

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: 19093

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 19093
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AW-WB-1T5
Description: CLASS A DIRECT/INDIRECT WALL LUMINAIRE WITH WHITE INTERIOR AND WHITE
18 CELL PERF BAFFLE
Light Source: ONE SYLVANIA 54 WATT T5 LAMP

FP54/841HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

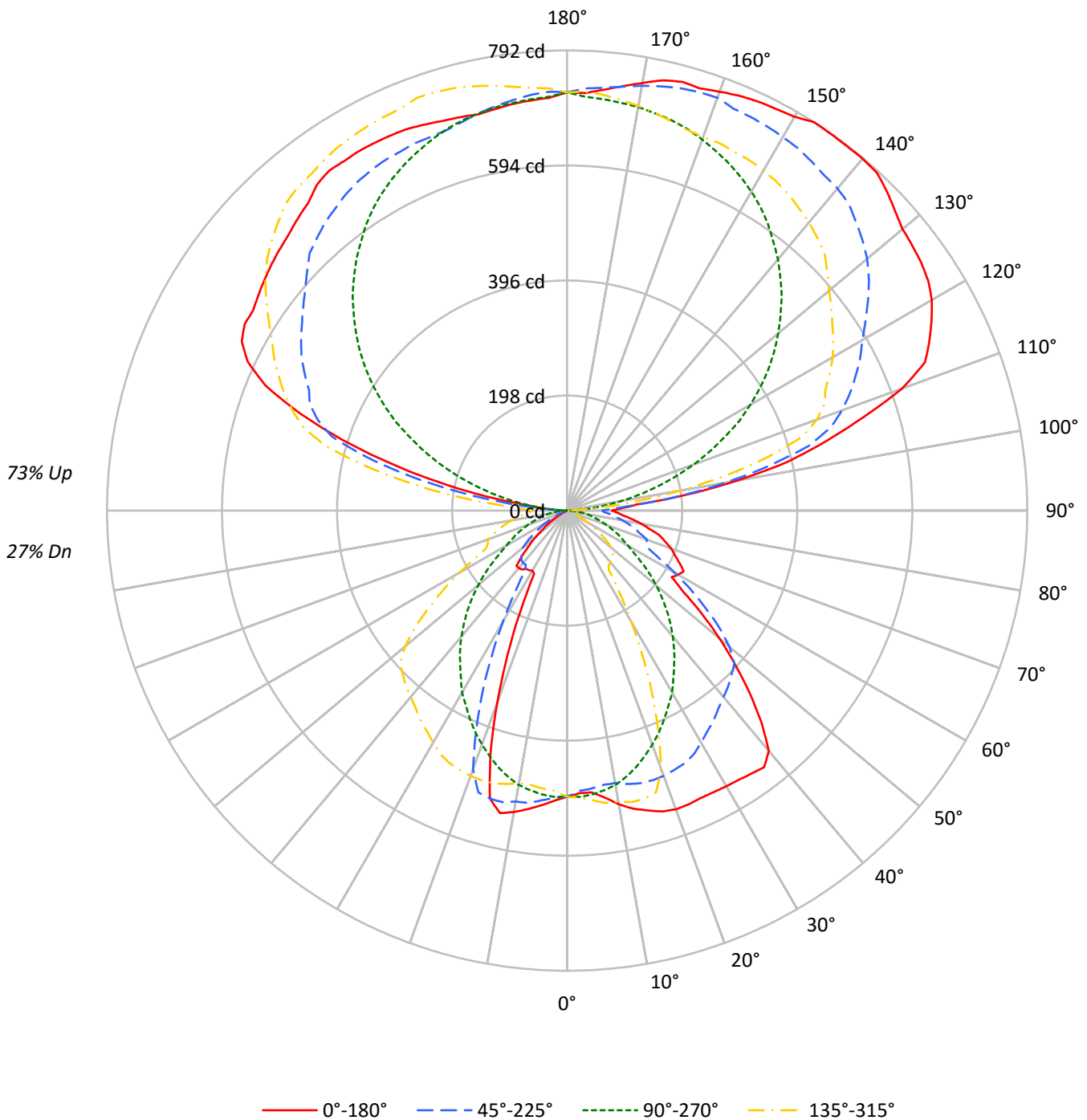
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 4119.5 lumens
Efficiency: 91.5%
Efficacy: 63.4 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.11 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.19' x L: 3' x H: 0.09')
CIE Type: Semi-Indirect

