

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: 19087

Luminaire Tested: **AW-WO-1T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 19087
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AW-WO-1T8
Description: CLASS A DIRECT/INDIRECT WALL LUMINAIRE WITH WHITE INTERIOR AND WHITE OPAL PLASTIC LENS
Light Source: ONE PHILIPS 32 WATT T8 LAMP

F32T8/TL841. LUMEN RATING = 2950 LMS.

Ballast/Driver: -

Summary

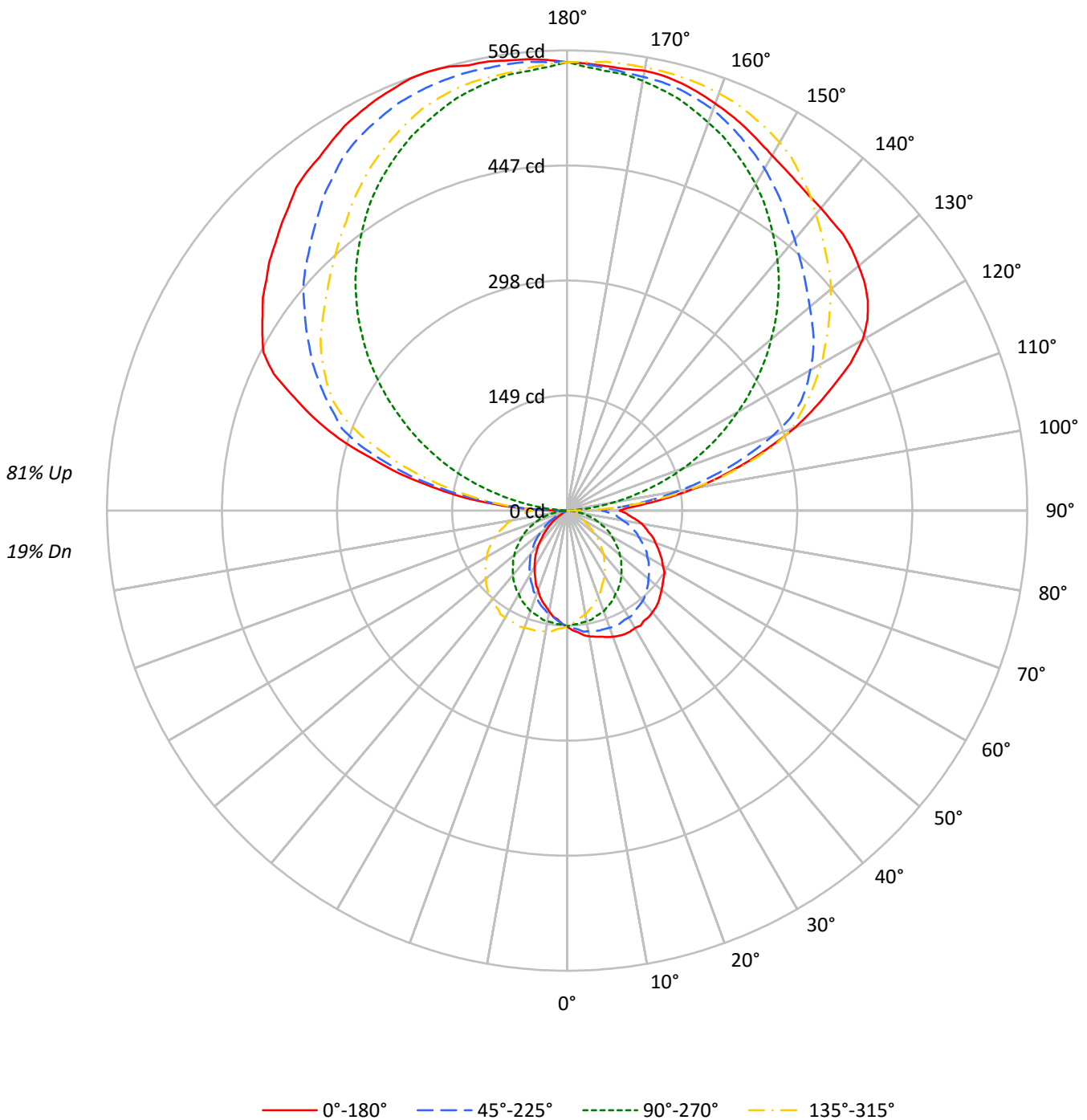
Lumens per Lamp: 2950 (1 lamp)
Luminaire Lumens: 2589.0 lumens
Efficiency: 87.8%
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.25 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.19' x L: 3' x H: 0.09')
CIE Type: Semi-Indirect

