

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: 14772

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 14772  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SW-WB-1T5  
Description: DIRECT INDIRECT BAFFLED WALL MOUNT LUMINAIRE WITH WHITE INTERIOR AND  
WHITE OPAL ACRYLIC LENS  
Light Source: ONE OSRAM 54 WATT FLUORESCENT LAMP  
FP54/841/HO. LUMEN RATING = 4500 LMS.  
Ballast/Driver: -

**Summary**

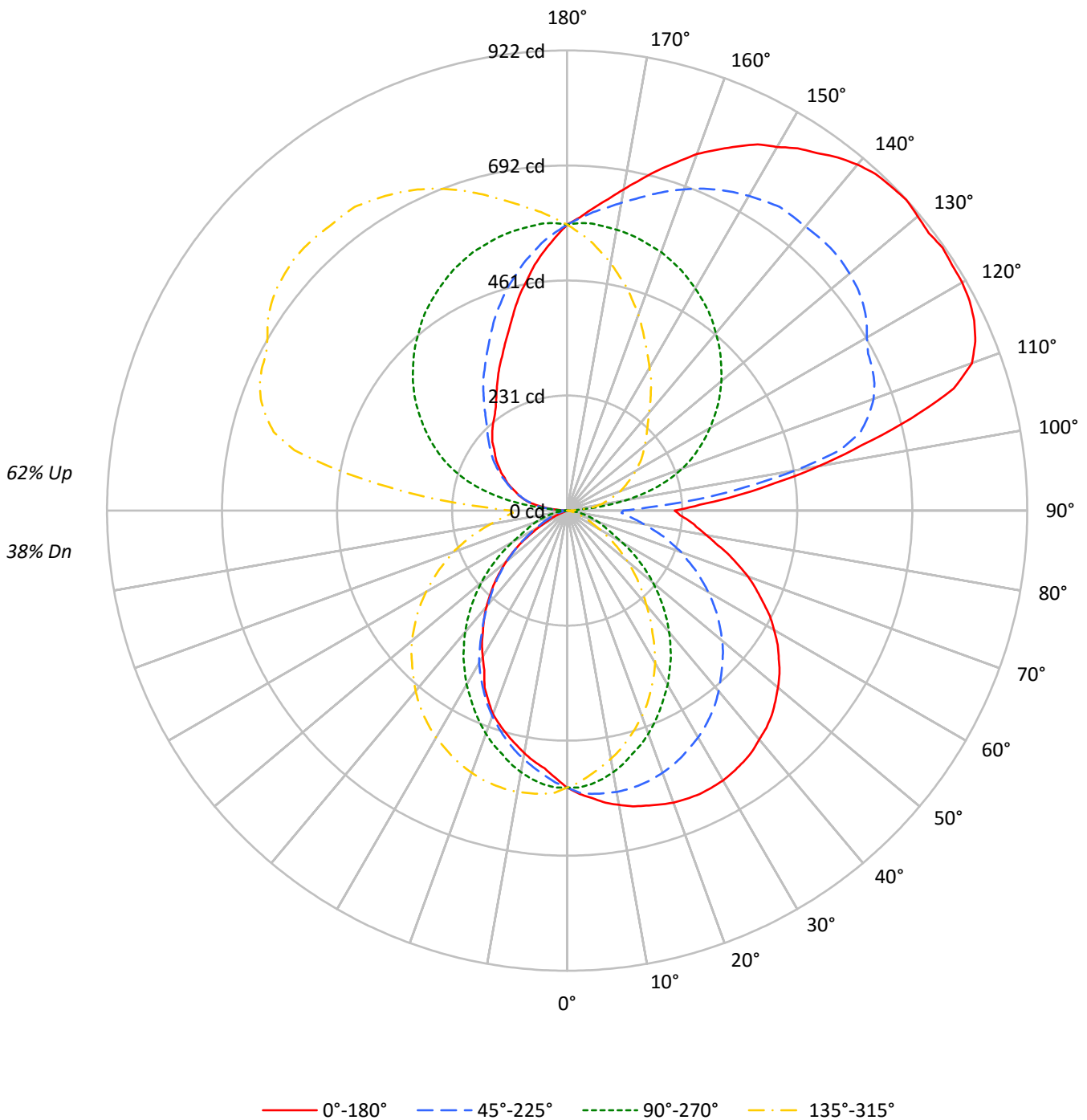
Lumens per Lamp: 4500 (1 lamp)  
Luminaire Lumens: 3927.2 lumens  
Efficiency: 87.3%  
Efficacy: 64.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.1 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4' x H: 0.16')  
CIE Type: Semi-Indirect

