

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: 18222

Luminaire Tested: **VW-SC-1T5**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 18222  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: VW-SC-1T5  
Description: - DIRECT/INDIRECT LUMINAIRE - VERTECHS WALL - WHITE INTERIOR WITH  
SPECULAR REFLECTOR AND WHITE PLASTIC LENS OVER PERF  
Light Source: ONE PHILIPS 54 WATT T5 LAMP  
  
F54T5/TL841. LUMEN RATING = 4500 LMS.  
  
Ballast/Driver: -

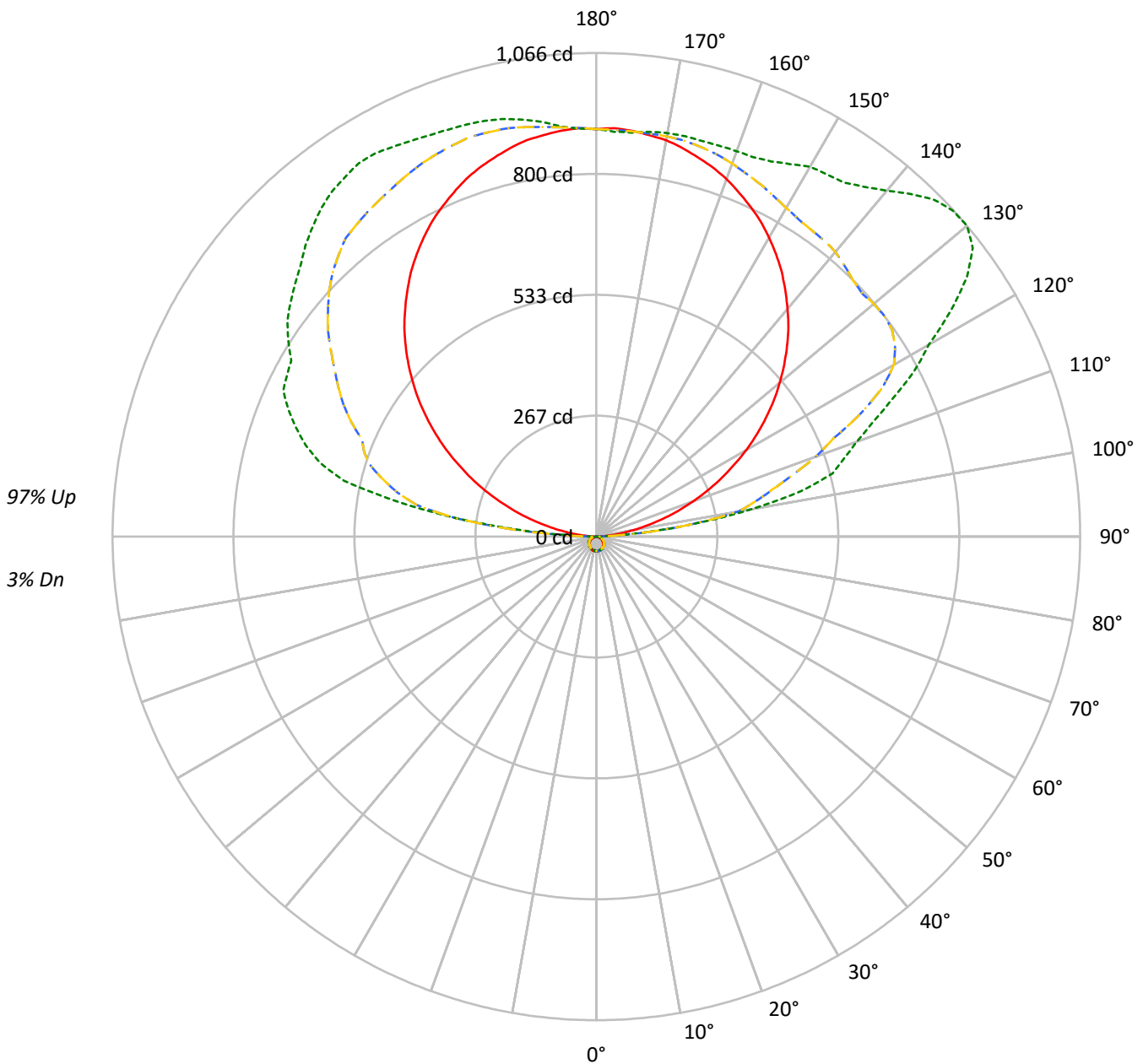
**Summary**

Lumens per Lamp: 4500 (1 lamp)  
Luminaire Lumens: 3788.8 lumens  
Efficiency: 84.2%  
Efficacy: 60.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 0.23' x L: 3.58' x H: 0')  
CIE Type: Indirect  
  
