

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: 19088

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 19088
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AW-WO-2T8
Description: CLASS A DIRECT/INDIRECT WALL LUMINAIRE WITH WHITE INTERIOR AND WHITE OPAL PLASTIC LENS
Light Source: TWO PHILIPS 32 WATT T8 LAMPS

F32T8/TL841. LUMEN RATING = 2950 LMS.

Ballast/Driver: -

Summary

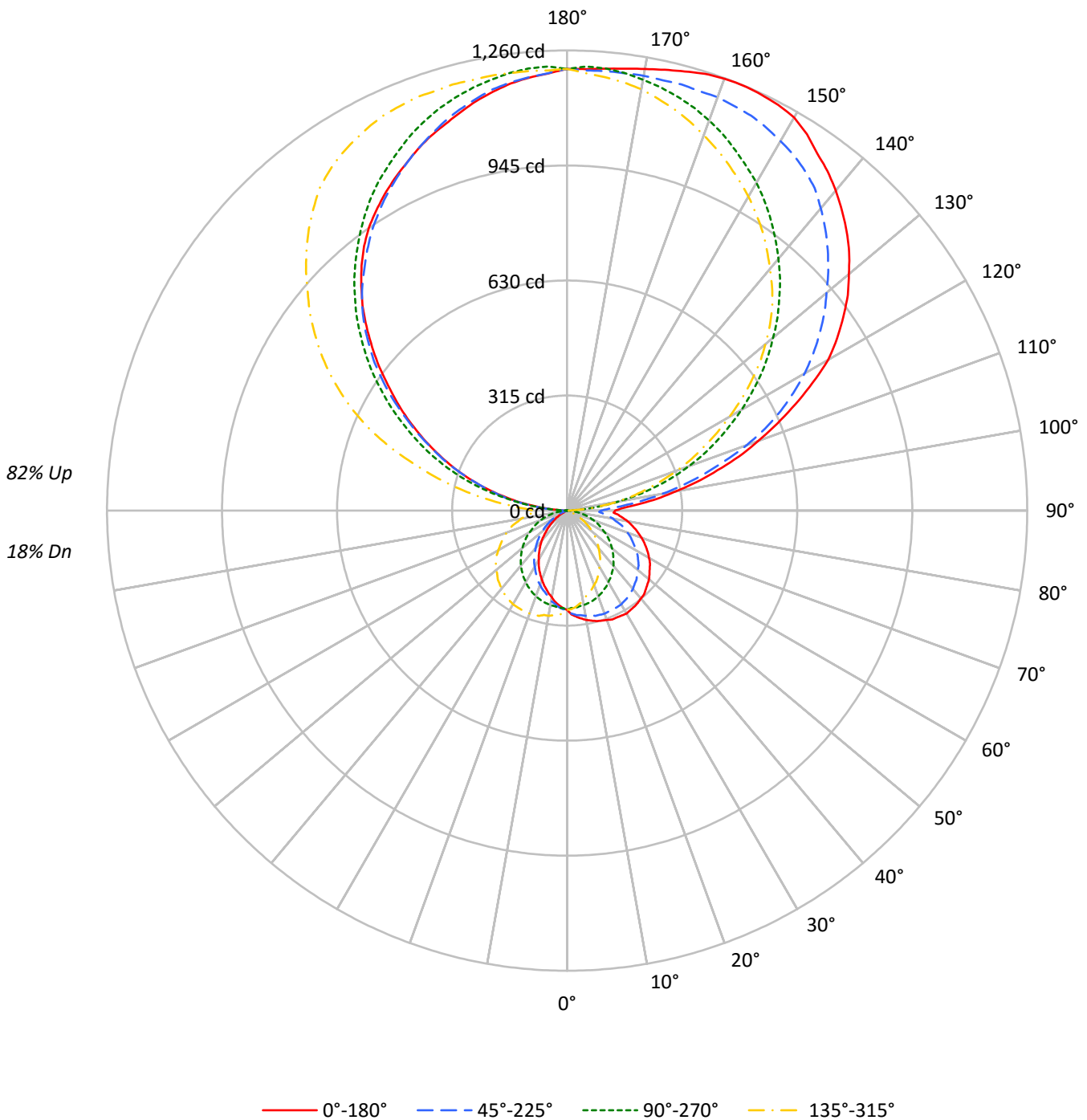
Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 4747.8 lumens
Efficiency: 80.5%
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.24 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.19' x L: 3' x H: 0.09')
CIE Type: Semi-Indirect

