

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: 17912

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 17912
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2W-WH-1T8
Description: DIRECT/INDIRECT WALL LUMINAIRE - ELEMENT WALL
WITH WHITE INTERIOR AND 38 CELL HI PERFORMANCE LOUVER BLADE

Light Source: ONE PHILIPS 32 WATT T8 LAMP

F32T8/TL841. LUMEN RATING = 3000 LMS.

Ballast/Driver: -

Summary

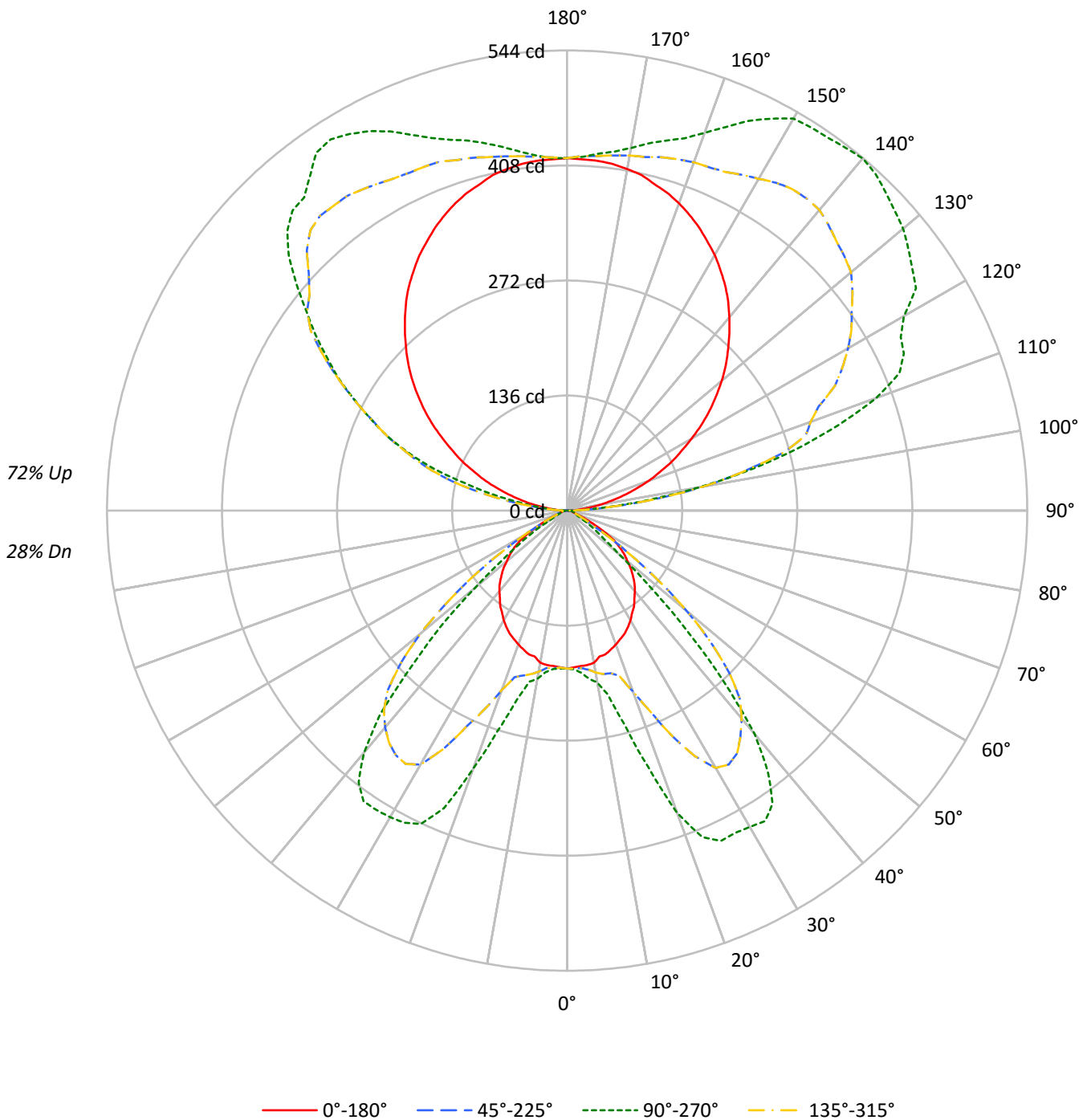
Lumens per Lamp: 3000 (1 lamp)
Luminaire Lumens: 2498.6 lumens
Efficiency: 83.3%
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.94 / 1.72
Luminous Opening: Rectangular (W 0.22' x L: 3.59' x H: 0')
CIE Type: Semi-Indirect

