

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: 19103

Luminaire Tested: **AW-WE-1T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 19103
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AW-WE-1T5
Description: CLASS A DIRECT/INDIRECT WALL LUMINAIRE WITH WHITE INTERIOR AND 18
CELL WHITE PERF AND DIFFUSE CUT-OFF LOUVER
Light Source: ONE SYLVANIA 54 WATT T5 LAMP

FP54/841HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

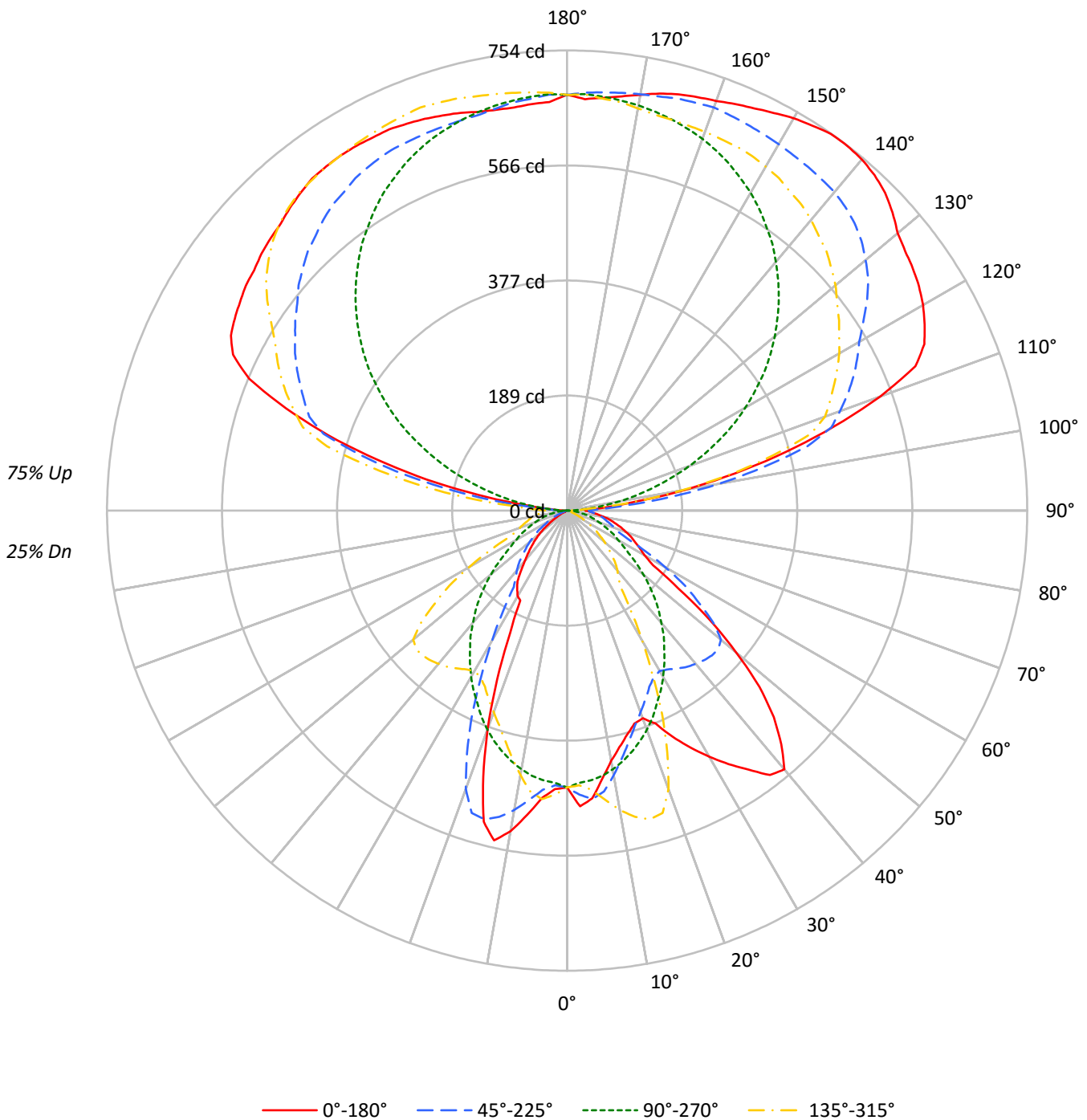
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 3770.9 lumens
Efficiency: 83.8%
Efficacy: 58.0 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 1.06 / 1.14
Luminous Opening: Rectangular w/ Sides (W: 0.19' x L: 3' x H: 0.09')
CIE Type: Semi-Indirect

