

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: 18219

Luminaire Tested: **VW-SC-1T8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 18219  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: VW-SC-1T8  
Description: - DIRECT/INDIRECT LUMINAIRE - VERTECHS WALL - WHITE INTERIOR WITH  
SPECULAR REFLECTOR AND WHITE PLASTIC LENS OVER PERF  
Light Source: ONE PHILIPS 32 WATT T8 LAMP  
  
F32T8/TL841. LUMEN RATING = 3000 LMS.  
  
Ballast/Driver: -

**Summary**

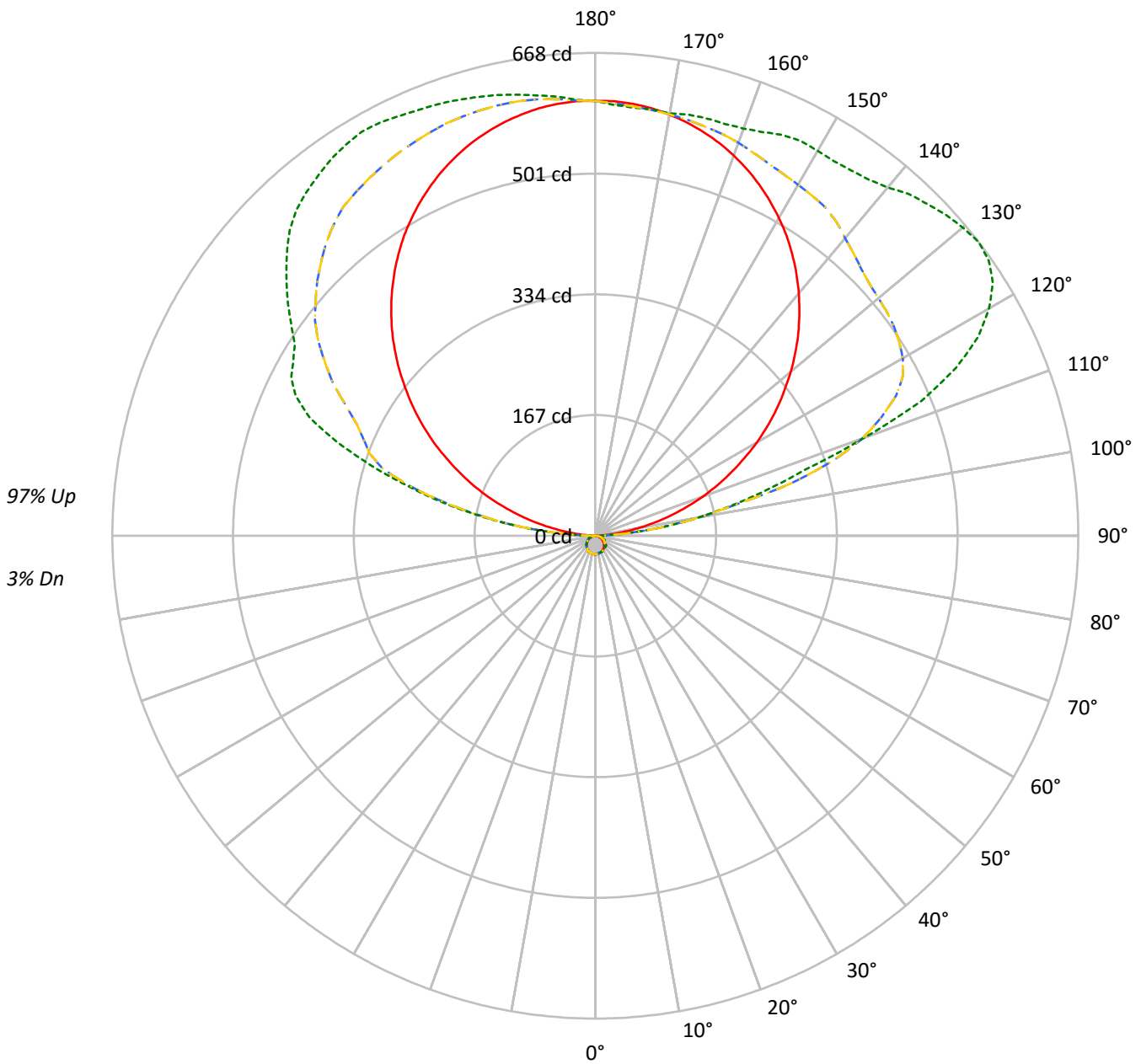
Lumens per Lamp: 3000 (1 lamp)  
Luminaire Lumens: 2435.1 lumens  
Efficiency: 81.2%  
Efficacy: 84.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42  
Luminous Opening: Rectangular (W 0.23' x L: 3.58' x H: 0')  
CIE Type: Indirect