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: 17912
CATALOG NUMBER: E2W-WH-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	50	30	10	0	
RCR																						
0	85	85	85	85	76	76	76	76	59	59	59	44	44	44	30	30	30	24				
1	78	75	72	69	70	67	65	62	53	51	50	39	39	38	27	27	26	21				
2	71	66	61	57	64	59	55	52	47	44	42	35	33	32	25	24	23	18				
3	65	58	52	48	58	52	47	44	41	38	35	31	29	27	22	21	20	16				
4	60	51	45	41	53	46	41	37	37	33	30	28	26	24	20	18	17	14				
5	55	46	39	35	49	41	36	32	33	29	26	25	23	21	18	16	15	12				
6	50	41	34	30	45	37	31	27	30	26	23	23	20	18	16	15	13	11				
7	46	37	30	26	41	33	28	24	27	23	20	20	18	16	15	13	12	9				
8	43	33	27	23	38	30	25	21	24	20	17	19	16	14	13	12	10	8				
9	40	30	24	20	36	27	22	19	22	18	15	17	14	12	12	11	9	7				
10	37	27	22	18	33	25	20	16	20	16	14	16	13	11	11	10	8	7				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2544	2544	2544	2544
5°	2524	2632	2524	2571
10°	2528	2855	2528	2793
15°	2480	3694	2480	3278
20°	2444	5513	2444	4708
25°	2415	6477	2415	6144
30°	2359	6795	2359	6588
35°	2294	7044	2294	6981
40°	2215	6133	2215	6645
45°	2124	3849	2124	4992
50°	1974	1652	1974	3004
55°	1806	972	1806	1630
60°	1396	564	1396	790
65°	829	400	829	455
70°	450	410	450	410
75°	405	453	405	400
80°	494	596	494	314
85°	532	907	532	751



TEST NUMBER: 17912
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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	18.1	0.7	0.6
10°-20°	60.5	2.4	2.0
20°-30°	132.6	5.3	4.4
30°-40°	190.5	7.6	6.4
40°-50°	177.5	7.1	5.9
50°-60°	90.3	3.6	3.0
60°-70°	25.1	1.0	0.8
70°-80°	8.6	0.3	0.3
80°-90°	4.3	0.2	0.1
90°-100°	49.5	2.0	1.6
100°-110°	185.2	7.4	6.2
110°-120°	276.4	11.1	9.2
120°-130°	319.2	12.8	10.6
130°-140°	318.4	12.7	10.6
140°-150°	276.6	11.1	9.2
150°-160°	203.7	8.2	6.8
160°-170°	121.9	4.9	4.1
170°-180°	40.3	1.6	1.3
0°-30°	211.1	8.5	7.0
0°-40°	401.7	16.1	13.4
0°-60°	669.5	26.8	22.3
0°-90°	707.5	28.3	23.6
90°-120°	511.1	20.5	17.0
90°-150°	1425.2	57.0	47.5
90°-180°	1791.0	71.7	59.7
0°-180°	2498.6	100.0	83.3

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	187	187	187	187	187	
5°	184	192	184	188	184	18
15°	176	262	176	232	176	49
25°	161	431	161	409	161	74
35°	138	423	138	420	138	86
45°	110	200	110	259	110	85
55°	76	41	76	69	76	67
65°	26	12	26	14	26	27
75°	8	9	8	8	8	8
85°	3	6	3	5	3	3
90°	0	0	0	0	0	2
95°	16	48	16	21	16	18
105°	69	280	69	125	69	73
115°	136	439	136	256	136	134
125°	205	498	205	363	205	183
135°	269	532	269	468	269	208
145°	326	538	326	517	326	203
155°	369	508	369	494	369	170
165°	399	453	399	453	399	113
175°	415	423	415	421	415	39
180°	417	417	417	417	417	



