

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: 17911

Luminaire Tested: **E2W-WB-1T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 17911
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2W-WB-1T8
Description: DIRECT/INDIRECT WALL LUMINAIRE - ELEMENT WALL
WITH WHITE INTERIOR AND 19 CELL SEMI-SPECULAR LOUVER BLADE

Light Source: ONE PHILIPS 32 WATT T8 LAMP
F32T8/TL841. LUMEN RATING = 3000 LMS.

Ballast/Driver: -

Summary

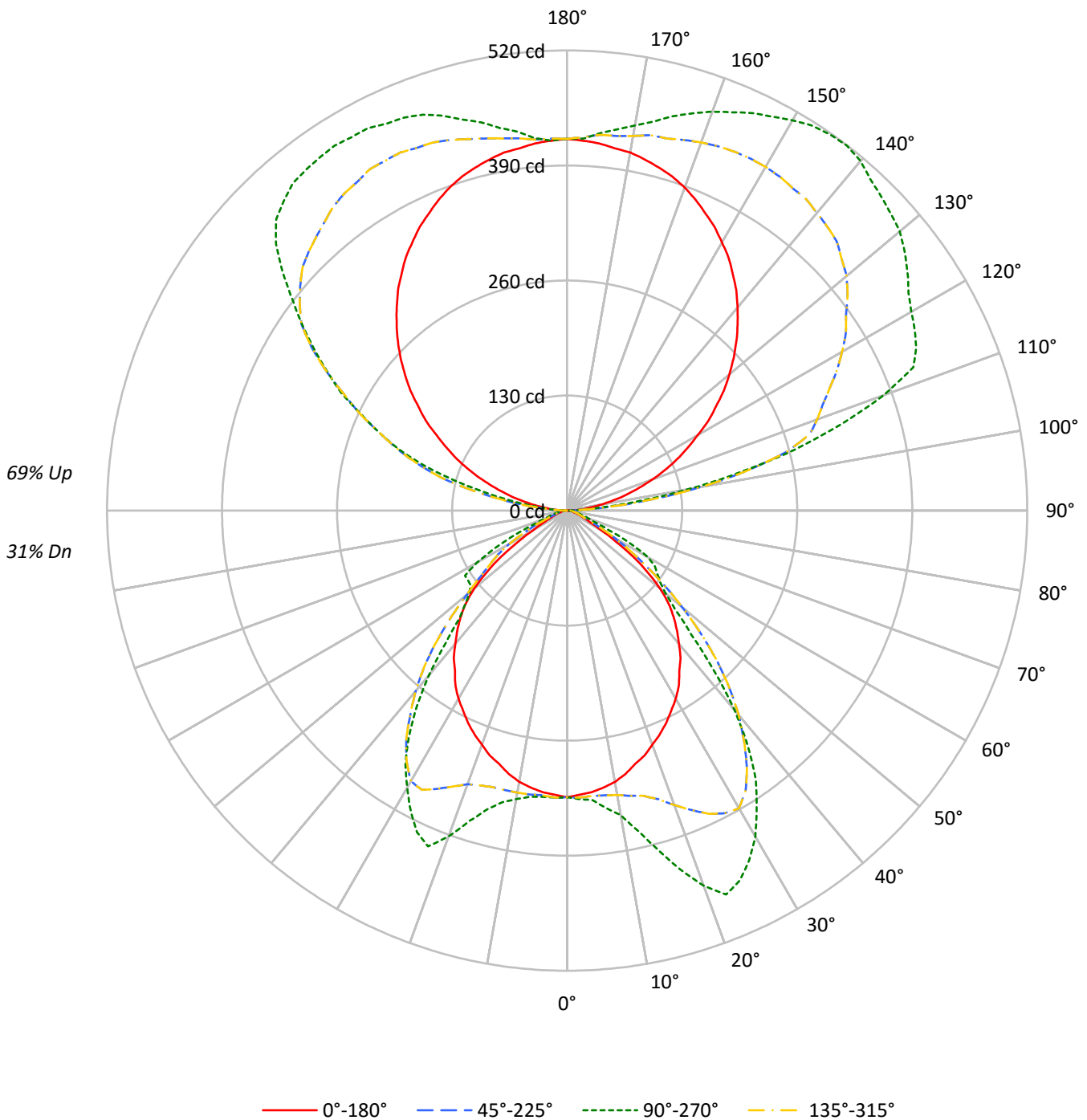
Lumens per Lamp: 3000 (1 lamp)
Luminaire Lumens: 2549.4 lumens
Efficiency: 85.0%
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.5 / 1.39
Luminous Opening: Rectangular (W 0.22' x L: 3.59' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 32
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: 17911
CATALOG NUMBER: E2W-WB-1T8