Input Watts (W): 61  
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: SW-WB-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	91	91	91	91	83	83	83	83	67	67	67	52	52	52	39	39	39	33																												
1	82	79	75	72	75	71	68	66	58	56	54	45	44	43	34	33	32	27																												
2	75	68	63	59	68	62	58	54	50	47	44	40	37	35	30	28	27	22																												
3	68	60	54	49	62	55	49	45	44	40	37	35	32	30	26	24	23	19																												
4	63	53	46	41	56	48	42	38	39	35	32	31	28	26	23	21	20	16																												
5	57	47	40	35	52	43	37	32	35	31	27	28	25	22	21	19	17	14																												
6	53	42	35	30	48	39	33	28	32	27	24	25	22	19	19	17	15	12																												
7	49	38	31	26	44	35	29	25	29	24	21	23	20	17	17	15	13	11																												
8	45	35	28	23	41	32	26	22	26	22	18	21	18	15	16	14	12	10																												
9	42	31	25	21	38	29	23	19	24	20	16	19	16	14	15	12	11	9																												
10	39	29	23	18	36	26	21	17	22	18	15	18	15	12	14	11	10	8																												

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

	0°	90°	180°	270°
0°	2988	2988	2988	2988
5°	3113	2892	2791	2892
10°	3250	2753	2679	2753
15°	3374	2589	2562	2589
20°	3515	2441	2451	2441
25°	3655	2275	2280	2275
30°	3793	2114	2053	2114
35°	3932	1944	1880	1944
40°	4070	1760	1708	1760
45°	4243	1568	1511	1568
50°	4408	1360	1273	1360
55°	4594	1133	995	1133
60°	4820	874	612	874
65°	5073	672	316	672
70°	5463	551	7	551
75°	6027	401	9	401
80°	7164	269	13	269
85°	10467	77	21	77



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	52.1	1.3	1.2
10°-20°	146.8	3.7	3.3
20°-30°	216.5	5.5	4.8
30°-40°	251.6	6.4	5.6
40°-50°	250.5	6.4	5.6
50°-60°	215.8	5.5	4.8
60°-70°	162.2	4.1	3.6
70°-80°	111.7	2.8	2.5
80°-90°	72.5	1.8	1.6
90°-100°	156.2	4.0	3.5
100°-110°	330.9	8.4	7.4
110°-120°	392.8	10.0	8.7
120°-130°	401.4	10.2	8.9
130°-140°	378.8	9.6	8.4
140°-150°	325.5	8.3	7.2
150°-160°	250.3	6.4	5.6
160°-170°	157.6	4.0	3.5
170°-180°	54.1	1.4	1.2
0°-30°	415.4	10.6	9.2
0°-40°	667.0	17.0	14.8
0°-60°	1133.2	28.9	25.2
0°-90°	1479.5	37.7	32.9
90°-120°	879.9	22.4	19.6
90°-150°	1985.6	50.6	44.1
90°-180°	2448.0	62.3	54.4
0°-180°	3927.2	100.0	87.3

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	555	555	555	555	555	
5°	578	550	518	550	578	56
15°	612	504	465	504	612	174
25°	627	440	391	440	627	290
35°	615	362	294	362	615	385
45°	580	272	206	272	580	447
55°	518	176	112	176	518	464
65°	432	89	27	89	432	429
75°	333	42	0	42	333	351
85°	247	6	0	6	247	209
90°	216	0	0	0	216	127
95°	339	33	22	33	339	312
105°	714	190	91	190	714	744
115°	900	290	133	290	900	889
125°	918	368	173	368	918	821
135°	918	435	212	435	918	710
145°	874	491	250	491	874	550
155°	805	535	320	535	805	373
165°	706	563	412	563	706	202
175°	609	577	523	577	609	59
180°	573	573	573	573	573	



