

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: 19101

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 19101
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AW-WE-1T8
Description: CLASS A DIRECT/INDIRECT WALL LUMINAIRE WITH WHITE INTERIOR AND 18
CELL WHITE PERF AND DIFFUSE CUT-OFF LOUVER
Light Source: ONE PHILIPS 32 WATT T8 LAMP

F32T8/TL841. LUMEN RATING = 2950 LMS.

Ballast/Driver: -

Summary

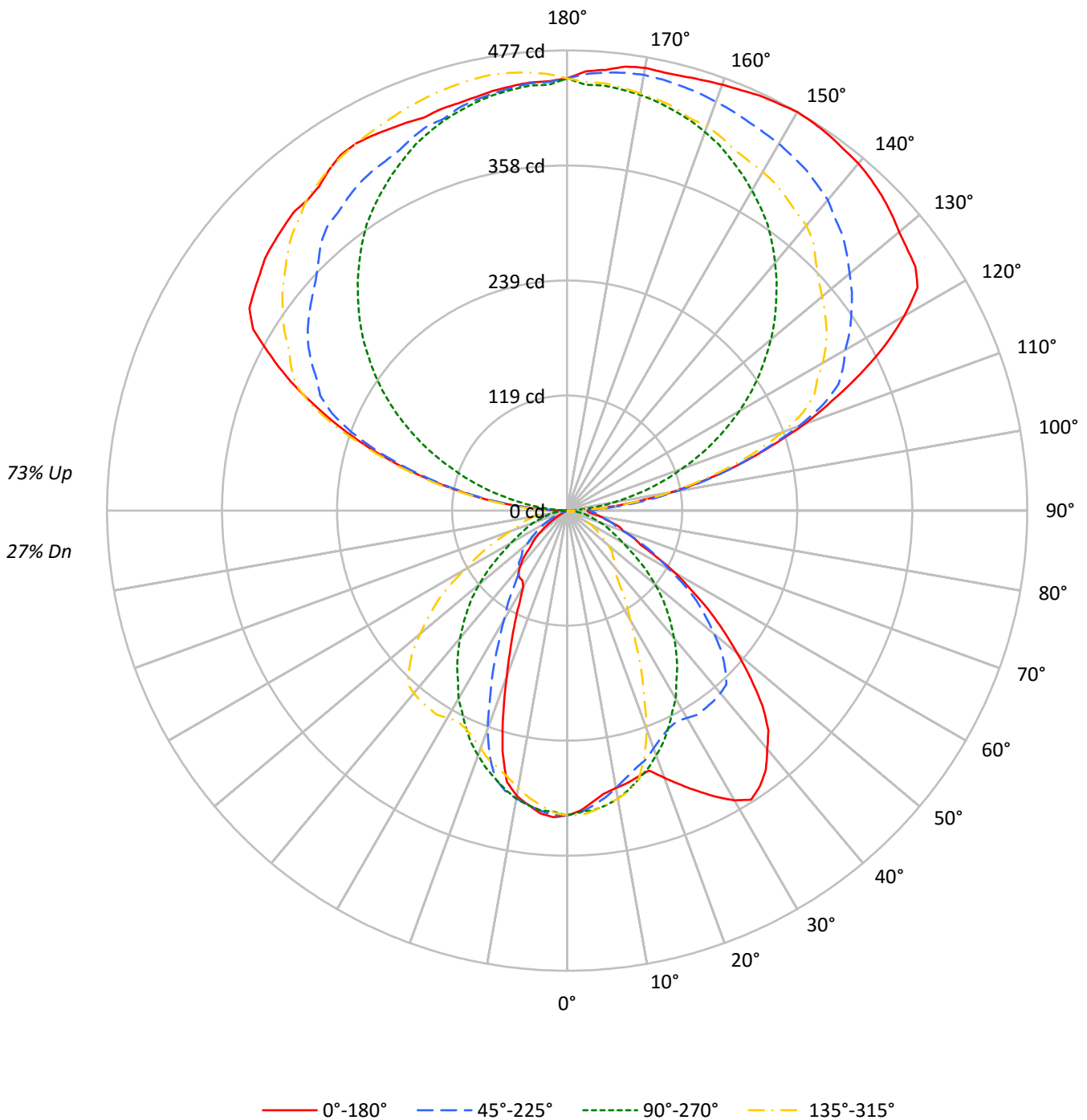
Lumens per Lamp: 2950 (1 lamp)
Luminaire Lumens: 2331.0 lumens
Efficiency: 79.0%
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.08 / 1.14
Luminous Opening: Rectangular w/ Sides (W: 0.19' x L: 3' x H: 0.09')
CIE Type: Semi-Indirect

