

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: 18221

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 18221
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: VW-SB-1T8
Description: - DIRECT/INDIRECT LUMINAIRE - VERTECHS WALL - WHITE INTERIOR WITH
SPECULAR REFLECTOR AND SEMI-SPECULAR 19 CELL LOUVER
Light Source: ONE PHILIPS 32 WATT T8 LAMP

F32T8/TL841. LUMEN RATING = 3000 LMS.

Ballast/Driver: -

Summary

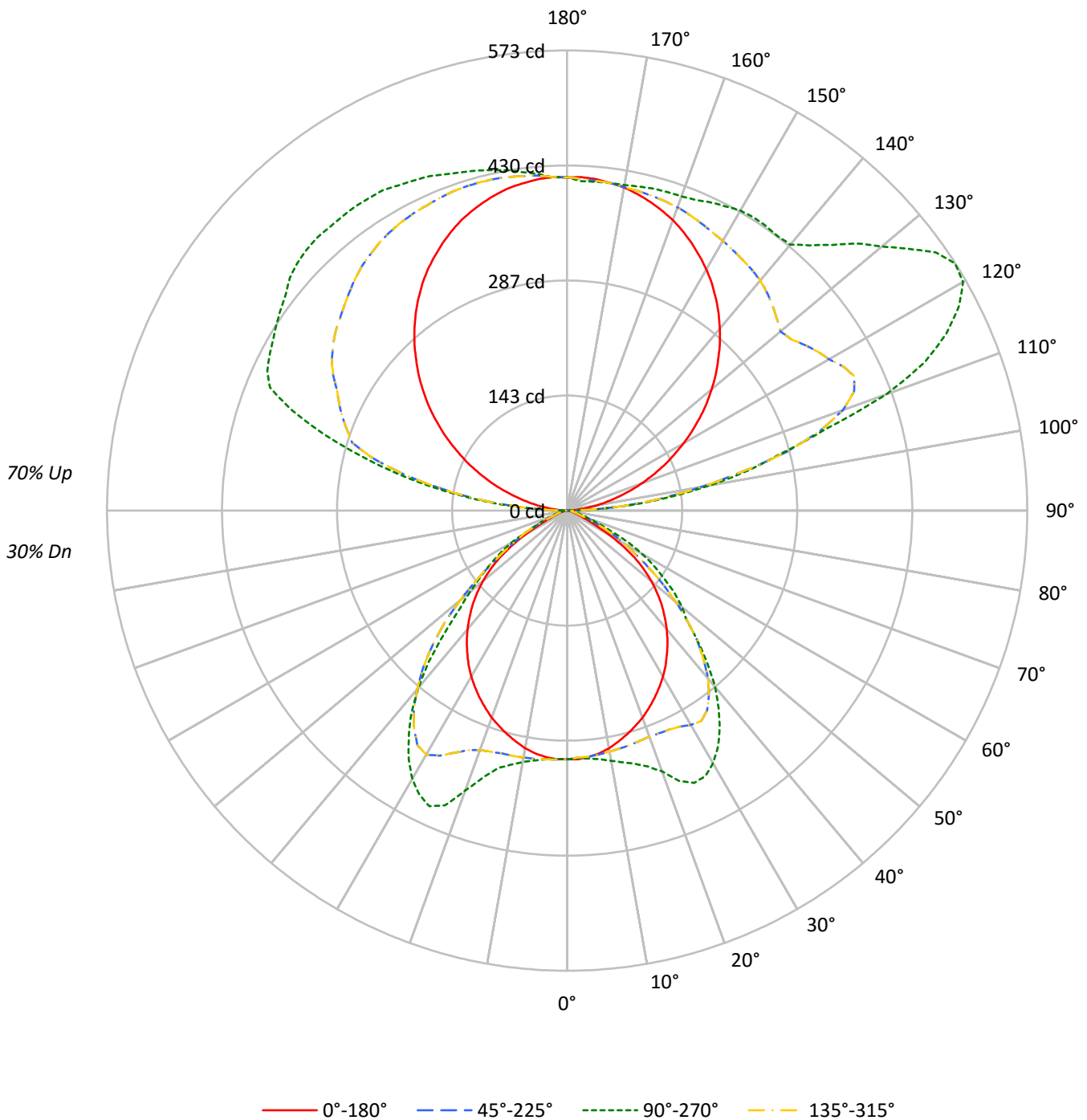
Lumens per Lamp: 3000 (1 lamp)
Luminaire Lumens: 2595.9 lumens
Efficiency: 86.5%
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.54 / 1.43
Luminous Opening: Rectangular (W 0.23' x L: 3.58' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 31
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: 18221
CATALOG NUMBER: VW-SB-1T8