Input Watts (W): 29  
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



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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	78	78	78	78	67	67	67	67	47	47	47	28	28	28	11	11	11	3
1	71	68	65	62	61	58	56	54	41	39	38	24	24	23	9	9	9	2
2	64	59	54	50	55	51	47	44	35	33	31	21	20	19	8	8	7	2
3	59	52	46	42	50	45	40	36	31	28	26	19	17	16	7	7	6	1
4	54	45	40	35	46	39	34	31	27	24	22	17	15	14	6	6	5	1
5	49	40	34	30	42	35	30	26	24	21	19	15	13	12	6	5	5	1
6	45	36	30	25	38	31	26	22	22	18	16	13	11	10	5	4	4	1
7	41	32	26	22	35	28	23	19	20	16	14	12	10	9	5	4	3	1
8	38	29	23	19	33	25	20	17	18	14	12	11	9	8	4	4	3	1
9	35	26	21	17	30	23	18	15	16	13	11	10	8	7	4	3	3	1
10	33	24	18	15	28	21	16	13	15	12	9	9	7	6	3	3	2	1

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

	0°	90°	180°	270°
0°	333	333	333	333
5°	336	336	336	336
10°	338	332	338	332
15°	333	326	333	326
20°	334	331	334	331
25°	329	343	329	327
30°	329	338	329	329
35°	327	353	327	329
40°	324	367	324	323
45°	316	372	316	324
50°	319	390	319	301
55°	301	371	301	310
60°	293	403	293	311
65°	278	433	278	334
70°	264	443	264	321
75°	232	439	232	278
80°	181	414	181	301
85°	120	465	120	255



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	2.4	0.1	0.1
10°-20°	6.9	0.3	0.2
20°-30°	10.6	0.4	0.4
30°-40°	13.0	0.5	0.4
40°-50°	13.8	0.6	0.5
50°-60°	13.0	0.5	0.4
60°-70°	10.8	0.4	0.4
70°-80°	7.1	0.3	0.2
80°-90°	2.3	0.1	0.1
90°-100°	64.5	2.6	2.2
100°-110°	243.9	10.0	8.1
110°-120°	381.7	15.7	12.7
120°-130°	417.9	17.2	13.9
130°-140°	401.2	16.5	13.4
140°-150°	349.9	14.4	11.7
150°-160°	269.5	11.1	9.0
160°-170°	169.1	6.9	5.6
170°-180°	57.4	2.4	1.9
0°-30°	19.9	0.8	0.7
0°-40°	32.9	1.3	1.1
0°-60°	59.7	2.5	2.0
0°-90°	79.8	3.3	2.7
90°-120°	690.1	28.3	23.0
90°-150°	1859.3	76.4	62.0
90°-180°	2355.0	96.7	78.5
0°-180°	2435.1	100.0	81.2

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	26	26	26	26	26	
5°	26	26	26	26	26	2
15°	25	24	25	24	25	7
25°	23	24	23	23	23	11
35°	20	22	20	21	20	13
45°	17	20	17	18	17	13
55°	13	16	13	14	13	12
65°	9	14	9	11	9	9
75°	5	9	5	6	5	5
85°	1	3	1	2	1	1
90°	0	0	0	0	0	1
95°	19	50	19	68	19	24
105°	108	246	108	272	108	114
115°	207	551	207	457	207	205
125°	306	664	306	514	306	274
135°	397	649	397	598	397	306
145°	475	617	475	636	475	297
155°	536	612	536	641	536	247
165°	578	598	578	628	578	163
175°	600	595	600	610	600	57
180°	602	602	602	602	602	