Luminous Intensity Polar Plot





TEST NUMBER: 17911
 CATALOG NUMBER: E2W-WB-1T8

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10	50	30	10	0														
RCR																																						
0	87	87	87	87	78	78	78	78	62	62	62	47	47	47	33	33	33	27						27														
1	80	77	74	71	72	69	67	64	55	53	52	42	41	40	30	30	29						24															
2	73	68	63	59	66	61	57	54	49	46	44	38	36	34	27	26	25						21															
3	67	60	54	50	60	54	49	45	43	40	37	34	31	29	24	23	22						18															
4	62	53	47	42	55	48	43	39	39	35	32	30	28	26	22	21	19						16															
5	57	47	41	36	51	43	37	33	35	31	28	27	24	22	20	18	17						14															
6	52	42	36	31	47	39	33	29	31	27	24	25	22	20	18	16	15						12															
7	48	38	32	28	43	35	29	25	28	24	21	22	20	17	17	15	13						11															
8	45	35	29	24	40	32	26	22	26	22	19	20	18	16	15	13	12						10															
9	41	32	26	22	37	29	24	20	24	20	17	19	16	14	14	12	11						9															
10	39	29	23	19	35	26	21	18	22	18	15	17	15	13	13	11	10						8															

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4416	4416	4416	4416
5°	4370	4493	4370	4441
10°	4307	4837	4307	4582
15°	4182	5597	4182	4931
20°	4084	6544	4084	5684
25°	3983	6937	3983	6033
30°	3863	6691	3863	5687
35°	3677	6184	3677	5186
40°	3498	5232	3498	4330
45°	3280	3835	3280	3315
50°	2907	3064	2907	3043
55°	2169	2949	2169	3253
60°	1229	2881	1229	3203
65°	738	1674	738	2067
70°	578	1004	578	1116
75°	453	795	453	837
80°	494	808	494	675
85°	625	1063	625	907



TEST NUMBER: 17911
 CATALOG NUMBER: E2W-WB-1T8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	30.9	1.2	1.0
10°-20°	94.8	3.7	3.2
20°-30°	161.8	6.3	5.4
30°-40°	189.8	7.4	6.3
40°-50°	160.5	6.3	5.3
50°-60°	101.7	4.0	3.4
60°-70°	39.7	1.6	1.3
70°-80°	13.0	0.5	0.4
80°-90°	5.2	0.2	0.2
90°-100°	45.8	1.8	1.5
100°-110°	181.1	7.1	6.0
110°-120°	271.1	10.6	9.0
120°-130°	308.6	12.1	10.3
130°-140°	309.5	12.1	10.3
140°-150°	269.4	10.6	9.0
150°-160°	202.9	8.0	6.8
160°-170°	123.0	4.8	4.1
170°-180°	40.5	1.6	1.4
0°-30°	287.6	11.3	9.6
0°-40°	477.4	18.7	15.9
0°-60°	739.6	29.0	24.7
0°-90°	797.5	31.3	26.6
90°-120°	497.9	19.5	16.6
90°-150°	1385.4	54.3	46.2
90°-180°	1752.0	68.7	58.4
0°-180°	2549.4	100.0	85.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	324	324	324	324	324	
5°	319	328	319	325	319	30
15°	296	397	296	350	296	84
25°	265	461	265	401	265	122
35°	221	372	221	312	221	139
45°	170	199	170	172	170	130
55°	91	124	91	137	91	81
65°	23	52	23	64	23	25
75°	9	15	9	16	9	10
85°	4	7	4	6	4	4
90°	0	0	0	0	0	1
95°	17	35	17	21	17	18
105°	69	266	69	132	69	73
115°	137	435	137	256	137	135
125°	205	470	205	365	205	184
135°	270	502	270	465	270	209
145°	326	518	326	487	326	204
155°	370	496	370	482	370	171
165°	401	461	401	458	401	113
175°	416	428	416	422	416	40
180°	420	420	420	420	420	



