

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: 19089

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 19089  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: AW-WO-1T5  
Description: CLASS A DIRECT/INDIRECT WALL LUMINAIRE WITH WHITE INTERIOR AND WHITE OPAL PLASTIC LENS  
Light Source: ONE SYLVANIA 54 WATT T5 LAMP  
  
FP54/841HO. LUMEN RATING = 4500 LMS.  
  
Ballast/Driver: -

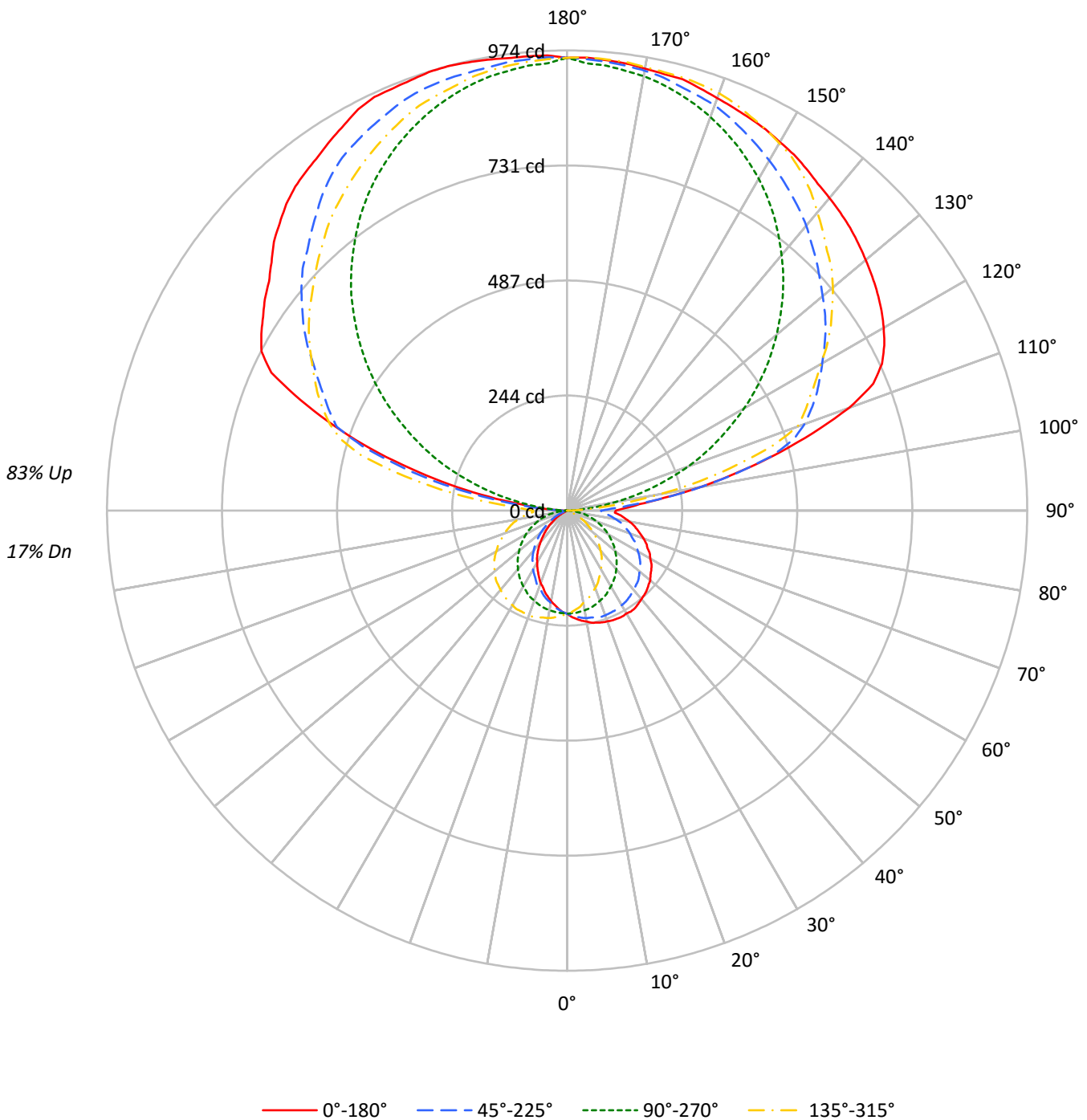
**Summary**

Lumens per Lamp: 4500 (1 lamp)  
Luminaire Lumens: 4220.9 lumens  
Efficiency: 93.8%  
Efficacy: 64.9 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.26 / 1.4  
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<sub>in</sub>): 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