TEST NUMBER: 18219  
 CATALOG NUMBER: VW-SC-1T8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
2.5°	25.6	25.3	25.6	25.3	25.6	25.3	25.6	25.3	25.6	25.9	25.3
5°	25.6	25.6	25.6	25.0	25.6	25.0	25.6	25.6	25.6	25.6	25.3
7.5°	25.2	25.3	25.6	25.3	25.6	25.3	25.6	25.3	25.2	25.3	25.6
10°	25.5	25.3	24.1	25.0	25.0	25.0	24.1	25.3	25.5	25.0	24.1
12.5°	24.4	25.0	24.1	25.0	24.5	25.0	24.1	25.0	24.4	25.0	25.3
15°	24.6	24.7	24.7	24.7	24.1	24.7	24.7	24.7	24.6	24.5	24.7
17.5°	24.1	24.7	24.1	24.5	23.8	24.5	24.1	24.7	24.1	23.8	24.1
20°	24.0	24.1	24.5	24.5	23.8	24.5	24.5	24.1	24.0	23.6	24.1
22.5°	23.8	23.8	23.0	23.6	23.3	23.6	23.0	23.8	23.8	23.3	23.3
25°	22.8	23.3	23.3	23.3	23.8	23.3	23.3	23.3	22.8	22.7	23.0
27.5°	22.4	22.7	23.0	23.3	23.3	23.3	23.0	22.7	22.4	21.8	22.7
30°	21.8	22.1	21.5	22.7	22.4	22.7	21.5	22.1	21.8	21.3	21.5
32.5°	21.1	21.5	21.5	22.4	22.7	22.4	21.5	21.5	21.1	21.0	21.0
35°	20.5	20.6	21.3	21.5	22.1	21.5	21.3	20.6	20.5	20.1	20.4
37.5°	19.6	20.1	20.4	21.5	21.8	21.5	20.4	20.1	19.6	19.2	19.8
40°	19.0	19.8	19.8	21.0	21.5	21.0	19.8	19.8	19.0	18.3	19.2
42.5°	17.6	18.3	19.2	20.6	19.8	20.6	19.2	18.3	17.6	17.8	18.3
45°	17.1	17.5	18.9	19.8	20.1	19.8	18.9	17.5	17.1	16.9	17.5
47.5°	16.4	16.9	17.8	19.8	20.4	19.8	17.8	16.9	16.4	16.0	16.6
50°	15.7	16.0	17.1	19.2	19.2	19.2	17.1	16.0	15.7	15.1	15.4
52.5°	14.2	15.1	16.3	18.3	17.1	18.3	16.3	15.1	14.2	14.0	14.5
55°	13.2	14.3	16.0	17.5	16.3	17.5	16.0	14.3	13.2	13.4	13.6
57.5°	12.2	14.0	14.8	17.1	16.3	17.1	14.8	14.0	12.2	12.2	13.1
60°	11.2	12.5	14.0	15.7	15.4	15.7	14.0	12.5	11.2	11.0	12.5
62.5°	10.0	11.6	13.6	15.1	14.8	15.1	13.6	11.6	10.0	10.5	11.3
65°	9.0	10.5	12.5	14.3	14.0	14.3	12.5	10.5	9.0	9.0	9.9
67.5°	8.0	9.9	11.0	13.1	11.9	13.1	11.0	9.9	8.0	7.8	9.6
70°	6.9	9.0	10.1	11.6	11.6	11.6	10.1	9.0	6.9	7.3	8.4
72.5°	5.8	7.8	9.3	9.9	10.1	9.9	9.3	7.8	5.8	5.8	7.5
75°	4.6	6.9	8.4	9.0	8.7	9.0	8.4	6.9	4.6	5.5	6.9
77.5°	3.9	6.4	6.9	7.8	8.4	7.8	6.9	6.4	3.9	4.3	5.5
80°	2.4	5.8	5.5	6.4	5.5	6.4	5.5	5.8	2.4	2.9	4.3
82.5°	2.4	4.0	3.4	5.8	4.3	5.8	3.4	4.0	2.4	2.0	2.6
85°	0.8	2.6	2.6	4.3	3.1	4.3	2.6	2.6	0.8	0.5	0.8
87.5°	0.5	0.8	1.1	2.9	1.7	2.9	1.1	0.8	0.5	0.5	0.8
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°	5.8	27.6	14.5	28.8	11.3	28.8	14.5	27.6	5.8	6.4	26.2
95°	18.6	63.8	51.5	68.8	49.5	68.8	51.5	63.8	18.6	40.5	66.7
97.5°	37.4	120.7	95.3	116.6	95.0	116.6	95.3	120.7	37.4	81.0	114.8
100°	59.9	188.6	144.6	194.4	143.7	194.4	144.6	188.6	59.9	130.6	162.3
102.5°	83.2	205.8	198.3	220.4	193.0	220.4	198.3	205.8	83.2	148.7	214.6
105°	108.1	233.8	280.5	278.7	246.1	278.7	280.5	233.8	108.1	181.6	265.0
107.5°	132.5	254.2	344.0	372.6	304.1	372.6	344.0	254.2	132.5	209.6	307.9
110°	158.0	273.5	393.1	454.8	395.7	454.8	393.1	273.5	158.0	239.1	331.8