Input Watts (W): 63  
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: 18222  
CATALOG NUMBER: VW-SC-1T5

### Luminous Intensity Polar Plot



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



TEST NUMBER: 18222  
 CATALOG NUMBER: VW-SC-1T5

**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	81	81	81	81	69	69	69	69	48	48	48	29	29	29	11	11	11	2
1	73	70	67	64	63	60	58	56	42	40	39	25	24	23	9	9	9	2
2	67	61	56	52	57	52	49	45	37	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	41	36	32	28	25	23	17	15	14	6	6	5	1
5	51	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	37	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	3	3	1
9	37	27	21	17	31	23	19	15	16	13	11	10	8	7	4	3	3	1
10	34	25	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°	420	420	420	420
5°	417	434	417	411
10°	427	427	427	415
15°	420	414	420	414
20°	413	413	413	401
25°	417	441	417	415
30°	426	435	426	411
35°	407	460	407	434
40°	396	464	396	439
45°	403	440	403	429
50°	376	472	376	472
55°	376	472	376	488
60°	363	476	363	494
65°	316	486	316	507
70°	298	531	298	531
75°	202	540	202	576
80°	241	550	241	617
85°	285	855	285	960



TEST NUMBER: 18222  
 CATALOG NUMBER: VW-SC-1T5

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	3.0	0.1	0.1
10°-20°	8.7	0.2	0.2
20°-30°	13.3	0.4	0.3
30°-40°	16.5	0.4	0.4
40°-50°	17.6	0.5	0.4
50°-60°	17.0	0.4	0.4
60°-70°	14.2	0.4	0.3
70°-80°	9.9	0.3	0.2
80°-90°	3.9	0.1	0.1
90°-100°	143.3	3.8	3.2
100°-110°	432.3	11.4	9.6
110°-120°	570.9	15.1	12.7
120°-130°	643.5	17.0	14.3
130°-140°	616.2	16.3	13.7
140°-150°	530.9	14.0	11.8
150°-160°	406.3	10.7	9.0
160°-170°	255.2	6.7	5.7
170°-180°	86.1	2.3	1.9
0°-30°	25.0	0.7	0.6
0°-40°	41.5	1.1	0.9
0°-60°	76.2	2.0	1.7
0°-90°	104.2	2.8	2.3
90°-120°	1146.5	30.3	25.5
90°-150°	2937.0	77.5	65.3
90°-180°	3685.0	97.3	81.9
0°-180°	3788.8	100.0	84.2

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	32	32	32	32	32	
5°	32	33	32	31	32	3
15°	31	31	31	31	31	9
25°	29	31	29	29	29	13
35°	26	29	26	27	26	16
45°	22	24	22	23	22	17
55°	16	21	16	21	16	15
65°	10	16	10	16	10	10
75°	4	11	4	11	4	5
85°	2	6	2	6	2	2
90°	0	0	0	0	0	2
95°	30	105	30	171	30	36
105°	152	539	152	631	152	161
115°	304	721	304	761	304	300
125°	456	996	456	831	456	407
135°	594	1051	594	906	594	458
145°	712	952	712	966	712	445
155°	803	912	803	963	803	370
165°	865	902	865	949	865	244
175°	898	894	898	907	898	85
180°	898	898	898	898	898	



