

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: 18224

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 18224
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: VW-SB-1T5
Description: - DIRECT/INDIRECT LUMINAIRE - VERTECHS WALL - WHITE INTERIOR WITH
SPECULAR REFLECTOR AND SEMI-SPECULAR 19 CELL LOUVER
Light Source: ONE PHILIPS 54 WATT T5 LAMP

F54T5/TL841. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

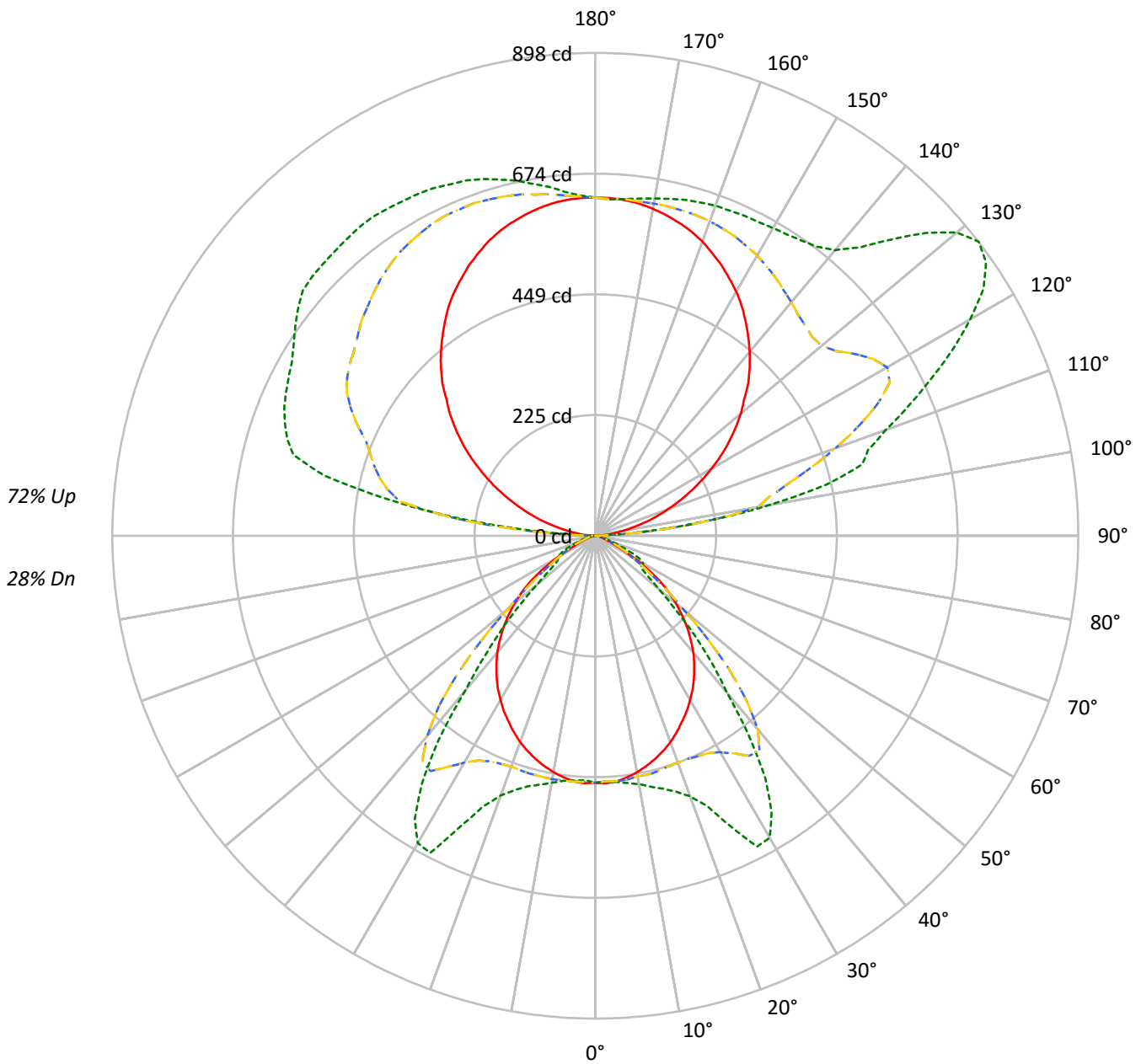
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 3947.8 lumens
Efficiency: 87.7%
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.55 / 1.43
Luminous Opening: Rectangular (W 0.23' x L: 3.58' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 61
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: 18224
CATALOG NUMBER: VW-SB-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	89	89	89	89	80	80	80	80	62	62	62	46	46	46	32	32	32	25
1	82	79	75	73	73	71	68	66	55	54	52	41	40	40	29	28	28	22
2	75	69	64	60	67	62	58	55	49	46	44	37	35	34	26	25	24	19
3	69	61	55	51	61	55	50	46	44	40	37	33	31	29	23	22	21	17
4	63	54	48	43	56	49	44	39	39	35	32	30	27	25	21	20	18	15
5	58	48	42	37	52	44	38	34	35	31	28	27	24	22	19	18	16	13
6	53	43	37	32	48	39	34	29	32	27	24	24	21	19	17	16	14	12
7	49	39	33	28	44	35	30	26	29	24	21	22	19	17	16	14	13	10
8	46	35	29	25	41	32	27	23	26	22	19	20	17	15	15	13	12	9
9	42	32	26	22	38	29	24	20	24	20	17	18	16	14	14	12	10	8
10	39	29	24	20	35	27	22	18	22	18	15	17	14	12	12	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6006	6006	6006	6006
5°	6018	6032	6018	6000
10°	5928	6226	5928	6192
15°	5814	6592	5814	6526
20°	5680	7171	5680	7149
25°	5501	8608	5501	8631
30°	5319	9786	5319	9961
35°	5105	8795	5105	8967
40°	4836	6488	4836	6403
45°	4463	4786	4463	4509
50°	3974	3122	3974	2868
55°	3307	2341	3307	2042
60°	2199	2685	2199	2123
65°	1191	2230	1191	1998
70°	787	1361	787	1387
75°	581	1000	581	1046
80°	587	926	587	994
85°	585	855	585	1095