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CATALOG NUMBER: AW-WO-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	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	93	93	93	93	82	82	82	82	61	61	61	42	42	42	24	24	24	16																												
1	84	80	77	73	74	71	68	65	53	51	49	36	35	34	21	20	19	12																												
2	77	70	64	60	67	61	57	53	46	43	40	31	29	28	18	17	16	10																												
3	70	61	55	49	61	54	48	44	40	36	33	27	25	23	16	15	13	8																												
4	64	54	47	41	56	48	42	37	35	31	28	24	22	20	14	13	11	7																												
5	58	48	40	35	51	42	36	31	32	27	24	22	19	17	12	11	10	6																												
6	53	43	35	30	47	38	31	27	28	24	21	19	17	15	11	10	9	5																												
7	49	38	31	26	43	34	28	23	25	21	18	18	15	13	10	9	8	5																												
8	45	34	28	23	40	31	25	20	23	19	16	16	13	11	9	8	7	4																												
9	42	31	25	20	37	28	22	18	21	17	14	15	12	10	9	7	6	4																												
10	39	28	22	18	34	25	20	16	19	15	12	13	11	9	8	6	5	3																												

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	4124	4124	4124	4124
5°	4354	3952	3946	3952
10°	4547	3791	3718	3791
15°	4763	3648	3487	3648
20°	4962	3480	3250	3480
25°	5178	3342	2982	3342
30°	5386	3175	2716	3175
35°	5674	3021	2459	3021
40°	5884	2858	2118	2858
45°	6181	2680	1761	2680
50°	6512	2492	1401	2492
55°	6867	2292	1007	2292
60°	7288	2085	506	2085
65°	7880	1844	151	1844
70°	8758	1591	224	1591
75°	10052	1271	190	1271
80°	12444	906	46	906
85°	18248	368	81	368



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	20.6	0.5	0.5
10°-20°	59.4	1.4	1.3
20°-30°	90.6	2.1	2.0
30°-40°	110.6	2.6	2.5
40°-50°	116.3	2.8	2.6
50°-60°	108.4	2.6	2.4
60°-70°	90.2	2.1	2.0
70°-80°	70.9	1.7	1.6
80°-90°	48.3	1.1	1.1
90°-100°	115.3	2.7	2.6
100°-110°	367.6	8.7	8.2
110°-120°	545.4	12.9	12.1
120°-130°	593.6	14.1	13.2
130°-140°	586.0	13.9	13.0
140°-150°	525.7	12.5	11.7
150°-160°	415.5	9.8	9.2
160°-170°	265.4	6.3	5.9
170°-180°	91.0	2.2	2.0
0°-30°	170.6	4.0	3.8
0°-40°	281.2	6.7	6.2
0°-60°	505.9	12.0	11.2
0°-90°	715.3	16.9	15.9
90°-120°	1028.3	24.4	22.9
90°-150°	2733.7	64.8	60.7
90°-180°	3506.0	83.1	77.9
0°-180°	4220.9	100.0	93.8

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	218	218	218	218	218	
5°	230	217	209	217	230	22
15°	246	210	180	210	246	70
25°	252	196	145	196	252	117
35°	251	174	109	174	251	157
45°	238	148	68	148	238	184
55°	218	117	32	117	218	194
65°	188	83	4	83	188	187
75°	153	48	3	48	153	162
85°	113	11	0	11	113	96
90°	103	0	0	0	103	59
95°	153	31	54	31	153	154
105°	454	187	342	187	454	481
115°	735	353	691	353	735	718
125°	802	508	781	508	802	718
135°	847	646	860	646	847	655
145°	883	762	917	762	883	554
155°	916	852	966	852	916	423
165°	945	914	974	914	945	267
175°	957	945	965	945	957	91
180°	958	958	958	958	958	