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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°	182.5	289.8	428.0	512.0	488.7	512.0	428.0	289.8	182.5	270.0	346.4
115°	207.3	306.4	459.0	554.6	550.9	554.6	459.0	306.4	207.3	294.7	363.6
117.5°	232.2	323.6	479.7	583.2	597.2	583.2	479.7	323.6	232.2	318.7	388.1
120°	257.6	343.1	491.1	608.3	628.7	608.3	491.1	343.1	257.6	339.7	417.6
122.5°	282.2	373.2	498.1	626.1	651.7	626.1	498.1	373.2	282.2	362.2	442.3
125°	306.4	382.6	504.4	627.0	664.2	627.0	504.4	382.6	306.4	371.5	467.4
127.5°	329.5	398.9	508.3	624.6	668.0	624.6	508.3	398.9	329.5	402.1	488.7
130°	352.8	412.9	511.1	621.1	663.3	621.1	511.1	412.9	352.8	418.7	504.8
132.5°	375.3	428.0	514.9	615.3	657.3	615.3	514.9	428.0	375.3	434.8	521.6
135°	397.1	442.9	520.8	607.7	649.1	607.7	520.8	442.9	397.1	452.2	536.2
137.5°	417.8	458.3	529.0	601.0	641.5	601.0	529.0	458.3	417.8	468.0	550.5
140°	437.8	473.2	537.4	597.7	628.9	597.7	537.4	473.2	437.8	484.1	562.5
142.5°	456.9	488.7	547.6	597.2	621.1	597.2	547.6	488.7	456.9	499.2	573.0
145°	475.0	510.0	554.6	599.8	617.0	599.8	554.6	510.0	475.0	514.1	579.1
147.5°	492.2	516.4	558.1	601.6	614.4	601.6	558.1	516.4	492.2	520.2	584.6
150°	507.9	528.6	560.7	602.8	614.9	602.8	560.7	528.6	507.9	540.3	589.9
152.5°	522.5	539.7	563.9	599.8	615.6	599.8	563.9	539.7	522.5	551.7	594.9
155°	536.1	550.9	567.7	595.4	611.8	595.4	567.7	550.9	536.1	562.5	598.9
157.5°	548.6	560.2	573.0	592.2	604.5	592.2	573.0	560.2	548.6	572.7	602.8
160°	559.8	569.2	578.6	591.9	599.5	591.9	578.6	569.2	559.8	580.2	606.5
162.5°	569.9	576.8	582.9	593.1	597.2	593.1	582.9	576.8	569.9	587.9	608.3
165°	578.1	583.7	586.1	593.4	597.5	593.4	586.1	583.7	578.1	594.2	609.7
167.5°	585.8	592.2	589.3	592.8	596.6	592.8	589.3	592.2	585.8	598.9	610.6
170°	591.5	594.6	591.9	592.8	593.4	592.8	591.9	594.6	591.5	600.4	610.3
172.5°	596.6	598.9	594.2	593.4	594.9	593.4	594.2	598.9	596.6	604.7	609.1
175°	599.7	601.9	596.3	594.2	594.6	594.2	596.3	601.9	599.7	606.2	606.2
177.5°	601.7	604.2	598.6	596.0	596.6	596.0	598.6	604.2	601.7	606.8	602.8
180°	601.5	601.5	601.5	601.5	601.5	601.5	601.5	601.5	601.5	601.5	601.5



