

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: 14820

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 14820
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AW-SP-1T5
Description: DIRECT INDIRECT WALL MOUNT LUMINAIRE WITH SPECULAR REFLECTOR AND
WHITE OPAL ACRYLIC LENS OVER PERFORATIONS
Light Source: ONE OSRAM 54 WATT FLUORESCENT LAMP
FP54/841/HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

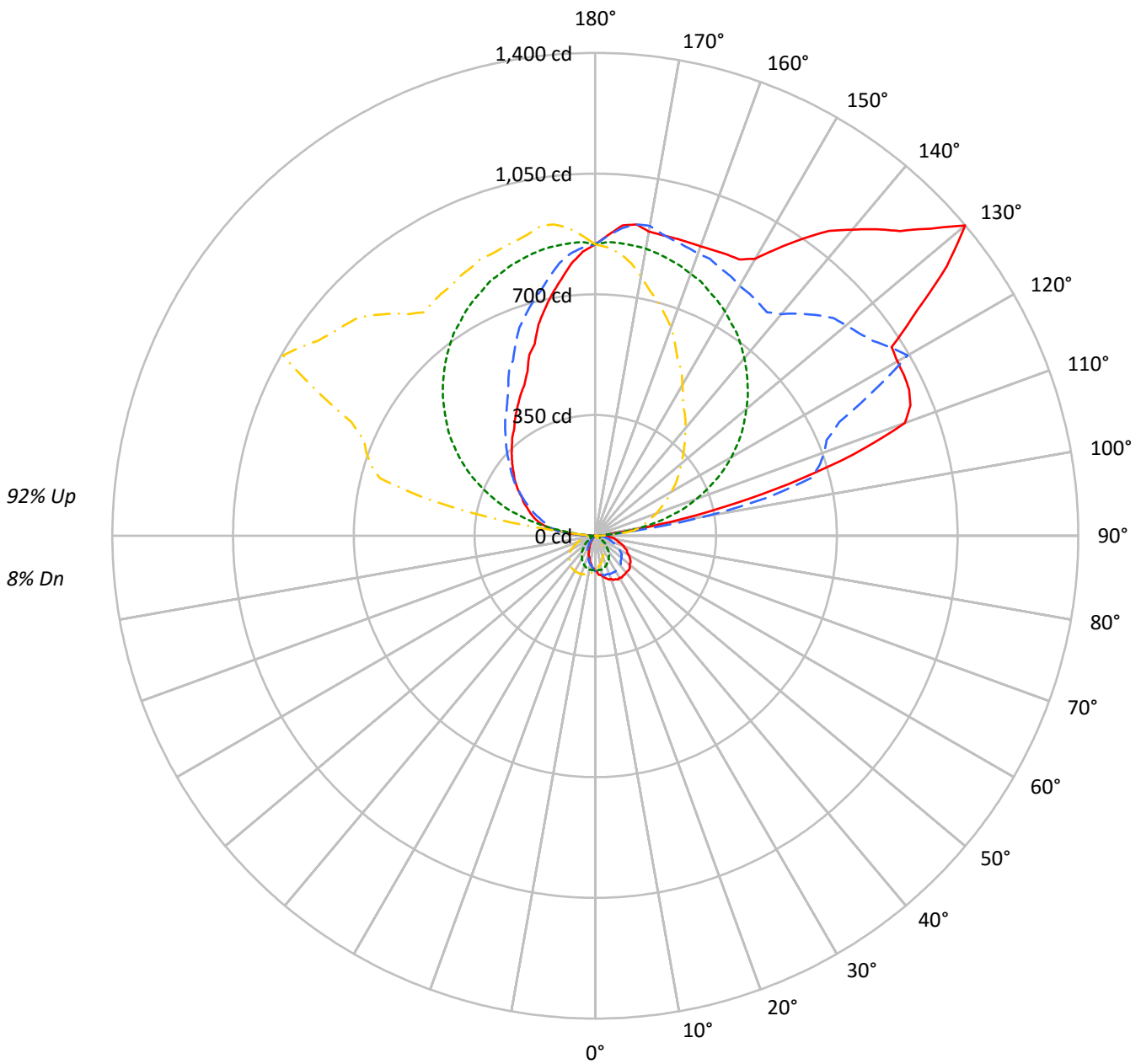
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 3335.3 lumens
Efficiency: 74.1%
Efficacy: 55.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.15 / 1.31
Luminous Opening: Rectangular w/ Sides (W: 0.51' x L: 3.67' x H: 0.29')
CIE Type: Indirect