Luminous Intensity Polar Plot





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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	63	63	63	47	47	47	33	33	33	26
1	81	78	75	72	73	70	68	65	55	54	52	42	41	40	30	29	29	23
2	74	68	64	60	67	62	58	54	49	46	44	37	36	34	27	26	25	20
3	68	60	55	50	61	55	50	46	44	40	37	33	31	29	24	23	22	17
4	62	54	47	42	56	49	43	39	39	35	32	30	27	25	22	20	19	15
5	57	48	41	36	51	43	38	33	35	31	28	27	24	22	20	18	17	13
6	53	43	36	32	47	39	33	29	31	27	24	24	21	19	18	16	15	12
7	49	39	32	28	44	35	29	25	28	24	21	22	19	17	16	14	13	11
8	45	35	29	24	40	32	26	22	26	22	19	20	17	15	15	13	12	9
9	42	32	26	21	38	29	24	20	24	20	17	18	16	14	14	12	10	9
10	39	29	23	19	35	27	21	18	22	18	15	17	14	12	13	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4050	4050	4050	4050
5°	4040	4067	4040	4078
10°	3990	4199	3990	4219
15°	3903	4416	3903	4490
20°	3819	4806	3819	5160
25°	3714	5396	3714	5859
30°	3600	5484	3600	5822
35°	3460	5285	3460	5487
40°	3290	4886	3290	4916
45°	3080	4248	3080	3982
50°	2786	3795	2786	3213
55°	2345	3348	2345	2651
60°	1584	2805	1584	2094
65°	854	1831	854	1206
70°	512	1112	512	833
75°	374	854	374	647
80°	316	745	316	550
85°	210	600	210	345



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	29.5	1.1	1.0
10°-20°	87.9	3.4	2.9
20°-30°	147.3	5.7	4.9
30°-40°	182.0	7.0	6.1
40°-50°	165.7	6.4	5.5
50°-60°	110.2	4.2	3.7
60°-70°	43.4	1.7	1.4
70°-80°	12.5	0.5	0.4
80°-90°	3.2	0.1	0.1
90°-100°	73.4	2.8	2.4
100°-110°	230.9	8.9	7.7
110°-120°	320.1	12.3	10.7
120°-130°	316.1	12.2	10.5
130°-140°	285.0	11.0	9.5
140°-150°	244.5	9.4	8.1
150°-160°	187.3	7.2	6.2
160°-170°	117.2	4.5	3.9
170°-180°	39.7	1.5	1.3
0°-30°	264.7	10.2	8.8
0°-40°	446.7	17.2	14.9
0°-60°	722.6	27.8	24.1
0°-90°	781.6	30.1	26.1
90°-120°	624.4	24.1	20.8
90°-150°	1470.0	56.6	49.0
90°-180°	1814.0	69.9	60.5
0°-180°	2595.9	100.0	86.5

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	310	310	310	310	310	
5°	308	310	308	311	308	29
15°	288	326	288	332	288	81
25°	258	374	258	406	258	118
35°	217	331	217	344	217	135
45°	167	230	167	215	167	128
55°	103	147	103	116	103	90
65°	28	59	28	39	28	31
75°	7	17	7	13	7	8
85°	1	4	1	2	1	2
90°	0	0	0	0	0	1
95°	13	78	13	76	13	16
105°	65	277	65	269	65	70
115°	133	521	133	412	133	131
125°	202	560	202	436	202	180
135°	266	468	266	459	266	205
145°	323	432	323	462	323	202
155°	367	423	367	453	367	169
165°	398	415	398	438	398	112
175°	414	411	414	421	414	39
180°	415	415	415	415	415	