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: 19093
CATALOG NUMBER: AW-WB-1T5

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	0														
RCR																																						
0	93	93	93	93	83	83	83	83	65	65	65	48	48	48	32	32	32	25																				
1	85	81	77	74	76	72	70	67	56	55	53	42	41	40	28	28	27	21																				
2	77	71	65	61	69	63	59	55	50	47	44	37	35	33	25	24	23	18																				
3	71	62	56	51	63	56	50	46	44	40	37	33	30	28	22	21	20	15																				
4	65	55	48	43	57	50	44	39	39	35	32	29	26	24	20	18	17	13																				
5	59	49	42	37	53	44	38	34	35	31	27	26	23	21	18	16	15	12																				
6	54	44	37	32	49	40	34	29	31	27	24	24	21	18	17	15	13	10																				
7	50	40	33	28	45	36	30	25	28	24	21	22	19	16	15	13	12	9																				
8	47	36	29	24	42	32	27	22	26	22	18	20	17	15	14	12	11	8																				
9	43	33	26	22	39	30	24	20	24	19	16	18	15	13	13	11	10	8																				
10	40	30	24	19	36	27	22	18	22	18	15	17	14	12	12	10	9	7																				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9299	9299	9299	9299
5°	9204	8926	9627	8926
10°	9791	8486	10050	8486
15°	10360	7935	9955	7935
20°	10876	7345	6976	7345
25°	11207	6750	3843	6750
30°	11742	6188	2559	6188
35°	12477	5560	2770	5560
40°	12982	4992	3104	4992
45°	11517	4386	2805	4386
50°	9706	3744	1994	3744
55°	7706	3081	1285	3081
60°	7920	2502	474	2502
65°	8959	2121	151	2121
70°	9697	1718	224	1718
75°	10787	1315	33	1315
80°	11998	985	46	985
85°	15618	466	81	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	47.2	1.1	1.0
10°-20°	136.8	3.3	3.0
20°-30°	181.8	4.4	4.0
30°-40°	199.7	4.8	4.4
40°-50°	197.6	4.8	4.4
50°-60°	148.0	3.6	3.3
60°-70°	101.2	2.5	2.2
70°-80°	68.6	1.7	1.5
80°-90°	40.2	1.0	0.9
90°-100°	104.2	2.5	2.3
100°-110°	348.9	8.5	7.8
110°-120°	495.5	12.0	11.0
120°-130°	521.0	12.6	11.6
130°-140°	497.6	12.1	11.1
140°-150°	431.3	10.5	9.6
150°-160°	327.8	8.0	7.3
160°-170°	203.5	4.9	4.5
170°-180°	68.7	1.7	1.5
0°-30°	365.7	8.9	8.1
0°-40°	565.4	13.7	12.6
0°-60°	911.0	22.1	20.2
0°-90°	1121.0	27.2	24.9
90°-120°	948.6	23.0	21.1
90°-150°	2398.5	58.2	53.3
90°-180°	2999.0	72.8	66.6
0°-180°	4119.5	100.0	91.5

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	492	492	492	492	492	
5°	487	490	509	490	487	47
15°	534	457	513	457	534	152
25°	545	396	187	396	545	253
35°	553	321	123	321	553	346
45°	444	242	108	242	444	341
55°	244	157	41	157	244	230
65°	213	96	4	96	213	210
75°	164	50	0	50	164	170
85°	97	14	0	14	97	86
90°	77	1	0	1	77	46
95°	120	35	32	35	120	142
105°	461	161	316	161	461	485
115°	688	298	607	298	688	677
125°	744	422	648	422	744	666
135°	778	522	676	522	778	600
145°	791	602	714	602	791	496
155°	777	659	714	659	777	359
165°	764	695	701	695	764	216
175°	727	711	709	711	727	70
180°	720	720	720	720	720	