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: 19088
CATALOG NUMBER: AW-WO-2T8

Luminous Intensity Polar Plot





TEST NUMBER: 19088
 CATALOG NUMBER: AW-WO-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	80	80	80	80	71	71	71	71	53	53	53	37	37	37	22	22	22	15
1	73	69	66	63	64	61	58	56	46	44	42	32	31	30	19	18	18	12
2	66	60	55	51	58	53	49	46	40	37	35	28	26	24	16	15	15	10
3	60	53	47	42	53	47	42	38	35	32	29	24	22	21	14	13	12	8
4	55	46	40	36	48	41	36	32	31	27	25	21	19	17	13	11	10	7
5	50	41	35	30	44	36	31	27	27	24	21	19	17	15	11	10	9	6
6	46	37	30	26	40	33	27	23	25	21	18	17	15	13	10	9	8	5
7	42	33	27	23	37	29	24	20	22	18	16	16	13	11	9	8	7	4
8	39	30	24	20	34	26	21	18	20	16	14	14	12	10	8	7	6	4
9	36	27	21	17	32	24	19	16	18	15	12	13	11	9	8	6	5	4
10	34	25	19	15	30	22	17	14	17	13	11	12	9	8	7	6	5	3

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5129	5129	5129	5129
5°	5515	4865	4908	4865
10°	5799	4654	4595	4654
15°	6074	4472	4309	4472
20°	6337	4275	4006	4275
25°	6631	4065	3697	4065
30°	6977	3861	3335	3861
35°	7246	3675	2980	3675
40°	7555	3482	2631	3482
45°	7900	3242	2134	3242
50°	8302	3008	1693	3008
55°	8707	2751	1263	2751
60°	9295	2458	725	2458
65°	10038	2168	344	2168
70°	11049	1838	311	1838
75°	12664	1442	217	1442
80°	15669	959	307	959
85°	22830	402	81	402



TEST NUMBER: 19088
 CATALOG NUMBER: AW-WO-2T8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	25.8	0.5	0.4
10°-20°	73.9	1.6	1.3
20°-30°	112.9	2.4	1.9
30°-40°	137.5	2.9	2.3
40°-50°	144.3	3.0	2.4
50°-60°	134.3	2.8	2.3
60°-70°	110.4	2.3	1.9
70°-80°	82.2	1.7	1.4
80°-90°	53.3	1.1	0.9
90°-100°	112.0	2.4	1.9
100°-110°	314.1	6.6	5.3
110°-120°	511.3	10.8	8.7
120°-130°	642.3	13.5	10.9
130°-140°	686.6	14.5	11.6
140°-150°	642.7	13.5	10.9
150°-160°	516.9	10.9	8.8
160°-170°	332.7	7.0	5.6
170°-180°	114.6	2.4	1.9
0°-30°	212.6	4.5	3.6
0°-40°	350.1	7.4	5.9
0°-60°	628.7	13.2	10.7
0°-90°	874.7	18.4	14.8
90°-120°	937.4	19.7	15.9
90°-150°	2908.9	61.3	49.3
90°-180°	3873.0	81.6	65.6
0°-180°	4747.8	100.0	80.5

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	272	272	272	272	272	
5°	292	267	260	267	292	28
15°	313	258	222	258	313	89
25°	323	238	180	238	323	149
35°	321	212	132	212	321	201
45°	305	179	82	179	305	236
55°	276	140	40	140	276	248
65°	239	98	8	98	239	237
75°	193	55	3	55	193	203
85°	142	12	0	12	142	121
90°	131	0	0	0	131	74
95°	194	50	43	50	194	182
105°	426	250	225	250	426	452
115°	690	453	410	453	690	684
125°	923	647	599	647	923	825
135°	1082	821	792	821	1082	835
145°	1194	972	946	972	1194	750
155°	1257	1089	1046	1089	1257	581
165°	1245	1172	1129	1172	1245	353
175°	1215	1215	1190	1215	1215	116
180°	1209	1209	1209	1209	1209	