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	43.7	1.1	1.0
10°-20°	129.5	3.3	2.9
20°-30°	221.1	5.6	4.9
30°-40°	287.0	7.3	6.4
40°-50°	227.0	5.8	5.0
50°-60°	124.5	3.2	2.8
60°-70°	51.5	1.3	1.1
70°-80°	17.9	0.5	0.4
80°-90°	5.8	0.1	0.1
90°-100°	127.9	3.2	2.8
100°-110°	380.1	9.6	8.4
110°-120°	473.9	12.0	10.5
120°-130°	500.0	12.7	11.1
130°-140°	447.4	11.3	9.9
140°-150°	378.6	9.6	8.4
150°-160°	290.5	7.4	6.5
160°-170°	180.7	4.6	4.0
170°-180°	60.4	1.5	1.3
0°-30°	394.4	10.0	8.8
0°-40°	681.4	17.3	15.1
0°-60°	1033.0	26.2	23.0
0°-90°	1108.2	28.1	24.6
90°-120°	981.9	24.9	21.8
90°-150°	2308.0	58.5	51.3
90°-180°	2840.0	71.9	63.1
0°-180°	3947.8	100.0	87.7

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	459	459	459	459	459	
5°	459	460	459	457	459	43
15°	430	487	430	482	430	121
25°	381	597	381	598	381	176
35°	320	551	320	562	320	200
45°	241	259	241	244	241	185
55°	145	103	145	90	145	127
65°	38	72	38	65	38	43
75°	12	20	12	21	12	13
85°	4	6	4	7	4	4
90°	0	0	0	0	0	1
95°	20	94	20	134	20	23
105°	95	514	95	581	95	101
115°	196	687	196	634	196	194
125°	303	886	303	681	303	270
135°	402	780	402	716	402	309
145°	487	670	487	723	487	305
155°	555	657	555	713	555	256
165°	602	647	602	686	602	170
175°	627	628	627	642	627	60
180°	629	629	629	629	629	