TEST NUMBER: 17911
 CATALOG NUMBER: E2W-WB-1T8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0
2.5°	321.4	322.8	324.6	325.6	326.3	325.6	324.6	322.8	321.4	323.6	324.6
5°	319.4	320.8	323.6	326.3	328.4	326.3	323.6	320.8	319.4	321.8	322.8
7.5°	315.7	318.0	324.6	330.1	339.2	330.1	324.6	318.0	315.7	320.0	323.6
10°	311.2	313.5	326.3	339.2	349.5	339.2	326.3	313.5	311.2	317.3	323.6
12.5°	304.8	308.9	330.1	349.5	370.7	349.5	330.1	308.9	304.8	312.5	323.6
15°	296.4	303.4	333.6	369.7	396.7	369.7	333.6	303.4	296.4	306.9	323.6
17.5°	290.4	298.6	342.0	388.4	425.2	388.4	342.0	298.6	290.4	301.4	325.6
20°	281.6	295.1	354.1	416.1	451.2	416.1	354.1	295.1	281.6	296.8	329.1
22.5°	273.6	290.3	366.2	435.3	469.6	435.3	366.2	290.3	273.6	291.3	337.4
25°	264.9	286.7	378.0	447.4	461.3	447.4	378.0	286.7	264.9	286.7	346.8
27.5°	254.7	284.0	385.6	438.1	445.6	438.1	385.6	284.0	254.7	280.2	355.8
30°	245.5	281.2	388.4	419.6	425.2	419.6	388.4	281.2	245.5	276.4	353.1
32.5°	234.9	278.4	375.3	394.7	398.5	394.7	375.3	278.4	234.9	272.9	337.4
35°	221.0	276.4	354.1	372.5	371.7	372.5	354.1	276.4	221.0	268.1	317.3
37.5°	210.5	272.9	328.4	337.4	335.7	337.4	328.4	272.9	210.5	263.5	291.3
40°	196.6	268.1	301.4	306.9	294.1	306.9	301.4	268.1	196.6	256.2	266.3
42.5°	183.6	259.8	270.9	266.3	246.1	266.3	270.9	259.8	183.6	245.1	238.6
45°	170.2	247.9	238.6	221.9	199.0	221.9	238.6	247.9	170.2	227.5	208.1
47.5°	155.5	231.3	203.5	178.5	165.7	178.5	203.5	231.3	155.5	202.5	176.8
50°	137.1	205.3	169.2	148.0	144.5	148.0	169.2	205.3	137.1	174.0	148.0
52.5°	115.2	174.0	137.9	129.6	132.4	129.6	137.9	174.0	115.2	142.5	125.1
55°	91.3	132.4	107.4	113.0	124.1	113.0	107.4	132.4	91.3	101.9	106.4
57.5°	65.4	96.3	84.2	103.6	117.5	103.6	84.2	96.3	65.4	75.1	92.6
60°	45.1	57.5	62.3	89.8	105.7	89.8	62.3	57.5	45.1	47.4	75.1
62.5°	31.1	37.3	42.9	74.1	81.5	74.1	42.9	37.3	31.1	33.5	55.7
65°	22.9	25.2	29.0	50.2	51.9	50.2	29.0	25.2	22.9	23.4	40.1
67.5°	18.3	18.7	20.7	31.8	31.8	31.8	20.7	18.7	18.3	17.9	26.2
70°	14.5	15.1	16.9	21.4	25.2	21.4	16.9	15.1	14.5	14.1	19.7
72.5°	11.7	12.4	14.1	17.9	18.7	17.9	14.1	12.4	11.7	10.3	14.1
75°	8.6	9.6	12.4	13.1	15.1	13.1	12.4	9.6	8.6	9.6	12.4
77.5°	7.7	8.6	9.6	12.4	12.4	12.4	9.6	8.6	7.7	8.6	10.3
80°	6.3	6.8	8.6	9.6	10.3	9.6	8.6	6.8	6.3	6.8	7.6
82.5°	5.3	5.8	5.8	7.6	7.6	7.6	5.8	5.8	5.3	7.6	5.8
85°	4.0	5.8	5.8	6.8	6.8	6.8	5.8	5.8	4.0	4.0	4.0
87.5°	3.0	3.0	4.8	4.8	4.0	4.8	4.8	3.0	3.0	3.0	4.0
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°	6.3	27.0	13.1	20.7	9.6	20.7	13.1	27.0	6.3	7.6	10.3
95°	16.9	68.6	44.6	54.0	35.3	54.0	44.6	68.6	16.9	22.4	25.2
97.5°	26.1	113.0	95.3	110.2	81.5	110.2	95.3	113.0	26.1	53.0	51.2
100°	39.1	143.5	153.6	200.7	139.7	200.7	153.6	143.5	39.1	83.5	80.7
102.5°	53.5	152.8	208.1	231.3	200.7	231.3	208.1	152.8	53.5	95.3	116.8
105°	69.2	171.2	257.0	291.3	266.3	291.3	257.0	171.2	69.2	133.4	150.8
107.5°	84.9	191.4	287.5	344.7	324.6	344.7	287.5	191.4	84.9	157.4	178.5
110°	101.9	207.3	300.6	386.4	380.1	386.4	300.6	207.3	101.9	185.1	204.5



