

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: 19102

Luminaire Tested: **AW-WE-2T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 19102
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AW-WE-2T8
Description: CLASS A DIRECT/INDIRECT WALL LUMINAIRE WITH WHITE INTERIOR AND 18
CELL WHITE PERF AND DIFFUSE CUT-OFF LOUVER
Light Source: TWO PHILIPS 32 WATT T8 LAMPS

F32T8/TL841. LUMEN RATING = 2950 LMS.

Ballast/Driver: -

Summary

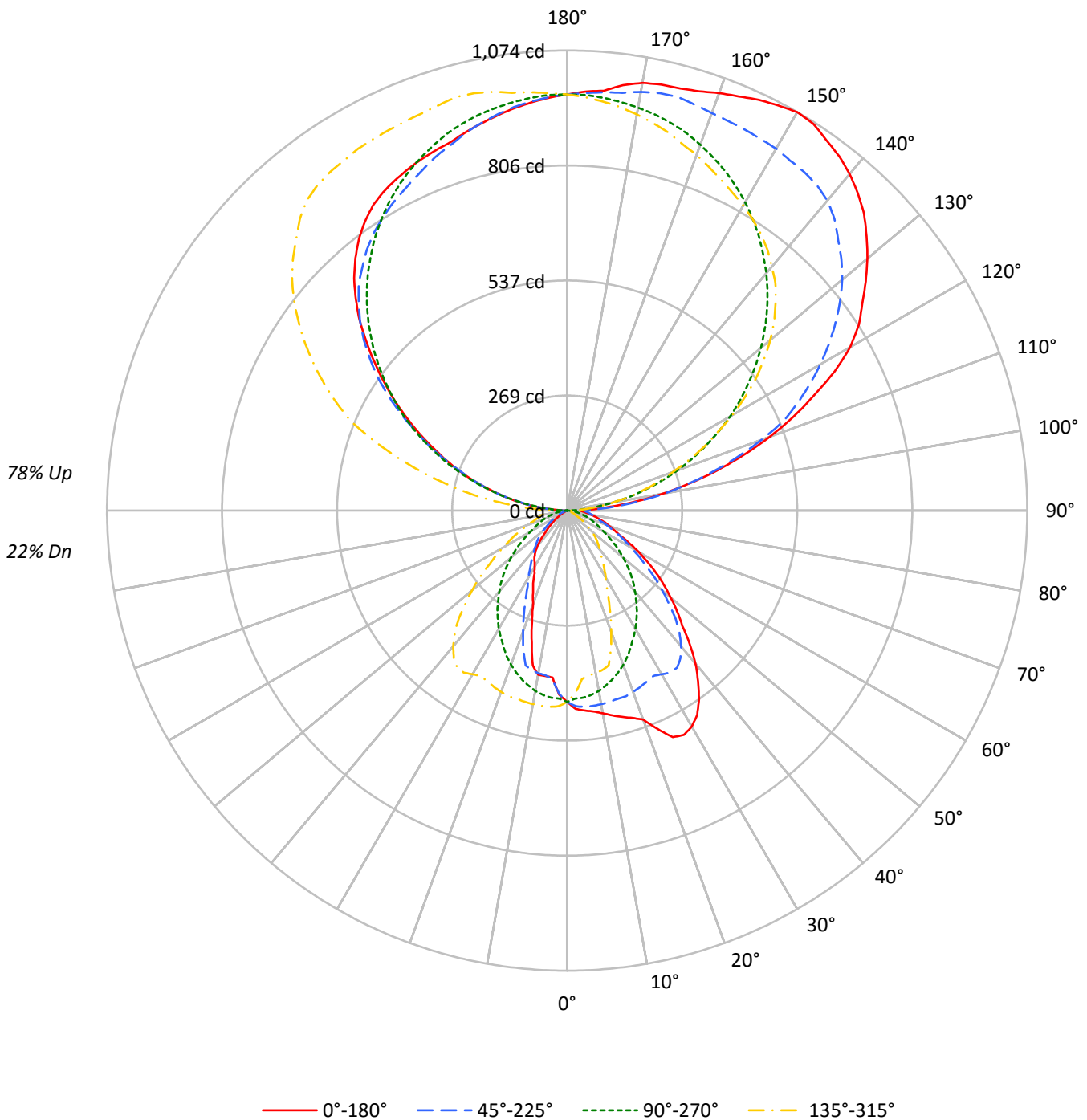
Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 4231.7 lumens
Efficiency: 71.7%
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.08 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.19' x L: 3' x H: 0.09')
CIE Type: Semi-Indirect

Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): 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: 19102
CATALOG NUMBER: AW-WE-2T8

Luminous Intensity Polar Plot





TEST NUMBER: 19102
 CATALOG NUMBER: AW-WE-2T8

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	64	64	64	64	49	49	49	35	35	35	22	22	22	16
1	66	63	60	58	58	56	54	52	43	41	40	31	30	29	19	19	19	14
2	60	55	51	47	53	49	45	43	38	35	33	27	26	24	17	17	16	12
3	55	48	44	40	48	43	39	36	33	30	28	24	22	21	15	15	14	10
4	50	43	38	33	44	38	34	30	30	26	24	21	19	18	14	13	12	9
5	46	38	33	29	41	34	29	26	26	23	21	19	17	15	13	11	10	8
6	42	34	29	25	37	31	26	22	24	20	18	17	15	14	11	10	9	7
7	39	31	25	22	35	28	23	20	21	18	16	16	14	12	10	9	8	6
8	36	28	23	19	32	25	20	17	20	16	14	14	12	11	10	8	7	6
9	34	25	20	17	30	23	18	15	18	15	12	13	11	10	9	8	7	5
10	31	23	18	15	28	21	17	14	16	13	11	12	10	9	8	7	6	5

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8434	8434	8434	8434
5°	8854	7982	7394	7982
10°	9161	7564	7426	7564
15°	9664	7073	6183	7073
20°	10313	6562	4622	6562
25°	11992	5995	3851	5995
30°	12470	5462	3252	5462
35°	12118	4911	3003	4911
40°	11210	4343	2587	4343
45°	9848	3804	1867	3804
50°	8943	3211	1293	3211
55°	7994	2630	849	2630
60°	6900	2048	424	2048
65°	5659	1667	109	1667
70°	5295	1322	26	1322
75°	5144	996	33	996
80°	5288	670	46	670
85°	6615	338	81	338



TEST NUMBER: 19102
 CATALOG NUMBER: AW-WE-2T8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	40.9	1.0	0.7
10°-20°	113.5	2.7	1.9
20°-30°	162.0	3.8	2.7
30°-40°	186.5	4.4	3.2
40°-50°	168.5	4.0	2.9
50°-60°	124.7	2.9	2.1
60°-70°	76.0	1.8	1.3
70°-80°	42.5	1.0	0.7
80°-90°	23.6	0.6	0.4
90°-100°	87.1	2.1	1.5
100°-110°	273.7	6.5	4.6
110°-120°	450.8	10.7	7.6
120°-130°	561.3	13.3	9.5
130°-140°	592.3	14.0	10.0
140°-150°	542.1	12.8	9.2
150°-160°	424.7	10.0	7.2
160°-170°	269.3	6.4	4.6
170°-180°	92.3	2.2	1.6
0°-30°	316.5	7.5	5.4
0°-40°	503.1	11.9	8.5
0°-60°	796.2	18.8	13.5
0°-90°	938.2	22.2	15.9
90°-120°	811.6	19.2	13.8
90°-150°	2507.3	59.2	42.5
90°-180°	3293.0	77.8	55.8
0°-180°	4231.7	100.0	71.7

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	447	447	447	447	447	
5°	468	438	391	438	468	45
15°	498	408	319	408	498	142
25°	584	351	187	351	584	264
35°	537	284	133	284	537	333
45°	380	210	72	210	380	297
55°	253	134	27	134	253	226
65°	135	75	3	75	135	139
75°	78	38	0	38	78	84
85°	41	10	0	10	41	37
90°	32	0	0	0	32	21
95°	101	39	46	39	101	109
105°	362	189	184	189	362	383
115°	635	356	344	356	635	630
125°	841	516	521	516	841	754
135°	980	660	697	660	980	754
145°	1055	781	823	781	1055	662
155°	1058	874	879	874	1058	490
165°	1020	936	914	936	1020	290
175°	984	967	956	967	984	95
180°	971	971	971	971	971	



