2	119.9	32.8	29.0	36.5
97.5°	66.4	229.6	137.4	154.0	129.0	154.0	137.4	229.6	66.4	62.6	63.2
100°	103.4	310.5	248.0	303.6	185.5	303.6	248.0	310.5	103.4	90.1	92.4
102.5°	145.4	326.5	378.4	371.5	293.0	371.5	378.4	326.5	145.4	115.3	117.6
105°	187.7	369.2	505.0	513.6	436.5	513.6	505.0	369.2	187.7	228.8	135.7
107.5°	230.8	413.6	562.3	656.3	583.8	656.3	562.3	413.6	230.8	299.9	194.7
110°	273.9	456.3	608.2	730.2	727.1	730.2	608.2	456.3	273.9	357.8	275.5



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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°	317.5	496.7	639.4	774.4	793.6	774.4	639.4	496.7	317.5	396.7	359.4
115°	359.7	536.5	664.6	808.8	832.5	808.8	664.6	536.5	359.7	430.3	445.7
117.5°	403.0	576.1	705.0	833.1	864.6	833.1	705.0	576.1	403.0	476.1	528.0
120°	444.0	611.9	738.6	850.9	888.1	850.9	738.6	611.9	444.0	515.0	607.3
122.5°	485.7	656.9	769.2	899.6	901.9	899.6	769.2	656.9	485.7	554.0	655.5
125°	525.8	670.0	801.9	911.9	927.1	911.9	801.9	670.0	525.8	570.7	686.1
127.5°	564.6	696.7	832.5	931.7	957.7	931.7	832.5	696.7	564.6	623.4	717.9
130°	601.7	723.4	860.0	953.1	975.2	953.1	860.0	723.4	601.7	660.0	748.6
132.5°	640.1	750.9	886.7	977.5	992.7	977.5	886.7	750.9	640.1	695.0	779.0
135°	676.1	776.7	911.9	997.3	1014.8	997.3	911.9	776.7	676.1	728.8	809.6
137.5°	709.2	801.3	930.2	1014.8	1030.2	1014.8	930.2	801.3	709.2	759.2	837.7
140°	742.4	825.6	946.9	1031.7	1044.6	1031.7	946.9	825.6	742.4	789.8	862.9
142.5°	772.2	848.6	955.4	1044.6	1059.2	1044.6	955.4	848.6	772.2	816.5	884.4
145°	802.7	881.3	963.8	1053.8	1068.3	1053.8	963.8	881.3	802.7	843.1	905.0
147.5°	829.1	891.3	971.3	1051.5	1072.9	1051.5	971.3	891.3	829.1	854.6	925.6
150°	854.9	908.8	978.1	1049.2	1070.6	1049.2	978.1	908.8	854.9	890.4	943.1
152.5°	877.8	925.6	984.4	1046.0	1062.9	1046.0	984.4	925.6	877.8	911.9	958.3
155°	901.2	940.8	990.4	1043.1	1056.9	1043.1	990.4	940.8	901.2	929.4	971.3
157.5°	920.6	953.8	995.8	1038.5	1050.0	1038.5	995.8	953.8	920.6	946.3	983.6
160°	937.8	966.1	998.8	1034.6	1043.1	1034.6	998.8	966.1	937.8	959.2	991.9
162.5°	953.8	973.6	1002.7	1030.2	1036.3	1030.2	1002.7	973.6	953.8	972.1	1000.4
165°	967.5	982.7	1003.3	1024.8	1029.4	1024.8	1003.3	982.7	967.5	982.1	1005.6
167.5°	979.4	997.3	1005.6	1016.5	1021.0	1016.5	1005.6	997.3	979.4	991.3	1007.3
170°	989.7	999.6	1002.7	1013.3	1014.2	1013.3	1002.7	999.6	989.7	994.2	1007.9
172.5°	996.2	1006.5	1003.3	1007.3	1007.3	1007.3	1003.3	1006.5	996.2	1005.0	1009.6
175°	1001.9	1011.1	1006.5	1007.3	1002.7	1007.3	1006.5	1011.1	1001.9	1007.9	1008.8
177.5°	1005.6	1013.3	1009.6	1007.9	1004.2	1007.9	1009.6	1013.3	1005.6	1011.1	1009.6
180°	1008.1	1008.1	1008.1	1008.1	1008.1	1008.1	1008.1	1008.1	1008.1	1008.1	1008.1