TEST NUMBER: 17911
 CATALOG NUMBER: E2W-WB-1T8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	119.4	223.9	312.5	398.5	423.4	398.5	312.5	223.9	119.4	210.1	229.5
115°	137.1	240.6	327.3	407.8	435.3	407.8	327.3	240.6	137.1	227.5	258.0
117.5°	153.2	256.2	344.0	416.1	442.8	416.1	344.0	256.2	153.2	243.4	284.0
120°	170.2	270.1	358.6	427.0	449.2	427.0	358.6	270.1	170.2	257.0	313.5
122.5°	189.6	289.5	373.5	445.6	457.5	445.6	373.5	289.5	189.6	272.9	342.0
125°	205.3	296.8	384.6	451.9	469.6	451.9	384.6	296.8	205.3	279.2	366.2
127.5°	223.4	308.9	399.5	462.3	480.7	462.3	399.5	308.9	223.4	298.6	380.8
130°	239.2	320.8	412.3	469.6	490.8	469.6	412.3	320.8	239.2	311.7	393.9
132.5°	255.2	331.1	420.7	476.9	496.3	476.9	420.7	331.1	255.2	324.6	405.8
135°	270.5	342.0	430.7	486.2	501.9	486.2	430.7	342.0	270.5	335.7	413.3
137.5°	285.2	352.3	435.3	493.5	507.4	493.5	435.3	352.3	285.2	347.5	419.6
140°	299.6	362.4	439.1	500.1	515.7	500.1	439.1	362.4	299.6	357.9	426.2
142.5°	314.0	370.7	443.6	500.9	519.5	500.9	443.6	370.7	314.0	366.9	433.5
145°	326.3	381.8	444.6	497.3	518.5	497.3	444.6	381.8	326.3	376.3	438.1
147.5°	339.3	386.4	447.4	496.3	515.7	496.3	447.4	386.4	339.3	379.0	440.8
150°	349.9	391.9	448.4	492.8	509.2	492.8	448.4	391.9	349.9	389.1	445.6
152.5°	361.0	396.7	448.4	488.0	501.9	488.0	448.4	396.7	361.0	395.7	445.6
155°	370.2	403.0	447.4	482.4	495.6	482.4	447.4	403.0	370.2	399.5	446.4
157.5°	379.9	406.8	445.6	475.1	487.2	475.1	445.6	406.8	379.9	405.0	443.6
160°	388.4	411.3	442.8	468.6	479.7	468.6	442.8	411.3	388.4	407.8	442.8
162.5°	395.7	415.1	439.1	461.3	470.6	461.3	439.1	415.1	395.7	410.6	439.1
165°	401.2	416.9	435.3	452.9	461.3	452.9	435.3	416.9	401.2	412.3	434.5
167.5°	406.3	420.7	434.5	440.1	450.2	440.1	434.5	420.7	406.3	414.1	430.7
170°	410.9	420.7	429.7	438.1	441.8	438.1	429.7	420.7	410.9	415.1	427.0
172.5°	412.8	420.7	427.0	431.8	434.5	431.8	427.0	420.7	412.8	416.9	424.2
175°	416.5	422.4	426.2	425.2	428.0	425.2	426.2	422.4	416.5	418.6	420.7
177.5°	418.3	421.4	422.4	422.4	420.7	422.4	422.4	421.4	418.3	419.6	420.7
180°	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0