TEST NUMBER: 19088
 CATALOG NUMBER: AW-WO-2T8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6
2.5°	285.0	279.4	282.2	269.1	266.8	262.5	270.1	265.3	267.3	265.3	270.1
5°	291.7	286.0	287.1	271.9	267.3	258.9	265.3	256.8	259.6	256.8	265.3
7.5°	298.3	291.7	288.9	273.7	263.9	254.0	257.8	249.4	252.2	249.4	257.8
10°	304.0	297.3	292.7	273.7	263.0	250.4	251.2	240.9	240.9	240.9	251.2
12.5°	308.6	300.1	292.7	274.8	260.1	244.8	240.2	231.7	232.5	231.7	240.2
15°	313.2	305.8	298.3	274.8	257.8	238.1	232.5	220.4	222.2	220.4	232.5
17.5°	316.0	308.6	299.1	273.7	254.0	232.5	225.0	209.9	212.7	209.9	225.0
20°	318.8	311.4	300.1	271.9	249.4	226.1	216.6	200.7	201.5	200.7	216.6
22.5°	322.7	314.2	299.1	270.9	244.8	218.4	209.1	189.4	191.2	189.4	209.1
25°	322.7	316.0	299.1	267.3	238.2	209.9	198.6	178.1	179.9	178.1	198.6
27.5°	323.7	315.3	297.3	264.5	233.5	201.5	187.4	166.8	168.6	166.8	187.4
30°	325.5	316.0	296.3	259.6	225.5	194.0	177.1	156.6	155.6	156.6	177.1
32.5°	322.7	314.2	292.7	256.0	219.9	184.5	168.6	145.3	144.3	145.3	168.6
35°	320.9	314.2	289.9	250.4	212.3	175.3	157.4	134.0	132.0	134.0	157.4
37.5°	318.1	310.4	284.2	244.8	204.8	165.8	145.3	122.8	120.7	122.8	145.3
40°	314.2	306.8	280.4	240.2	197.4	156.6	134.0	111.5	109.4	111.5	134.0
42.5°	311.4	303.0	273.0	232.5	187.4	147.1	123.5	97.4	95.3	97.4	123.5
45°	304.7	296.3	268.1	226.8	178.9	136.9	112.3	84.1	82.3	84.1	112.3
47.5°	298.3	290.7	259.6	218.4	169.5	126.4	102.0	71.0	71.0	71.0	102.0
50°	292.7	284.2	252.2	209.9	160.2	114.3	90.7	59.7	59.7	59.7	90.7
52.5°	284.2	277.6	246.6	203.5	149.9	104.8	78.4	50.5	49.5	50.5	78.4
55°	275.8	270.1	237.3	194.0	140.1	94.6	66.4	41.0	40.0	41.0	66.4
57.5°	269.1	260.7	228.9	186.6	130.6	84.1	55.1	31.5	29.7	31.5	55.1
60°	258.9	253.2	217.6	174.3	118.5	72.0	43.8	21.3	20.2	21.3	43.8
62.5°	249.4	244.8	207.1	165.8	107.6	61.8	34.3	13.8	11.8	13.8	34.3
65°	239.1	231.7	196.8	153.8	97.8	50.5	25.9	8.2	8.2	8.2	25.9
67.5°	227.9	220.4	187.4	144.3	87.0	40.0	17.4	4.3	7.2	4.3	17.4
70°	216.6	209.9	175.3	132.0	76.6	29.7	10.0	4.3	6.1	4.3	10.0
72.5°	204.3	197.9	164.8	122.8	66.4	17.4	6.1	4.3	4.3	4.3	6.1
75°	193.0	188.4	153.8	110.5	54.7	11.0	4.3	3.3	3.3	3.3	4.3
77.5°	179.9	175.3	137.6	99.2	43.3	5.4	3.3	2.6	0.5	2.6	3.3
80°	168.6	161.2	127.4	90.7	32.5	1.5	1.5	2.6	3.3	2.6	1.5
82.5°	153.8	148.9	112.3	76.6	21.8	0.5	0.5	1.5	1.5	1.5	0.5
85°	141.5	138.7	100.2	64.6	11.9	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	127.4	122.8	87.9	51.3	1.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	131.2	111.5	92.5	40.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	149.9	124.6	113.3	55.1	16.1	32.5	14.6	19.5	7.2	19.5	14.6
95°	194.0	164.0	154.5	93.5	49.5	69.2	52.3	59.7	42.8	59.7	52.3
97.5°	248.4	213.8	208.1	140.4	93.5	108.7	94.6	103.8	85.1	103.8	94.6
100°	300.1	270.9	266.3	195.8	142.5	174.3	139.7	175.3	131.2	175.3	139.7
102.5°	364.0	296.3	327.3	223.2	196.8	195.8	182.7	198.6	177.1	198.6	182.7
105°	426.0	385.5	389.3	316.0	249.8	243.7	226.8	243.7	225.0	243.7	226.8
107.5°	493.7	454.9	453.2	378.1	303.9	297.3	270.1	290.7	270.9	290.7	270.1
110°	556.5	517.0	522.6	432.4	354.1	347.0	319.9	335.8	318.8	335.8	319.9