TEST NUMBER: 18222  
 CATALOG NUMBER: VW-SC-1T5

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
2.5°	33.1	32.2	33.1	32.2	33.1	32.2	33.1	32.2	33.1	33.1	31.3
5°	31.8	32.2	32.2	32.2	33.1	32.2	32.2	32.2	31.8	31.3	32.2
7.5°	32.2	33.1	32.2	32.2	32.2	32.2	32.2	33.1	32.2	30.6	32.2
10°	32.2	33.1	32.2	32.2	32.2	32.2	32.2	33.1	32.2	31.3	30.6
12.5°	32.2	31.3	29.7	32.2	32.2	32.2	29.7	31.3	32.2	31.3	29.7
15°	31.0	30.6	32.2	32.2	30.6	32.2	32.2	30.6	31.0	30.6	31.3
17.5°	30.5	30.6	32.2	32.2	29.7	32.2	32.2	30.6	30.5	29.7	30.6
20°	29.7	30.6	31.3	30.6	29.7	30.6	31.3	30.6	29.7	28.8	29.7
22.5°	29.3	29.7	29.7	30.6	29.7	30.6	29.7	29.7	29.3	28.2	28.2
25°	28.9	28.8	28.8	29.7	30.6	29.7	28.8	28.8	28.9	27.2	28.8
27.5°	27.2	30.6	28.2	29.7	30.6	29.7	28.2	30.6	27.2	27.2	28.2
30°	28.2	28.2	28.2	28.8	28.8	28.8	28.2	28.2	28.2	25.7	27.2
32.5°	26.5	26.3	28.2	30.6	28.8	30.6	28.2	26.3	26.5	25.7	25.7
35°	25.5	27.2	27.2	29.7	28.8	29.7	27.2	27.2	25.5	24.8	23.2
37.5°	24.0	25.7	26.3	28.2	27.2	28.2	26.3	25.7	24.0	23.8	24.8
40°	23.2	24.8	26.3	28.2	27.2	28.2	26.3	24.8	23.2	21.4	23.2
42.5°	22.3	23.8	23.2	25.7	26.3	25.7	23.2	23.8	22.3	21.4	23.2
45°	21.8	23.2	23.2	24.8	23.8	24.8	23.2	23.2	21.8	20.7	23.2
47.5°	20.7	21.4	23.2	24.8	23.2	24.8	23.2	21.4	20.7	18.9	22.3
50°	18.5	20.7	21.4	23.8	23.2	23.8	21.4	20.7	18.5	18.2	20.7
52.5°	18.2	18.9	21.4	23.2	21.4	23.2	21.4	18.9	18.2	16.4	18.9
55°	16.5	18.9	19.8	21.4	20.7	21.4	19.8	18.9	16.5	15.7	18.2
57.5°	15.2	17.3	18.9	19.8	19.8	19.8	18.9	17.3	15.2	14.8	18.9
60°	13.9	17.3	17.3	18.9	18.2	18.9	17.3	17.3	13.9	13.2	18.2
62.5°	12.3	14.8	17.3	18.2	16.4	18.2	17.3	14.8	12.3	12.3	16.4
65°	10.2	13.2	16.4	17.3	15.7	17.3	16.4	13.2	10.2	11.4	15.7
67.5°	8.5	12.3	13.9	15.7	13.9	15.7	13.9	12.3	8.5	9.8	13.2
70°	7.8	10.7	12.3	14.8	13.9	14.8	12.3	10.7	7.8	8.9	13.2
72.5°	6.1	10.7	11.4	13.2	12.3	13.2	11.4	10.7	6.1	8.2	12.3
75°	4.0	9.8	9.8	12.3	10.7	12.3	9.8	9.8	4.0	7.3	9.8
77.5°	3.6	8.2	8.9	10.7	9.8	10.7	8.9	8.2	3.6	6.4	8.9
80°	3.2	6.4	6.4	8.9	7.3	8.9	6.4	6.4	3.2	5.7	8.2
82.5°	2.3	5.7	4.8	6.4	3.2	6.4	4.8	5.7	2.3	3.2	6.4
85°	1.9	3.2	3.2	4.8	5.7	4.8	3.2	3.2	1.9	1.4	4.8
87.5°	0.6	1.4	2.3	3.9	3.9	3.9	2.3	1.4	0.6	0.7	3.2
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°	11.0	48.8	18.2	37.2	14.8	37.2	18.2	48.8	11.0	28.2	66.2
95°	30.2	122.7	110.2	138.5	105.2	138.5	110.2	122.7	30.2	125.2	187.5
97.5°	55.1	162.6	217.4	258.0	221.5	258.0	217.4	162.6	55.1	190.0	311.9
100°	83.2	229.9	317.8	434.1	346.2	434.1	317.8	229.9	83.2	230.6	401.7
102.5°	115.3	259.8	359.3	470.6	461.5	470.6	359.3	259.8	115.3	250.5	449.1
105°	152.1	321.2	401.7	506.4	538.6	506.4	401.7	321.2	152.1	302.9	486.5
107.5°	188.7	366.8	454.0	546.1	571.9	546.1	454.0	366.8	188.7	340.3	522.0
110°	226.6	401.7	514.6	596.8	610.0	596.8	514.6	401.7	226.6	372.7	544.5