TEST NUMBER: 17911
 CATALOG NUMBER: E2W-WB-1T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	324.0	324.0	324.0	324.0	324.0	324.0
2.5°	325.6	324.6	325.6	324.6	323.6	321.4
5°	325.6	324.6	325.6	322.8	321.8	319.4
7.5°	327.3	326.3	327.3	323.6	320.0	315.7
10°	331.1	331.1	331.1	323.6	317.3	311.2
12.5°	336.4	337.4	336.4	323.6	312.5	304.8
15°	347.5	349.5	347.5	323.6	306.9	296.4
17.5°	364.2	367.9	364.2	325.6	301.4	290.4
20°	383.6	391.9	383.6	329.1	296.8	281.6
22.5°	399.5	410.6	399.5	337.4	291.3	273.6
25°	391.1	401.2	391.1	346.8	286.7	264.9
27.5°	372.5	382.8	372.5	355.8	280.2	254.7
30°	351.3	361.4	351.3	353.1	276.4	245.5
32.5°	322.8	340.2	322.8	337.4	272.9	234.9
35°	298.6	311.7	298.6	317.3	268.1	221.0
37.5°	267.3	279.2	267.3	291.3	263.5	210.5
40°	234.0	243.4	234.0	266.3	256.2	196.6
42.5°	198.0	203.5	198.0	238.6	245.1	183.6
45°	162.9	172.0	162.9	208.1	227.5	170.2
47.5°	142.5	155.6	142.5	176.8	202.5	155.5
50°	129.6	143.5	129.6	148.0	174.0	137.1
52.5°	122.3	137.9	122.3	125.1	142.5	115.2
55°	115.8	136.9	115.8	106.4	101.9	91.3
57.5°	111.2	136.9	111.2	92.6	75.1	65.4
60°	92.6	117.5	92.6	75.1	47.4	45.1
62.5°	70.6	92.6	70.6	55.7	33.5	31.1
65°	45.6	64.1	45.6	40.1	23.4	22.9
67.5°	29.8	39.1	29.8	26.2	17.9	18.3
70°	21.4	28.0	21.4	19.7	14.1	14.5
72.5°	15.1	20.7	15.1	14.1	10.3	11.7
75°	13.1	15.9	13.1	12.4	9.6	8.6
77.5°	9.6	12.4	9.6	10.3	8.6	7.7
80°	7.6	8.6	7.6	7.6	6.8	6.3
82.5°	4.8	6.8	4.8	5.8	7.6	5.3
85°	3.0	5.8	3.0	4.0	4.0	4.0
87.5°	2.0	4.0	2.0	4.0	3.0	3.0
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	4.8	8.6	4.8	10.3	7.6	6.3
95°	15.9	21.4	15.9	25.2	22.4	16.9
97.5°	30.8	37.3	30.8	51.2	53.0	26.1
100°	57.5	65.1	57.5	80.7	83.5	39.1
102.5°	70.6	95.3	70.6	116.8	95.3	53.5
105°	125.1	132.4	125.1	150.8	133.4	69.2
107.5°	161.1	169.2	161.1	178.5	157.4	84.9
110°	194.2	202.5	194.2	204.5	185.1	101.9



TEST NUMBER: 17911
 CATALOG NUMBER: E2W-WB-1T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	223.9	229.5	223.9	229.5	210.1	119.4
115°	250.7	256.2	250.7	258.0	227.5	137.1
117.5°	278.4	287.5	278.4	284.0	243.4	153.2
120°	304.1	312.5	304.1	313.5	257.0	170.2
122.5°	330.1	338.4	330.1	342.0	272.9	189.6
125°	341.2	365.2	341.2	366.2	279.2	205.3
127.5°	385.6	391.1	385.6	380.8	298.6	223.4
130°	413.3	419.6	413.3	393.9	311.7	239.2
132.5°	438.1	446.4	438.1	405.8	324.6	255.2
135°	452.9	465.0	452.9	413.3	335.7	270.5
137.5°	460.2	474.1	460.2	419.6	347.5	285.2
140°	466.8	482.4	466.8	426.2	357.9	299.6
142.5°	471.3	485.2	471.3	433.5	366.9	314.0
145°	474.1	487.2	474.1	438.1	376.3	326.3
147.5°	475.1	489.0	475.1	440.8	379.0	339.3
150°	476.1	487.2	476.1	445.6	389.1	349.9
152.5°	476.1	487.2	476.1	445.6	395.7	361.0
155°	475.1	482.4	475.1	446.4	399.5	370.2
157.5°	472.4	480.7	472.4	443.6	405.0	379.9
160°	467.8	476.1	467.8	442.8	407.8	388.4
162.5°	461.3	467.8	461.3	439.1	410.6	395.7
165°	454.7	457.5	454.7	434.5	412.3	401.2
167.5°	446.4	449.2	446.4	430.7	414.1	406.3
170°	443.6	439.1	443.6	427.0	415.1	410.9
172.5°	431.8	431.8	431.8	424.2	416.9	412.8
175°	425.2	422.4	425.2	420.7	418.6	416.5
177.5°	421.4	418.6	421.4	420.7	419.6	418.3
180°	420.0	420.0	420.0	420.0	420.0	420.0

(END OF REPORT)