Input Watts (W): 60
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: 14820
CATALOG NUMBER: AW-SP-1T5

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° ···· 90°-270° - · - · 135°-315°



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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	72	72	72	72	62	62	62	62	45	45	45	28	28	28	13	13	13	6
1	66	62	60	57	57	54	52	50	39	37	36	25	24	23	12	11	11	5
2	60	54	50	47	51	47	44	41	34	32	30	22	20	19	10	10	9	4
3	54	48	43	39	47	42	37	34	30	27	25	19	17	16	9	8	8	4
4	50	42	37	33	43	37	32	29	26	23	21	17	15	14	8	7	7	3
5	45	37	32	28	39	32	28	24	23	20	18	15	13	12	7	6	6	3
6	42	33	28	24	36	29	24	21	21	18	16	13	12	10	6	6	5	2
7	38	30	24	20	33	26	21	18	19	16	13	12	10	9	6	5	4	2
8	35	27	22	18	31	23	19	16	17	14	12	11	9	8	5	4	4	2
9	33	24	19	16	28	21	17	14	15	12	10	10	8	7	5	4	3	2
10	30	22	17	14	26	19	15	12	14	11	9	9	7	6	4	4	3	2

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	587	587	587	587
5°	653	553	541	553
10°	683	533	459	533
15°	750	500	378	500
20°	794	465	342	465
25°	849	410	262	410
30°	894	391	238	391
35°	936	349	200	349
40°	977	304	93	304
45°	1045	239	80	239
50°	1052	209	26	209
55°	1117	148	5	148
60°	1125	119	5	119
65°	1185	88	6	88
70°	1203	94	7	94
75°	1194	42	9	42
80°	1361	4	11	4
85°	1484	4	17	4



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	9.7	0.3	0.2
10°-20°	27.5	0.8	0.6
20°-30°	40.8	1.2	0.9
30°-40°	47.5	1.4	1.1
40°-50°	46.9	1.4	1.0
50°-60°	41.3	1.2	0.9
60°-70°	32.0	1.0	0.7
70°-80°	21.7	0.7	0.5
80°-90°	11.8	0.4	0.3
90°-100°	84.6	2.5	1.9
100°-110°	359.0	10.8	8.0
110°-120°	487.2	14.6	10.8
120°-130°	547.9	16.4	12.2
130°-140°	511.8	15.3	11.4
140°-150°	424.8	12.7	9.4
150°-160°	335.3	10.1	7.5
160°-170°	225.1	6.7	5.0
170°-180°	80.6	2.4	1.8
0°-30°	78.0	2.3	1.7
0°-40°	125.5	3.8	2.8
0°-60°	213.8	6.4	4.8
0°-90°	279.3	8.4	6.2
90°-120°	930.7	27.9	20.7
90°-150°	2415.2	72.4	53.7
90°-180°	3056.0	91.6	67.9
0°-180°	3335.3	100.0	74.1

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	102	102	102	102	102	
5°	114	100	94	100	114	11
15°	129	97	65	97	129	37
25°	139	82	43	82	139	65
35°	141	70	30	70	141	89
45°	139	46	11	46	139	106
55°	124	27	0	27	124	110
65°	102	14	0	14	102	98
75°	70	6	0	6	70	76
85°	43	0	0	0	43	40
90°	30	0	0	0	30	17
95°	37	27	67	27	37	54
105°	581	229	178	229	581	608
115°	1004	387	229	387	1004	988
125°	1138	518	286	518	1138	1038
135°	1249	624	343	624	1249	980
145°	1053	716	406	716	1053	662
155°	900	781	485	781	900	418
165°	893	829	635	829	893	253
175°	903	851	792	851	903	86
180°	845	845	845	845	845	