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: 19101
CATALOG NUMBER: AW-WE-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	80	80	80	80	72	72	72	72	56	56	56	41	41	41	28	28	28	21
1	73	70	67	65	65	63	60	58	49	47	46	36	35	34	24	24	23	18
2	67	61	57	53	60	55	51	48	43	40	38	32	30	29	22	21	20	16
3	61	54	49	44	54	49	44	40	38	35	32	28	26	25	20	18	17	13
4	56	48	42	38	50	43	38	34	34	30	28	25	23	21	18	16	15	12
5	51	43	37	32	46	38	33	29	30	27	24	23	20	18	16	14	13	10
6	47	38	32	28	42	34	29	25	27	24	21	21	18	16	14	13	12	9
7	44	34	28	24	39	31	26	22	25	21	18	19	16	14	13	12	10	8
8	40	31	25	21	36	28	23	20	23	19	16	17	15	13	12	11	9	7
9	38	28	23	19	34	26	21	17	21	17	14	16	13	11	11	10	9	7
10	35	26	21	17	31	24	19	16	19	15	13	15	12	10	10	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5967	5967	5967	5967
5°	5731	5679	5961	5679
10°	5568	5364	5728	5364
15°	5533	4991	5011	4991
20°	5858	4628	3636	4628
25°	6594	4236	2630	4236
30°	7433	3853	1951	3853
35°	7871	3442	1928	3442
40°	7760	3041	1828	3041
45°	7423	2649	1416	2649
50°	6535	2231	1152	2231
55°	5632	1783	698	1783
60°	4635	1394	320	1394
65°	3539	1108	63	1108
70°	3163	888	26	888
75°	3150	630	33	630
80°	3262	484	139	484
85°	3856	159	81	159



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	29.3	1.3	1.0
10°-20°	77.9	3.3	2.6
20°-30°	103.9	4.5	3.5
30°-40°	118.7	5.1	4.0
40°-50°	115.0	4.9	3.9
50°-60°	87.6	3.8	3.0
60°-70°	51.3	2.2	1.7
70°-80°	26.8	1.2	0.9
80°-90°	14.4	0.6	0.5
90°-100°	52.8	2.3	1.8
100°-110°	169.5	7.3	5.7
110°-120°	266.3	11.4	9.0
120°-130°	302.2	13.0	10.2
130°-140°	292.1	12.5	9.9
140°-150°	256.8	11.0	8.7
150°-160°	198.6	8.5	6.7
160°-170°	125.2	5.4	4.2
170°-180°	42.7	1.8	1.4
0°-30°	211.1	9.1	7.2
0°-40°	329.8	14.1	11.2
0°-60°	532.4	22.8	18.0
0°-90°	624.8	26.8	21.2
90°-120°	488.6	21.0	16.6
90°-150°	1339.7	57.5	45.4
90°-180°	1706.0	73.2	57.8
0°-180°	2331.0	100.0	79.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	316	316	316	316	316	
5°	303	312	315	312	303	29
15°	285	288	258	288	285	81
25°	321	248	128	248	321	149
35°	349	199	85	199	349	216
45°	286	146	55	146	286	218
55°	178	91	22	91	178	159
65°	84	50	2	50	84	89
75°	48	24	0	24	48	51
85°	24	5	0	5	24	22
90°	21	0	0	0	21	12
95°	44	16	47	16	44	50
105°	185	88	178	88	185	195
115°	336	167	316	167	336	331
125°	441	242	396	242	441	391
135°	461	306	416	306	461	357
145°	474	362	431	362	474	298
155°	474	402	436	402	474	219
165°	466	429	437	429	466	132
175°	459	442	445	442	459	44
180°	448	448	448	448	448	



