

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: 18216

Luminaire Tested: **VW-SC-2T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 18216
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: VW-SC-2T5
Description: - DIRECT/INDIRECT LUMINAIRE - VERTECHS WALL - WHITE INTERIOR WITH
SPECULAR REFLECTOR AND WHITE PLASTIC LENS OVER PERF
Light Source: TWO PHILIPS 54 WATT T5 LAMPS

F54T5/TL841. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

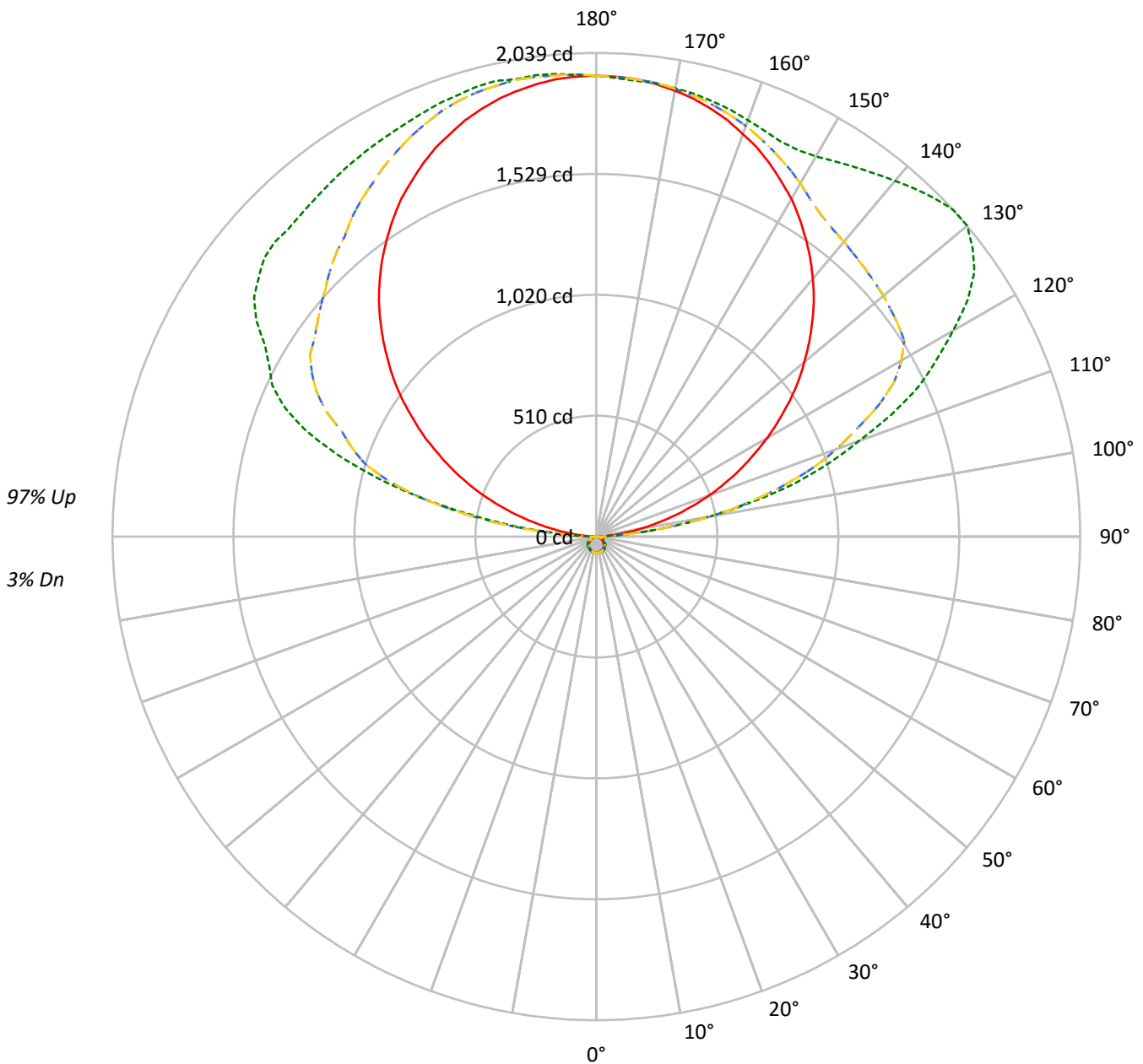
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 7543.6 lumens
Efficiency: 83.8%
Efficacy: 62.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.4
Luminous Opening: Rectangular (W 0.23' x L: 3.58' x H: 0')
CIE Type: Indirect

Input Watts (W): 121
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: 18216
CATALOG NUMBER: VW-SC-2T5