TEST NUMBER: 14772  
 CATALOG NUMBER: SW-WB-1T5

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1
2.5°	568.3	565.8	565.8	559.0	555.4	546.6	545.0	533.5	535.9	533.5	545.0
5°	578.2	575.7	569.8	560.8	550.3	537.5	531.7	519.2	518.5	519.2	531.7
7.5°	590.6	583.2	571.4	557.4	542.5	523.5	518.5	507.0	507.0	507.0	518.5
10°	598.8	590.6	572.3	553.3	532.2	509.5	505.2	492.8	493.7	492.8	505.2
12.5°	607.1	594.7	571.4	545.0	520.1	494.6	490.3	480.4	478.8	480.4	490.3
15°	612.1	598.8	568.9	536.6	504.5	477.9	473.8	463.9	464.8	463.9	473.8
17.5°	617.7	601.2	564.9	528.5	491.7	460.5	456.4	446.5	449.9	446.5	456.4
20°	622.7	602.1	559.0	516.1	475.8	442.4	438.3	428.4	434.1	428.4	438.3
22.5°	625.2	601.2	552.4	503.6	458.5	422.5	419.1	406.7	412.6	406.7	419.1
25°	627.0	599.7	544.1	491.2	440.3	402.6	396.8	382.8	391.1	382.8	396.8
27.5°	626.1	595.4	534.1	476.3	420.5	382.8	375.3	353.8	359.7	353.8	375.3
30°	624.5	591.3	525.1	462.3	403.1	360.4	352.9	328.1	338.0	328.1	352.9
32.5°	620.2	584.7	513.6	447.4	381.5	338.0	325.6	304.1	317.5	304.1	325.6
35°	615.2	576.4	501.2	429.1	362.1	315.0	297.6	281.1	294.2	281.1	297.6
37.5°	608.7	567.3	487.8	411.7	339.8	290.8	273.6	258.7	273.6	258.7	273.6
40°	598.8	557.4	472.2	393.6	317.8	266.2	247.0	236.4	251.3	236.4	247.0
42.5°	590.6	545.0	455.5	374.4	295.0	241.3	224.6	214.0	228.0	214.0	224.6
45°	579.8	532.6	439.0	354.8	272.0	214.7	201.6	190.7	206.5	190.7	201.6
47.5°	565.8	517.6	423.4	335.5	247.9	189.1	179.2	167.7	182.6	167.7	179.2
50°	551.5	501.2	406.0	314.1	224.3	164.3	156.8	146.0	159.3	146.0	156.8
52.5°	536.6	485.3	386.2	292.6	200.3	140.3	135.4	125.4	137.0	125.4	135.4
55°	517.6	467.9	367.9	272.7	175.9	116.4	114.6	102.2	112.1	102.2	114.6
57.5°	500.2	448.1	347.3	248.8	151.4	96.5	93.1	80.7	83.2	80.7	93.1
60°	478.8	429.1	326.5	227.1	126.2	76.6	76.6	58.3	60.8	58.3	76.6
62.5°	458.0	406.7	305.0	205.6	104.3	62.6	60.1	45.2	43.4	45.2	60.1
65°	432.5	385.3	284.3	183.3	89.0	49.3	48.4	34.4	26.9	34.4	48.4
67.5°	409.2	362.2	261.9	161.8	76.6	39.4	36.9	25.4	12.9	25.4	36.9
70°	385.3	339.8	242.9	140.3	65.8	28.5	28.5	16.1	0.5	16.1	28.5
72.5°	357.9	316.6	219.6	121.4	55.1	20.4	20.4	12.9	0.5	12.9	20.4
75°	333.1	291.7	199.1	103.1	42.3	12.9	15.4	8.6	0.5	8.6	15.4
77.5°	305.0	267.8	175.8	88.2	33.5	8.0	10.4	6.1	0.5	6.1	10.4
80°	283.6	244.5	155.9	75.7	24.4	3.7	5.5	3.7	0.5	3.7	5.5
82.5°	263.7	229.6	137.9	64.2	15.4	0.5	3.7	2.1	0.5	2.1	3.7
85°	247.0	213.1	122.0	54.3	5.8	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	227.1	196.6	108.9	44.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	215.6	190.3	112.1	44.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	266.2	277.7	168.4	148.5	6.3	3.7	9.5	0.5	0.5	0.5	9.5
95°	338.9	354.8	265.3	223.0	33.1	27.8	30.3	17.9	22.0	17.9	30.3
97.5°	420.0	446.5	361.3	283.6	77.0	40.9	52.7	33.5	43.4	33.5	52.7
100°	512.0	542.5	464.8	311.6	119.6	55.2	66.7	56.8	61.7	56.8	66.7
102.5°	605.3	646.0	559.9	334.0	156.5	67.4	77.3	73.2	79.8	73.2	77.3
105°	713.7	759.4	608.7	357.2	189.6	79.1	89.7	85.7	90.6	85.7	89.7
107.5°	812.3	799.8	633.5	377.8	219.0	92.2	99.7	96.5	101.5	96.5	99.7
110°	862.9	824.7	653.4	402.6	245.4	104.7	113.0	108.0	109.6	108.0	113.0



