

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: 18220

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 18220
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: VW-SH-1T8
Description: - DIRECT/INDIRECT LUMINAIRE - VERTECHS WALL - WHITE INTERIOR WITH
SPECULAR REFLECTOR AND SEMI-SPECULAR 46 CELL LOUVER
Light Source: ONE PHILIPS 32 WATT T8 LAMP

F32T8/TL841. LUMEN RATING = 3000 LMS.

Ballast/Driver: -

Summary

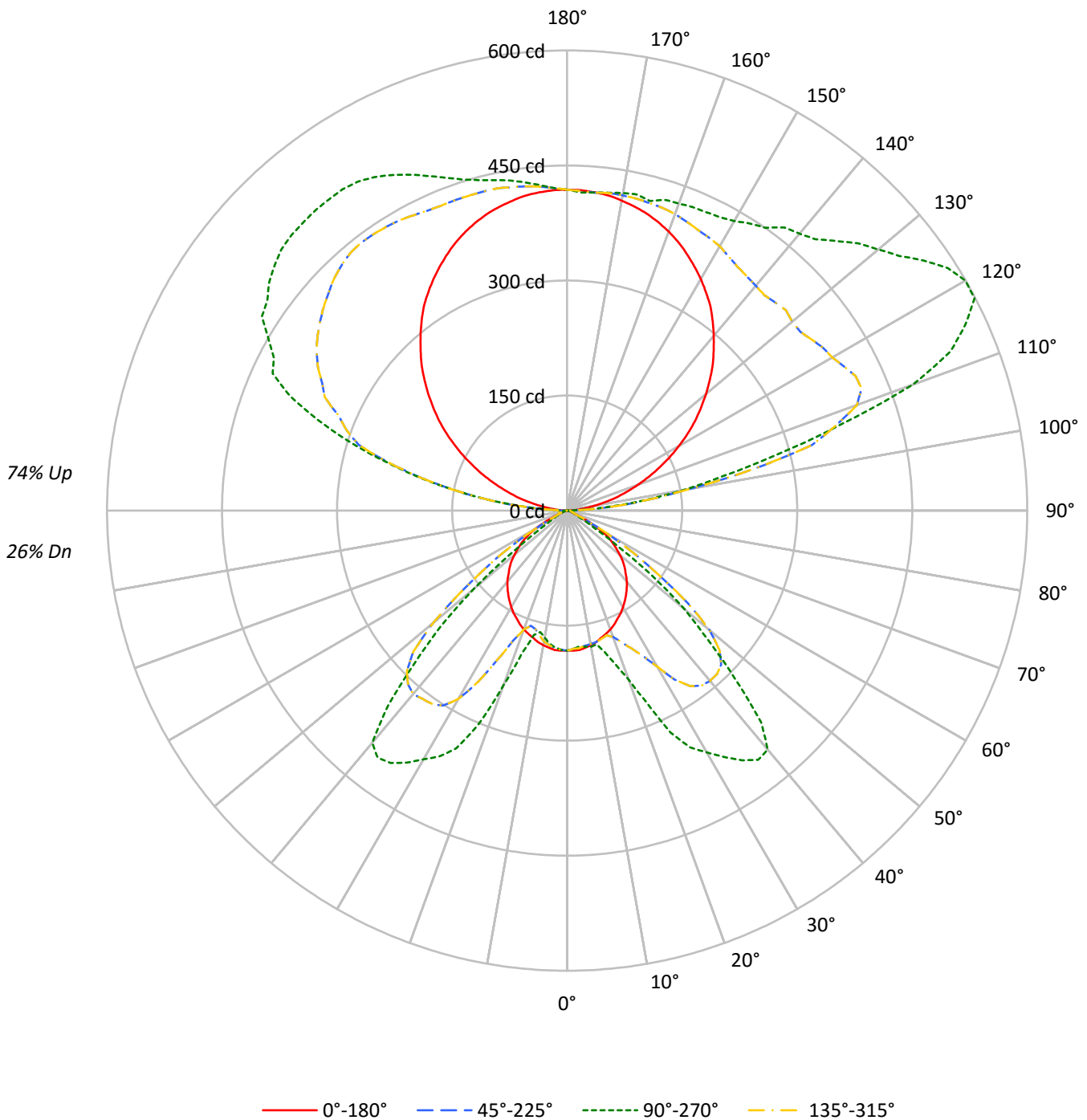
Lumens per Lamp: 3000 (1 lamp)
Luminaire Lumens: 2546.9 lumens
Efficiency: 84.9%
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 2.07 / 1.79
Luminous Opening: Rectangular (W 0.23' x L: 3.58' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 31
Input Voltage (V): NR
Input Current (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: 18220
CATALOG NUMBER: VW-SH-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	86	86	86	86	77	77	77	77	59	59	59	43	43	43	29	29	29	22
1	79	75	72	70	70	67	65	63	52	51	49	39	38	37	26	25	25	19
2	72	66	61	57	64	59	55	52	46	44	41	34	33	31	23	22	22	17
3	66	58	53	48	59	52	48	44	41	38	35	31	28	27	21	20	19	14
4	60	52	45	41	53	46	41	37	36	33	30	27	25	23	19	17	16	12
5	55	46	39	35	49	41	36	32	32	29	26	24	22	20	17	15	14	11
6	51	41	34	30	45	37	31	27	29	25	22	22	19	17	15	13	12	9
7	47	37	30	26	41	33	28	24	26	22	19	20	17	15	14	12	11	8
8	43	33	27	23	38	30	24	21	24	20	17	18	15	13	12	11	9	7
9	40	30	24	20	36	27	22	18	22	18	15	16	14	12	11	10	8	6
10	37	27	21	18	33	25	20	16	20	16	13	15	12	10	10	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2388	2388	2388	2388
5°	2395	2334	2395	2349
10°	2367	2392	2367	2229
15°	2324	2593	2324	2272
20°	2294	3257	2294	3367
25°	2241	4610	2241	4933
30°	2196	5493	2196	5652
35°	2137	6342	2137	6412
40°	2070	6942	2070	6742
45°	1967	5709	1967	5186
50°	1822	4049	1822	3213
55°	1627	1794	1627	1110
60°	1276	677	1276	526
65°	526	396	526	340
70°	264	245	264	279
75°	202	293	202	247
80°	151	346	151	286
85°	105	465	105	300