TEST NUMBER: 19101

CATALOG NUMBER: AW-WE-1T8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0
2.5°	311.5	315.3	313.3	314.3	312.4	315.3	316.1	316.1	318.1	316.1	316.1
5°	303.1	307.7	306.9	313.3	312.0	314.3	312.5	309.7	315.3	309.7	312.5
7.5°	295.7	299.3	300.3	308.7	308.2	310.5	307.7	304.1	307.7	304.1	307.7
10°	291.9	292.9	291.9	301.3	303.1	305.9	303.1	299.3	300.3	299.3	303.1
12.5°	289.1	289.1	283.5	294.7	296.1	298.5	297.5	283.5	288.1	283.5	297.5
15°	285.3	283.5	276.2	282.5	287.7	286.3	287.4	249.0	258.4	249.0	287.4
17.5°	282.5	280.8	270.6	275.2	279.7	278.0	266.8	217.5	220.3	217.5	266.8
20°	294.7	276.9	262.2	262.2	270.0	265.8	240.9	181.2	182.9	181.2	240.9
22.5°	307.7	283.5	254.6	249.0	260.3	253.8	208.1	152.4	152.4	152.4	208.1
25°	320.9	293.7	249.0	238.8	248.2	238.8	181.2	129.1	128.0	129.1	181.2
27.5°	334.6	304.1	246.2	228.7	235.7	219.3	153.2	102.9	105.7	102.9	153.2
30°	346.8	312.5	248.2	219.3	225.0	198.9	130.8	89.9	91.0	89.9	130.8
32.5°	355.2	320.9	251.0	207.3	210.5	177.3	114.1	85.4	86.1	85.4	114.1
35°	348.6	327.3	250.0	198.9	198.8	155.2	96.5	81.6	85.4	81.6	96.5
37.5°	338.4	320.9	249.0	186.7	185.9	133.6	81.6	79.8	83.3	79.8	81.6
40°	322.7	309.7	247.2	175.6	172.4	116.9	76.0	75.2	76.0	75.2	76.0
42.5°	308.7	294.7	244.4	165.4	159.3	100.1	74.2	65.8	67.6	65.8	74.2
45°	286.3	279.7	231.5	157.0	146.2	88.2	66.8	56.4	54.6	56.4	66.8
47.5°	258.4	259.4	217.5	151.4	133.3	76.0	63.0	48.0	48.0	48.0	63.0
50°	230.4	234.3	198.9	144.1	118.8	65.8	54.6	41.7	40.6	41.7	54.6
52.5°	203.5	210.1	181.2	135.7	105.3	58.4	47.3	32.3	31.2	32.3	47.3
55°	178.4	185.0	164.4	128.0	90.8	49.0	39.6	22.9	22.1	22.9	39.6
57.5°	151.4	163.4	144.1	122.5	77.4	45.2	32.3	16.5	14.5	16.5	32.3
60°	129.1	136.4	122.5	110.5	67.2	38.9	26.7	9.9	8.9	9.9	26.7
62.5°	104.9	115.1	106.7	100.1	57.4	32.3	19.3	5.3	2.5	5.3	19.3
65°	84.3	94.5	91.0	87.1	50.0	26.7	13.7	0.5	1.5	0.5	13.7
67.5°	75.2	77.7	76.0	72.4	43.9	19.3	8.9	0.5	0.5	0.5	8.9
70°	62.0	66.8	62.0	62.0	37.0	14.5	2.5	0.5	0.5	0.5	2.5
72.5°	57.4	60.2	52.8	51.8	30.0	8.9	0.5	0.5	0.5	0.5	0.5
75°	48.0	52.8	47.3	44.5	23.9	5.3	1.5	0.5	0.5	0.5	1.5
77.5°	39.6	46.2	40.6	37.9	20.1	1.5	0.5	0.5	1.5	0.5	0.5
80°	35.1	42.4	35.1	33.3	16.4	0.5	0.5	0.5	1.5	0.5	0.5
82.5°	29.5	36.1	31.2	27.7	10.3	0.5	0.5	0.5	0.5	0.5	0.5
85°	23.9	32.3	29.5	23.9	4.7	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	21.1	27.7	24.9	18.3	1.0	0.5	0.5	0.5	0.5	0.5	0.5
90°	21.1	24.6	23.4	15.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	22.9	36.1	31.2	33.3	2.5	7.1	19.3	8.9	20.1	8.9	19.3
95°	44.5	62.0	54.6	58.4	15.9	32.3	47.3	36.1	47.3	36.1	47.3
97.5°	74.2	95.5	84.3	87.1	32.3	57.4	77.0	67.6	80.5	67.6	77.0
100°	110.5	150.4	114.1	134.7	49.9	85.4	106.7	98.3	110.5	98.3	106.7
102.5°	146.9	167.2	149.6	145.8	67.2	98.3	140.2	113.3	144.1	113.3	140.2
105°	185.0	200.7	183.9	162.6	87.5	137.5	173.8	163.4	178.4	163.4	173.8
107.5°	221.3	238.8	218.5	182.2	107.6	152.4	207.3	196.9	213.7	196.9	207.3
110°	261.2	276.2	255.6	200.7	126.3	169.0	238.1	229.7	248.2	229.7	238.1