TEST NUMBER: 14820
 CATALOG NUMBER: AW-SP-1T5

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1
2.5°	103.8	109.2	106.5	106.5	100.5	101.8	99.1	99.1	94.4	99.1	99.1
5°	113.9	111.2	106.5	103.8	100.5	99.1	91.8	91.8	94.4	91.8	91.8
7.5°	113.9	116.6	113.9	106.5	99.1	96.4	87.1	89.1	84.4	89.1	87.1
10°	118.6	121.3	113.9	109.2	100.5	94.4	84.4	84.4	79.7	84.4	84.4
12.5°	124.0	121.3	118.6	109.2	97.8	89.1	79.7	77.0	77.0	77.0	79.7
15°	128.7	128.7	116.6	109.2	96.8	89.1	74.3	72.3	64.9	72.3	74.3
17.5°	133.4	131.3	116.6	109.2	94.1	84.4	66.9	64.9	62.2	64.9	66.9
20°	133.4	133.4	118.6	106.5	91.8	77.0	62.2	62.2	57.5	62.2	62.2
22.5°	138.7	133.4	118.6	106.5	88.1	72.3	62.2	57.5	47.5	57.5	62.2
25°	138.7	133.4	118.6	103.8	81.7	69.6	54.8	52.2	42.8	52.2	54.8
27.5°	143.4	138.7	118.6	101.8	80.7	64.9	50.2	44.8	35.4	44.8	50.2
30°	140.7	138.7	118.6	96.4	78.3	59.5	42.8	40.1	37.4	40.1	42.8
32.5°	143.4	136.0	116.6	96.4	72.0	54.8	37.4	35.4	25.3	35.4	37.4
35°	140.7	131.3	116.6	94.4	69.6	52.2	32.7	30.0	30.0	30.0	32.7
37.5°	140.7	136.0	113.9	89.1	63.2	44.8	30.0	20.6	17.9	20.6	30.0
40°	138.7	131.3	113.9	87.1	59.9	40.1	22.6	20.6	13.2	20.6	22.6
42.5°	138.7	128.7	109.2	84.4	53.8	35.4	17.9	13.2	13.2	13.2	17.9
45°	138.7	126.0	103.8	77.0	46.1	30.0	15.3	10.6	10.6	10.6	15.3
47.5°	136.0	126.0	101.8	74.3	41.4	22.6	10.6	7.9	7.9	7.9	10.6
50°	128.7	124.0	99.1	66.9	39.1	15.3	7.9	5.9	3.2	5.9	7.9
52.5°	128.7	116.6	94.4	62.2	34.0	13.2	3.2	5.9	0.5	5.9	3.2
55°	124.0	111.2	94.4	57.5	26.7	13.2	0.5	3.2	0.5	3.2	0.5
57.5°	118.6	109.2	87.1	52.2	22.6	10.6	3.2	0.5	0.5	0.5	3.2
60°	111.2	103.8	79.7	44.8	20.6	7.9	0.5	0.5	0.5	0.5	0.5
62.5°	103.8	91.8	74.3	40.1	16.6	3.2	0.5	0.5	0.5	0.5	0.5
65°	101.8	89.1	66.9	35.4	14.3	3.2	0.5	0.5	0.5	0.5	0.5
67.5°	91.8	79.7	59.5	32.7	11.9	0.5	0.5	0.5	0.5	0.5	0.5
70°	87.1	72.3	52.2	28.0	14.3	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	79.7	66.9	47.5	22.6	8.2	0.5	0.5	0.5	0.5	0.5	0.5
75°	69.6	62.2	42.8	13.2	5.9	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	64.9	52.2	37.4	15.3	3.2	0.5	0.5	0.5	0.5	0.5	0.5
80°	59.5	50.2	30.0	13.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	54.8	42.8	25.3	5.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	42.8	32.7	22.6	7.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	37.4	28.0	13.2	3.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	30.0	24.0	11.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	28.0	22.6	13.2	17.9	8.2	22.6	35.4	13.2	25.3	13.2	35.4
95°	37.4	42.8	30.0	155.5	26.7	59.5	72.3	52.2	66.9	52.2	72.3
97.5°	52.2	101.8	136.0	291.0	75.6	74.3	109.2	96.4	109.2	96.4	109.2
100°	187.7	389.0	320.5	340.0	131.0	89.1	128.7	128.7	140.7	128.7	128.7
102.5°	372.2	474.9	507.1	359.5	182.7	96.4	140.7	138.7	160.9	138.7	140.7
105°	580.9	671.5	647.3	452.7	229.3	121.3	155.5	165.6	177.6	165.6	155.5
107.5°	784.9	848.6	681.5	499.7	274.9	140.7	170.3	180.3	190.4	180.3	170.3
110°	954.6	895.6	706.4	502.4	311.5	162.9	187.7	192.4	202.5	192.4	187.7