TEST NUMBER: 18219  
 CATALOG NUMBER: VW-SC-1T8

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	25.5	25.5	25.5	25.5	25.5	25.5
2.5°	25.0	25.0	25.0	25.3	25.9	25.6
5°	25.6	25.6	25.6	25.3	25.6	25.6
7.5°	25.0	25.0	25.0	25.6	25.3	25.2
10°	24.7	25.0	24.7	24.1	25.0	25.5
12.5°	24.5	24.1	24.5	25.3	25.0	24.4
15°	24.5	24.1	24.5	24.7	24.5	24.6
17.5°	24.1	23.6	24.1	24.1	23.8	24.1
20°	23.3	23.8	23.3	24.1	23.6	24.0
22.5°	23.0	23.3	23.0	23.3	23.3	23.8
25°	22.1	22.7	22.1	23.0	22.7	22.8
27.5°	21.5	21.8	21.5	22.7	21.8	22.4
30°	21.3	21.8	21.3	21.5	21.3	21.8
32.5°	20.6	21.0	20.6	21.0	21.0	21.1
35°	20.1	20.6	20.1	20.4	20.1	20.5
37.5°	18.7	19.2	18.7	19.8	19.2	19.6
40°	18.0	18.9	18.0	19.2	18.3	19.0
42.5°	17.5	18.0	17.5	18.3	17.8	17.6
45°	16.6	17.5	16.6	17.5	16.9	17.1
47.5°	15.7	16.6	15.7	16.6	16.0	16.4
50°	15.1	14.8	15.1	15.4	15.1	15.7
52.5°	14.0	14.8	14.0	14.5	14.0	14.2
55°	13.1	13.6	13.1	13.6	13.4	13.2
57.5°	12.2	13.4	12.2	13.1	12.2	12.2
60°	11.3	11.9	11.3	12.5	11.0	11.2
62.5°	10.5	11.6	10.5	11.3	10.5	10.0
65°	9.3	10.8	9.3	9.9	9.0	9.0
67.5°	8.7	9.0	8.7	9.6	7.8	8.0
70°	7.5	8.4	7.5	8.4	7.3	6.9
72.5°	6.4	7.5	6.4	7.5	5.8	5.8
75°	5.2	5.5	5.2	6.9	5.5	4.6
77.5°	4.6	4.9	4.6	5.5	4.3	3.9
80°	2.9	4.0	2.9	4.3	2.9	2.4
82.5°	1.7	2.9	1.7	2.6	2.0	2.4
85°	1.1	1.7	1.1	0.8	0.5	0.8
87.5°	0.5	0.8	0.5	0.8	0.5	0.5
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	7.5	25.6	7.5	26.2	6.4	5.8
95°	43.7	67.6	43.7	66.7	40.5	18.6
97.5°	90.1	116.6	90.1	114.8	81.0	37.4
100°	139.3	166.2	139.3	162.3	130.6	59.9
102.5°	163.9	220.1	163.9	214.6	148.7	83.2
105°	242.6	271.7	242.6	265.0	181.6	108.1
107.5°	294.7	326.6	294.7	307.9	209.6	132.5
110°	344.7	381.1	344.7	331.8	239.1	158.0





TEST NUMBER: 18219  
 CATALOG NUMBER: VW-SC-1T8

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	397.4	427.8	397.4	346.4	270.0	182.5
115°	424.8	456.9	424.8	363.6	294.7	207.3
117.5°	442.9	474.1	442.9	388.1	318.7	232.2
120°	450.8	482.3	450.8	417.6	339.7	257.6
122.5°	465.1	492.8	465.1	442.3	362.2	282.2
125°	474.7	513.8	474.7	467.4	371.5	306.4
127.5°	512.6	536.5	512.6	488.7	402.1	329.5
130°	534.2	557.8	534.2	504.8	418.7	352.8
132.5°	554.9	578.6	554.9	521.6	434.8	375.3
135°	575.3	597.7	575.3	536.2	452.2	397.1
137.5°	587.9	611.8	587.9	550.5	468.0	417.8
140°	598.4	621.1	598.4	562.5	484.1	437.8
142.5°	608.6	628.9	608.6	573.0	499.2	456.9
145°	616.5	636.5	616.5	579.1	514.1	475.0
147.5°	620.2	641.5	620.2	584.6	520.2	492.2
150°	628.1	645.6	628.1	589.9	540.3	507.9
152.5°	628.4	644.4	628.4	594.9	551.7	522.5
155°	627.0	640.9	627.0	598.9	562.5	536.1
157.5°	626.1	637.7	626.1	602.8	572.7	548.6
160°	624.9	635.4	624.9	606.5	580.2	559.8
162.5°	623.5	632.1	623.5	608.3	587.9	569.9
165°	621.7	628.4	621.7	609.7	594.2	578.1
167.5°	619.3	624.6	619.3	610.6	598.9	585.8
170°	617.9	619.6	617.9	610.3	600.4	591.5
172.5°	612.9	614.4	612.9	609.1	604.7	596.6
175°	609.1	610.0	609.1	606.2	606.2	599.7
177.5°	604.2	603.6	604.2	602.8	606.8	601.7
180°	601.5	601.5	601.5	601.5	601.5	601.5

(END OF REPORT)