TEST NUMBER: 17912
 CATALOG NUMBER: E2W-WH-1T8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7
2.5°	185.5	185.1	186.9	185.9	187.9	185.9	186.9	185.1	185.5	185.9	185.9
5°	184.5	185.1	186.9	188.6	192.4	188.6	186.9	185.1	184.5	185.9	186.9
7.5°	184.1	185.1	189.6	194.2	200.7	194.2	189.6	185.1	184.1	185.9	187.9
10°	182.7	182.3	194.2	201.8	206.3	201.8	194.2	182.3	182.7	186.9	193.4
12.5°	176.8	181.3	198.0	207.3	222.9	207.3	198.0	181.3	176.8	185.1	198.0
15°	175.8	179.6	199.0	224.7	261.8	224.7	199.0	179.6	175.8	184.1	201.8
17.5°	172.0	180.3	204.5	257.0	317.3	257.0	204.5	180.3	172.0	184.1	206.3
20°	168.5	178.5	227.5	311.7	380.1	311.7	227.5	178.5	168.5	186.9	225.7
22.5°	164.3	177.5	257.0	366.9	417.9	366.9	257.0	177.5	164.3	185.9	253.5
25°	160.6	177.5	294.1	401.2	430.7	401.2	294.1	177.5	160.6	184.1	281.9
27.5°	155.5	176.8	327.3	411.3	429.7	411.3	327.3	176.8	155.5	187.9	318.0
30°	149.9	177.5	351.3	407.8	431.8	407.8	351.3	177.5	149.9	194.2	346.8
32.5°	143.1	180.3	355.8	403.0	435.3	403.0	355.8	180.3	143.1	205.3	355.1
35°	137.9	188.6	350.3	401.2	423.4	401.2	350.3	188.6	137.9	214.6	353.1
37.5°	130.5	201.8	336.4	387.4	390.1	387.4	336.4	201.8	130.5	225.7	345.8
40°	124.5	213.6	320.8	359.6	344.7	359.6	320.8	213.6	124.5	235.8	334.7
42.5°	118.1	221.2	302.4	312.5	273.6	312.5	302.4	221.2	118.1	241.3	320.8
45°	110.2	226.7	270.9	251.4	199.7	251.4	270.9	226.7	110.2	241.3	299.6
47.5°	102.4	223.9	230.2	184.1	130.6	184.1	230.2	223.9	102.4	229.5	266.3
50°	93.1	210.1	184.1	122.3	77.9	122.3	184.1	210.1	93.1	210.1	226.7
52.5°	85.2	187.9	136.2	77.9	54.7	77.9	136.2	187.9	85.2	185.9	179.6
55°	76.0	159.1	91.8	51.9	40.9	51.9	91.8	159.1	76.0	155.6	135.2
57.5°	65.8	128.6	58.5	39.1	30.8	39.1	58.5	128.6	65.8	123.1	92.6
60°	51.2	88.0	35.3	27.0	20.7	27.0	35.3	88.0	51.2	87.0	60.3
62.5°	37.3	60.3	25.2	20.7	15.1	20.7	25.2	60.3	37.3	56.7	36.3
65°	25.7	34.5	18.7	14.1	12.4	14.1	18.7	34.5	25.7	32.5	25.2
67.5°	17.4	20.7	13.1	12.4	12.4	12.4	13.1	20.7	17.4	19.7	14.1
70°	11.3	14.1	11.3	10.3	10.3	10.3	11.3	14.1	11.3	13.1	13.1
72.5°	8.6	10.3	6.8	9.6	9.6	9.6	6.8	10.3	8.6	9.6	11.3
75°	7.7	8.6	6.8	7.6	8.6	7.6	6.8	8.6	7.7	8.6	6.8
77.5°	6.7	6.8	7.6	7.6	7.6	7.6	6.8	6.7	7.6	7.6	7.6
80°	6.3	7.6	6.8	6.8	7.6	6.8	6.8	7.6	6.3	5.8	6.8
82.5°	4.0	4.8	4.8	6.8	6.8	6.8	4.8	4.8	4.0	4.0	4.0
85°	3.4	4.8	4.0	5.8	5.8	5.8	4.0	4.8	3.4	3.0	4.0
87.5°	2.3	2.0	4.0	5.8	5.8	5.8	4.0	2.0	2.3	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°	8.1	30.8	15.9	27.0	15.9	27.0	15.9	30.8	8.1	6.8	11.3
95°	16.0	74.1	54.0	65.8	48.4	65.8	54.0	74.1	16.0	22.4	25.2
97.5°	25.6	118.5	105.7	124.1	98.1	124.1	105.7	118.5	25.6	54.0	48.4
100°	39.1	150.1	163.9	215.6	159.1	215.6	163.9	150.1	39.1	84.2	80.7
102.5°	53.5	162.9	213.6	245.1	219.2	245.1	213.6	162.9	53.5	96.3	115.8
105°	68.7	182.3	264.5	300.6	280.2	300.6	264.5	182.3	68.7	133.4	149.0
107.5°	84.9	202.5	295.8	353.1	336.4	353.1	295.8	202.5	84.9	158.4	177.5
110°	102.4	221.2	306.2	391.1	388.4	391.1	306.2	221.2	102.4	183.1	202.5