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	80	80	80	80	69	69	69	69	48	48	48	29	29	29	11	11	11	2
1	73	70	67	64	63	60	58	55	42	40	39	25	24	23	9	9	9	2
2	66	61	56	52	57	52	48	45	36	34	32	22	21	19	8	8	7	2
3	61	53	48	43	52	46	41	38	32	29	27	19	18	16	7	7	6	1
4	55	47	41	36	47	40	35	32	28	25	23	17	15	14	6	6	5	1
5	50	42	35	31	43	36	31	27	25	22	19	15	13	12	6	5	5	1
6	46	37	31	26	40	32	27	23	22	19	17	13	12	10	5	4	4	1
7	43	33	27	23	36	29	24	20	20	17	14	12	10	9	5	4	3	1
8	39	30	24	20	34	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	34	24	19	15	29	21	17	13	15	12	10	9	7	6	3	3	2	1

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	906	906	906	906
5°	867	886	867	886
10°	896	896	896	859
15°	857	914	857	876
20°	881	939	881	900
25°	893	974	893	864
30°	904	977	904	862
35°	867	988	867	911
40°	843	927	843	927
45°	823	1004	823	965
50°	791	1005	791	948
55°	775	950	775	1014
60°	724	1017	724	1017
65°	544	1052	544	1052
70°	566	1005	566	1005
75°	414	1081	414	1187
80°	459	1039	459	1039
85°	285	1230	285	1650



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	6.5	0.1	0.1
10°-20°	18.5	0.2	0.2
20°-30°	28.3	0.4	0.3
30°-40°	34.8	0.5	0.4
40°-50°	36.9	0.5	0.4
50°-60°	34.7	0.5	0.4
60°-70°	28.0	0.4	0.3
70°-80°	18.7	0.2	0.2
80°-90°	6.5	0.1	0.1
90°-100°	203.6	2.7	2.3
100°-110°	786.2	10.4	8.7
110°-120°	1165.8	15.5	13.0
120°-130°	1302.1	17.3	14.5
130°-140°	1238.6	16.4	13.8
140°-150°	1071.6	14.2	11.9
150°-160°	838.7	11.1	9.3
160°-170°	539.1	7.1	6.0
170°-180°	185.1	2.5	2.1
0°-30°	53.3	0.7	0.6
0°-40°	88.1	1.2	1.0
0°-60°	159.7	2.1	1.8
0°-90°	212.8	2.8	2.4
90°-120°	2155.6	28.6	24.0
90°-150°	5767.9	76.5	64.1
90°-180°	7331.0	97.2	81.5
0°-180°	7543.6	100.0	83.8

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	69	69	69	69	69	
5°	66	68	66	68	66	6
15°	63	68	63	65	63	18
25°	62	68	62	60	62	28
35°	54	62	54	57	54	34
45°	44	54	44	52	44	34
55°	34	42	34	44	34	30
65°	18	34	18	34	18	19
75°	8	21	8	24	8	11
85°	2	8	2	11	2	3
90°	0	0	0	0	0	3
95°	65	146	65	177	65	79
105°	341	863	341	955	341	360
115°	669	1500	669	1507	669	660
125°	993	1944	993	1761	993	886
135°	1287	2016	1287	1835	1287	993
145°	1537	1901	1537	1875	1537	962
155°	1732	1838	1732	1916	1732	798
165°	1867	1898	1867	1963	1867	527
175°	1936	1929	1936	1958	1936	184
180°	1943	1943	1943	1943	1943	