Input Watts (W): 65
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: 19103
CATALOG NUMBER: AW-WE-1T5

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	85	85	85	85	75	75	75	75	58	58	58	42	42	42	28	28	28	21
1	77	74	71	68	69	66	63	61	51	49	48	37	36	35	25	24	24	18
2	71	65	60	56	63	58	54	50	45	42	40	33	31	30	22	21	20	15
3	65	57	51	47	57	51	46	42	40	36	34	29	27	25	20	18	17	13
4	59	51	44	40	52	45	40	36	35	32	29	26	24	22	18	16	15	12
5	54	45	39	34	48	40	35	31	32	28	25	24	21	19	16	15	13	10
6	50	40	34	29	44	36	31	27	29	25	22	21	19	17	15	13	12	9
7	46	36	30	26	41	33	27	23	26	22	19	19	17	15	13	12	11	8
8	43	33	27	23	38	30	24	21	24	20	17	18	15	13	12	11	10	7
9	40	30	24	20	35	27	22	18	22	18	15	16	14	12	11	10	9	7
10	37	27	22	18	33	25	20	16	20	16	14	15	12	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8566	8566	8566	8566
5°	8947	8078	8930	8078
10°	7937	7619	10172	7619
15°	7368	7099	10236	7099
20°	7198	6546	7566	6546
25°	8402	5941	4533	5941
30°	9986	5389	3472	5389
35°	11700	4800	3202	4800
40°	13310	4232	2583	4232
45°	12412	3672	2118	3672
50°	10248	3057	1656	3057
55°	7021	2447	1026	2447
60°	5242	2002	474	2002
65°	5151	1658	151	1658
70°	5228	1331	148	1331
75°	5407	1041	33	1041
80°	5799	679	46	679
85°	6954	314	81	314



TEST NUMBER: 19103
 CATALOG NUMBER: AW-WE-1T5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	44.4	1.2	1.0
10°-20°	124.0	3.3	2.8
20°-30°	157.3	4.2	3.5
30°-40°	175.3	4.6	3.9
40°-50°	174.6	4.6	3.9
50°-60°	126.0	3.3	2.8
60°-70°	70.4	1.9	1.6
70°-80°	40.9	1.1	0.9
80°-90°	22.3	0.6	0.5
90°-100°	86.0	2.3	1.9
100°-110°	327.0	8.7	7.3
110°-120°	473.3	12.6	10.5
120°-130°	495.8	13.1	11.0
130°-140°	474.7	12.6	10.5
140°-150°	410.4	10.9	9.1
150°-160°	311.1	8.2	6.9
160°-170°	192.4	5.1	4.3
170°-180°	64.9	1.7	1.4
0°-30°	325.7	8.6	7.2
0°-40°	501.0	13.3	11.1
0°-60°	801.5	21.3	17.8
0°-90°	935.1	24.8	20.8
90°-120°	886.4	23.5	19.7
90°-150°	2267.3	60.1	50.4
90°-180°	2836.0	75.2	63.0
0°-180°	3770.9	100.0	83.8

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	454	454	454	454	454	
5°	473	444	472	444	473	43
15°	380	409	528	409	380	108
25°	409	348	221	348	409	191
35°	518	277	142	277	518	326
45°	479	203	82	203	479	363
55°	222	125	32	125	222	208
65°	123	75	4	75	123	123
75°	82	40	0	40	82	87
85°	43	9	0	9	43	39
90°	30	0	1	0	30	18
95°	65	32	25	32	65	81
105°	371	148	321	148	371	391
115°	646	276	604	276	646	628
125°	692	394	643	394	692	620
135°	737	490	664	490	737	568
145°	754	569	688	569	754	472
155°	727	627	689	627	727	337
165°	706	663	675	663	706	200
175°	679	681	668	681	679	65
180°	681	681	681	681	681	