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	17.0	0.7	0.6
10°-20°	49.9	2.0	1.7
20°-30°	104.0	4.1	3.5
30°-40°	168.6	6.6	5.6
40°-50°	183.6	7.2	6.1
50°-60°	100.5	3.9	3.4
60°-70°	22.0	0.9	0.7
70°-80°	6.2	0.2	0.2
80°-90°	2.1	0.1	0.1
90°-100°	61.6	2.4	2.1
100°-110°	237.4	9.3	7.9
110°-120°	340.7	13.4	11.4
120°-130°	338.1	13.3	11.3
130°-140°	305.9	12.0	10.2
140°-150°	256.8	10.1	8.6
150°-160°	193.0	7.6	6.4
160°-170°	119.3	4.7	4.0
170°-180°	40.2	1.6	1.3
0°-30°	170.9	6.7	5.7
0°-40°	339.5	13.3	11.3
0°-60°	623.7	24.5	20.8
0°-90°	653.9	25.7	21.8
90°-120°	639.7	25.1	21.3
90°-150°	1540.5	60.5	51.4
90°-180°	1893.0	74.3	63.1
0°-180°	2546.9	100.0	84.9

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	183	183	183	183	183	
5°	182	178	182	179	182	17
15°	172	192	172	168	172	49
25°	155	320	155	342	155	72
35°	134	397	134	402	134	84
45°	106	309	106	280	106	82
55°	71	79	71	49	71	63
65°	17	13	17	11	17	22
75°	4	6	4	5	4	4
85°	1	3	1	2	1	1
90°	0	0	0	0	0	1
95°	13	51	13	51	13	16
105°	66	285	66	244	66	70
115°	132	573	132	424	132	131
125°	203	568	203	477	203	181
135°	268	497	268	508	268	207
145°	326	450	326	511	326	203
155°	369	429	369	483	369	170
165°	401	418	401	446	401	113
175°	416	416	416	426	416	40
180°	418	418	418	418	418	