TEST NUMBER: 18216
 CATALOG NUMBER: VW-SC-2T5

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
2.5°	68.6	67.5	67.5	67.5	67.5	67.5	67.5	67.5	68.6	67.5	67.5
5°	66.1	67.5	72.4	67.5	67.5	67.5	72.4	67.5	66.1	67.5	67.5
7.5°	66.1	72.4	67.5	67.5	67.5	67.5	67.5	72.4	66.1	64.7	67.5
10°	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
12.5°	66.1	67.5	67.5	67.5	67.5	67.5	67.5	67.5	66.1	67.5	64.7
15°	63.3	67.5	67.5	67.5	67.5	67.5	67.5	67.5	63.3	61.9	64.7
17.5°	64.7	64.7	67.5	67.5	64.7	67.5	67.5	64.7	64.7	64.7	61.9
20°	63.3	64.7	64.7	64.7	67.5	64.7	64.7	64.7	63.3	61.9	61.9
22.5°	61.9	61.9	64.7	67.5	67.5	67.5	64.7	61.9	61.9	59.9	61.9
25°	61.9	59.9	64.7	61.9	67.5	61.9	64.7	59.9	61.9	57.1	59.9
27.5°	59.9	59.9	64.7	61.9	64.7	61.9	64.7	59.9	59.9	57.1	59.9
30°	59.9	59.9	61.9	61.9	64.7	61.9	61.9	59.9	59.9	54.3	54.3
32.5°	55.7	59.9	54.3	59.9	61.9	59.9	54.3	59.9	55.7	54.3	57.1
35°	54.3	57.1	59.9	61.9	61.9	61.9	59.9	57.1	54.3	52.2	54.3
37.5°	52.2	54.3	57.1	57.1	54.3	57.1	57.1	54.3	52.2	46.6	52.2
40°	49.4	52.2	54.3	57.1	54.3	57.1	54.3	52.2	49.4	46.6	49.4
42.5°	48.0	49.4	54.3	54.3	54.3	54.3	54.3	49.4	48.0	41.7	49.4
45°	44.5	49.4	49.4	52.2	54.3	52.2	49.4	49.4	44.5	41.7	46.6
47.5°	41.7	46.6	46.6	52.2	49.4	52.2	46.6	46.6	41.7	38.9	41.7
50°	38.9	41.7	46.6	46.6	49.4	46.6	46.6	41.7	38.9	38.9	44.5
52.5°	36.5	38.9	44.5	44.5	44.5	44.5	44.5	38.9	36.5	34.0	41.7
55°	34.0	38.9	36.8	44.5	41.7	44.5	36.8	38.9	34.0	34.0	41.7
57.5°	31.2	34.0	34.0	44.5	41.7	44.5	34.0	34.0	31.2	31.2	31.2
60°	27.7	31.2	34.0	36.8	38.9	36.8	34.0	31.2	27.7	26.3	34.0
62.5°	24.9	29.1	31.2	36.8	34.0	36.8	31.2	29.1	24.9	23.5	34.0
65°	17.6	29.1	29.1	31.2	34.0	31.2	29.1	29.1	17.6	23.5	26.3
67.5°	14.8	23.5	26.3	31.2	34.0	31.2	26.3	23.5	14.8	18.7	29.1
70°	14.8	21.4	26.3	26.3	26.3	26.3	26.3	21.4	14.8	18.7	26.3
72.5°	12.4	18.7	23.5	23.5	23.5	23.5	23.5	18.7	12.4	18.7	23.5
75°	8.2	15.9	18.7	23.5	21.4	23.5	18.7	15.9	8.2	13.8	18.7
77.5°	9.6	15.9	13.8	15.9	15.9	15.9	13.8	15.9	9.6	15.9	15.9
80°	6.1	13.8	13.8	13.8	13.8	13.8	13.8	13.8	6.1	8.2	13.8
82.5°	6.1	11.0	11.0	15.9	11.0	15.9	11.0	11.0	6.1	6.1	11.0
85°	1.9	3.3	6.1	11.0	8.2	11.0	6.1	3.3	1.9	0.5	6.1
87.5°	0.5	0.5	3.3	3.3	3.3	3.3	3.3	0.5	0.5	0.5	0.5
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°	21.1	72.4	31.2	54.3	31.2	54.3	31.2	72.4	21.1	31.2	64.7
95°	64.7	198.1	154.1	182.7	146.4	182.7	154.1	198.1	64.7	159.7	210.7
97.5°	122.3	335.7	310.5	348.9	304.9	348.9	310.5	335.7	122.3	315.4	392.2
100°	189.0	504.6	484.4	622.6	484.4	622.6	484.4	504.6	189.0	450.9	576.6
102.5°	260.3	566.1	647.8	714.1	670.8	714.1	647.8	566.1	260.3	499.8	758.1
105°	341.3	681.3	801.4	888.7	862.8	888.7	801.4	681.3	341.3	624.7	906.1
107.5°	419.1	773.5	952.2	1052.1	1026.2	1052.1	952.2	773.5	419.1	732.3	1024.1
110°	504.6	852.4	1075.1	1215.5	1177.1	1215.5	1075.1	852.4	504.6	806.3	1095.4