TEST NUMBER: 19103
 CATALOG NUMBER: AW-WE-1T5

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6
2.5°	485.2	470.8	465.9	453.9	446.5	451.4	450.6	456.9	456.9	456.9	450.6
5°	473.2	480.4	474.7	456.9	443.8	452.1	459.3	479.5	472.3	479.5	459.3
7.5°	442.5	464.2	464.2	459.3	438.5	455.4	478.0	505.2	502.8	505.2	478.0
10°	416.1	431.3	440.0	458.7	430.5	460.2	498.0	530.2	533.3	530.2	498.0
12.5°	396.8	410.4	415.2	453.0	420.8	462.6	514.0	546.2	553.5	546.2	514.0
15°	379.9	387.2	391.1	434.6	409.2	461.8	523.6	515.7	527.8	515.7	523.6
17.5°	366.1	372.7	369.4	416.1	396.3	457.8	519.7	453.9	456.9	453.9	519.7
20°	362.1	356.7	351.8	391.1	381.9	452.1	485.2	379.0	380.6	379.0	485.2
22.5°	377.5	349.4	334.9	367.8	366.6	444.2	428.2	301.8	299.4	301.8	428.2
25°	408.9	358.8	318.7	345.2	348.1	432.1	367.8	227.2	220.6	227.2	367.8
27.5°	437.6	381.4	307.5	322.9	332.1	410.4	302.7	162.9	166.0	162.9	302.7
30°	465.9	401.6	303.5	304.2	314.7	387.2	246.5	156.3	162.0	156.3	246.5
32.5°	492.5	423.4	308.4	284.9	296.2	348.5	194.3	146.6	152.4	146.6	194.3
35°	518.2	441.8	315.6	268.2	277.3	306.6	152.4	138.7	141.8	138.7	152.4
37.5°	546.2	461.8	322.9	252.0	260.1	261.0	137.2	121.8	124.3	121.8	137.2
40°	553.5	477.1	327.7	235.1	239.9	223.9	128.2	107.4	107.4	107.4	128.2
42.5°	519.7	489.2	332.5	217.5	221.9	186.1	117.0	93.8	94.4	93.8	117.0
45°	478.7	464.2	335.6	203.0	202.6	154.8	103.4	80.8	81.7	80.8	103.4
47.5°	427.3	424.0	335.6	191.0	183.0	125.8	91.3	68.7	70.3	68.7	91.3
50°	361.3	379.9	329.2	181.3	162.8	105.8	79.9	55.1	58.4	55.1	79.9
52.5°	295.4	329.2	301.8	174.1	144.3	91.3	67.9	46.4	45.5	46.4	67.9
55°	222.4	268.9	264.0	166.8	124.6	80.8	57.6	33.4	32.5	33.4	57.6
57.5°	166.8	207.0	228.7	158.7	109.5	69.6	45.5	22.9	21.3	22.9	45.5
60°	146.0	153.2	186.1	149.9	96.5	58.4	35.8	13.2	13.2	13.2	35.8
62.5°	134.8	126.7	145.1	139.4	87.3	49.4	27.7	7.7	4.4	7.7	27.7
65°	122.7	118.6	108.9	125.8	74.8	40.7	19.8	3.6	3.6	3.6	19.8
67.5°	113.7	108.2	88.9	109.8	64.7	31.9	12.6	2.9	4.4	2.9	12.6
70°	102.5	99.2	82.4	89.6	55.5	22.9	6.0	2.9	2.9	2.9	6.0
72.5°	92.9	91.3	75.1	73.6	46.7	14.1	3.6	2.0	0.5	2.0	3.6
75°	82.4	80.8	67.9	62.4	39.5	10.2	2.9	2.0	0.5	2.0	2.9
77.5°	72.7	73.6	62.4	53.6	30.7	3.6	0.5	0.5	0.5	0.5	0.5
80°	62.4	64.8	56.7	47.0	23.0	1.2	0.5	0.5	0.5	0.5	0.5
82.5°	51.8	59.1	48.8	39.8	17.4	0.5	0.5	0.5	0.5	0.5	0.5
85°	43.1	52.7	43.9	34.3	9.3	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	36.7	43.9	37.4	27.1	2.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	29.7	35.4	35.0	22.9	0.5	0.5	0.5	0.5	0.7	0.5	0.5
92.5°	38.2	56.7	51.2	67.9	10.5	4.4	13.2	6.0	15.0	6.0	13.2
95°	64.8	96.2	94.4	129.1	32.2	39.8	37.4	20.5	25.3	20.5	37.4
97.5°	115.5	174.1	170.8	193.4	58.0	107.4	112.2	55.1	70.3	55.1	112.2
100°	197.3	303.5	252.0	247.1	87.3	176.5	189.4	132.4	147.5	132.4	189.4
102.5°	280.9	345.2	330.1	261.0	117.0	204.6	273.7	169.2	236.0	169.2	273.7
105°	370.9	433.7	407.1	286.6	147.5	248.9	349.4	304.2	321.1	304.2	349.4
107.5°	458.7	518.2	453.9	316.3	180.1	271.3	418.5	387.8	411.3	387.8	418.5
110°	545.4	580.7	475.6	351.8	212.6	293.9	449.7	469.0	490.1	469.0	449.7