TEST NUMBER: 19088
 CATALOG NUMBER: AW-WO-2T8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	623.1	590.3	586.4	487.0	404.8	398.8	368.6	383.7	364.0	383.7	368.6
115°	689.7	653.1	645.6	536.7	453.2	447.5	412.9	431.6	410.1	431.6	412.9
117.5°	758.2	724.6	698.2	591.1	501.1	495.4	463.4	479.6	457.8	479.6	463.4
120°	825.1	787.4	750.7	641.0	550.8	541.3	512.4	529.3	505.7	529.3	512.4
122.5°	876.6	841.0	798.7	694.3	598.2	610.0	563.9	602.3	552.6	602.3	563.9
125°	922.7	862.5	843.8	717.9	647.1	631.6	614.6	626.9	598.7	626.9	614.6
127.5°	968.6	925.5	887.9	788.4	692.6	674.6	664.4	672.8	649.5	672.8	664.4
130°	1007.1	971.4	927.3	831.5	736.3	716.9	708.4	717.9	697.2	717.9	708.4
132.5°	1047.6	1009.9	969.6	868.1	781.2	760.2	753.6	765.9	745.1	765.9	753.6
135°	1082.2	1047.6	1009.1	905.8	821.2	800.5	794.1	808.9	792.0	808.9	794.1
137.5°	1114.2	1077.5	1046.5	939.4	863.0	841.0	830.7	851.2	834.3	851.2	830.7
140°	1144.2	1114.2	1080.4	973.2	900.0	877.6	863.5	887.9	875.6	887.9	863.5
142.5°	1171.4	1144.2	1113.2	1003.5	936.6	914.3	899.1	920.7	913.2	920.7	899.1
145°	1193.9	1173.4	1135.7	1032.4	972.3	966.8	933.0	964.0	946.1	964.0	933.0
147.5°	1222.1	1186.5	1154.4	1043.7	1005.6	984.5	963.0	978.9	973.2	978.9	963.0
150°	1242.9	1218.3	1168.5	1080.4	1036.7	1014.5	993.0	1003.5	999.6	1003.5	993.0
152.5°	1252.1	1230.6	1181.9	1100.9	1062.9	1044.7	1019.4	1029.6	1024.0	1029.6	1019.4
155°	1257.0	1237.2	1192.9	1121.6	1088.8	1071.9	1045.5	1055.0	1046.5	1055.0	1045.5
157.5°	1259.8	1242.9	1198.5	1138.5	1115.1	1096.3	1070.9	1076.5	1070.1	1076.5	1070.9
160°	1258.8	1242.9	1204.2	1152.6	1136.6	1119.8	1093.4	1096.3	1091.6	1096.3	1093.4
162.5°	1254.1	1240.8	1204.2	1168.5	1156.5	1140.3	1117.0	1116.0	1109.3	1116.0	1117.0
165°	1244.7	1236.2	1208.0	1180.8	1172.4	1159.3	1136.8	1135.7	1129.1	1135.7	1136.8
167.5°	1236.2	1229.5	1207.0	1190.1	1186.5	1181.9	1154.4	1161.1	1148.8	1161.1	1154.4
170°	1227.7	1226.7	1209.0	1194.9	1197.6	1187.2	1171.4	1168.5	1164.9	1168.5	1171.4
172.5°	1220.3	1217.5	1208.0	1206.2	1208.4	1196.7	1182.6	1182.6	1179.8	1182.6	1182.6
175°	1214.7	1212.6	1208.0	1209.8	1215.1	1203.4	1191.1	1192.9	1190.1	1192.9	1191.1
177.5°	1209.8	1210.8	1206.2	1212.6	1217.0	1209.0	1198.5	1199.5	1197.8	1199.5	1198.5
180°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3