Input Watts (W): 33
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: 19087
CATALOG NUMBER: AW-WO-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	87	87	87	87	77	77	77	77	58	58	58	40	40	40	24	24	24	16
1	79	75	72	69	70	67	64	61	50	48	46	35	33	32	20	20	19	13
2	72	66	60	56	63	58	54	50	43	41	38	30	28	27	18	17	16	11
3	66	57	51	46	57	51	46	41	38	35	32	26	24	22	16	14	13	9
4	60	51	44	39	52	45	39	35	34	30	27	23	21	19	14	13	11	7
5	55	45	38	33	48	40	34	30	30	26	23	21	18	16	12	11	10	6
6	50	40	33	28	44	35	30	25	27	23	20	19	16	14	11	10	9	6
7	46	36	29	25	41	32	26	22	24	20	17	17	14	12	10	9	8	5
8	43	32	26	21	38	29	23	19	22	18	15	15	13	11	9	8	7	4
9	40	29	23	19	35	26	21	17	20	16	13	14	11	10	9	7	6	4
10	37	27	21	17	32	24	19	15	18	14	12	13	10	9	8	6	5	4

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2834	2834	2834	2834
5°	2987	2687	2671	2687
10°	3155	2580	2535	2580
15°	3278	2463	2376	2463
20°	3455	2379	2177	2379
25°	3629	2260	1999	2260
30°	3764	2139	1807	2139
35°	3924	2041	1612	2041
40°	4131	1923	1380	1923
45°	4335	1798	1099	1798
50°	4533	1669	837	1669
55°	4811	1526	546	1526
60°	5134	1386	190	1386
65°	5579	1230	21	1230
70°	6208	1034	26	1034
75°	7185	791	33	791
80°	9136	552	46	552
85°	13166	226	81	226



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 CATALOG NUMBER: AW-WO-1T8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	14.2	0.5	0.5
10°-20°	40.9	1.6	1.4
20°-30°	62.3	2.4	2.1
30°-40°	75.8	2.9	2.6
40°-50°	79.3	3.1	2.7
50°-60°	73.3	2.8	2.5
60°-70°	60.0	2.3	2.0
70°-80°	44.8	1.7	1.5
80°-90°	29.5	1.1	1.0
90°-100°	84.3	3.3	2.9
100°-110°	218.9	8.5	7.4
110°-120°	316.8	12.2	10.7
120°-130°	354.4	13.7	12.0
130°-140°	350.7	13.5	11.9
140°-150°	315.8	12.2	10.7
150°-160°	251.6	9.7	8.5
160°-170°	161.3	6.2	5.5
170°-180°	55.2	2.1	1.9
0°-30°	117.4	4.5	4.0
0°-40°	193.1	7.5	6.5
0°-60°	345.8	13.4	11.7
0°-90°	480.0	18.5	16.3
90°-120°	620.1	23.9	21.0
90°-150°	1640.9	63.4	55.6
90°-180°	2109.0	81.5	71.5
0°-180°	2589.0	100.0	87.8

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	150	150	150	150	150	
5°	158	148	141	148	158	15
15°	169	142	122	142	169	48
25°	177	132	97	132	177	81
35°	174	118	71	118	174	110
45°	167	99	42	99	167	129
55°	152	78	17	78	152	137
65°	133	56	0	56	133	132
75°	110	30	0	30	110	116
85°	82	7	0	7	82	70
90°	68	0	0	0	68	40
95°	102	18	94	18	102	98
105°	240	110	263	110	240	254
115°	379	208	420	208	379	376
125°	475	301	481	301	475	423
135°	506	386	524	386	506	390
145°	519	458	559	458	519	326
155°	547	514	587	514	547	253
165°	573	553	595	553	573	162
175°	578	572	587	572	578	55
180°	581	581	581	581	581	