TEST NUMBER: 14772  
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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°	885.2	839.6	666.5	425.9	268.6	119.6	123.9	118.9	121.4	118.9	123.9
115°	899.9	852.0	674.9	450.5	289.7	132.9	134.5	129.5	132.9	129.5	134.5
117.5°	909.2	856.1	679.9	467.3	310.4	146.0	146.9	139.4	141.0	139.4	146.9
120°	914.1	861.1	693.2	487.8	330.2	160.2	158.4	147.8	152.8	147.8	158.4
122.5°	914.8	862.9	711.3	507.0	349.3	185.8	170.2	160.9	161.8	160.9	170.2
125°	918.2	862.9	723.7	526.7	368.3	206.5	181.7	171.8	173.3	171.8	181.7
127.5°	913.2	872.8	733.0	544.1	386.5	228.0	192.5	181.7	181.7	181.7	192.5
130°	917.3	878.4	738.6	554.9	403.4	247.9	203.2	192.5	190.7	192.5	203.2
132.5°	921.6	880.3	743.6	566.4	418.8	262.8	214.7	200.0	203.2	200.0	214.7
135°	918.2	877.8	745.2	577.3	435.0	286.1	226.4	211.5	212.4	211.5	226.4
137.5°	914.8	868.5	744.5	587.2	450.2	305.7	239.5	221.5	221.5	221.5	239.5
140°	904.9	862.9	742.7	593.8	463.4	328.1	255.3	231.4	230.5	231.4	255.3
142.5°	891.8	851.1	742.7	599.7	478.4	343.9	273.6	241.3	238.9	241.3	273.6
145°	874.4	838.0	742.7	605.3	491.2	367.9	292.6	253.8	249.5	253.8	292.6
147.5°	860.4	823.1	735.4	608.7	502.4	386.8	312.5	270.3	264.4	270.3	312.5
150°	841.2	809.8	728.0	612.8	513.6	407.6	329.9	286.7	281.8	286.7	329.9
152.5°	827.2	797.3	719.6	613.7	524.2	425.0	349.8	306.6	300.1	306.6	349.8
155°	804.8	778.4	709.7	612.8	534.7	440.6	370.3	321.5	320.0	321.5	370.3
157.5°	782.4	758.5	698.2	611.2	542.5	461.4	393.6	344.8	338.0	344.8	393.6
160°	760.1	730.5	684.8	609.6	551.2	477.2	417.6	365.4	360.4	365.4	417.6
162.5°	732.0	711.3	670.8	607.8	556.6	492.8	439.0	392.7	383.7	392.7	439.0
165°	706.3	687.3	655.9	604.6	562.8	503.6	462.3	418.5	411.7	418.5	462.3
167.5°	679.0	664.9	640.1	602.8	567.8	521.0	481.3	445.6	441.5	445.6	481.3
170°	653.4	642.6	626.1	597.8	571.5	533.5	503.6	472.2	467.3	472.2	503.6
172.5°	629.5	622.7	612.1	592.9	574.0	545.0	521.7	497.1	497.1	497.1	521.7
175°	608.7	602.8	600.3	588.1	577.3	555.8	541.6	523.5	522.6	523.5	541.6
177.5°	588.1	585.6	586.3	581.4	576.8	564.0	557.4	542.5	547.5	542.5	557.4
180°	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8