TEST NUMBER: 18224
 CATALOG NUMBER: VW-SB-1T5

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	459.4	459.4	459.4	459.4	459.4	459.4	459.4	459.4	459.4	459.4	459.4
2.5°	460.6	462.2	457.2	455.6	458.1	455.6	457.2	462.2	460.6	462.2	458.1
5°	458.6	459.0	458.1	455.6	459.7	455.6	458.1	459.0	458.6	459.0	459.0
7.5°	453.1	456.5	457.2	458.1	464.0	458.1	457.2	456.5	453.1	456.5	459.0
10°	446.6	450.6	454.0	463.1	469.0	463.1	454.0	450.6	446.6	450.6	459.7
12.5°	438.6	444.1	454.7	468.1	478.1	468.1	454.7	444.1	438.6	445.0	459.0
15°	429.6	435.7	453.1	473.1	487.1	473.1	453.1	435.7	429.6	437.5	459.0
17.5°	419.6	429.1	449.7	479.7	498.9	479.7	449.7	429.1	419.6	430.7	458.1
20°	408.3	420.0	449.1	489.0	515.5	489.0	449.1	420.0	408.3	422.5	456.5
22.5°	395.5	410.8	449.1	503.9	543.6	503.9	449.1	410.8	395.5	414.2	459.0
25°	381.4	401.7	452.2	526.1	596.8	526.1	452.2	401.7	381.4	404.2	463.1
27.5°	368.1	391.7	455.6	566.9	651.7	566.9	455.6	391.7	368.1	395.8	470.6
30°	352.4	380.8	464.7	613.4	648.3	613.4	464.7	380.8	352.4	385.8	487.1
32.5°	337.0	370.2	479.7	610.0	610.0	610.0	479.7	370.2	337.0	375.8	509.6
35°	319.9	359.3	499.6	576.9	551.1	576.9	499.6	359.3	319.9	366.1	534.5
37.5°	302.0	346.2	501.4	512.1	469.0	512.1	501.4	346.2	302.0	356.8	527.9
40°	283.4	335.3	469.7	447.2	380.2	447.2	469.7	335.3	283.4	348.6	486.5
42.5°	262.6	321.9	415.7	351.1	320.3	351.1	415.7	321.9	262.6	339.4	430.7
45°	241.4	310.3	351.8	286.3	258.9	286.3	351.8	310.3	241.4	326.2	359.3
47.5°	219.0	295.4	280.4	231.5	199.1	231.5	280.4	295.4	219.0	309.4	284.7
50°	195.4	276.3	214.9	177.5	153.5	177.5	214.9	276.3	195.4	280.4	210.8
52.5°	171.7	248.0	169.1	137.6	122.0	137.6	169.1	248.0	171.7	243.9	164.1
55°	145.1	212.4	129.5	109.5	102.7	109.5	129.5	212.4	145.1	185.0	126.1
57.5°	114.8	170.0	101.1	96.2	102.7	96.2	101.1	170.0	114.8	136.9	96.2
60°	84.1	111.1	76.2	87.1	102.7	87.1	76.2	111.1	84.1	86.2	76.2
62.5°	55.5	70.3	62.2	83.7	92.8	83.7	62.2	70.3	55.5	53.1	59.7
65°	38.5	43.8	46.3	70.3	72.1	70.3	46.3	43.8	38.5	35.6	48.1
67.5°	26.5	30.6	33.1	53.1	48.8	53.1	33.1	30.6	26.5	25.7	36.3
70°	20.6	23.8	24.8	37.2	35.6	37.2	24.8	23.8	20.6	19.8	23.2
72.5°	15.1	18.9	19.8	26.3	23.2	26.3	19.8	18.9	15.1	14.8	18.9
75°	11.5	15.7	14.8	21.4	19.8	21.4	14.8	15.7	11.5	12.3	16.4
77.5°	9.0	12.3	13.9	15.7	16.4	15.7	13.9	12.3	9.0	11.4	12.3
80°	7.8	10.7	9.8	12.3	12.3	12.3	9.8	10.7	7.8	8.2	9.8
82.5°	4.8	7.3	8.2	9.8	9.8	9.8	8.2	7.3	4.8	6.4	8.2
85°	3.9	5.7	4.8	6.4	5.7	6.4	4.8	5.7	3.9	3.9	6.4
87.5°	1.1	3.2	3.2	5.7	4.8	5.7	3.2	3.2	1.1	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°	8.1	56.3	15.7	37.2	7.3	37.2	15.7	56.3	8.1	18.9	49.7
95°	19.8	119.5	106.1	140.1	93.7	140.1	106.1	119.5	19.8	105.2	160.1
97.5°	34.3	146.7	210.8	259.8	206.5	259.8	210.8	146.7	34.3	165.1	279.7
100°	51.7	213.3	306.3	421.6	328.7	421.6	306.3	213.3	51.7	188.4	368.6
102.5°	71.2	237.4	330.3	454.7	441.6	454.7	330.3	237.4	71.2	198.4	395.1
105°	94.6	276.3	368.6	475.6	513.9	475.6	368.6	276.3	94.6	239.9	415.1
107.5°	119.4	290.4	419.1	513.0	532.0	513.0	419.1	290.4	119.4	274.8	430.7
110°	143.5	292.9	474.7	571.9	574.4	571.9	474.7	292.9	143.5	296.3	445.0