TEST NUMBER: 19089  
 CATALOG NUMBER: AW-WO-1T5

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	218.4	218.4	218.4	218.4	218.4	218.4	218.4	218.4	218.4	218.4	218.4
2.5°	225.4	222.4	222.4	222.4	217.4	213.4	215.1	211.8	215.1	211.8	215.1
5°	230.3	226.3	225.4	224.8	217.1	207.9	210.3	203.9	208.7	203.9	210.3
7.5°	235.1	229.6	228.7	227.8	215.4	203.9	205.5	198.2	201.5	198.2	205.5
10°	238.4	234.4	231.1	231.1	214.2	199.1	198.2	192.5	194.9	192.5	198.2
12.5°	243.2	237.5	232.0	233.5	212.3	191.9	193.4	185.3	187.0	185.3	193.4
15°	245.6	240.8	233.5	234.4	210.3	185.3	187.7	178.0	179.8	178.0	187.7
17.5°	248.0	244.1	236.0	235.1	206.7	179.8	179.8	168.4	170.1	168.4	179.8
20°	249.6	245.6	236.0	236.0	203.0	172.5	174.1	160.5	163.5	160.5	174.1
22.5°	251.3	247.1	235.1	235.1	199.8	165.3	167.7	153.2	154.8	153.2	167.7
25°	252.0	248.0	234.4	235.1	195.8	157.2	158.7	144.2	145.1	144.2	158.7
27.5°	252.9	247.1	234.4	234.4	190.2	147.5	151.5	135.5	136.3	135.5	151.5
30°	251.3	247.1	231.1	232.7	185.4	141.8	144.2	126.7	126.7	126.7	144.2
32.5°	252.9	247.1	229.6	230.3	180.1	133.0	134.8	117.0	118.6	117.0	134.8
35°	251.3	245.6	226.3	228.7	174.5	125.1	128.2	108.2	108.9	108.2	128.2
37.5°	248.0	243.2	223.0	226.3	168.5	115.5	119.4	97.7	98.6	97.7	119.4
40°	244.7	240.8	219.1	221.5	162.0	107.4	109.8	88.1	88.1	88.1	109.8
42.5°	241.7	236.0	215.1	217.5	154.8	97.7	101.0	76.9	77.5	76.9	101.0
45°	238.4	233.5	211.8	212.7	147.9	89.6	92.9	67.9	67.9	67.9	92.9
47.5°	233.5	228.7	206.3	207.9	140.3	79.3	81.7	58.4	58.4	58.4	81.7
50°	229.6	223.0	199.8	202.2	132.7	69.6	72.7	48.8	49.4	48.8	72.7
52.5°	222.4	218.2	194.9	196.7	125.5	60.0	63.3	41.5	39.1	41.5	63.3
55°	217.5	211.8	188.6	189.4	116.7	50.3	52.7	33.4	31.9	33.4	52.7
57.5°	211.8	207.0	181.3	184.6	108.6	43.1	45.5	24.6	22.2	24.6	45.5
60°	203.0	199.1	173.2	175.6	100.5	33.4	36.7	15.6	14.1	15.6	36.7
62.5°	197.3	191.9	166.0	169.2	92.1	25.3	28.6	6.9	6.0	6.9	28.6
65°	187.7	184.6	158.7	161.1	83.2	18.1	20.5	4.4	3.6	4.4	20.5
67.5°	181.3	176.5	148.4	153.2	73.9	9.3	12.6	3.6	4.4	3.6	12.6
70°	171.7	168.4	141.8	145.1	66.3	5.3	6.9	2.9	4.4	2.9	6.9
72.5°	162.0	158.7	133.0	137.2	57.6	3.6	4.4	2.9	3.6	2.9	4.4
75°	153.2	149.1	124.3	128.2	48.2	3.6	3.6	2.9	2.9	2.9	3.6
77.5°	144.2	139.4	115.5	118.6	39.0	2.9	2.0	2.0	2.9	2.0	2.0
80°	133.9	131.5	104.1	110.7	30.7	1.2	2.9	2.0	0.5	2.0	2.9
82.5°	122.7	121.0	94.4	97.7	20.6	1.2	2.0	0.5	0.5	0.5	2.0
85°	113.1	110.7	83.2	87.2	10.9	0.5	1.2	1.2	0.5	1.2	1.2
87.5°	101.0	100.1	72.0	76.9	2.0	0.5	0.5	1.2	0.5	1.2	0.5
90°	103.0	93.1	71.8	53.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	123.4	125.8	94.4	84.8	9.3	9.3	22.2	6.0	21.3	6.0	22.2
95°	153.2	169.2	137.2	145.1	31.3	51.2	56.7	40.7	53.6	40.7	56.7
97.5°	207.0	242.3	207.9	213.4	67.1	117.9	121.8	76.0	93.8	76.0	121.8
100°	285.8	367.8	287.3	273.0	103.7	191.9	199.8	146.0	167.7	146.0	199.8
102.5°	366.1	408.0	367.8	286.6	144.3	223.9	287.3	184.6	255.3	184.6	287.3
105°	454.5	494.9	450.6	314.7	186.6	289.7	370.9	318.0	342.2	318.0	370.9
107.5°	544.7	583.1	502.8	346.1	229.0	318.7	454.5	403.2	437.0	403.2	454.5
110°	634.7	646.7	534.2	377.5	272.9	351.8	518.8	494.0	524.5	494.0	518.8