TEST NUMBER: 19102

CATALOG NUMBER: AW-WE-2T8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	446.6	446.6	446.6	446.6	446.6	446.6	446.6	446.6	446.6	446.6	446.6
2.5°	463.4	457.0	457.0	449.3	439.1	427.8	427.8	410.1	429.6	410.1	427.8
5°	468.3	463.4	459.8	453.2	438.5	407.3	395.0	386.5	391.1	386.5	395.0
7.5°	472.9	465.5	459.8	453.2	433.9	392.2	387.5	387.5	389.3	387.5	387.5
10°	480.3	471.1	458.8	449.3	427.4	380.9	385.5	386.5	389.3	386.5	385.5
12.5°	489.8	475.7	457.0	443.7	418.0	376.3	380.9	362.2	370.6	362.2	380.9
15°	498.3	483.1	454.9	433.4	407.7	366.8	374.2	311.4	318.8	311.4	374.2
17.5°	507.5	488.8	454.9	426.0	396.0	356.5	339.6	270.9	273.0	270.9	339.6
20°	518.8	493.7	450.3	412.9	382.8	346.0	301.2	232.5	232.5	232.5	301.2
22.5°	551.8	501.1	445.7	401.6	368.2	334.0	263.5	206.3	208.1	206.3	263.5
25°	583.6	526.5	440.1	388.3	351.3	312.4	228.9	184.5	187.4	184.5	228.9
27.5°	590.3	550.8	435.2	376.3	334.4	280.4	199.7	160.2	164.8	160.2	199.7
30°	581.8	558.2	440.9	362.2	319.0	255.0	179.9	148.1	151.7	148.1	179.9
32.5°	564.9	547.0	448.5	347.0	301.2	226.1	161.2	138.7	141.5	138.7	161.2
35°	536.7	532.1	447.5	334.7	283.7	200.7	145.3	128.4	133.0	128.4	145.3
37.5°	501.9	501.9	434.4	317.1	264.5	174.3	129.2	117.9	121.7	117.9	129.2
40°	466.2	469.0	413.7	301.2	246.2	155.6	118.9	104.8	107.6	104.8	118.9
42.5°	423.9	431.6	388.3	284.2	228.8	136.9	107.6	88.9	89.7	88.9	107.6
45°	379.8	391.1	358.3	269.1	209.9	123.5	97.4	72.0	72.0	72.0	97.4
47.5°	348.1	350.9	322.7	254.0	189.8	108.7	86.9	58.9	57.9	58.9	86.9
50°	315.3	313.2	289.9	242.0	171.0	95.3	73.0	44.8	45.6	44.8	73.0
52.5°	284.2	284.2	257.8	228.9	152.2	83.3	59.7	36.4	37.2	36.4	59.7
55°	253.2	254.0	224.0	209.9	133.9	70.2	49.5	27.9	26.9	27.9	49.5
57.5°	221.2	228.9	197.9	192.2	115.2	61.8	40.0	20.2	17.4	20.2	40.0
60°	192.2	196.8	172.5	168.6	98.7	51.3	29.7	12.8	11.8	12.8	29.7
62.5°	162.0	173.3	151.0	146.1	86.0	42.8	22.3	7.2	6.1	7.2	22.3
65°	134.8	144.3	132.0	126.4	75.2	35.4	17.4	2.6	2.6	2.6	17.4
67.5°	117.9	121.7	112.3	108.7	65.5	27.9	11.8	2.6	3.3	2.6	11.8
70°	103.8	108.7	96.4	92.5	55.1	21.3	7.2	1.5	0.5	1.5	7.2
72.5°	92.5	94.6	82.3	78.4	46.6	12.8	2.6	0.5	0.5	0.5	2.6
75°	78.4	85.1	73.0	70.2	37.8	9.0	2.6	0.5	0.5	0.5	2.6
77.5°	67.4	75.6	66.4	61.8	29.7	3.3	0.5	0.5	0.5	0.5	0.5
80°	56.9	68.2	58.9	52.3	22.7	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	48.4	58.9	54.1	44.8	16.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	41.0	52.3	48.4	38.2	10.0	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	34.3	46.6	42.8	31.5	1.0	0.5	0.5	0.5	0.5	0.5	0.5
90°	31.5	40.0	40.5	28.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	52.3	83.3	67.4	69.2	10.0	4.3	15.6	4.3	14.6	4.3	15.6
95°	101.0	135.8	115.1	116.1	39.2	30.7	47.7	32.5	45.6	32.5	47.7
97.5°	160.2	198.6	171.5	170.4	72.5	58.9	79.4	65.3	80.5	65.3	79.4
100°	226.8	296.3	231.7	260.7	109.6	90.7	109.4	98.2	112.3	98.2	109.4
102.5°	292.7	329.4	290.7	287.8	149.9	105.8	147.1	113.3	148.9	113.3	147.1
105°	362.2	395.0	353.7	338.6	189.3	166.8	184.5	168.6	184.5	168.6	184.5
107.5°	432.4	465.5	417.5	388.3	230.7	208.1	225.0	207.1	225.0	207.1	225.0
110°	502.9	529.3	483.1	437.3	273.3	256.0	262.5	240.2	264.5	240.2	262.5