TEST NUMBER: 18221
 CATALOG NUMBER: VW-SB-1T8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8
2.5°	309.9	310.8	307.9	307.9	308.8	307.9	307.9	310.8	309.9	311.4	310.3
5°	307.9	309.1	307.6	307.6	309.9	307.6	307.6	309.1	307.9	309.9	310.8
7.5°	305.0	306.8	306.1	308.2	312.3	308.2	306.1	306.8	305.0	307.9	311.7
10°	300.6	302.4	304.7	309.9	316.3	309.9	304.7	302.4	300.6	305.3	312.3
12.5°	294.5	298.2	303.3	312.0	321.0	312.0	303.3	298.2	294.5	301.5	312.9
15°	288.4	292.8	302.4	316.1	326.3	316.1	302.4	292.8	288.4	296.8	313.1
17.5°	281.4	288.4	300.6	318.4	334.2	318.4	300.6	288.4	281.4	292.1	314.9
20°	274.5	281.4	299.4	324.2	345.5	324.2	299.4	281.4	274.5	287.2	317.2
22.5°	265.9	275.6	300.0	332.4	364.2	332.4	300.0	275.6	265.9	282.2	322.8
25°	257.5	269.1	300.9	346.4	374.1	346.4	300.9	269.1	257.5	277.0	332.7
27.5°	248.2	262.4	303.3	356.9	372.6	356.9	303.3	262.4	248.2	271.2	344.0
30°	238.5	256.0	308.2	354.0	363.3	354.0	308.2	256.0	238.5	267.4	350.8
32.5°	228.3	248.7	310.8	344.3	349.3	344.3	310.8	248.7	228.3	263.0	346.6
35°	216.8	241.7	303.8	331.5	331.2	331.5	303.8	241.7	216.8	258.9	332.1
37.5°	205.2	233.3	290.1	311.4	309.6	311.4	290.1	233.3	205.2	255.4	313.7
40°	192.8	226.5	272.9	291.9	286.3	291.9	272.9	226.5	192.8	249.8	290.4
42.5°	179.7	217.8	251.4	266.5	258.9	266.5	251.4	217.8	179.7	241.4	265.3
45°	166.6	209.6	229.1	239.7	229.8	239.7	229.1	209.6	166.6	228.9	237.0
47.5°	152.3	199.1	203.0	211.9	201.4	211.9	203.0	199.1	152.3	209.3	207.0
50°	137.0	186.3	176.1	183.0	186.6	183.0	176.1	186.3	137.0	183.0	173.5
52.5°	120.8	169.7	149.5	163.5	168.2	163.5	149.5	169.7	120.8	157.4	141.4
55°	102.9	146.7	123.3	146.3	146.9	146.3	123.3	146.7	102.9	121.3	112.5
57.5°	82.8	122.5	100.9	129.7	128.0	129.7	100.9	122.5	82.8	92.7	89.5
60°	60.6	88.9	82.2	108.5	107.3	108.5	82.2	88.9	60.6	59.4	70.8
62.5°	40.9	62.0	64.1	88.3	86.2	88.3	64.1	62.0	40.9	37.6	53.9
65°	27.6	37.0	46.6	71.1	59.2	71.1	46.6	37.0	27.6	24.7	38.7
67.5°	18.8	25.0	31.2	48.9	41.7	48.9	31.2	25.0	18.8	18.0	25.6
70°	13.4	18.0	20.4	34.3	29.1	34.3	20.4	18.0	13.4	13.6	16.6
72.5°	10.2	13.6	15.1	24.1	21.0	24.1	15.1	13.6	10.2	10.1	13.1
75°	7.4	10.5	11.3	17.5	16.9	17.5	11.3	10.5	7.4	8.1	10.1
77.5°	5.8	8.1	8.4	12.8	12.5	12.8	8.4	8.1	5.8	6.4	7.8
80°	4.2	6.4	6.9	9.6	9.9	9.6	6.9	6.4	4.2	4.3	5.8
82.5°	3.0	4.3	4.6	6.9	4.6	6.9	4.6	4.3	3.0	2.6	3.8
85°	1.4	3.1	3.1	5.2	4.0	5.2	3.1	3.1	1.4	1.1	2.6
87.5°	0.5	1.1	1.4	3.4	3.8	3.4	1.4	1.1	0.5	0.5	1.7
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°	4.9	41.1	32.0	57.7	32.0	57.7	32.0	41.1	4.9	5.8	29.7
95°	13.4	78.4	74.3	103.8	78.4	103.8	74.3	78.4	13.4	39.4	70.2
97.5°	24.0	127.7	120.4	154.5	128.0	154.5	120.4	127.7	24.0	77.5	116.9
100°	37.6	172.0	169.4	230.9	180.2	230.9	169.4	172.0	37.6	115.5	161.2
102.5°	51.0	178.7	222.8	256.0	230.9	256.0	222.8	178.7	51.0	129.2	207.6
105°	65.4	182.2	283.4	321.0	277.0	321.0	283.4	182.2	65.4	153.9	249.3
107.5°	81.9	184.6	330.1	396.2	337.3	396.2	330.1	184.6	81.9	169.7	280.5
110°	98.4	187.2	365.0	451.1	422.2	451.1	365.0	187.2	98.4	183.7	291.2