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 CATALOG NUMBER: VW-SB-1T5

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	169.2	297.0	527.9	629.3	629.9	629.3	527.9	297.0	169.2	310.3	461.5
115°	195.8	307.8	578.5	688.9	687.3	688.9	578.5	307.8	195.8	324.4	488.0
117.5°	222.4	321.9	616.8	742.1	748.7	742.1	616.8	321.9	222.4	344.3	512.1
120°	249.4	342.8	626.8	790.2	804.5	790.2	626.8	342.8	249.4	364.3	533.6
122.5°	276.3	372.7	611.8	827.6	855.9	827.6	611.8	372.7	276.3	385.8	547.0
125°	302.9	383.3	589.4	826.0	886.5	826.0	589.4	383.3	302.9	395.1	556.9
127.5°	327.8	403.3	564.4	802.0	898.3	802.0	564.4	403.3	327.8	425.0	565.3
130°	353.2	423.2	549.5	764.6	877.4	764.6	549.5	423.2	353.2	447.2	576.9
132.5°	375.2	444.1	547.0	717.2	833.5	717.2	547.0	444.1	375.2	468.1	590.3
135°	402.1	463.1	552.0	675.7	779.5	675.7	552.0	463.1	402.1	487.1	600.0
137.5°	424.9	482.2	557.9	654.9	727.2	654.9	557.9	482.2	424.9	504.6	610.9
140°	446.6	498.9	566.9	648.3	693.2	648.3	566.9	498.9	446.6	522.0	621.8
142.5°	466.9	516.4	575.3	643.3	677.3	643.3	575.3	516.4	466.9	537.9	630.8
145°	487.1	538.6	585.3	641.7	669.8	641.7	585.3	538.6	487.1	552.9	639.2
147.5°	506.7	544.5	593.4	643.3	664.2	643.3	593.4	544.5	506.7	557.9	644.9
150°	524.2	558.5	601.8	643.3	660.8	643.3	601.8	558.5	524.2	577.8	649.9
152.5°	539.5	569.4	607.5	644.9	657.4	644.9	607.5	569.4	539.5	588.5	654.9
155°	555.2	581.9	614.3	645.8	656.7	645.8	614.3	581.9	555.2	597.7	657.4
157.5°	568.6	590.9	618.4	646.7	654.2	646.7	618.4	590.9	568.6	608.4	657.4
160°	582.2	600.0	622.5	644.2	653.3	644.2	622.5	600.0	582.2	614.3	658.3
162.5°	593.4	608.4	624.9	641.7	649.9	641.7	624.9	608.4	593.4	620.0	655.8
165°	602.5	614.3	625.9	639.9	646.7	639.9	625.9	614.3	602.5	624.3	653.3
167.5°	610.4	621.8	626.8	634.2	641.7	634.2	626.8	621.8	610.4	628.3	649.9
170°	617.6	624.3	627.4	630.8	636.7	630.8	627.4	624.3	617.6	629.3	644.2
172.5°	622.9	626.8	626.8	628.3	632.4	628.3	626.8	626.8	622.9	631.7	640.8
175°	626.8	629.3	628.3	624.9	628.3	624.9	628.3	629.3	626.8	632.4	634.9
177.5°	628.7	630.8	626.8	623.4	625.9	623.4	626.8	630.8	628.7	633.3	631.7
180°	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8