TEST NUMBER: 19093
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4
2.5°	486.8	484.4	482.8	491.6	493.3	497.3	494.9	497.3	499.7	497.3	494.9
5°	486.8	481.1	480.4	485.9	490.4	499.7	500.4	506.7	509.2	506.7	500.4
7.5°	498.0	482.0	476.2	480.4	485.6	498.8	507.6	514.9	518.2	514.9	507.6
10°	513.3	494.0	476.2	472.3	479.5	499.7	508.5	522.1	526.9	522.1	508.5
12.5°	525.4	504.3	482.0	465.1	469.4	494.9	514.0	526.9	533.3	526.9	514.0
15°	534.2	515.7	485.9	453.0	457.4	486.8	513.3	498.8	513.3	498.8	513.3
17.5°	543.0	522.1	486.8	444.9	443.3	477.1	508.5	428.8	438.5	428.8	508.5
20°	547.1	528.5	485.9	436.1	428.5	465.1	473.2	346.1	350.9	346.1	473.2
22.5°	547.1	528.5	482.8	428.8	412.8	450.6	408.9	265.8	265.8	265.8	408.9
25°	545.4	524.5	479.5	420.1	395.5	432.8	345.2	188.6	187.0	188.6	345.2
27.5°	546.2	520.6	472.3	409.5	377.8	411.3	279.4	121.0	122.7	121.0	279.4
30°	547.8	518.2	461.1	399.9	361.4	385.4	220.6	117.0	119.4	117.0	220.6
32.5°	549.5	514.9	449.7	387.8	340.4	342.8	168.4	120.3	121.8	120.3	168.4
35°	552.6	514.0	440.0	376.6	321.2	298.7	125.1	121.0	122.7	121.0	125.1
37.5°	556.8	511.6	428.2	362.1	302.7	252.0	117.0	122.7	127.6	122.7	117.0
40°	539.9	511.6	418.5	347.0	283.0	215.1	117.9	124.3	129.1	124.3	117.9
42.5°	494.9	498.8	410.4	332.5	262.5	179.8	116.1	123.4	129.1	123.4	116.1
45°	444.2	460.2	399.9	314.7	242.0	150.8	111.3	107.4	108.2	107.4	111.3
47.5°	392.0	413.7	390.2	298.7	221.0	124.3	107.4	87.2	88.1	87.2	107.4
50°	342.2	363.7	364.5	280.3	199.4	108.2	100.1	68.7	70.3	68.7	100.1
52.5°	292.1	318.7	329.2	264.9	179.2	103.4	85.6	54.3	52.7	54.3	85.6
55°	244.1	272.2	289.1	247.1	156.9	93.8	70.3	40.7	40.7	40.7	70.3
57.5°	213.4	234.4	251.3	232.7	137.1	84.1	56.0	28.6	27.1	28.6	56.0
60°	220.6	194.9	212.7	212.7	120.6	71.2	43.1	17.4	13.2	17.4	43.1
62.5°	226.3	194.3	179.8	199.8	107.4	60.8	32.5	9.3	6.9	9.3	32.5
65°	213.4	199.8	153.9	179.8	95.7	49.4	21.3	4.4	3.6	4.4	21.3
67.5°	200.6	189.4	147.5	154.8	83.2	38.2	14.1	3.6	4.4	3.6	14.1
70°	190.1	176.5	146.0	130.0	71.6	28.6	6.9	3.6	4.4	3.6	6.9
72.5°	176.5	164.4	131.5	108.2	60.7	17.4	5.3	3.6	3.6	3.6	5.3
75°	164.4	153.2	121.0	92.0	49.9	10.2	3.6	2.9	0.5	2.9	3.6
77.5°	144.2	139.4	108.9	80.8	41.5	6.0	2.9	2.9	0.5	2.9	2.9
80°	129.1	122.7	96.8	72.0	33.4	2.9	0.5	2.0	0.5	2.0	0.5
82.5°	112.2	109.8	84.1	61.5	23.0	2.0	2.9	1.2	0.5	1.2	2.9
85°	96.8	97.7	75.1	52.7	13.8	0.5	2.0	1.2	0.5	1.2	2.0
87.5°	87.2	85.6	63.9	43.1	3.7	0.5	1.2	0.5	0.5	0.5	1.2
90°	77.1	75.5	60.4	36.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	93.8	97.7	77.5	77.5	10.9	7.7	16.5	2.9	11.7	2.9	16.5
95°	120.3	144.2	122.7	140.3	34.6	47.0	43.1	27.1	31.9	27.1	43.1
97.5°	205.5	227.8	199.1	204.6	62.4	117.0	117.0	55.1	63.9	55.1	117.0
100°	296.3	354.2	277.0	261.6	94.1	187.0	197.3	132.4	141.2	132.4	197.3
102.5°	389.6	395.9	355.8	275.5	127.9	212.7	280.9	171.7	227.8	171.7	280.9
105°	461.1	479.5	430.4	303.5	160.8	261.6	358.8	308.4	315.6	308.4	358.8
107.5°	534.2	559.9	475.6	332.5	196.2	289.1	424.9	395.1	406.5	395.1	424.9
110°	613.0	610.5	502.8	368.5	231.1	314.7	456.9	474.7	489.2	474.7	456.9