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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°	115.5	192.4	386.6	484.1	481.4	484.1	386.6	192.4	115.5	197.4	302.6
115°	132.8	204.9	394.8	511.4	520.8	511.4	394.8	204.9	132.8	208.8	313.1
117.5°	149.7	219.0	388.1	524.6	550.0	524.6	388.1	219.0	149.7	220.4	322.8
120°	167.2	231.8	376.7	523.7	569.2	523.7	376.7	231.8	167.2	233.0	336.2
122.5°	184.6	249.3	369.1	497.2	572.7	497.2	369.1	249.3	184.6	246.7	347.5
125°	201.6	254.9	360.1	487.8	560.4	487.8	360.1	254.9	201.6	252.5	356.0
127.5°	218.7	266.5	350.8	470.6	535.3	470.6	350.8	266.5	218.7	270.9	363.9
130°	234.9	278.2	347.0	452.9	511.4	452.9	347.0	278.2	234.9	285.7	370.0
132.5°	250.9	290.1	354.0	434.1	492.2	434.1	354.0	290.1	250.9	297.1	376.7
135°	265.9	301.7	361.5	417.8	468.0	417.8	361.5	301.7	265.9	309.6	383.7
137.5°	281.4	313.7	368.2	413.2	447.8	413.2	368.2	313.7	281.4	321.0	391.0
140°	295.8	325.1	374.1	416.4	432.4	416.4	374.1	325.1	295.8	332.4	397.4
142.5°	309.7	335.9	377.9	418.7	430.6	418.7	377.9	335.9	309.7	342.6	402.4
145°	322.8	350.8	381.1	420.1	432.2	420.1	381.1	350.8	322.8	353.1	407.3
147.5°	335.3	355.4	384.3	419.6	432.7	419.6	384.3	355.4	335.3	357.5	411.1
150°	346.8	363.9	387.8	417.8	431.3	417.8	387.8	363.9	346.8	370.6	414.1
152.5°	357.2	372.4	390.8	415.5	427.1	415.5	390.8	372.4	357.2	380.2	416.4
155°	367.2	379.9	394.8	413.8	423.4	413.8	394.8	379.9	367.2	387.5	418.1
157.5°	376.4	386.9	398.6	412.6	418.5	412.6	398.6	386.9	376.4	394.5	419.9
160°	384.9	393.3	401.8	412.9	416.4	412.9	401.8	393.3	384.9	400.1	421.9
162.5°	391.9	398.9	404.1	413.2	415.8	413.2	404.1	398.9	391.9	405.3	422.8
165°	398.2	403.8	405.9	412.3	415.0	412.3	405.9	403.8	398.2	409.4	422.8
167.5°	403.8	409.9	407.6	411.1	413.2	411.1	407.6	409.9	403.8	413.2	422.8
170°	408.5	411.5	409.1	410.6	411.5	410.6	409.1	411.5	408.5	414.6	421.9
172.5°	411.4	413.8	411.5	410.6	411.5	410.6	411.5	413.8	411.4	417.6	419.9
175°	414.2	415.8	412.0	410.6	410.8	410.6	412.0	415.8	414.2	418.1	418.7
177.5°	415.6	417.6	413.4	411.1	410.6	411.1	413.4	417.6	415.6	418.1	415.8
180°	414.8	414.8	414.8	414.8	414.8	414.8	414.8	414.8	414.8	414.8	414.8