TEST NUMBER: 18224
 CATALOG NUMBER: VW-SB-1T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	459.4	459.4	459.4	459.4	459.4	459.4
2.5°	458.1	454.7	458.1	458.1	462.2	460.6
5°	460.6	457.2	460.6	459.0	459.0	458.6
7.5°	464.0	459.7	464.0	459.0	456.5	453.1
10°	467.2	466.5	467.2	459.7	450.6	446.6
12.5°	472.2	474.0	472.2	459.0	445.0	438.6
15°	479.0	482.2	479.0	459.0	437.5	429.6
17.5°	488.0	495.5	488.0	458.1	430.7	419.6
20°	502.1	513.9	502.1	456.5	422.5	408.3
22.5°	524.5	544.5	524.5	459.0	414.2	395.5
25°	566.0	598.4	566.0	463.1	404.2	381.4
27.5°	628.3	664.8	628.3	470.6	395.8	368.1
30°	633.3	659.9	633.3	487.1	385.8	352.4
32.5°	596.8	624.3	596.8	509.6	375.8	337.0
35°	546.1	561.9	546.1	534.5	366.1	319.9
37.5°	463.1	479.0	463.1	527.9	356.8	302.0
40°	375.2	375.2	375.2	486.5	348.6	283.4
42.5°	292.2	306.3	292.2	430.7	339.4	262.6
45°	234.9	243.9	234.9	359.3	326.2	241.4
47.5°	179.1	188.4	179.1	284.7	309.4	219.0
50°	131.1	141.0	131.1	210.8	280.4	195.4
52.5°	103.6	109.5	103.6	164.1	243.9	171.7
55°	82.1	89.6	82.1	126.1	185.0	145.1
57.5°	72.8	82.1	72.8	96.2	136.9	114.8
60°	69.6	81.2	69.6	76.2	86.2	84.1
62.5°	60.6	72.1	60.6	59.7	53.1	55.5
65°	51.3	64.6	51.3	48.1	35.6	38.5
67.5°	39.7	47.2	39.7	36.3	25.7	26.5
70°	30.6	36.3	30.6	23.2	19.8	20.6
72.5°	20.7	28.2	20.7	18.9	14.8	15.1
75°	17.3	20.7	17.3	16.4	12.3	11.5
77.5°	12.3	17.3	12.3	12.3	11.4	9.0
80°	9.8	13.2	9.8	9.8	8.2	7.8
82.5°	7.3	8.9	7.3	8.2	6.4	4.8
85°	5.7	7.3	5.7	6.4	3.9	3.9
87.5°	3.2	3.2	3.2	3.2	0.7	1.1
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	9.8	29.7	9.8	49.7	18.9	8.1
95°	97.1	134.5	97.1	160.1	105.2	19.8
97.5°	219.9	268.9	219.9	279.7	165.1	34.3
100°	351.1	394.2	351.1	368.6	188.4	51.7
102.5°	408.3	515.5	408.3	395.1	198.4	71.2
105°	531.1	581.0	531.1	415.1	239.9	94.6
107.5°	552.9	600.9	552.9	430.7	274.8	119.4
110°	566.9	614.3	566.9	445.0	296.3	143.5



TEST NUMBER: 18224
 CATALOG NUMBER: VW-SB-1T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	578.5	625.9	578.5	461.5	310.3	169.2
115°	586.9	634.2	586.9	488.0	324.4	195.8
117.5°	598.4	642.4	598.4	512.1	344.3	222.4
120°	610.0	650.8	610.0	533.6	364.3	249.4
122.5°	629.3	664.8	629.3	547.0	385.8	276.3
125°	637.4	680.7	637.4	556.9	395.1	302.9
127.5°	663.3	696.3	663.3	565.3	425.0	327.8
130°	674.8	709.7	674.8	576.9	447.2	353.2
132.5°	679.8	713.8	679.8	590.3	468.1	375.2
135°	683.2	715.6	683.2	600.0	487.1	402.1
137.5°	684.8	717.2	684.8	610.9	504.6	424.9
140°	690.7	719.7	690.7	621.8	522.0	446.6
142.5°	694.8	722.2	694.8	630.8	537.9	466.9
145°	696.3	723.1	696.3	639.2	552.9	487.1
147.5°	697.3	720.6	697.3	644.9	557.9	506.7
150°	698.8	718.1	698.8	649.9	577.8	524.2
152.5°	697.3	716.3	697.3	654.9	588.5	539.5
155°	695.7	713.1	695.7	657.4	597.7	555.2
157.5°	693.9	707.2	693.9	657.4	608.4	568.6
160°	690.7	703.1	690.7	658.3	614.3	582.2
162.5°	684.8	695.7	684.8	655.8	620.0	593.4
165°	677.3	685.7	677.3	653.3	624.3	602.5
167.5°	669.8	676.4	669.8	649.9	628.3	610.4
170°	664.2	664.2	664.2	644.2	629.3	617.6
172.5°	650.8	654.2	650.8	640.8	631.7	622.9
175°	642.4	641.7	642.4	634.9	632.4	626.8
177.5°	633.3	633.3	633.3	631.7	633.3	628.7
180°	628.8	628.8	628.8	628.8	628.8	628.8

(END OF REPORT)