TEST NUMBER: 19102
 CATALOG NUMBER: AW-WE-2T8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	571.6	591.1	547.0	483.1	315.1	304.0	306.8	286.0	304.0	286.0	306.8
115°	635.4	659.7	593.1	526.5	356.4	347.0	352.7	326.5	344.2	326.5	352.7
117.5°	703.8	719.7	638.2	565.9	397.8	389.3	396.0	372.4	388.3	372.4	396.0
120°	763.0	763.0	682.3	608.0	439.4	429.6	444.7	416.5	431.6	416.5	444.7
122.5°	807.1	823.0	724.6	661.5	478.0	469.0	491.6	462.6	476.7	462.6	491.6
125°	841.0	841.0	764.8	676.7	516.0	484.2	537.7	482.4	520.8	482.4	537.7
127.5°	878.4	877.6	803.3	701.0	553.6	537.7	579.0	555.4	565.9	555.4	579.0
130°	915.0	913.2	838.1	726.4	590.3	570.5	619.2	600.5	610.8	600.5	619.2
132.5°	947.8	944.3	868.1	750.7	625.4	602.3	655.9	643.9	656.9	643.9	655.9
135°	979.9	971.4	894.5	774.3	659.7	635.4	687.9	685.9	697.2	685.9	687.9
137.5°	1004.2	995.0	923.5	797.6	692.0	658.7	719.7	722.5	735.9	722.5	719.7
140°	1025.8	1012.7	945.0	819.4	723.1	692.6	743.3	755.6	768.7	755.6	743.3
142.5°	1042.7	1028.6	957.3	841.0	751.8	721.8	767.7	782.8	798.7	782.8	767.7
145°	1055.0	1050.4	964.8	873.8	780.9	747.2	788.4	807.1	823.0	807.1	788.4
147.5°	1070.1	1051.1	968.6	883.3	806.6	760.2	806.1	817.4	843.8	817.4	806.1
150°	1073.7	1046.5	975.3	902.0	831.1	796.9	822.3	842.8	858.6	842.8	822.3
152.5°	1066.3	1040.9	978.1	920.7	853.1	823.0	836.3	855.8	869.2	855.8	836.3
155°	1057.8	1033.5	980.9	935.8	873.8	844.6	851.2	866.3	879.4	866.3	851.2
157.5°	1046.5	1026.8	983.7	950.7	891.6	865.3	867.1	875.6	887.9	875.6	867.1
160°	1037.0	1018.3	987.3	956.3	908.6	884.0	883.3	885.0	895.3	885.0	883.3
162.5°	1025.8	1013.7	993.0	964.0	924.5	900.9	896.3	896.3	902.0	896.3	896.3
165°	1020.1	1012.7	999.6	966.8	936.2	916.1	913.2	907.6	914.3	907.6	913.2
167.5°	1018.3	1009.9	997.8	971.4	946.9	932.0	926.3	918.9	925.5	918.9	926.3
170°	1013.7	1004.2	992.2	973.2	954.9	935.8	938.6	925.5	936.6	925.5	938.6
172.5°	1001.4	991.2	983.7	977.1	961.6	954.5	949.9	943.2	947.1	943.2	949.9
175°	983.7	980.9	979.9	977.1	967.2	961.2	958.4	952.7	956.3	952.7	958.4
177.5°	978.9	976.0	975.3	977.1	970.9	967.6	965.8	963.0	964.8	963.0	965.8
180°	971.3	971.3	971.3	971.3	971.3	971.3	971.3	971.3	971.3	971.3	971.3