TEST NUMBER: 14820
 CATALOG NUMBER: AW-SP-1T5

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	988.8	915.0	725.8	524.5	349.7	183.0	202.5	199.8	214.5	199.8	202.5
115°	1003.6	927.1	780.2	541.3	387.0	207.2	219.2	219.2	229.3	219.2	219.2
117.5°	1008.3	944.5	910.3	544.0	422.5	232.0	236.7	236.7	239.4	236.7	236.7
120°	1011.0	976.7	1045.2	546.7	455.4	254.1	254.1	251.4	256.1	251.4	254.1
122.5°	1018.3	1180.7	1015.7	561.4	486.3	281.0	273.6	263.5	270.9	263.5	273.6
125°	1138.4	1249.2	984.1	570.8	518.1	291.0	291.0	270.9	285.7	270.9	291.0
127.5°	1284.0	1318.3	964.0	595.6	544.0	335.3	307.8	298.4	298.4	298.4	307.8
130°	1399.5	1234.4	949.2	625.2	571.2	359.5	325.2	313.2	313.2	313.2	325.2
132.5°	1318.3	1185.4	934.5	652.0	599.3	387.0	344.7	327.9	327.9	327.9	344.7
135°	1249.2	1151.2	905.0	676.8	624.2	436.0	364.8	344.7	342.7	344.7	364.8
137.5°	1204.9	1108.9	873.4	703.7	648.6	458.1	384.3	357.5	357.5	357.5	384.3
140°	1158.6	1067.3	839.2	725.8	671.8	487.6	406.4	374.2	374.2	374.2	406.4
142.5°	1114.3	1011.0	817.1	750.6	693.9	524.5	428.6	391.7	387.0	391.7	428.6
145°	1052.6	927.1	824.4	780.2	716.1	563.4	448.0	413.8	406.4	413.8	448.0
147.5°	988.8	905.0	831.8	789.5	731.8	576.2	472.9	423.9	425.9	423.9	472.9
150°	927.1	888.2	836.5	807.0	751.6	620.5	504.4	452.7	445.3	452.7	504.4
152.5°	902.9	888.2	848.6	824.4	767.4	647.3	541.3	474.9	465.5	474.9	541.3
155°	900.3	888.2	856.0	841.2	781.2	669.4	563.4	492.3	484.9	492.3	563.4
157.5°	895.6	888.2	868.7	858.7	798.3	696.3	603.0	539.3	514.5	539.3	603.0
160°	892.9	888.2	870.7	878.1	808.0	723.1	642.6	566.1	558.7	566.1	642.6
162.5°	892.9	892.9	878.1	892.9	820.4	750.6	671.5	600.3	583.6	600.3	671.5
165°	892.9	892.9	885.5	897.6	829.1	770.1	701.0	647.3	635.2	647.3	701.0
167.5°	892.9	897.6	895.6	897.6	837.9	796.9	728.5	684.2	674.1	684.2	728.5
170°	895.6	902.9	912.3	895.6	845.2	802.3	762.7	696.3	713.7	696.3	762.7
172.5°	910.3	915.0	910.3	885.5	848.6	826.5	796.9	752.6	750.6	752.6	796.9
175°	902.9	895.6	895.6	873.4	851.3	836.5	821.8	794.9	792.2	794.9	821.8
177.5°	873.4	868.7	870.7	861.3	852.6	843.9	836.5	821.8	824.4	821.8	836.5
180°	844.8	844.8	844.8	844.8	844.8	844.8	844.8	844.8	844.8	844.8	844.8