TEST NUMBER: 19089  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	701.4	679.7	559.2	408.0	313.5	398.3	543.8	581.6	610.5	581.6	543.8
115°	735.2	703.8	582.5	440.9	352.6	435.2	566.4	654.0	690.9	654.0	566.4
117.5°	756.9	723.1	602.4	471.4	392.3	476.2	592.8	685.4	729.5	685.4	592.8
120°	773.8	740.7	623.5	505.2	432.5	506.1	620.2	704.7	747.3	704.7	620.2
122.5°	788.9	763.3	645.9	552.6	471.1	542.3	652.2	723.1	763.3	723.1	652.2
125°	801.9	770.5	667.6	568.8	508.1	557.4	681.2	731.9	781.0	731.9	681.2
127.5°	814.0	784.1	687.8	598.5	544.2	614.5	707.1	761.7	795.5	761.7	707.1
130°	825.2	798.6	706.2	627.4	578.7	646.7	734.3	786.5	817.0	786.5	734.3
132.5°	836.3	811.5	725.5	657.9	612.5	674.8	759.3	811.5	842.1	811.5	759.3
135°	846.9	822.7	746.4	686.0	646.0	701.4	777.8	832.4	860.5	832.4	777.8
137.5°	855.7	833.3	765.7	715.9	676.9	727.9	801.0	852.6	879.8	852.6	801.0
140°	863.8	844.5	787.4	742.4	706.2	753.6	824.3	868.6	895.2	868.6	824.3
142.5°	871.7	857.4	805.8	769.0	734.6	777.8	848.4	880.7	906.3	880.7	848.4
145°	883.1	875.8	822.7	805.0	762.5	802.6	868.6	895.2	916.9	895.2	868.6
147.5°	893.4	878.9	839.6	814.6	787.7	814.6	886.2	901.5	930.5	901.5	886.2
150°	900.6	890.3	855.7	834.8	811.0	843.6	898.2	926.5	943.2	926.5	898.2
152.5°	909.6	898.2	871.0	852.6	832.0	860.5	909.6	941.0	957.7	941.0	909.6
155°	916.0	907.9	885.5	871.7	852.1	875.0	920.0	948.0	965.8	948.0	920.0
157.5°	922.4	916.9	900.0	888.6	869.8	891.0	931.4	952.9	966.7	952.9	931.4
160°	928.9	925.7	912.7	903.1	886.7	903.9	940.1	956.2	969.1	956.2	940.1
162.5°	936.8	935.3	920.8	916.0	901.2	916.0	945.0	961.0	973.1	961.0	945.0
165°	945.0	939.3	928.9	927.2	913.9	926.5	948.9	965.8	973.9	965.8	948.9
167.5°	946.5	947.4	939.3	940.1	924.9	936.2	950.5	964.3	971.5	964.3	950.5
170°	949.8	948.9	945.6	943.2	933.7	940.1	952.9	964.3	969.1	964.3	952.9
172.5°	954.6	952.9	949.8	949.8	939.3	950.5	957.7	961.9	965.8	961.9	957.7
175°	957.0	954.6	953.7	953.7	945.3	955.3	958.6	961.9	964.9	961.9	958.6
177.5°	959.5	957.7	956.2	957.7	947.4	957.7	960.1	961.9	964.3	961.9	960.1
180°	958.3	958.3	958.3	958.3	958.3	958.3	958.3	958.3	958.3	958.3	958.3