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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°	585.3	875.4	1187.5	1369.1	1346.0	1369.1	1187.5	875.4	585.3	850.3	1161.7
115°	669.4	921.5	1313.2	1484.3	1499.7	1484.3	1313.2	921.5	669.4	904.0	1259.5
117.5°	746.2	970.4	1415.2	1599.5	1617.0	1599.5	1415.2	970.4	746.2	957.1	1330.7
120°	832.1	1024.1	1484.3	1727.3	1735.0	1727.3	1484.3	1024.1	832.1	1016.5	1384.4
122.5°	910.0	1105.8	1538.1	1847.4	1855.1	1847.4	1538.1	1105.8	910.0	1082.8	1430.5
125°	993.1	1128.9	1553.4	1878.1	1944.5	1878.1	1553.4	1128.9	993.1	1110.7	1450.8
127.5°	1071.3	1187.5	1566.0	1921.4	1998.2	1921.4	1566.0	1187.5	1071.3	1202.9	1481.5
130°	1143.9	1241.3	1579.3	1921.4	2039.4	1921.4	1579.3	1241.3	1143.9	1272.0	1515.0
132.5°	1216.9	1305.5	1589.0	1908.8	2039.4	1908.8	1589.0	1305.5	1216.9	1330.7	1548.5
135°	1287.4	1367.0	1599.5	1893.5	2016.4	1893.5	1599.5	1367.0	1287.4	1397.0	1586.9
137.5°	1356.5	1427.7	1610.0	1873.2	1988.4	1873.2	1610.0	1427.7	1356.5	1450.8	1622.6
140°	1419.0	1484.3	1622.6	1855.1	1957.7	1855.1	1622.6	1484.3	1419.0	1517.8	1650.5
142.5°	1480.5	1538.1	1635.1	1834.8	1929.1	1834.8	1635.1	1538.1	1480.5	1571.6	1693.8
145°	1536.7	1612.1	1653.3	1809.0	1901.2	1809.0	1653.3	1612.1	1536.7	1630.2	1730.1
147.5°	1591.8	1637.9	1681.2	1804.1	1875.3	1804.1	1681.2	1637.9	1591.8	1653.3	1760.8
150°	1644.2	1684.0	1719.6	1796.4	1850.2	1796.4	1719.6	1684.0	1644.2	1722.4	1796.4
152.5°	1687.5	1722.4	1753.1	1801.3	1837.6	1801.3	1753.1	1722.4	1687.5	1760.8	1827.1
155°	1732.5	1760.8	1783.9	1819.5	1837.6	1819.5	1783.9	1760.8	1732.5	1801.3	1857.9
157.5°	1773.4	1796.4	1814.6	1845.3	1852.3	1845.3	1814.6	1796.4	1773.4	1837.6	1883.0
160°	1805.5	1832.0	1842.5	1860.0	1867.6	1860.0	1842.5	1832.0	1805.5	1860.0	1908.8
162.5°	1840.1	1857.9	1865.5	1878.1	1885.8	1878.1	1865.5	1857.9	1840.1	1885.8	1927.0
165°	1866.6	1880.9	1885.8	1896.3	1898.4	1896.3	1885.8	1880.9	1866.6	1908.8	1939.6
167.5°	1891.0	1911.6	1904.0	1916.5	1911.6	1916.5	1904.0	1911.6	1891.0	1924.2	1947.2
170°	1908.8	1919.3	1916.5	1919.3	1919.3	1919.3	1916.5	1919.3	1908.8	1929.1	1954.9
172.5°	1924.2	1934.7	1929.1	1924.2	1927.0	1924.2	1929.1	1934.7	1924.2	1944.5	1954.9
175°	1935.7	1942.4	1934.7	1929.1	1929.1	1929.1	1934.7	1942.4	1935.7	1950.0	1952.1
177.5°	1941.0	1947.2	1939.6	1934.7	1934.7	1934.7	1939.6	1947.2	1941.0	1952.1	1950.0
180°	1943.1	1943.1	1943.1	1943.1	1943.1	1943.1	1943.1	1943.1	1943.1	1943.1	1943.1