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CATALOG NUMBER: AW-WE-1T8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	297.5	311.5	287.4	220.3	147.2	185.0	264.0	265.8	281.8	265.8	264.0
115°	335.6	348.6	310.5	237.1	167.2	199.7	282.5	297.5	316.1	297.5	282.5
117.5°	372.0	380.4	322.7	254.6	186.7	215.7	291.9	329.3	345.8	329.3	291.9
120°	403.7	405.5	332.8	271.4	205.8	231.5	305.9	355.2	375.8	355.2	305.9
122.5°	430.7	413.9	347.8	294.7	224.5	251.0	318.1	365.4	390.5	365.4	318.1
125°	440.8	417.4	359.8	301.3	242.1	258.4	328.3	368.2	396.1	368.2	328.3
127.5°	444.6	425.1	372.0	313.3	258.8	279.0	336.7	380.4	401.7	380.4	336.7
130°	449.2	432.4	382.1	325.5	275.7	291.9	345.0	388.7	408.3	388.7	345.0
132.5°	455.8	439.8	393.3	337.4	291.6	304.9	353.4	394.3	412.1	394.3	353.4
135°	461.4	446.4	403.7	348.6	306.3	318.9	364.6	399.9	415.7	399.9	364.6
137.5°	466.0	451.0	411.1	360.8	321.3	329.3	377.6	401.7	419.5	401.7	377.6
140°	469.8	455.8	420.2	371.0	335.3	341.2	385.9	405.5	419.5	405.5	385.9
142.5°	471.6	459.4	425.8	382.1	349.1	352.4	389.8	411.1	423.0	411.1	389.8
145°	474.4	465.0	431.4	398.1	362.2	364.6	396.1	420.2	430.7	420.2	396.1
147.5°	476.1	465.0	435.2	401.7	372.9	369.2	401.7	422.3	437.0	422.3	401.7
150°	477.2	465.0	439.0	411.1	383.1	384.9	405.5	425.8	439.0	425.8	405.5
152.5°	475.4	465.0	441.8	420.2	392.9	393.3	408.3	427.9	438.0	427.9	408.3
155°	474.4	464.2	444.6	427.9	401.8	402.7	412.1	427.9	436.3	427.9	412.1
157.5°	471.6	463.2	448.2	435.2	410.7	410.1	418.5	426.9	435.2	426.9	418.5
160°	469.8	462.2	451.0	440.8	417.6	416.7	424.1	427.9	433.5	427.9	424.1
162.5°	467.8	461.4	453.8	443.6	424.1	423.0	425.8	429.6	436.3	429.6	425.8
165°	466.0	461.4	455.8	447.4	429.1	428.6	432.4	432.4	437.0	432.4	432.4
167.5°	465.0	463.2	457.6	450.2	433.8	432.4	436.3	436.3	439.0	436.3	436.3
170°	466.0	463.2	458.6	450.2	437.5	435.2	439.0	437.0	441.8	437.0	439.0
172.5°	464.2	459.4	457.6	450.2	439.9	440.8	441.8	441.8	443.6	441.8	441.8
175°	458.6	455.8	455.8	450.2	442.2	443.6	444.6	442.6	445.4	442.6	444.6
177.5°	455.8	451.0	453.0	449.2	441.8	446.4	444.6	444.6	445.4	444.6	444.6
180°	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9