TEST NUMBER: 19093
 CATALOG NUMBER: AW-WB-1T5

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	666.7	633.8	526.9	404.0	265.4	342.2	479.5	544.7	562.3	544.7	479.5
115°	687.8	658.8	547.8	437.0	298.2	367.8	490.1	571.3	606.6	571.3	490.1
117.5°	707.1	676.4	568.8	467.5	333.6	395.9	509.2	601.8	631.4	601.8	509.2
120°	724.7	690.9	586.4	498.0	363.7	424.0	527.8	605.7	641.0	605.7	527.8
122.5°	736.7	708.6	609.0	535.1	393.8	447.3	543.0	612.1	641.0	612.1	543.0
125°	744.0	713.5	632.3	543.0	422.5	457.8	557.4	615.4	648.3	615.4	557.4
127.5°	748.8	723.1	654.6	560.7	448.9	491.6	572.8	629.9	655.5	629.9	572.8
130°	753.6	738.3	674.0	576.1	474.4	510.0	588.8	638.6	662.8	638.6	588.8
132.5°	764.8	756.0	689.3	592.8	498.1	528.5	607.2	646.7	669.1	646.7	607.2
135°	777.8	766.6	702.9	610.5	522.1	549.5	626.6	654.6	675.7	654.6	626.6
137.5°	788.9	771.4	716.8	625.9	543.1	565.6	637.1	663.6	684.5	663.6	637.1
140°	790.7	774.5	723.8	640.4	564.3	582.5	647.6	674.0	692.6	674.0	647.6
142.5°	790.7	779.3	727.1	655.5	583.1	596.9	655.5	690.9	707.1	690.9	655.5
145°	791.4	778.6	733.4	679.7	602.4	612.1	664.3	695.0	714.3	695.0	664.3
147.5°	792.2	775.3	739.1	686.0	619.4	616.9	670.9	696.6	713.5	696.6	670.9
150°	782.6	773.8	742.4	696.6	633.9	634.7	675.7	699.9	715.0	699.9	675.7
152.5°	779.3	772.0	745.5	704.7	647.1	645.2	679.7	700.5	714.3	700.5	679.7
155°	776.9	769.6	747.3	712.6	659.1	657.1	681.2	702.3	713.5	702.3	681.2
157.5°	772.9	766.6	748.8	719.2	669.6	668.5	684.5	701.4	711.9	701.4	684.5
160°	767.2	760.9	756.0	723.8	679.7	676.4	684.5	699.9	707.8	699.9	684.5
162.5°	761.7	762.4	755.2	727.1	688.4	685.4	686.9	699.0	703.8	699.0	686.9
165°	764.1	760.9	752.7	727.9	695.4	692.6	693.3	696.6	701.4	696.6	693.3
167.5°	758.4	747.9	747.9	727.9	700.2	699.0	700.5	697.4	699.0	697.4	700.5
170°	747.3	744.0	742.4	727.1	705.0	701.4	707.1	699.0	702.3	699.0	707.1
172.5°	736.7	735.8	735.8	727.1	707.8	710.2	712.6	707.1	706.2	707.1	712.6
175°	727.1	727.1	730.4	727.1	710.7	716.8	718.3	711.0	708.6	711.0	718.3
177.5°	719.2	721.6	727.1	725.5	713.0	721.6	721.6	715.0	711.0	715.0	721.6
180°	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7	719.7