TEST NUMBER: 18222  
 CATALOG NUMBER: VW-SC-1T5

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	264.8	430.0	565.3	664.2	659.2	664.2	565.3	430.0	264.8	413.2	558.5
115°	303.7	458.1	643.3	721.3	720.6	721.3	643.3	458.1	303.7	454.0	595.3
117.5°	341.5	481.5	710.6	782.0	789.5	782.0	710.6	481.5	341.5	491.4	627.4
120°	380.9	510.5	757.1	861.6	845.9	861.6	757.1	510.5	380.9	523.6	655.8
122.5°	418.7	547.9	780.2	952.9	925.5	952.9	780.2	547.9	418.7	556.9	683.2
125°	456.1	557.9	795.2	976.3	996.2	976.3	795.2	557.9	456.1	570.3	713.8
127.5°	492.6	579.4	799.5	994.4	1045.2	994.4	799.5	579.4	492.6	606.8	745.5
130°	527.5	602.5	797.7	996.2	1065.8	996.2	797.7	602.5	527.5	634.9	772.0
132.5°	561.1	629.9	793.6	984.4	1064.2	984.4	793.6	629.9	561.1	661.7	798.6
135°	594.2	655.8	799.5	966.3	1050.8	966.3	799.5	655.8	594.2	688.2	821.9
137.5°	626.3	682.3	809.4	943.9	1024.3	943.9	809.4	682.3	626.3	709.7	841.0
140°	655.3	707.2	819.4	928.0	995.3	928.0	819.4	707.2	655.3	738.7	859.1
142.5°	683.9	730.6	823.5	919.8	971.3	919.8	823.5	730.6	683.9	762.1	867.5
145°	711.9	765.2	825.1	919.8	952.2	919.8	825.1	765.2	711.9	785.2	875.9
147.5°	737.1	775.2	829.2	915.5	946.3	915.5	829.2	775.2	737.1	794.5	883.3
150°	760.8	795.2	836.6	907.4	941.4	907.4	836.6	795.2	760.8	822.6	891.5
152.5°	783.6	814.4	845.9	897.4	925.5	897.4	845.9	814.4	783.6	841.0	899.9
155°	802.8	830.1	856.6	892.4	912.3	892.4	856.6	830.1	802.8	855.0	908.0
157.5°	821.0	844.1	865.0	894.9	904.9	894.9	865.0	844.1	821.0	866.6	913.9
160°	838.8	857.5	875.0	896.5	904.0	896.5	875.0	857.5	838.8	876.5	918.9
162.5°	853.3	867.5	883.3	899.0	903.1	899.0	883.3	867.5	853.3	884.0	923.9
165°	865.4	876.5	889.0	901.5	902.4	901.5	889.0	876.5	865.4	890.8	922.3
167.5°	877.1	887.4	894.0	901.5	904.0	901.5	894.0	887.4	877.1	895.8	921.4
170°	887.1	891.5	895.8	901.5	903.1	901.5	895.8	891.5	887.1	897.4	916.4
172.5°	892.4	895.8	895.8	895.8	899.9	895.8	895.8	895.8	892.4	903.1	910.5
175°	898.2	900.6	896.5	892.4	894.0	892.4	896.5	900.6	898.2	905.5	905.5
177.5°	901.1	903.1	897.4	893.3	893.3	893.3	897.4	903.1	901.1	905.5	901.5
180°	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2