TEST NUMBER: 18220
 CATALOG NUMBER: VW-SH-1T8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	182.7	182.7	182.7	182.7	182.7	182.7	182.7	182.7	182.7	182.7	182.7
2.5°	182.8	183.4	180.5	181.3	180.5	181.3	180.5	183.4	182.8	182.8	181.3
5°	182.5	182.2	180.2	179.0	177.9	179.0	180.2	182.2	182.5	181.1	180.2
7.5°	180.6	180.2	177.9	176.7	179.0	176.7	177.9	180.2	180.6	178.7	177.0
10°	178.3	177.2	176.7	177.9	180.2	177.9	176.7	177.2	178.3	175.2	173.5
12.5°	175.6	174.6	175.5	178.7	178.7	178.7	175.5	174.6	175.6	171.4	166.5
15°	171.7	170.2	173.2	177.0	191.6	177.0	173.2	170.2	171.7	166.2	160.0
17.5°	168.4	167.6	170.2	185.4	210.5	185.4	170.2	167.6	168.4	161.5	157.4
20°	164.9	164.4	175.5	204.9	234.1	204.9	175.5	164.4	164.9	154.8	164.7
22.5°	160.6	161.5	185.7	226.5	270.5	226.5	185.7	161.5	160.6	149.3	182.8
25°	155.4	158.6	198.3	256.8	319.6	256.8	198.3	158.6	155.4	145.8	213.7
27.5°	151.0	155.7	213.1	299.4	348.2	299.4	213.1	155.7	151.0	143.4	251.9
30°	145.5	151.0	234.7	326.0	363.9	326.0	234.7	151.0	145.5	145.2	283.4
32.5°	139.8	148.1	261.2	340.3	380.8	340.3	261.2	148.1	139.8	152.2	301.5
35°	133.9	149.5	279.3	350.2	397.4	350.2	279.3	149.5	133.9	162.7	307.6
37.5°	127.6	153.4	287.7	363.6	409.4	363.6	287.7	153.4	127.6	177.2	309.6
40°	121.3	157.4	289.8	370.3	406.8	370.3	289.8	157.4	121.3	190.1	312.3
42.5°	113.1	162.7	289.2	366.8	374.1	366.8	289.2	162.7	113.1	200.3	307.3
45°	106.4	167.6	284.0	343.1	308.8	343.1	284.0	167.6	106.4	204.4	295.4
47.5°	98.8	171.7	269.7	289.5	247.2	289.5	269.7	171.7	98.8	199.4	271.4
50°	89.6	174.4	242.0	226.8	199.1	226.8	242.0	174.4	89.6	185.1	228.0
52.5°	80.7	171.4	197.7	181.3	139.9	181.3	197.7	171.4	80.7	169.4	174.4
55°	71.4	159.2	143.4	130.3	78.7	130.3	143.4	159.2	71.4	139.3	126.5
57.5°	60.9	141.1	100.6	83.9	41.1	83.9	100.6	141.1	60.9	106.9	86.0
60°	48.8	106.1	61.8	41.3	25.9	41.3	61.8	106.1	48.8	65.3	48.9
62.5°	32.9	70.2	33.2	26.2	12.5	26.2	33.2	70.2	32.9	34.7	25.0
65°	17.0	34.7	18.0	16.6	12.8	16.6	18.0	34.7	17.0	17.1	14.8
67.5°	10.3	17.1	11.6	12.8	10.1	12.8	11.6	17.1	10.3	10.8	11.6
70°	6.9	10.8	8.4	10.1	6.4	10.1	8.4	10.8	6.9	7.5	8.7
72.5°	4.8	7.8	8.1	8.1	7.8	8.1	8.1	7.8	4.8	5.8	8.4
75°	4.0	6.1	6.4	6.6	5.8	6.6	6.4	6.1	4.0	4.6	11.6
77.5°	2.6	4.9	3.1	5.8	4.9	5.8	3.1	4.9	2.6	4.0	7.3
80°	2.0	4.0	4.3	5.2	4.6	5.2	4.3	4.0	2.0	2.9	2.9
82.5°	1.4	3.1	3.1	4.0	3.8	4.0	3.1	3.1	1.4	2.0	2.6
85°	0.7	2.3	2.6	3.4	3.1	3.4	2.6	2.3	0.7	0.8	1.7
87.5°	0.5	0.5	1.7	2.9	2.6	2.9	1.7	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°	6.7	35.0	17.8	33.2	11.9	33.2	17.8	35.0	6.7	1.7	16.6
95°	13.1	80.4	58.3	78.1	51.3	78.1	58.3	80.4	13.1	30.8	54.2
97.5°	24.3	142.0	104.6	129.2	100.0	129.2	104.6	142.0	24.3	69.4	98.5
100°	36.1	187.4	160.9	215.8	153.0	215.8	160.9	187.4	36.1	112.8	143.7
102.5°	50.7	193.0	245.8	258.4	208.8	258.4	245.8	193.0	50.7	132.0	191.8
105°	66.3	197.1	330.3	351.9	284.9	351.9	330.3	197.1	66.3	167.9	240.2
107.5°	81.3	201.8	366.5	448.5	376.1	448.5	366.5	201.8	81.3	191.2	284.9
110°	97.9	205.6	401.8	498.3	478.8	498.3	401.8	205.6	97.9	207.3	306.1