TEST NUMBER: 19102
 CATALOG NUMBER: AW-WE-2T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	446.6	446.6	446.6	446.6	446.6	446.6
2.5°	427.8	439.1	449.3	457.0	457.0	463.4
5°	407.3	438.5	453.2	459.8	463.4	468.3
7.5°	392.2	433.9	453.2	459.8	465.5	472.9
10°	380.9	427.4	449.3	458.8	471.1	480.3
12.5°	376.3	418.0	443.7	457.0	475.7	489.8
15°	366.8	407.7	433.4	454.9	483.1	498.3
17.5°	356.5	396.0	426.0	454.9	488.8	507.5
20°	346.0	382.8	412.9	450.3	493.7	518.8
22.5°	334.0	368.2	401.6	445.7	501.1	551.8
25°	312.4	351.3	388.3	440.1	526.5	583.6
27.5°	280.4	334.4	376.3	435.2	550.8	590.3
30°	255.0	319.0	362.2	440.9	558.2	581.8
32.5°	226.1	301.2	347.0	448.5	547.0	564.9
35°	200.7	283.7	334.7	447.5	532.1	536.7
37.5°	174.3	264.5	317.1	434.4	501.9	501.9
40°	155.6	246.2	301.2	413.7	469.0	466.2
42.5°	136.9	228.8	284.2	388.3	431.6	423.9
45°	123.5	209.9	269.1	358.3	391.1	379.8
47.5°	108.7	189.8	254.0	322.7	350.9	348.1
50°	95.3	171.0	242.0	289.9	313.2	315.3
52.5°	83.3	152.2	228.9	257.8	284.2	284.2
55°	70.2	133.9	209.9	224.0	254.0	253.2
57.5°	61.8	115.2	192.2	197.9	228.9	221.2
60°	51.3	98.7	168.6	172.5	196.8	192.2
62.5°	42.8	86.0	146.1	151.0	173.3	162.0
65°	35.4	75.2	126.4	132.0	144.3	134.8
67.5°	27.9	65.5	108.7	112.3	121.7	117.9
70°	21.3	55.1	92.5	96.4	108.7	103.8
72.5°	12.8	46.6	78.4	82.3	94.6	92.5
75°	9.0	37.8	70.2	73.0	85.1	78.4
77.5°	3.3	29.7	61.8	66.4	75.6	67.4
80°	0.5	22.7	52.3	58.9	68.2	56.9
82.5°	0.5	16.5	44.8	54.1	58.9	48.4
85°	0.5	10.0	38.2	48.4	52.3	41.0
87.5°	0.5	1.0	31.5	42.8	46.6	34.3
90°	0.5	0.5	28.2	40.5	40.0	31.5
92.5°	4.3	10.0	69.2	67.4	83.3	52.3
95°	30.7	39.2	116.1	115.1	135.8	101.0
97.5°	58.9	72.5	170.4	171.5	198.6	160.2
100°	90.7	109.6	260.7	231.7	296.3	226.8
102.5°	105.8	149.9	287.8	290.7	329.4	292.7
105°	166.8	189.3	338.6	353.7	395.0	362.2
107.5°	208.1	230.7	388.3	417.5	465.5	432.4
110°	256.0	273.3	437.3	483.1	529.3	502.9



TEST NUMBER: 19102
 CATALOG NUMBER: AW-WE-2T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	304.0	315.1	483.1	547.0	591.1	571.6
115°	347.0	356.4	526.5	593.1	659.7	635.4
117.5°	389.3	397.8	565.9	638.2	719.7	703.8
120°	429.6	439.4	608.0	682.3	763.0	763.0
122.5°	469.0	478.0	661.5	724.6	823.0	807.1
125°	484.2	516.0	676.7	764.8	841.0	841.0
127.5°	537.7	553.6	701.0	803.3	877.6	878.4
130°	570.5	590.3	726.4	838.1	913.2	915.0
132.5°	602.3	625.4	750.7	868.1	944.3	947.8
135°	635.4	659.7	774.3	894.5	971.4	979.9
137.5°	658.7	692.0	797.6	923.5	995.0	1004.2
140°	692.6	723.1	819.4	945.0	1012.7	1025.8
142.5°	721.8	751.8	841.0	957.3	1028.6	1042.7
145°	747.2	780.9	873.8	964.8	1050.4	1055.0
147.5°	760.2	806.6	883.3	968.6	1051.1	1070.1
150°	796.9	831.1	902.0	975.3	1046.5	1073.7
152.5°	823.0	853.1	920.7	978.1	1040.9	1066.3
155°	844.6	873.8	935.8	980.9	1033.5	1057.8
157.5°	865.3	891.6	950.7	983.7	1026.8	1046.5
160°	884.0	908.6	956.3	987.3	1018.3	1037.0
162.5°	900.9	924.5	964.0	993.0	1013.7	1025.8
165°	916.1	936.2	966.8	999.6	1012.7	1020.1
167.5°	932.0	946.9	971.4	997.8	1009.9	1018.3
170°	935.8	954.9	973.2	992.2	1004.2	1013.7
172.5°	954.5	961.6	977.1	983.7	991.2	1001.4
175°	961.2	967.2	977.1	979.9	980.9	983.7
177.5°	967.6	970.9	977.1	975.3	976.0	978.9
180°	971.3	971.3	971.3	971.3	971.3	971.3

(END OF REPORT)