TEST NUMBER: 17904
 CATALOG NUMBER: E2W-WC-1T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	47.3	47.3	47.3	47.3	47.3	47.3
2.5°	46.5	47.4	46.5	47.4	46.5	47.0
5°	46.5	46.5	46.5	45.7	46.5	46.5
7.5°	45.7	46.5	45.7	45.7	48.0	47.4
10°	45.1	45.1	45.1	46.5	45.7	46.5
12.5°	45.1	46.5	45.1	45.7	45.7	46.1
15°	45.1	45.7	45.1	45.7	45.1	45.0
17.5°	44.2	44.2	44.2	44.2	44.2	44.2
20°	43.4	43.4	43.4	44.2	42.8	44.2
22.5°	42.8	43.4	42.8	43.4	42.0	43.4
25°	42.0	41.1	42.0	42.8	41.1	42.0
27.5°	40.5	41.1	40.5	41.1	41.1	41.1
30°	39.7	40.5	39.7	39.7	39.7	39.7
32.5°	38.2	38.8	38.2	38.8	39.7	38.5
35°	37.4	38.2	37.4	38.2	36.5	38.2
37.5°	35.9	37.4	35.9	35.9	35.9	35.5
40°	35.1	35.1	35.1	35.9	33.6	35.5
42.5°	33.6	35.1	33.6	34.2	32.0	33.2
45°	32.0	32.0	32.0	32.8	29.7	32.0
47.5°	30.5	30.5	30.5	32.0	29.7	29.7
50°	28.2	29.7	28.2	29.0	29.0	28.6
52.5°	27.4	28.2	27.4	28.2	25.9	26.3
55°	25.9	25.9	25.9	26.7	24.5	23.6
57.5°	24.5	25.1	24.5	25.1	22.2	21.7
60°	22.8	22.8	22.8	23.6	21.3	20.2
62.5°	21.3	21.3	21.3	22.2	19.0	18.6
65°	19.0	19.9	19.0	19.0	16.7	16.3
67.5°	17.6	17.6	17.6	17.6	15.3	14.5
70°	15.3	15.9	15.3	15.9	13.0	12.2
72.5°	13.0	14.5	13.0	15.3	12.2	10.3
75°	11.3	13.0	11.3	12.2	10.7	7.9
77.5°	9.9	9.9	9.9	9.9	8.4	6.9
80°	7.6	9.9	7.6	9.0	6.7	4.5
82.5°	4.5	7.6	4.5	7.6	5.3	3.4
85°	3.0	3.8	3.0	4.5	3.0	1.9
87.5°	2.2	3.0	2.2	3.0	1.5	1.0
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	3.8	11.3	3.8	13.6	7.6	9.0
95°	25.1	32.0	25.1	36.5	29.0	32.8
97.5°	47.4	55.7	47.4	63.2	62.6	66.4
100°	72.4	80.1	72.4	92.4	90.1	103.4
102.5°	83.2	108.4	83.2	117.6	115.3	145.4
105°	133.4	138.8	133.4	135.7	228.8	187.7
107.5°	149.4	155.7	149.4	194.7	299.9	230.8
110°	162.6	170.9	162.6	275.5	357.8	273.9



TEST NUMBER: 17904
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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	228.2	223.6	228.2	359.4	396.7	317.5
115°	309.0	301.3	309.0	445.7	430.3	359.7
117.5°	396.7	389.2	396.7	528.0	476.1	403.0
120°	484.4	486.7	484.4	607.3	515.0	444.0
122.5°	578.4	578.4	578.4	655.5	554.0	485.7
125°	619.6	666.9	619.6	686.1	570.7	525.8
127.5°	747.1	752.3	747.1	717.9	623.4	564.6
130°	796.7	820.2	796.7	748.6	660.0	601.7
132.5°	820.2	849.2	820.2	779.0	695.0	640.1
135°	845.4	869.2	845.4	809.6	728.8	676.1
137.5°	870.6	892.7	870.6	837.7	759.2	709.2
140°	894.4	913.3	894.4	862.9	789.8	742.4
142.5°	914.8	934.0	914.8	884.4	816.5	772.2
145°	935.4	953.8	935.4	905.0	843.1	802.7
147.5°	945.4	972.1	945.4	925.6	854.6	829.1
150°	966.1	985.8	966.1	943.1	890.4	854.9
152.5°	979.0	993.6	979.0	958.3	911.9	877.8
155°	991.3	1004.2	991.3	971.3	929.4	901.2
157.5°	1001.1	1012.5	1001.1	983.6	946.3	920.6
160°	1007.3	1017.9	1007.3	991.9	959.2	937.8
162.5°	1012.5	1021.0	1012.5	1000.4	972.1	953.8
165°	1015.6	1021.7	1015.6	1005.6	982.1	967.5
167.5°	1018.8	1022.5	1018.8	1007.3	991.3	979.4
170°	1018.8	1018.8	1018.8	1007.9	994.2	989.7
172.5°	1015.6	1014.8	1015.6	1009.6	1005.0	996.2
175°	1011.1	1010.2	1011.1	1008.8	1007.9	1001.9
177.5°	1008.8	1005.6	1008.8	1009.6	1011.1	1005.6
180°	1008.1	1008.1	1008.1	1008.1	1008.1	1008.1

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