TEST NUMBER: 18220
 CATALOG NUMBER: VW-SH-1T8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	115.0	211.9	415.5	531.6	540.6	531.6	415.5	211.9	115.0	221.9	321.9
115°	132.5	223.3	415.0	551.4	572.7	551.4	415.0	223.3	132.5	231.8	348.4
117.5°	150.4	229.8	406.8	552.3	598.9	552.3	406.8	229.8	150.4	247.0	360.1
120°	168.1	238.2	399.2	540.3	599.5	540.3	399.2	238.2	168.1	260.4	375.5
122.5°	186.2	255.4	395.4	514.6	588.4	514.6	395.4	255.4	186.2	274.7	387.3
125°	203.3	260.7	389.0	507.1	568.0	507.1	389.0	260.7	203.3	280.5	397.4
127.5°	219.8	272.6	383.1	495.1	545.6	495.1	383.1	272.6	219.8	296.5	405.9
130°	236.3	285.4	383.1	482.0	529.5	482.0	383.1	285.4	236.3	307.6	414.1
132.5°	252.3	298.2	386.9	466.2	515.5	466.2	386.9	298.2	252.3	317.5	421.6
135°	268.2	309.6	383.7	455.2	496.9	455.2	383.7	309.6	268.2	327.5	429.2
137.5°	282.8	321.0	380.8	451.7	479.7	451.7	380.8	321.0	282.8	335.6	434.8
140°	297.4	332.4	382.6	444.7	471.2	444.7	382.6	332.4	297.4	344.3	439.2
142.5°	311.7	344.0	384.9	433.9	465.3	433.9	384.9	344.0	311.7	352.8	440.6
145°	325.7	359.5	387.8	427.1	450.2	427.1	387.8	359.5	325.7	361.9	440.0
147.5°	337.2	363.9	392.2	425.4	443.8	425.4	392.2	363.9	337.2	366.8	438.8
150°	348.6	372.6	398.0	423.1	435.9	423.1	398.0	372.6	348.6	379.1	437.1
152.5°	359.1	380.5	400.9	422.8	431.3	422.8	400.9	380.5	359.1	387.3	434.1
155°	369.3	387.8	403.8	424.0	429.2	424.0	403.8	387.8	369.3	394.5	431.3
157.5°	378.9	394.5	407.6	422.2	428.3	422.2	407.6	394.5	378.9	401.8	430.1
160°	387.1	400.3	411.5	421.6	426.0	421.6	411.5	400.3	387.1	406.4	430.4
162.5°	394.5	405.0	413.8	422.5	424.8	422.5	413.8	405.0	394.5	412.0	430.1
165°	400.9	409.4	415.0	421.6	417.8	421.6	415.0	409.4	400.9	415.8	430.1
167.5°	406.0	414.1	416.7	419.6	422.2	419.6	416.7	414.1	406.0	419.0	430.1
170°	410.4	415.5	417.3	418.7	420.4	418.7	417.3	415.5	410.4	419.9	428.0
172.5°	414.4	416.9	417.6	416.9	418.1	416.9	417.6	416.9	414.4	422.2	426.3
175°	416.5	419.6	416.1	414.6	416.4	414.6	416.1	419.6	416.5	423.4	424.0
177.5°	418.1	421.0	416.9	414.6	415.0	414.6	416.9	421.0	418.1	422.8	421.0
180°	418.5	418.5	418.5	418.5	418.5	418.5	418.5	418.5	418.5	418.5	418.5