TEST NUMBER: 19087
 CATALOG NUMBER: AW-WO-1T8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	150.1	150.1	150.1	150.1	150.1	150.1	150.1	150.1	150.1	150.1	150.1
2.5°	155.2	155.2	152.4	150.4	147.6	147.6	146.9	148.6	146.9	148.6	146.9
5°	158.0	158.8	154.2	151.4	147.6	147.6	143.0	143.0	141.3	143.0	143.0
7.5°	162.6	160.8	158.0	151.4	146.3	144.1	139.2	139.2	138.5	139.2	139.2
10°	165.4	164.4	158.8	153.2	145.8	143.0	136.4	134.7	132.9	134.7	136.4
12.5°	167.2	165.4	159.8	151.4	144.9	140.2	131.9	129.1	127.3	129.1	131.9
15°	169.0	167.2	160.8	151.4	142.0	136.4	128.0	124.5	122.5	124.5	128.0
17.5°	171.8	170.0	160.8	152.4	140.2	132.9	123.5	120.7	116.9	120.7	123.5
20°	173.8	170.0	161.6	150.4	138.8	128.0	116.9	114.1	109.5	114.1	116.9
22.5°	175.6	170.0	162.6	148.6	135.2	126.3	113.3	108.5	104.9	108.5	113.3
25°	176.6	171.0	161.6	147.6	132.4	122.5	106.7	102.9	97.3	102.9	106.7
27.5°	176.6	171.0	159.8	145.8	129.6	117.9	102.1	96.5	91.0	96.5	102.1
30°	175.6	170.0	159.8	143.0	124.9	113.3	95.5	91.0	84.3	91.0	95.5
32.5°	176.6	170.0	159.8	140.2	122.1	108.5	91.0	83.3	77.7	83.3	91.0
35°	173.8	170.0	156.0	136.4	117.9	102.1	84.3	78.8	71.4	78.8	84.3
37.5°	173.8	166.2	154.2	133.6	114.2	98.3	78.8	70.4	64.0	70.4	78.8
40°	171.8	164.4	152.4	131.9	109.0	92.7	73.2	64.8	57.4	64.8	73.2
42.5°	170.0	161.6	149.6	127.3	104.3	84.3	65.8	54.6	49.0	54.6	65.8
45°	167.2	159.8	145.8	121.7	99.2	80.5	60.2	50.8	42.4	50.8	60.2
47.5°	163.4	155.2	142.0	116.9	95.0	76.0	53.6	44.5	35.1	44.5	53.6
50°	159.8	153.2	137.5	113.3	88.9	70.4	46.2	37.9	29.5	37.9	46.2
52.5°	156.0	148.6	133.6	108.5	84.9	63.0	40.6	29.5	23.9	29.5	40.6
55°	152.4	144.8	129.1	103.9	77.7	57.4	33.3	24.9	17.3	24.9	33.3
57.5°	149.6	138.5	125.3	97.3	72.3	51.8	27.7	20.1	10.9	20.1	27.7
60°	143.0	133.6	119.7	92.7	66.8	45.2	21.1	13.7	5.3	13.7	21.1
62.5°	138.5	130.1	116.1	84.3	61.6	39.6	16.5	8.1	0.5	8.1	16.5
65°	132.9	121.7	110.5	81.6	55.5	32.3	10.9	2.5	0.5	2.5	10.9
67.5°	127.3	117.9	103.9	76.0	48.5	25.7	4.3	1.5	0.5	1.5	4.3
70°	121.7	114.1	98.3	71.4	43.1	21.1	1.5	0.5	0.5	0.5	1.5
72.5°	116.9	107.7	93.7	62.0	37.0	13.7	0.5	1.5	0.5	1.5	0.5
75°	109.5	99.3	85.4	57.4	30.0	7.1	0.5	0.5	0.5	0.5	0.5
77.5°	103.9	91.7	80.5	50.8	25.3	2.5	0.5	0.5	0.5	0.5	0.5
80°	98.3	85.4	73.2	46.2	18.7	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	89.9	78.8	66.8	38.9	12.3	0.5	0.5	0.5	0.5	0.5	0.5
85°	81.6	73.2	63.0	31.2	6.7	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	76.0	64.8	52.8	24.9	1.0	0.5	0.5	0.5	0.5	0.5	0.5
90°	68.1	64.3	45.2	23.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	77.7	80.5	54.6	42.4	2.9	19.3	46.2	38.9	53.6	38.9	46.2
95°	102.1	109.5	82.6	70.4	17.8	52.8	83.3	75.2	93.7	75.2	83.3
97.5°	133.6	144.8	113.3	101.1	38.7	88.2	124.5	116.1	138.5	116.1	124.5
100°	170.0	198.9	146.9	145.8	60.2	125.3	166.2	160.8	178.4	160.8	166.2
102.5°	203.5	214.7	181.2	157.0	84.9	139.2	208.1	179.4	223.1	179.4	208.1
105°	239.8	249.0	216.5	176.6	109.5	174.5	244.4	246.2	263.0	246.2	244.4
107.5°	276.2	286.3	250.0	196.1	134.7	193.3	281.8	286.3	309.7	286.3	281.8
110°	314.3	320.9	283.5	213.7	160.3	216.5	310.5	325.5	347.8	325.5	310.5