TEST NUMBER: 19089  
 CATALOG NUMBER: AW-WO-1T5

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	218.4	218.4	218.4	218.4	218.4	218.4
2.5°	213.4	217.4	222.4	222.4	222.4	225.4
5°	207.9	217.1	224.8	225.4	226.3	230.3
7.5°	203.9	215.4	227.8	228.7	229.6	235.1
10°	199.1	214.2	231.1	231.1	234.4	238.4
12.5°	191.9	212.3	233.5	232.0	237.5	243.2
15°	185.3	210.3	234.4	233.5	240.8	245.6
17.5°	179.8	206.7	235.1	236.0	244.1	248.0
20°	172.5	203.0	236.0	236.0	245.6	249.6
22.5°	165.3	199.8	235.1	235.1	247.1	251.3
25°	157.2	195.8	235.1	234.4	248.0	252.0
27.5°	147.5	190.2	234.4	234.4	247.1	252.9
30°	141.8	185.4	232.7	231.1	247.1	251.3
32.5°	133.0	180.1	230.3	229.6	247.1	252.9
35°	125.1	174.5	228.7	226.3	245.6	251.3
37.5°	115.5	168.5	226.3	223.0	243.2	248.0
40°	107.4	162.0	221.5	219.1	240.8	244.7
42.5°	97.7	154.8	217.5	215.1	236.0	241.7
45°	89.6	147.9	212.7	211.8	233.5	238.4
47.5°	79.3	140.3	207.9	206.3	228.7	233.5
50°	69.6	132.7	202.2	199.8	223.0	229.6
52.5°	60.0	125.5	196.7	194.9	218.2	222.4
55°	50.3	116.7	189.4	188.6	211.8	217.5
57.5°	43.1	108.6	184.6	181.3	207.0	211.8
60°	33.4	100.5	175.6	173.2	199.1	203.0
62.5°	25.3	92.1	169.2	166.0	191.9	197.3
65°	18.1	83.2	161.1	158.7	184.6	187.7
67.5°	9.3	73.9	153.2	148.4	176.5	181.3
70°	5.3	66.3	145.1	141.8	168.4	171.7
72.5°	3.6	57.6	137.2	133.0	158.7	162.0
75°	3.6	48.2	128.2	124.3	149.1	153.2
77.5°	2.9	39.0	118.6	115.5	139.4	144.2
80°	1.2	30.7	110.7	104.1	131.5	133.9
82.5°	1.2	20.6	97.7	94.4	121.0	122.7
85°	0.5	10.9	87.2	83.2	110.7	113.1
87.5°	0.5	2.0	76.9	72.0	100.1	101.0
90°	0.5	0.5	53.8	71.8	93.1	103.0
92.5°	9.3	9.3	84.8	94.4	125.8	123.4
95°	51.2	31.3	145.1	137.2	169.2	153.2
97.5°	117.9	67.1	213.4	207.9	242.3	207.0
100°	191.9	103.7	273.0	287.3	367.8	285.8
102.5°	223.9	144.3	286.6	367.8	408.0	366.1
105°	289.7	186.6	314.7	450.6	494.9	454.5
107.5°	318.7	229.0	346.1	502.8	583.1	544.7
110°	351.8	272.9	377.5	534.2	646.7	634.7





TEST NUMBER: 19089  
 CATALOG NUMBER: AW-WO-1T5

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	398.3	313.5	408.0	559.2	679.7	701.4
115°	435.2	352.6	440.9	582.5	703.8	735.2
117.5°	476.2	392.3	471.4	602.4	723.1	756.9
120°	506.1	432.5	505.2	623.5	740.7	773.8
122.5°	542.3	471.1	552.6	645.9	763.3	788.9
125°	557.4	508.1	568.8	667.6	770.5	801.9
127.5°	614.5	544.2	598.5	687.8	784.1	814.0
130°	646.7	578.7	627.4	706.2	798.6	825.2
132.5°	674.8	612.5	657.9	725.5	811.5	836.3
135°	701.4	646.0	686.0	746.4	822.7	846.9
137.5°	727.9	676.9	715.9	765.7	833.3	855.7
140°	753.6	706.2	742.4	787.4	844.5	863.8
142.5°	777.8	734.6	769.0	805.8	857.4	871.7
145°	802.6	762.5	805.0	822.7	875.8	883.1
147.5°	814.6	787.7	814.6	839.6	878.9	893.4
150°	843.6	811.0	834.8	855.7	890.3	900.6
152.5°	860.5	832.0	852.6	871.0	898.2	909.6
155°	875.0	852.1	871.7	885.5	907.9	916.0
157.5°	891.0	869.8	888.6	900.0	916.9	922.4
160°	903.9	886.7	903.1	912.7	925.7	928.9
162.5°	916.0	901.2	916.0	920.8	935.3	936.8
165°	926.5	913.9	927.2	928.9	939.3	945.0
167.5°	936.2	924.9	940.1	939.3	947.4	946.5
170°	940.1	933.7	943.2	945.6	948.9	949.8
172.5°	950.5	939.3	949.8	949.8	952.9	954.6
175°	955.3	945.3	953.7	953.7	954.6	957.0
177.5°	957.7	947.4	957.7	956.2	957.7	959.5
180°	958.3	958.3	958.3	958.3	958.3	958.3

(END OF REPORT)