TEST NUMBER: 18222  
 CATALOG NUMBER: VW-SC-1T5

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	32.1	32.1	32.1	32.1	32.1	32.1
2.5°	31.3	33.1	31.3	31.3	33.1	33.1
5°	30.6	31.3	30.6	32.2	31.3	31.8
7.5°	30.6	29.7	30.6	32.2	30.6	32.2
10°	29.7	31.3	29.7	30.6	31.3	32.2
12.5°	29.7	29.7	29.7	29.7	31.3	32.2
15°	29.7	30.6	29.7	31.3	30.6	31.0
17.5°	28.8	30.6	28.8	30.6	29.7	30.5
20°	29.7	28.8	29.7	29.7	28.8	29.7
22.5°	28.2	29.7	28.2	28.2	28.2	29.3
25°	27.2	28.8	27.2	28.8	27.2	28.9
27.5°	27.2	27.2	27.2	28.2	27.2	27.2
30°	26.3	27.2	26.3	27.2	25.7	28.2
32.5°	25.7	26.3	25.7	25.7	25.7	26.5
35°	25.7	27.2	25.7	23.2	24.8	25.5
37.5°	25.7	26.3	25.7	24.8	23.8	24.0
40°	23.8	25.7	23.8	23.2	21.4	23.2
42.5°	23.8	23.2	23.8	23.2	21.4	22.3
45°	23.2	23.2	23.2	23.2	20.7	21.8
47.5°	21.4	23.2	21.4	22.3	18.9	20.7
50°	21.4	23.2	21.4	20.7	18.2	18.5
52.5°	20.7	21.4	20.7	18.9	16.4	18.2
55°	20.7	21.4	20.7	18.2	15.7	16.5
57.5°	19.8	19.8	19.8	18.9	14.8	15.2
60°	17.3	18.9	17.3	18.2	13.2	13.9
62.5°	17.3	18.9	17.3	16.4	12.3	12.3
65°	16.4	16.4	16.4	15.7	11.4	10.2
67.5°	13.9	16.4	13.9	13.2	9.8	8.5
70°	13.2	13.9	13.2	13.2	8.9	7.8
72.5°	11.4	13.9	11.4	12.3	8.2	6.1
75°	9.8	11.4	9.8	9.8	7.3	4.0
77.5°	8.9	9.8	8.9	8.9	6.4	3.6
80°	6.4	8.2	6.4	8.2	5.7	3.2
82.5°	5.7	5.7	5.7	6.4	3.2	2.3
85°	3.9	6.4	3.9	4.8	1.4	1.9
87.5°	2.3	4.8	2.3	3.2	0.7	0.6
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	22.3	52.2	22.3	66.2	28.2	11.0
95°	129.5	170.9	129.5	187.5	125.2	30.2
97.5°	260.5	311.2	260.5	311.9	190.0	55.1
100°	397.6	445.7	397.6	401.7	230.6	83.2
102.5°	454.7	569.4	454.7	449.1	250.5	115.3
105°	575.3	630.8	575.3	486.5	302.9	152.1
107.5°	621.8	671.6	621.8	522.0	340.3	188.7
110°	657.4	704.7	657.4	544.5	372.7	226.6





TEST NUMBER: 18222  
 CATALOG NUMBER: VW-SC-1T5

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	685.7	734.6	685.7	558.5	413.2	264.8
115°	709.7	761.2	709.7	595.3	454.0	303.7
117.5°	714.7	768.6	714.7	627.4	491.4	341.5
120°	733.7	776.1	733.7	655.8	523.6	380.9
122.5°	765.2	804.5	765.2	683.2	556.9	418.7
125°	777.7	831.0	777.7	713.8	570.3	456.1
127.5°	807.6	849.1	807.6	745.5	606.8	492.6
130°	829.2	866.6	829.2	772.0	634.9	527.5
132.5°	853.4	884.0	853.4	798.6	661.7	561.1
135°	877.4	906.5	877.4	821.9	688.2	594.2
137.5°	899.0	925.5	899.0	841.0	709.7	626.3
140°	916.4	943.9	916.4	859.1	738.7	655.3
142.5°	931.4	957.9	931.4	867.5	762.1	683.9
145°	941.4	966.3	941.4	875.9	785.2	711.9
147.5°	946.3	975.4	946.3	883.3	794.5	737.1
150°	949.7	975.4	949.7	891.5	822.6	760.8
152.5°	946.3	968.8	946.3	899.9	841.0	783.6
155°	945.4	962.9	945.4	908.0	855.0	802.8
157.5°	944.8	957.9	944.8	913.9	866.6	821.0
160°	945.4	954.7	945.4	918.9	876.5	838.8
162.5°	944.8	952.2	944.8	923.9	884.0	853.3
165°	942.3	948.8	942.3	922.3	890.8	865.4
167.5°	937.3	942.9	937.3	921.4	895.8	877.1
170°	934.8	933.0	934.8	916.4	897.4	887.1
172.5°	918.9	922.3	918.9	910.5	903.1	892.4
175°	909.9	907.4	909.9	905.5	905.5	898.2
177.5°	900.6	899.9	900.6	901.5	905.5	901.1
180°	898.2	898.2	898.2	898.2	898.2	898.2

(END OF REPORT)