TEST NUMBER: 19103

CATALOG NUMBER: AW-WE-1T5

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	617.8	603.3	497.3	387.2	244.4	319.6	465.9	541.4	564.0	541.4	465.9
115°	645.9	621.1	517.3	416.1	276.2	344.6	482.0	569.5	604.2	569.5	482.0
117.5°	660.4	638.0	535.7	441.8	308.3	369.4	498.8	587.3	621.1	587.3	498.8
120°	673.3	650.7	552.6	465.9	337.2	392.6	514.9	596.9	629.0	596.9	514.9
122.5°	683.6	667.6	575.2	492.5	365.0	416.8	528.5	607.2	635.6	607.2	528.5
125°	691.7	671.5	600.0	500.4	393.8	427.3	543.8	611.4	642.8	611.4	543.8
127.5°	698.1	683.6	621.7	516.4	419.3	459.3	557.4	623.5	646.7	623.5	557.4
130°	707.1	702.3	638.6	531.8	444.1	478.7	574.3	631.4	654.0	631.4	574.3
132.5°	723.1	718.3	654.0	549.5	467.5	499.7	587.3	640.4	659.5	640.4	587.3
135°	736.7	728.6	666.1	565.6	490.4	518.8	600.9	649.2	664.3	649.2	600.9
137.5°	745.5	736.7	674.8	580.0	511.7	536.6	610.5	657.9	672.4	657.9	610.5
140°	751.2	741.5	681.2	595.2	532.1	552.6	621.7	666.1	679.7	666.1	621.7
142.5°	753.6	743.1	684.5	610.5	552.0	567.1	631.4	672.4	686.0	672.4	631.4
145°	753.6	740.7	687.8	632.3	568.7	582.5	637.1	676.4	688.4	676.4	637.1
147.5°	747.9	737.6	690.2	636.2	586.0	588.8	645.9	676.4	690.2	676.4	645.9
150°	742.4	731.0	693.3	646.7	601.3	606.6	650.7	678.8	690.2	678.8	650.7
152.5°	734.3	727.9	695.7	655.5	614.2	616.9	655.5	680.5	689.3	680.5	655.5
155°	727.1	722.2	698.1	663.6	627.4	625.9	657.9	680.5	689.3	680.5	657.9
157.5°	720.7	719.2	700.5	669.1	638.3	634.7	658.8	679.7	686.0	679.7	658.8
160°	714.3	715.9	702.9	675.7	648.4	641.9	660.4	677.3	683.0	677.3	660.4
162.5°	710.2	711.9	700.5	680.5	656.0	649.2	661.2	676.4	678.8	676.4	661.2
165°	706.2	707.1	699.0	683.6	663.2	657.1	662.8	673.3	674.8	673.3	662.8
167.5°	699.9	695.7	695.0	686.0	669.2	661.9	664.3	671.5	669.1	671.5	664.3
170°	691.7	692.6	692.6	686.0	674.1	665.2	669.1	670.9	666.7	670.9	669.1
172.5°	684.5	687.8	690.2	686.9	677.7	674.0	674.8	670.0	666.1	670.0	674.8
175°	678.8	683.0	687.8	689.3	680.9	679.7	677.3	673.3	668.5	673.3	677.3
177.5°	674.8	680.5	685.4	686.9	683.0	683.0	682.1	675.7	670.0	675.7	682.1
180°	681.1	681.1	681.1	681.1	681.1	681.1	681.1	681.1	681.1	681.1	681.1