TEST NUMBER: 18221
 CATALOG NUMBER: VW-SB-1T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	309.8	309.8	309.8	309.8	309.8	309.8
2.5°	310.3	309.4	310.3	310.3	311.4	309.9
5°	312.9	310.8	312.9	310.8	309.9	307.9
7.5°	315.4	314.0	315.4	311.7	307.9	305.0
10°	319.3	317.8	319.3	312.3	305.3	300.6
12.5°	324.5	324.2	324.5	312.9	301.5	294.5
15°	332.7	331.8	332.7	313.1	296.8	288.4
17.5°	345.8	348.4	345.8	314.9	292.1	281.4
20°	367.1	370.9	367.1	317.2	287.2	274.5
22.5°	388.1	397.1	388.1	322.8	282.2	265.9
25°	392.7	406.2	392.7	332.7	277.0	257.5
27.5°	381.7	398.6	381.7	344.0	271.2	248.2
30°	367.7	385.7	367.7	350.8	267.4	238.5
32.5°	344.9	367.1	344.9	346.6	263.0	228.3
35°	324.2	343.8	324.2	332.1	258.9	216.8
37.5°	295.1	318.9	295.1	313.7	255.4	205.2
40°	265.9	288.1	265.9	290.4	249.8	192.8
42.5°	231.2	254.5	231.2	265.3	241.4	179.7
45°	195.3	215.4	195.3	237.0	228.9	166.6
47.5°	159.7	181.6	159.7	207.0	209.3	152.3
50°	137.9	158.0	137.9	173.5	183.0	137.0
52.5°	117.8	136.4	117.8	141.4	157.4	120.8
55°	98.3	116.3	98.3	112.5	121.3	102.9
57.5°	81.3	98.8	81.3	89.5	92.7	82.8
60°	64.7	80.1	64.7	70.8	59.4	60.6
62.5°	44.8	54.5	44.8	53.9	37.6	40.9
65°	32.3	39.0	32.3	38.7	24.7	27.6
67.5°	24.1	30.0	24.1	25.6	18.0	18.8
70°	17.8	21.8	17.8	16.6	13.6	13.4
72.5°	13.1	16.6	13.1	13.1	10.1	10.2
75°	9.6	12.8	9.6	10.1	8.1	7.4
77.5°	6.6	8.7	6.6	7.8	6.4	5.8
80°	5.2	7.3	5.2	5.8	4.3	4.2
82.5°	3.1	4.3	3.1	3.8	2.6	3.0
85°	2.3	2.3	2.3	2.6	1.1	1.4
87.5°	1.1	1.4	1.1	1.7	0.5	0.5
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	5.8	33.2	5.8	29.7	5.8	4.9
95°	47.8	75.5	47.8	70.2	39.4	13.4
97.5°	93.2	122.7	93.2	116.9	77.5	24.0
100°	142.8	171.7	142.8	161.2	115.5	37.6
102.5°	163.0	220.4	163.0	207.6	129.2	51.0
105°	230.7	269.1	230.7	249.3	153.9	65.4
107.5°	284.3	318.4	284.3	280.5	169.7	81.9
110°	331.0	364.5	331.0	291.2	183.7	98.4



TEST NUMBER: 18221
 CATALOG NUMBER: VW-SB-1T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	370.0	400.6	370.0	302.6	197.4	115.5
115°	380.5	412.0	380.5	313.1	208.8	132.8
117.5°	388.7	417.8	388.7	322.8	220.4	149.7
120°	395.4	423.1	395.4	336.2	233.0	167.2
122.5°	402.9	429.5	402.9	347.5	246.7	184.6
125°	405.6	435.7	405.6	356.0	252.5	201.6
127.5°	416.7	441.8	416.7	363.9	270.9	218.7
130°	427.5	450.8	427.5	370.0	285.7	234.9
132.5°	432.7	456.0	432.7	376.7	297.1	250.9
135°	437.1	459.0	437.1	383.7	309.6	265.9
137.5°	439.4	461.0	439.4	391.0	321.0	281.4
140°	440.9	460.4	440.9	397.4	332.4	295.8
142.5°	442.3	461.0	442.3	402.4	342.6	309.7
145°	444.4	461.6	444.4	407.3	353.1	322.8
147.5°	445.0	460.7	445.0	411.1	357.5	335.3
150°	445.3	460.1	445.3	414.1	370.6	346.8
152.5°	444.1	456.4	444.1	416.4	380.2	357.2
155°	442.3	453.4	442.3	418.1	387.5	367.2
157.5°	440.3	450.5	440.3	419.9	394.5	376.4
160°	438.5	445.5	438.5	421.9	400.1	384.9
162.5°	435.3	441.5	435.3	422.8	405.3	391.9
165°	433.0	438.3	433.0	422.8	409.4	398.2
167.5°	430.4	434.1	430.4	422.8	413.2	403.8
170°	428.9	430.4	428.9	421.9	414.6	408.5
172.5°	423.6	425.1	423.6	419.9	417.6	411.4
175°	419.9	420.8	419.9	418.7	418.1	414.2
177.5°	416.1	415.2	416.1	415.8	418.1	415.6
180°	414.8	414.8	414.8	414.8	414.8	414.8

(END OF REPORT)