TEST NUMBER: 19093
 CATALOG NUMBER: AW-WB-1T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	492.4	492.4	492.4	492.4	492.4	492.4
2.5°	497.3	493.3	491.6	482.8	484.4	486.8
5°	499.7	490.4	485.9	480.4	481.1	486.8
7.5°	498.8	485.6	480.4	476.2	482.0	498.0
10°	499.7	479.5	472.3	476.2	494.0	513.3
12.5°	494.9	469.4	465.1	482.0	504.3	525.4
15°	486.8	457.4	453.0	485.9	515.7	534.2
17.5°	477.1	443.3	444.9	486.8	522.1	543.0
20°	465.1	428.5	436.1	485.9	528.5	547.1
22.5°	450.6	412.8	428.8	482.8	528.5	547.1
25°	432.8	395.5	420.1	479.5	524.5	545.4
27.5°	411.3	377.8	409.5	472.3	520.6	546.2
30°	385.4	361.4	399.9	461.1	518.2	547.8
32.5°	342.8	340.4	387.8	449.7	514.9	549.5
35°	298.7	321.2	376.6	440.0	514.0	552.6
37.5°	252.0	302.7	362.1	428.2	511.6	556.8
40°	215.1	283.0	347.0	418.5	511.6	539.9
42.5°	179.8	262.5	332.5	410.4	498.8	494.9
45°	150.8	242.0	314.7	399.9	460.2	444.2
47.5°	124.3	221.0	298.7	390.2	413.7	392.0
50°	108.2	199.4	280.3	364.5	363.7	342.2
52.5°	103.4	179.2	264.9	329.2	318.7	292.1
55°	93.8	156.9	247.1	289.1	272.2	244.1
57.5°	84.1	137.1	232.7	251.3	234.4	213.4
60°	71.2	120.6	212.7	212.7	194.9	220.6
62.5°	60.8	107.4	199.8	179.8	194.3	226.3
65°	49.4	95.7	179.8	153.9	199.8	213.4
67.5°	38.2	83.2	154.8	147.5	189.4	200.6
70°	28.6	71.6	130.0	146.0	176.5	190.1
72.5°	17.4	60.7	108.2	131.5	164.4	176.5
75°	10.2	49.9	92.0	121.0	153.2	164.4
77.5°	6.0	41.5	80.8	108.9	139.4	144.2
80°	2.9	33.4	72.0	96.8	122.7	129.1
82.5°	2.0	23.0	61.5	84.1	109.8	112.2
85°	0.5	13.8	52.7	75.1	97.7	96.8
87.5°	0.5	3.7	43.1	63.9	85.6	87.2
90°	0.5	0.6	36.5	60.4	75.5	77.1
92.5°	7.7	10.9	77.5	77.5	97.7	93.8
95°	47.0	34.6	140.3	122.7	144.2	120.3
97.5°	117.0	62.4	204.6	199.1	227.8	205.5
100°	187.0	94.1	261.6	277.0	354.2	296.3
102.5°	212.7	127.9	275.5	355.8	395.9	389.6
105°	261.6	160.8	303.5	430.4	479.5	461.1
107.5°	289.1	196.2	332.5	475.6	559.9	534.2
110°	314.7	231.1	368.5	502.8	610.5	613.0



TEST NUMBER: 19093
 CATALOG NUMBER: AW-WB-1T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	342.2	265.4	404.0	526.9	633.8	666.7
115°	367.8	298.2	437.0	547.8	658.8	687.8
117.5°	395.9	333.6	467.5	568.8	676.4	707.1
120°	424.0	363.7	498.0	586.4	690.9	724.7
122.5°	447.3	393.8	535.1	609.0	708.6	736.7
125°	457.8	422.5	543.0	632.3	713.5	744.0
127.5°	491.6	448.9	560.7	654.6	723.1	748.8
130°	510.0	474.4	576.1	674.0	738.3	753.6
132.5°	528.5	498.1	592.8	689.3	756.0	764.8
135°	549.5	522.1	610.5	702.9	766.6	777.8
137.5°	565.6	543.1	625.9	716.8	771.4	788.9
140°	582.5	564.3	640.4	723.8	774.5	790.7
142.5°	596.9	583.1	655.5	727.1	779.3	790.7
145°	612.1	602.4	679.7	733.4	778.6	791.4
147.5°	616.9	619.4	686.0	739.1	775.3	792.2
150°	634.7	633.9	696.6	742.4	773.8	782.6
152.5°	645.2	647.1	704.7	745.5	772.0	779.3
155°	657.1	659.1	712.6	747.3	769.6	776.9
157.5°	668.5	669.6	719.2	748.8	766.6	772.9
160°	676.4	679.7	723.8	756.0	760.9	767.2
162.5°	685.4	688.4	727.1	755.2	762.4	761.7
165°	692.6	695.4	727.9	752.7	760.9	764.1
167.5°	699.0	700.2	727.9	747.9	747.9	758.4
170°	701.4	705.0	727.1	742.4	744.0	747.3
172.5°	710.2	707.8	727.1	735.8	735.8	736.7
175°	716.8	710.7	727.1	730.4	727.1	727.1
177.5°	721.6	713.0	725.5	727.1	721.6	719.2
180°	719.7	719.7	719.7	719.7	719.7	719.7

(END OF REPORT)