TEST NUMBER: 17912
 CATALOG NUMBER: E2W-WH-1T8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	118.1	238.6	321.8	405.0	425.2	405.0	321.8	238.6	118.1	211.8	230.2
115°	136.2	254.2	349.5	412.3	439.1	412.3	349.5	254.2	136.2	229.5	255.2
117.5°	152.3	269.1	366.9	431.8	444.6	431.8	366.9	269.1	152.3	247.9	284.0
120°	169.7	283.0	383.6	456.7	459.5	456.7	383.6	283.0	169.7	270.9	312.5
122.5°	187.8	305.2	398.5	475.1	489.0	475.1	398.5	305.2	187.8	290.3	342.0
125°	205.3	310.7	410.6	479.7	498.3	479.7	410.6	310.7	205.3	295.8	369.7
127.5°	221.9	319.0	425.2	490.0	508.4	490.0	425.2	319.0	221.9	312.5	387.4
130°	238.6	328.4	438.1	500.1	518.5	500.1	438.1	328.4	238.6	321.8	397.5
132.5°	254.3	336.4	444.6	508.4	525.1	508.4	444.6	336.4	254.3	330.1	414.1
135°	269.1	344.0	450.2	517.5	532.4	517.5	450.2	344.0	269.1	338.4	435.3
137.5°	283.8	350.3	457.5	519.5	539.7	519.5	457.5	350.3	283.8	344.7	449.2
140°	298.2	356.9	464.0	521.3	543.5	521.3	464.0	356.9	298.2	355.1	454.7
142.5°	312.6	366.2	465.0	520.3	540.7	520.3	465.0	366.2	312.6	363.4	453.9
145°	325.6	378.0	464.0	521.3	537.9	521.3	464.0	378.0	325.6	371.7	453.9
147.5°	337.1	380.8	459.5	521.3	536.9	521.3	459.5	380.8	337.1	376.3	450.2
150°	349.0	387.4	452.9	511.9	535.2	511.9	452.9	387.4	349.0	387.4	446.4
152.5°	358.7	392.9	447.4	500.9	522.3	500.9	447.4	392.9	358.7	391.9	442.8
155°	369.3	399.5	441.8	486.2	508.4	486.2	441.8	399.5	369.3	397.5	440.8
157.5°	378.2	403.0	439.1	473.4	490.8	473.4	439.1	403.0	378.2	403.0	440.1
160°	386.5	407.8	438.1	462.3	475.1	462.3	438.1	407.8	386.5	406.8	439.1
162.5°	393.8	410.6	435.3	454.7	461.3	454.7	435.3	410.6	393.8	409.6	434.5
165°	399.3	414.1	432.5	447.4	452.9	447.4	432.5	414.1	399.3	412.3	431.8
167.5°	406.3	416.9	428.0	436.3	444.6	436.3	428.0	416.9	406.3	414.1	428.0
170°	409.9	417.9	426.2	433.5	435.3	433.5	426.2	417.9	409.9	414.1	425.2
172.5°	413.2	418.6	423.4	429.0	428.0	429.0	423.4	418.6	413.2	416.9	422.4
175°	415.1	418.6	420.7	423.4	423.4	423.4	420.7	418.6	415.1	416.9	419.6
177.5°	415.6	418.6	419.6	418.6	418.6	418.6	419.6	418.6	415.6	416.9	417.9
180°	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6