TEST NUMBER: 14772  
 CATALOG NUMBER: SW-WB-1T5

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	555.1	555.1	555.1	555.1	555.1	555.1
2.5°	546.6	555.4	559.0	565.8	565.8	568.3
5°	537.5	550.3	560.8	569.8	575.7	578.2
7.5°	523.5	542.5	557.4	571.4	583.2	590.6
10°	509.5	532.2	553.3	572.3	590.6	598.8
12.5°	494.6	520.1	545.0	571.4	594.7	607.1
15°	477.9	504.5	536.6	568.9	598.8	612.1
17.5°	460.5	491.7	528.5	564.9	601.2	617.7
20°	442.4	475.8	516.1	559.0	602.1	622.7
22.5°	422.5	458.5	503.6	552.4	601.2	625.2
25°	402.6	440.3	491.2	544.1	599.7	627.0
27.5°	382.8	420.5	476.3	534.1	595.4	626.1
30°	360.4	403.1	462.3	525.1	591.3	624.5
32.5°	338.0	381.5	447.4	513.6	584.7	620.2
35°	315.0	362.1	429.1	501.2	576.4	615.2
37.5°	290.8	339.8	411.7	487.8	567.3	608.7
40°	266.2	317.8	393.6	472.2	557.4	598.8
42.5°	241.3	295.0	374.4	455.5	545.0	590.6
45°	214.7	272.0	354.8	439.0	532.6	579.8
47.5°	189.1	247.9	335.5	423.4	517.6	565.8
50°	164.3	224.3	314.1	406.0	501.2	551.5
52.5°	140.3	200.3	292.6	386.2	485.3	536.6
55°	116.4	175.9	272.7	367.9	467.9	517.6
57.5°	96.5	151.4	248.8	347.3	448.1	500.2
60°	76.6	126.2	227.1	326.5	429.1	478.8
62.5°	62.6	104.3	205.6	305.0	406.7	458.0
65°	49.3	89.0	183.3	284.3	385.3	432.5
67.5°	39.4	76.6	161.8	261.9	362.2	409.2
70°	28.5	65.8	140.3	242.9	339.8	385.3
72.5°	20.4	55.1	121.4	219.6	316.6	357.9
75°	12.9	42.3	103.1	199.1	291.7	333.1
77.5°	8.0	33.5	88.2	175.8	267.8	305.0
80°	3.7	24.4	75.7	155.9	244.5	283.6
82.5°	0.5	15.4	64.2	137.9	229.6	263.7
85°	0.5	5.8	54.3	122.0	213.1	247.0
87.5°	0.5	0.5	44.3	108.9	196.6	227.1
90°	0.5	0.5	44.3	112.1	190.3	215.6
92.5°	3.7	6.3	148.5	168.4	277.7	266.2
95°	27.8	33.1	223.0	265.3	354.8	338.9
97.5°	40.9	77.0	283.6	361.3	446.5	420.0
100°	55.2	119.6	311.6	464.8	542.5	512.0
102.5°	67.4	156.5	334.0	559.9	646.0	605.3
105°	79.1	189.6	357.2	608.7	759.4	713.7
107.5°	92.2	219.0	377.8	633.5	799.8	812.3
110°	104.7	245.4	402.6	653.4	824.7	862.9





TEST NUMBER: 14772  
 CATALOG NUMBER: SW-WB-1T5

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	119.6	268.6	425.9	666.5	839.6	885.2
115°	132.9	289.7	450.5	674.9	852.0	899.9
117.5°	146.0	310.4	467.3	679.9	856.1	909.2
120°	160.2	330.2	487.8	693.2	861.1	914.1
122.5°	185.8	349.3	507.0	711.3	862.9	914.8
125°	206.5	368.3	526.7	723.7	862.9	918.2
127.5°	228.0	386.5	544.1	733.0	872.8	913.2
130°	247.9	403.4	554.9	738.6	878.4	917.3
132.5°	262.8	418.8	566.4	743.6	880.3	921.6
135°	286.1	435.0	577.3	745.2	877.8	918.2
137.5°	305.7	450.2	587.2	744.5	868.5	914.8
140°	328.1	463.4	593.8	742.7	862.9	904.9
142.5°	343.9	478.4	599.7	742.7	851.1	891.8
145°	367.9	491.2	605.3	742.7	838.0	874.4
147.5°	386.8	502.4	608.7	735.4	823.1	860.4
150°	407.6	513.6	612.8	728.0	809.8	841.2
152.5°	425.0	524.2	613.7	719.6	797.3	827.2
155°	440.6	534.7	612.8	709.7	778.4	804.8
157.5°	461.4	542.5	611.2	698.2	758.5	782.4
160°	477.2	551.2	609.6	684.8	730.5	760.1
162.5°	492.8	556.6	607.8	670.8	711.3	732.0
165°	503.6	562.8	604.6	655.9	687.3	706.3
167.5°	521.0	567.8	602.8	640.1	664.9	679.0
170°	533.5	571.5	597.8	626.1	642.6	653.4
172.5°	545.0	574.0	592.9	612.1	622.7	629.5
175°	555.8	577.3	588.1	600.3	602.8	608.7
177.5°	564.0	576.8	581.4	586.3	585.6	588.1
180°	572.8	572.8	572.8	572.8	572.8	572.8

(END OF REPORT)