TEST NUMBER: 18216
 CATALOG NUMBER: VW-SC-2T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	69.3	69.3	69.3	69.3	69.3	69.3
2.5°	67.5	67.5	67.5	67.5	67.5	68.6
5°	67.5	67.5	67.5	67.5	67.5	66.1
7.5°	67.5	67.5	67.5	67.5	64.7	66.1
10°	67.5	64.7	67.5	67.5	67.5	67.5
12.5°	64.7	64.7	64.7	64.7	67.5	66.1
15°	64.7	64.7	64.7	64.7	61.9	63.3
17.5°	64.7	61.9	64.7	61.9	64.7	64.7
20°	64.7	64.7	64.7	61.9	61.9	63.3
22.5°	59.9	61.9	59.9	61.9	59.9	61.9
25°	57.1	59.9	57.1	59.9	57.1	61.9
27.5°	57.1	59.9	57.1	59.9	57.1	59.9
30°	52.2	57.1	52.2	54.3	54.3	59.9
32.5°	57.1	57.1	57.1	57.1	54.3	55.7
35°	54.3	57.1	54.3	54.3	52.2	54.3
37.5°	52.2	54.3	52.2	52.2	46.6	52.2
40°	52.2	54.3	52.2	49.4	46.6	49.4
42.5°	52.2	54.3	52.2	49.4	41.7	48.0
45°	46.6	52.2	46.6	46.6	41.7	44.5
47.5°	41.7	49.4	41.7	41.7	38.9	41.7
50°	44.5	46.6	44.5	44.5	38.9	38.9
52.5°	44.5	46.6	44.5	41.7	34.0	36.5
55°	38.9	44.5	38.9	41.7	34.0	34.0
57.5°	38.9	44.5	38.9	31.2	31.2	31.2
60°	41.7	38.9	41.7	34.0	26.3	27.7
62.5°	36.8	34.0	36.8	34.0	23.5	24.9
65°	31.2	34.0	31.2	26.3	23.5	17.6
67.5°	29.1	31.2	29.1	29.1	18.7	14.8
70°	23.5	26.3	23.5	26.3	18.7	14.8
72.5°	21.4	23.5	21.4	23.5	18.7	12.4
75°	21.4	23.5	21.4	18.7	13.8	8.2
77.5°	15.9	18.7	15.9	15.9	15.9	9.6
80°	11.0	13.8	11.0	13.8	8.2	6.1
82.5°	8.2	11.0	8.2	11.0	6.1	6.1
85°	8.2	11.0	8.2	6.1	0.5	1.9
87.5°	0.5	6.1	0.5	0.5	0.5	0.5
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	23.5	49.4	23.5	64.7	31.2	21.1
95°	133.9	177.2	133.9	210.7	159.7	64.7
97.5°	302.8	361.5	302.8	392.2	315.4	122.3
100°	501.8	547.9	501.8	576.6	450.9	189.0
102.5°	591.9	755.3	591.9	758.1	499.8	260.3
105°	881.0	955.0	881.0	906.1	624.7	341.3
107.5°	1093.3	1139.4	1093.3	1024.1	732.3	419.1
110°	1230.8	1300.0	1230.8	1095.4	806.3	504.6



TEST NUMBER: 18216
 CATALOG NUMBER: VW-SC-2T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1346.0	1420.1	1346.0	1161.7	850.3	585.3
115°	1415.2	1507.3	1415.2	1259.5	904.0	669.4
117.5°	1461.3	1553.4	1461.3	1330.7	957.1	746.2
120°	1550.6	1612.1	1550.6	1384.4	1016.5	832.1
122.5°	1627.4	1699.4	1627.4	1430.5	1082.8	910.0
125°	1653.3	1760.8	1653.3	1450.8	1110.7	993.1
127.5°	1714.7	1793.6	1714.7	1481.5	1202.9	1071.3
130°	1745.4	1827.1	1745.4	1515.0	1272.0	1143.9
132.5°	1747.5	1837.6	1747.5	1548.5	1330.7	1216.9
135°	1760.8	1834.8	1760.8	1586.9	1397.0	1287.4
137.5°	1770.6	1842.5	1770.6	1622.6	1450.8	1356.5
140°	1788.7	1852.3	1788.7	1650.5	1517.8	1419.0
142.5°	1809.0	1862.8	1809.0	1693.8	1571.6	1480.5
145°	1824.4	1875.3	1824.4	1730.1	1630.2	1536.7
147.5°	1829.9	1885.8	1829.9	1760.8	1653.3	1591.8
150°	1855.1	1896.3	1855.1	1796.4	1722.4	1644.2
152.5°	1873.2	1906.0	1873.2	1827.1	1760.8	1687.5
155°	1890.7	1916.5	1890.7	1857.9	1801.3	1732.5
157.5°	1911.6	1929.1	1911.6	1883.0	1837.6	1773.4
160°	1924.2	1942.4	1924.2	1908.8	1860.0	1805.5
162.5°	1939.6	1950.0	1939.6	1927.0	1885.8	1840.1
165°	1954.9	1962.6	1954.9	1939.6	1908.8	1866.6
167.5°	1959.8	1967.5	1959.8	1947.2	1924.2	1891.0
170°	1962.6	1957.7	1962.6	1954.9	1929.1	1908.8
172.5°	1957.7	1962.6	1957.7	1954.9	1944.5	1924.2
175°	1959.8	1957.7	1959.8	1952.1	1950.0	1935.7
177.5°	1944.5	1947.2	1944.5	1950.0	1952.1	1941.0
180°	1943.1	1943.1	1943.1	1943.1	1943.1	1943.1

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