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 CATALOG NUMBER: AW-WO-1T8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	346.8	353.4	312.5	229.7	183.9	238.8	326.5	363.6	382.1	363.6	326.5
115°	379.3	385.9	333.9	247.2	208.1	261.2	345.0	396.1	419.5	396.1	345.0
117.5°	413.9	412.9	349.6	266.8	231.5	283.5	362.6	415.7	443.6	415.7	362.6
120°	441.8	433.5	363.6	288.1	255.1	304.9	380.4	428.6	455.8	428.6	380.4
122.5°	461.4	452.0	377.6	317.1	278.8	325.5	396.1	442.6	467.8	442.6	396.1
125°	475.4	457.6	389.8	327.3	301.2	335.6	412.9	450.2	481.0	450.2	412.9
127.5°	485.5	466.0	399.9	346.8	324.1	370.2	428.6	470.6	491.1	470.6	428.6
130°	492.9	474.4	410.1	367.4	344.9	389.8	446.4	482.7	503.1	482.7	446.4
132.5°	500.3	480.0	421.3	385.9	366.4	409.3	460.4	493.9	512.5	493.9	460.4
135°	505.9	484.5	433.5	405.5	386.3	426.9	473.3	506.9	523.7	506.9	473.3
137.5°	507.9	489.4	445.4	424.1	405.9	443.6	487.3	517.0	533.8	517.0	487.3
140°	511.5	494.9	458.6	441.8	423.7	459.4	501.3	529.2	546.0	529.2	501.3
142.5°	514.3	502.3	470.6	458.6	440.8	475.4	516.3	537.6	553.4	537.6	516.3
145°	519.1	512.5	485.5	482.7	457.6	489.4	528.2	546.0	559.0	546.0	528.2
147.5°	524.7	517.0	498.5	489.4	474.0	494.9	541.4	551.6	567.4	551.6	541.4
150°	531.0	525.4	511.5	502.3	488.3	515.3	550.6	564.6	575.7	564.6	550.6
152.5°	538.6	535.9	522.6	514.3	501.3	524.7	558.2	572.2	581.3	572.2	558.2
155°	547.0	545.0	533.1	524.7	513.5	533.8	564.6	579.6	586.9	579.6	564.6
157.5°	554.4	552.6	543.2	533.8	525.4	544.2	571.2	584.1	590.7	584.1	571.2
160°	561.0	560.0	552.6	542.2	534.8	551.6	575.0	586.9	595.3	586.9	575.0
162.5°	567.4	567.4	559.0	549.8	544.1	560.0	578.5	588.7	596.3	588.7	578.5
165°	572.9	571.2	564.6	556.2	553.0	565.6	580.6	589.7	595.3	589.7	580.6
167.5°	576.8	574.0	568.4	565.6	559.1	570.2	582.3	588.7	590.7	588.7	582.3
170°	578.5	574.0	570.2	569.4	565.2	572.9	582.3	589.7	590.7	589.7	582.3
172.5°	576.8	574.0	572.2	572.2	569.8	577.8	583.4	586.9	587.9	586.9	583.4
175°	577.8	576.8	575.7	576.8	571.6	580.6	583.4	585.1	586.9	585.1	583.4
177.5°	579.6	579.6	578.5	578.5	575.0	580.6	581.3	584.1	584.1	584.1	581.3
180°	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7