TEST NUMBER: 18220
 CATALOG NUMBER: VW-SH-1T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	182.7	182.7	182.7	182.7	182.7	182.7
2.5°	180.7	181.9	180.7	181.3	182.8	182.8
5°	177.0	179.0	177.0	180.2	181.1	182.5
7.5°	172.3	175.2	172.3	177.0	178.7	180.6
10°	156.5	167.9	156.5	173.5	175.2	178.3
12.5°	165.3	162.3	165.3	166.5	171.4	175.6
15°	171.4	167.9	171.4	160.0	166.2	171.7
17.5°	199.4	193.9	199.4	157.4	161.5	168.4
20°	247.9	242.0	247.9	164.7	154.8	164.9
22.5°	298.9	301.5	298.9	182.8	149.3	160.6
25°	335.0	342.0	335.0	213.7	145.8	155.4
27.5°	349.9	361.3	349.9	251.9	143.4	151.0
30°	358.9	374.4	358.9	283.4	145.2	145.5
32.5°	371.2	389.6	371.2	301.5	152.2	139.8
35°	377.9	401.8	377.9	307.6	162.7	133.9
37.5°	377.0	405.9	377.0	309.6	177.2	127.6
40°	362.7	395.1	362.7	312.3	190.1	121.3
42.5°	315.4	346.4	315.4	307.3	200.3	113.1
45°	253.3	280.5	253.3	295.4	204.4	106.4
47.5°	197.1	223.9	197.1	271.4	199.4	98.8
50°	134.4	158.0	134.4	228.0	185.1	89.6
52.5°	81.9	92.1	81.9	174.4	169.4	80.7
55°	42.9	48.7	42.9	126.5	139.3	71.4
57.5°	26.2	29.1	26.2	86.0	106.9	60.9
60°	18.0	20.1	18.0	48.9	65.3	48.8
62.5°	13.1	14.0	13.1	25.0	34.7	32.9
65°	9.6	11.0	9.6	14.8	17.1	17.0
67.5°	8.1	8.4	8.1	11.6	10.8	10.3
70°	6.4	7.3	6.4	8.7	7.5	6.9
72.5°	5.8	5.5	5.8	8.4	5.8	4.8
75°	4.0	4.9	4.0	11.6	4.6	4.0
77.5°	3.8	3.4	3.8	7.3	4.0	2.6
80°	2.9	3.8	2.9	2.9	2.9	2.0
82.5°	2.0	0.5	2.0	2.6	2.0	1.4
85°	1.7	2.0	1.7	1.7	0.8	0.7
87.5°	0.8	0.5	0.8	0.5	0.5	0.5
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	2.0	14.0	2.0	16.6	1.7	6.7
95°	25.0	51.0	25.0	54.2	30.8	13.1
97.5°	67.6	97.4	67.6	98.5	69.4	24.3
100°	115.7	143.4	115.7	143.7	112.8	36.1
102.5°	137.6	193.9	137.6	191.8	132.0	50.7
105°	211.1	244.0	211.1	240.2	167.9	66.3
107.5°	267.4	297.1	267.4	284.9	191.2	81.3
110°	314.9	345.8	314.9	306.1	207.3	97.9



TEST NUMBER: 18220
 CATALOG NUMBER: VW-SH-1T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	362.2	391.9	362.2	321.9	221.9	115.0
115°	394.8	423.6	394.8	348.4	231.8	132.5
117.5°	403.3	431.0	403.3	360.1	247.0	150.4
120°	425.7	449.9	425.7	375.5	260.4	168.1
122.5°	445.5	471.8	445.5	387.3	274.7	186.2
125°	448.7	477.3	448.7	397.4	280.5	203.3
127.5°	463.4	489.6	463.4	405.9	296.5	219.8
130°	474.4	497.8	474.4	414.1	307.6	236.3
132.5°	482.0	505.0	482.0	421.6	317.5	252.3
135°	485.5	508.3	485.5	429.2	327.5	268.2
137.5°	488.1	509.4	488.1	434.8	335.6	282.8
140°	490.7	510.9	490.7	439.2	344.3	297.4
142.5°	493.4	511.1	493.4	440.6	352.8	311.7
145°	494.2	511.1	494.2	440.0	361.9	325.7
147.5°	493.9	508.5	493.9	438.8	366.8	337.2
150°	486.9	502.1	486.9	437.1	379.1	348.6
152.5°	479.7	493.4	479.7	434.1	387.3	359.1
155°	471.8	483.2	471.8	431.3	394.5	369.3
157.5°	462.5	472.1	462.5	430.1	401.8	378.9
160°	453.7	461.8	453.7	430.4	406.4	387.1
162.5°	446.1	452.5	446.1	430.1	412.0	394.5
165°	441.5	446.1	441.5	430.1	415.8	400.9
167.5°	437.4	441.1	437.4	430.1	419.0	406.0
170°	435.7	437.1	435.7	428.0	419.9	410.4
172.5°	430.6	431.8	430.6	426.3	422.2	414.4
175°	426.0	426.3	426.0	424.0	423.4	416.5
177.5°	421.3	421.0	421.3	421.0	422.8	418.1
180°	418.5	418.5	418.5	418.5	418.5	418.5

(END OF REPORT)