TEST NUMBER: 14820
 CATALOG NUMBER: AW-SP-1T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	102.1	102.1	102.1	102.1	102.1	102.1
2.5°	101.8	100.5	106.5	106.5	109.2	103.8
5°	99.1	100.5	103.8	106.5	111.2	113.9
7.5°	96.4	99.1	106.5	113.9	116.6	113.9
10°	94.4	100.5	109.2	113.9	121.3	118.6
12.5°	89.1	97.8	109.2	118.6	121.3	124.0
15°	89.1	96.8	109.2	116.6	128.7	128.7
17.5°	84.4	94.1	109.2	116.6	131.3	133.4
20°	77.0	91.8	106.5	118.6	133.4	133.4
22.5°	72.3	88.1	106.5	118.6	133.4	138.7
25°	69.6	81.7	103.8	118.6	133.4	138.7
27.5°	64.9	80.7	101.8	118.6	138.7	143.4
30°	59.5	78.3	96.4	118.6	138.7	140.7
32.5°	54.8	72.0	96.4	116.6	136.0	143.4
35°	52.2	69.6	94.4	116.6	131.3	140.7
37.5°	44.8	63.2	89.1	113.9	136.0	140.7
40°	40.1	59.9	87.1	113.9	131.3	138.7
42.5°	35.4	53.8	84.4	109.2	128.7	138.7
45°	30.0	46.1	77.0	103.8	126.0	138.7
47.5°	22.6	41.4	74.3	101.8	126.0	136.0
50°	15.3	39.1	66.9	99.1	124.0	128.7
52.5°	13.2	34.0	62.2	94.4	116.6	128.7
55°	13.2	26.7	57.5	94.4	111.2	124.0
57.5°	10.6	22.6	52.2	87.1	109.2	118.6
60°	7.9	20.6	44.8	79.7	103.8	111.2
62.5°	3.2	16.6	40.1	74.3	91.8	103.8
65°	3.2	14.3	35.4	66.9	89.1	101.8
67.5°	0.5	11.9	32.7	59.5	79.7	91.8
70°	0.5	14.3	28.0	52.2	72.3	87.1
72.5°	0.5	8.2	22.6	47.5	66.9	79.7
75°	0.5	5.9	13.2	42.8	62.2	69.6
77.5°	0.5	3.2	15.3	37.4	52.2	64.9
80°	0.5	0.5	13.2	30.0	50.2	59.5
82.5°	0.5	0.5	5.9	25.3	42.8	54.8
85°	0.5	0.5	7.9	22.6	32.7	42.8
87.5°	0.5	0.5	3.2	13.2	28.0	37.4
90°	0.5	0.5	0.5	11.9	24.0	30.0
92.5°	22.6	8.2	17.9	13.2	22.6	28.0
95°	59.5	26.7	155.5	30.0	42.8	37.4
97.5°	74.3	75.6	291.0	136.0	101.8	52.2
100°	89.1	131.0	340.0	320.5	389.0	187.7
102.5°	96.4	182.7	359.5	507.1	474.9	372.2
105°	121.3	229.3	452.7	647.3	671.5	580.9
107.5°	140.7	274.9	499.7	681.5	848.6	784.9
110°	162.9	311.5	502.4	706.4	895.6	954.6



TEST NUMBER: 14820
 CATALOG NUMBER: AW-SP-1T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	183.0	349.7	524.5	725.8	915.0	988.8
115°	207.2	387.0	541.3	780.2	927.1	1003.6
117.5°	232.0	422.5	544.0	910.3	944.5	1008.3
120°	254.1	455.4	546.7	1045.2	976.7	1011.0
122.5°	281.0	486.3	561.4	1015.7	1180.7	1018.3
125°	291.0	518.1	570.8	984.1	1249.2	1138.4
127.5°	335.3	544.0	595.6	964.0	1318.3	1284.0
130°	359.5	571.2	625.2	949.2	1234.4	1399.5
132.5°	387.0	599.3	652.0	934.5	1185.4	1318.3
135°	436.0	624.2	676.8	905.0	1151.2	1249.2
137.5°	458.1	648.6	703.7	873.4	1108.9	1204.9
140°	487.6	671.8	725.8	839.2	1067.3	1158.6
142.5°	524.5	693.9	750.6	817.1	1011.0	1114.3
145°	563.4	716.1	780.2	824.4	927.1	1052.6
147.5°	576.2	731.8	789.5	831.8	905.0	988.8
150°	620.5	751.6	807.0	836.5	888.2	927.1
152.5°	647.3	767.4	824.4	848.6	888.2	902.9
155°	669.4	781.2	841.2	856.0	888.2	900.3
157.5°	696.3	798.3	858.7	868.7	888.2	895.6
160°	723.1	808.0	878.1	870.7	888.2	892.9
162.5°	750.6	820.4	892.9	878.1	892.9	892.9
165°	770.1	829.1	897.6	885.5	892.9	892.9
167.5°	796.9	837.9	897.6	895.6	897.6	892.9
170°	802.3	845.2	895.6	912.3	902.9	895.6
172.5°	826.5	848.6	885.5	910.3	915.0	910.3
175°	836.5	851.3	873.4	895.6	895.6	902.9
177.5°	843.9	852.6	861.3	870.7	868.7	873.4
180°	844.8	844.8	844.8	844.8	844.8	844.8

(END OF REPORT)