TEST NUMBER: 17912
 CATALOG NUMBER: E2W-WH-1T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	186.7	186.7	186.7	186.7	186.7	186.7
2.5°	186.9	186.9	186.9	185.9	185.9	185.5
5°	189.6	187.9	189.6	186.9	185.9	184.5
7.5°	195.2	192.4	195.2	187.9	185.9	184.1
10°	202.5	201.8	202.5	193.4	186.9	182.7
12.5°	208.1	207.3	208.1	198.0	185.1	176.8
15°	236.8	232.3	236.8	201.8	184.1	175.8
17.5°	270.1	272.9	270.1	206.3	184.1	172.0
20°	319.0	324.6	319.0	225.7	186.9	168.5
22.5°	369.7	380.8	369.7	253.5	185.9	164.3
25°	397.5	408.6	397.5	281.9	184.1	160.6
27.5°	405.0	416.1	405.0	318.0	187.9	155.5
30°	403.0	418.6	403.0	346.8	194.2	149.9
32.5°	399.5	419.6	399.5	355.1	205.3	143.1
35°	395.7	419.6	395.7	353.1	214.6	137.9
37.5°	381.8	405.0	381.8	345.8	225.7	130.5
40°	351.3	373.5	351.3	334.7	235.8	124.5
42.5°	307.9	327.3	307.9	320.8	241.3	118.1
45°	247.9	259.0	247.9	299.6	241.3	110.2
47.5°	190.7	202.5	190.7	266.3	229.5	102.4
50°	136.9	141.7	136.9	226.7	210.1	93.1
52.5°	94.6	97.3	94.6	179.6	185.9	85.2
55°	65.1	68.6	65.1	135.2	155.6	76.0
57.5°	45.6	48.4	45.6	92.6	123.1	65.8
60°	29.8	29.0	29.8	60.3	87.0	51.2
62.5°	18.7	17.9	18.7	36.3	56.7	37.3
65°	13.1	14.1	13.1	25.2	32.5	25.7
67.5°	10.3	10.3	10.3	14.1	19.7	17.4
70°	9.6	10.3	9.6	13.1	13.1	11.3
72.5°	6.8	6.8	6.8	11.3	9.6	8.6
75°	6.8	7.6	6.8	6.8	8.6	7.7
77.5°	5.8	5.8	5.8	7.6	7.6	6.7
80°	5.8	4.0	5.8	6.8	5.8	6.3
82.5°	4.8	4.0	4.8	4.0	4.0	4.0
85°	4.0	4.8	4.0	4.0	3.0	3.4
87.5°	2.0	2.0	2.0	4.0	3.0	2.3
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	4.8	8.6	4.8	11.3	6.8	8.1
95°	17.9	21.4	17.9	25.2	22.4	16.0
97.5°	31.8	37.3	31.8	48.4	54.0	25.6
100°	55.7	61.3	55.7	80.7	84.2	39.1
102.5°	70.6	93.6	70.6	115.8	96.3	53.5
105°	122.3	125.1	122.3	149.0	133.4	68.7
107.5°	159.1	166.4	159.1	177.5	158.4	84.9
110°	193.4	199.7	193.4	202.5	183.1	102.4



TEST NUMBER: 17912
 CATALOG NUMBER: E2W-WH-1T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	221.2	230.2	221.2	230.2	211.8	118.1
115°	247.9	256.2	247.9	255.2	229.5	136.2
117.5°	275.6	283.0	275.6	284.0	247.9	152.3
120°	303.4	311.7	303.4	312.5	270.9	169.7
122.5°	329.1	336.4	329.1	342.0	290.3	187.8
125°	342.0	363.4	342.0	369.7	295.8	205.3
127.5°	380.8	389.1	380.8	387.4	312.5	221.9
130°	412.3	417.9	412.3	397.5	321.8	238.6
132.5°	438.1	446.4	438.1	414.1	330.1	254.3
135°	457.5	467.8	457.5	435.3	338.4	269.1
137.5°	463.0	480.7	463.0	449.2	344.7	283.8
140°	472.4	483.5	472.4	454.7	355.1	298.2
142.5°	492.8	499.1	492.8	453.9	363.4	312.6
145°	503.6	516.7	503.6	453.9	371.7	325.6
147.5°	505.6	520.3	505.6	450.2	376.3	337.1
150°	501.9	514.0	501.9	446.4	387.4	349.0
152.5°	491.8	505.6	491.8	442.8	391.9	358.7
155°	482.4	494.5	482.4	440.8	397.5	369.3
157.5°	470.6	480.7	470.6	440.1	403.0	378.2
160°	461.3	468.6	461.3	439.1	406.8	386.5
162.5°	455.7	459.5	455.7	434.5	409.6	393.8
165°	450.2	452.9	450.2	431.8	412.3	399.3
167.5°	443.6	444.6	443.6	428.0	414.1	406.3
170°	439.1	436.3	439.1	425.2	414.1	409.9
172.5°	429.7	428.0	429.7	422.4	416.9	413.2
175°	423.4	421.4	423.4	419.6	416.9	415.1
177.5°	418.6	416.9	418.6	417.9	416.9	415.6
180°	416.6	416.6	416.6	416.6	416.6	416.6

(END OF REPORT)