TEST NUMBER: 19087
 CATALOG NUMBER: AW-WO-1T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	150.1	150.1	150.1	150.1	150.1	150.1
2.5°	147.6	147.6	150.4	152.4	155.2	155.2
5°	147.6	147.6	151.4	154.2	158.8	158.0
7.5°	144.1	146.3	151.4	158.0	160.8	162.6
10°	143.0	145.8	153.2	158.8	164.4	165.4
12.5°	140.2	144.9	151.4	159.8	165.4	167.2
15°	136.4	142.0	151.4	160.8	167.2	169.0
17.5°	132.9	140.2	152.4	160.8	170.0	171.8
20°	128.0	138.8	150.4	161.6	170.0	173.8
22.5°	126.3	135.2	148.6	162.6	170.0	175.6
25°	122.5	132.4	147.6	161.6	171.0	176.6
27.5°	117.9	129.6	145.8	159.8	171.0	176.6
30°	113.3	124.9	143.0	159.8	170.0	175.6
32.5°	108.5	122.1	140.2	159.8	170.0	176.6
35°	102.1	117.9	136.4	156.0	170.0	173.8
37.5°	98.3	114.2	133.6	154.2	166.2	173.8
40°	92.7	109.0	131.9	152.4	164.4	171.8
42.5°	84.3	104.3	127.3	149.6	161.6	170.0
45°	80.5	99.2	121.7	145.8	159.8	167.2
47.5°	76.0	95.0	116.9	142.0	155.2	163.4
50°	70.4	88.9	113.3	137.5	153.2	159.8
52.5°	63.0	84.9	108.5	133.6	148.6	156.0
55°	57.4	77.7	103.9	129.1	144.8	152.4
57.5°	51.8	72.3	97.3	125.3	138.5	149.6
60°	45.2	66.8	92.7	119.7	133.6	143.0
62.5°	39.6	61.6	84.3	116.1	130.1	138.5
65°	32.3	55.5	81.6	110.5	121.7	132.9
67.5°	25.7	48.5	76.0	103.9	117.9	127.3
70°	21.1	43.1	71.4	98.3	114.1	121.7
72.5°	13.7	37.0	62.0	93.7	107.7	116.9
75°	7.1	30.0	57.4	85.4	99.3	109.5
77.5°	2.5	25.3	50.8	80.5	91.7	103.9
80°	0.5	18.7	46.2	73.2	85.4	98.3
82.5°	0.5	12.3	38.9	66.8	78.8	89.9
85°	0.5	6.7	31.2	63.0	73.2	81.6
87.5°	0.5	1.0	24.9	52.8	64.8	76.0
90°	0.5	0.5	23.4	45.2	64.3	68.1
92.5°	19.3	2.9	42.4	54.6	80.5	77.7
95°	52.8	17.8	70.4	82.6	109.5	102.1
97.5°	88.2	38.7	101.1	113.3	144.8	133.6
100°	125.3	60.2	145.8	146.9	198.9	170.0
102.5°	139.2	84.9	157.0	181.2	214.7	203.5
105°	174.5	109.5	176.6	216.5	249.0	239.8
107.5°	193.3	134.7	196.1	250.0	286.3	276.2
110°	216.5	160.3	213.7	283.5	320.9	314.3



TEST NUMBER: 19087
 CATALOG NUMBER: AW-WO-1T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	238.8	183.9	229.7	312.5	353.4	346.8
115°	261.2	208.1	247.2	333.9	385.9	379.3
117.5°	283.5	231.5	266.8	349.6	412.9	413.9
120°	304.9	255.1	288.1	363.6	433.5	441.8
122.5°	325.5	278.8	317.1	377.6	452.0	461.4
125°	335.6	301.2	327.3	389.8	457.6	475.4
127.5°	370.2	324.1	346.8	399.9	466.0	485.5
130°	389.8	344.9	367.4	410.1	474.4	492.9
132.5°	409.3	366.4	385.9	421.3	480.0	500.3
135°	426.9	386.3	405.5	433.5	484.5	505.9
137.5°	443.6	405.9	424.1	445.4	489.4	507.9
140°	459.4	423.7	441.8	458.6	494.9	511.5
142.5°	475.4	440.8	458.6	470.6	502.3	514.3
145°	489.4	457.6	482.7	485.5	512.5	519.1
147.5°	494.9	474.0	489.4	498.5	517.0	524.7
150°	515.3	488.3	502.3	511.5	525.4	531.0
152.5°	524.7	501.3	514.3	522.6	535.9	538.6
155°	533.8	513.5	524.7	533.1	545.0	547.0
157.5°	544.2	525.4	533.8	543.2	552.6	554.4
160°	551.6	534.8	542.2	552.6	560.0	561.0
162.5°	560.0	544.1	549.8	559.0	567.4	567.4
165°	565.6	553.0	556.2	564.6	571.2	572.9
167.5°	570.2	559.1	565.6	568.4	574.0	576.8
170°	572.9	565.2	569.4	570.2	574.0	578.5
172.5°	577.8	569.8	572.2	572.2	574.0	576.8
175°	580.6	571.6	576.8	575.7	576.8	577.8
177.5°	580.6	575.0	578.5	578.5	579.6	579.6
180°	580.7	580.7	580.7	580.7	580.7	580.7

(END OF REPORT)