TEST NUMBER: 19103

CATALOG NUMBER: AW-WE-1T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	453.6	453.6	453.6	453.6	453.6	453.6
2.5°	451.4	446.5	453.9	465.9	470.8	485.2
5°	452.1	443.8	456.9	474.7	480.4	473.2
7.5°	455.4	438.5	459.3	464.2	464.2	442.5
10°	460.2	430.5	458.7	440.0	431.3	416.1
12.5°	462.6	420.8	453.0	415.2	410.4	396.8
15°	461.8	409.2	434.6	391.1	387.2	379.9
17.5°	457.8	396.3	416.1	369.4	372.7	366.1
20°	452.1	381.9	391.1	351.8	356.7	362.1
22.5°	444.2	366.6	367.8	334.9	349.4	377.5
25°	432.1	348.1	345.2	318.7	358.8	408.9
27.5°	410.4	332.1	322.9	307.5	381.4	437.6
30°	387.2	314.7	304.2	303.5	401.6	465.9
32.5°	348.5	296.2	284.9	308.4	423.4	492.5
35°	306.6	277.3	268.2	315.6	441.8	518.2
37.5°	261.0	260.1	252.0	322.9	461.8	546.2
40°	223.9	239.9	235.1	327.7	477.1	553.5
42.5°	186.1	221.9	217.5	332.5	489.2	519.7
45°	154.8	202.6	203.0	335.6	464.2	478.7
47.5°	125.8	183.0	191.0	335.6	424.0	427.3
50°	105.8	162.8	181.3	329.2	379.9	361.3
52.5°	91.3	144.3	174.1	301.8	329.2	295.4
55°	80.8	124.6	166.8	264.0	268.9	222.4
57.5°	69.6	109.5	158.7	228.7	207.0	166.8
60°	58.4	96.5	149.9	186.1	153.2	146.0
62.5°	49.4	87.3	139.4	145.1	126.7	134.8
65°	40.7	74.8	125.8	108.9	118.6	122.7
67.5°	31.9	64.7	109.8	88.9	108.2	113.7
70°	22.9	55.5	89.6	82.4	99.2	102.5
72.5°	14.1	46.7	73.6	75.1	91.3	92.9
75°	10.2	39.5	62.4	67.9	80.8	82.4
77.5°	3.6	30.7	53.6	62.4	73.6	72.7
80°	1.2	23.0	47.0	56.7	64.8	62.4
82.5°	0.5	17.4	39.8	48.8	59.1	51.8
85°	0.5	9.3	34.3	43.9	52.7	43.1
87.5°	0.5	2.5	27.1	37.4	43.9	36.7
90°	0.5	0.5	22.9	35.0	35.4	29.7
92.5°	4.4	10.5	67.9	51.2	56.7	38.2
95°	39.8	32.2	129.1	94.4	96.2	64.8
97.5°	107.4	58.0	193.4	170.8	174.1	115.5
100°	176.5	87.3	247.1	252.0	303.5	197.3
102.5°	204.6	117.0	261.0	330.1	345.2	280.9
105°	248.9	147.5	286.6	407.1	433.7	370.9
107.5°	271.3	180.1	316.3	453.9	518.2	458.7
110°	293.9	212.6	351.8	475.6	580.7	545.4



TEST NUMBER: 19103

CATALOG NUMBER: AW-WE-1T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	319.6	244.4	387.2	497.3	603.3	617.8
115°	344.6	276.2	416.1	517.3	621.1	645.9
117.5°	369.4	308.3	441.8	535.7	638.0	660.4
120°	392.6	337.2	465.9	552.6	650.7	673.3
122.5°	416.8	365.0	492.5	575.2	667.6	683.6
125°	427.3	393.8	500.4	600.0	671.5	691.7
127.5°	459.3	419.3	516.4	621.7	683.6	698.1
130°	478.7	444.1	531.8	638.6	702.3	707.1
132.5°	499.7	467.5	549.5	654.0	718.3	723.1
135°	518.8	490.4	565.6	666.1	728.6	736.7
137.5°	536.6	511.7	580.0	674.8	736.7	745.5
140°	552.6	532.1	595.2	681.2	741.5	751.2
142.5°	567.1	552.0	610.5	684.5	743.1	753.6
145°	582.5	568.7	632.3	687.8	740.7	753.6
147.5°	588.8	586.0	636.2	690.2	737.6	747.9
150°	606.6	601.3	646.7	693.3	731.0	742.4
152.5°	616.9	614.2	655.5	695.7	727.9	734.3
155°	625.9	627.4	663.6	698.1	722.2	727.1
157.5°	634.7	638.3	669.1	700.5	719.2	720.7
160°	641.9	648.4	675.7	702.9	715.9	714.3
162.5°	649.2	656.0	680.5	700.5	711.9	710.2
165°	657.1	663.2	683.6	699.0	707.1	706.2
167.5°	661.9	669.2	686.0	695.0	695.7	699.9
170°	665.2	674.1	686.0	692.6	692.6	691.7
172.5°	674.0	677.7	686.9	690.2	687.8	684.5
175°	679.7	680.9	689.3	687.8	683.0	678.8
177.5°	683.0	683.0	686.9	685.4	680.5	674.8
180°	681.1	681.1	681.1	681.1	681.1	681.1

(END OF REPORT)