TEST NUMBER: 19101
 CATALOG NUMBER: AW-WE-1T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	316.0	316.0	316.0	316.0	316.0	316.0
2.5°	315.3	312.4	314.3	313.3	315.3	311.5
5°	314.3	312.0	313.3	306.9	307.7	303.1
7.5°	310.5	308.2	308.7	300.3	299.3	295.7
10°	305.9	303.1	301.3	291.9	292.9	291.9
12.5°	298.5	296.1	294.7	283.5	289.1	289.1
15°	286.3	287.7	282.5	276.2	283.5	285.3
17.5°	278.0	279.7	275.2	270.6	280.8	282.5
20°	265.8	270.0	262.2	262.2	276.9	294.7
22.5°	253.8	260.3	249.0	254.6	283.5	307.7
25°	238.8	248.2	238.8	249.0	293.7	320.9
27.5°	219.3	235.7	228.7	246.2	304.1	334.6
30°	198.9	225.0	219.3	248.2	312.5	346.8
32.5°	177.3	210.5	207.3	251.0	320.9	355.2
35°	155.2	198.8	198.9	250.0	327.3	348.6
37.5°	133.6	185.9	186.7	249.0	320.9	338.4
40°	116.9	172.4	175.6	247.2	309.7	322.7
42.5°	100.1	159.3	165.4	244.4	294.7	308.7
45°	88.2	146.2	157.0	231.5	279.7	286.3
47.5°	76.0	133.3	151.4	217.5	259.4	258.4
50°	65.8	118.8	144.1	198.9	234.3	230.4
52.5°	58.4	105.3	135.7	181.2	210.1	203.5
55°	49.0	90.8	128.0	164.4	185.0	178.4
57.5°	45.2	77.4	122.5	144.1	163.4	151.4
60°	38.9	67.2	110.5	122.5	136.4	129.1
62.5°	32.3	57.4	100.1	106.7	115.1	104.9
65°	26.7	50.0	87.1	91.0	94.5	84.3
67.5°	19.3	43.9	72.4	76.0	77.7	75.2
70°	14.5	37.0	62.0	62.0	66.8	62.0
72.5°	8.9	30.0	51.8	52.8	60.2	57.4
75°	5.3	23.9	44.5	47.3	52.8	48.0
77.5°	1.5	20.1	37.9	40.6	46.2	39.6
80°	0.5	16.4	33.3	35.1	42.4	35.1
82.5°	0.5	10.3	27.7	31.2	36.1	29.5
85°	0.5	4.7	23.9	29.5	32.3	23.9
87.5°	0.5	1.0	18.3	24.9	27.7	21.1
90°	0.5	0.5	15.0	23.4	24.6	21.1
92.5°	7.1	2.5	33.3	31.2	36.1	22.9
95°	32.3	15.9	58.4	54.6	62.0	44.5
97.5°	57.4	32.3	87.1	84.3	95.5	74.2
100°	85.4	49.9	134.7	114.1	150.4	110.5
102.5°	98.3	67.2	145.8	149.6	167.2	146.9
105°	137.5	87.5	162.6	183.9	200.7	185.0
107.5°	152.4	107.6	182.2	218.5	238.8	221.3
110°	169.0	126.3	200.7	255.6	276.2	261.2



TEST NUMBER: 19101
 CATALOG NUMBER: AW-WE-1T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	185.0	147.2	220.3	287.4	311.5	297.5
115°	199.7	167.2	237.1	310.5	348.6	335.6
117.5°	215.7	186.7	254.6	322.7	380.4	372.0
120°	231.5	205.8	271.4	332.8	405.5	403.7
122.5°	251.0	224.5	294.7	347.8	413.9	430.7
125°	258.4	242.1	301.3	359.8	417.4	440.8
127.5°	279.0	258.8	313.3	372.0	425.1	444.6
130°	291.9	275.7	325.5	382.1	432.4	449.2
132.5°	304.9	291.6	337.4	393.3	439.8	455.8
135°	318.9	306.3	348.6	403.7	446.4	461.4
137.5°	329.3	321.3	360.8	411.1	451.0	466.0
140°	341.2	335.3	371.0	420.2	455.8	469.8
142.5°	352.4	349.1	382.1	425.8	459.4	471.6
145°	364.6	362.2	398.1	431.4	465.0	474.4
147.5°	369.2	372.9	401.7	435.2	465.0	476.1
150°	384.9	383.1	411.1	439.0	465.0	477.2
152.5°	393.3	392.9	420.2	441.8	465.0	475.4
155°	402.7	401.8	427.9	444.6	464.2	474.4
157.5°	410.1	410.7	435.2	448.2	463.2	471.6
160°	416.7	417.6	440.8	451.0	462.2	469.8
162.5°	423.0	424.1	443.6	453.8	461.4	467.8
165°	428.6	429.1	447.4	455.8	461.4	466.0
167.5°	432.4	433.8	450.2	457.6	463.2	465.0
170°	435.2	437.5	450.2	458.6	463.2	466.0
172.5°	440.8	439.9	450.2	457.6	459.4	464.2
175°	443.6	442.2	450.2	455.8	455.8	458.6
177.5°	446.4	441.8	449.2	453.0	451.0	455.8
180°	447.9	447.9	447.9	447.9	447.9	447.9

(END OF REPORT)