TEST NUMBER: 19088
 CATALOG NUMBER: AW-WO-2T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	271.6	271.6	271.6	271.6	271.6	271.6
2.5°	262.5	266.8	269.1	282.2	279.4	285.0
5°	258.9	267.3	271.9	287.1	286.0	291.7
7.5°	254.0	263.9	273.7	288.9	291.7	298.3
10°	250.4	263.0	273.7	292.7	297.3	304.0
12.5°	244.8	260.1	274.8	292.7	300.1	308.6
15°	238.1	257.8	274.8	298.3	305.8	313.2
17.5°	232.5	254.0	273.7	299.1	308.6	316.0
20°	226.1	249.4	271.9	300.1	311.4	318.8
22.5°	218.4	244.8	270.9	299.1	314.2	322.7
25°	209.9	238.2	267.3	299.1	316.0	322.7
27.5°	201.5	233.5	264.5	297.3	315.3	323.7
30°	194.0	225.5	259.6	296.3	316.0	325.5
32.5°	184.5	219.9	256.0	292.7	314.2	322.7
35°	175.3	212.3	250.4	289.9	314.2	320.9
37.5°	165.8	204.8	244.8	284.2	310.4	318.1
40°	156.6	197.4	240.2	280.4	306.8	314.2
42.5°	147.1	187.4	232.5	273.0	303.0	311.4
45°	136.9	178.9	226.8	268.1	296.3	304.7
47.5°	126.4	169.5	218.4	259.6	290.7	298.3
50°	114.3	160.2	209.9	252.2	284.2	292.7
52.5°	104.8	149.9	203.5	246.6	277.6	284.2
55°	94.6	140.1	194.0	237.3	270.1	275.8
57.5°	84.1	130.6	186.6	228.9	260.7	269.1
60°	72.0	118.5	174.3	217.6	253.2	258.9
62.5°	61.8	107.6	165.8	207.1	244.8	249.4
65°	50.5	97.8	153.8	196.8	231.7	239.1
67.5°	40.0	87.0	144.3	187.4	220.4	227.9
70°	29.7	76.6	132.0	175.3	209.9	216.6
72.5°	17.4	66.4	122.8	164.8	197.9	204.3
75°	11.0	54.7	110.5	153.8	188.4	193.0
77.5°	5.4	43.3	99.2	137.6	175.3	179.9
80°	1.5	32.5	90.7	127.4	161.2	168.6
82.5°	0.5	21.8	76.6	112.3	148.9	153.8
85°	0.5	11.9	64.6	100.2	138.7	141.5
87.5°	0.5	1.5	51.3	87.9	122.8	127.4
90°	0.5	0.5	40.0	92.5	111.5	131.2
92.5°	32.5	16.1	55.1	113.3	124.6	149.9
95°	69.2	49.5	93.5	154.5	164.0	194.0
97.5°	108.7	93.5	140.4	208.1	213.8	248.4
100°	174.3	142.5	195.8	266.3	270.9	300.1
102.5°	195.8	196.8	223.2	327.3	296.3	364.0
105°	243.7	249.8	316.0	389.3	385.5	426.0
107.5°	297.3	303.9	378.1	453.2	454.9	493.7
110°	347.0	354.1	432.4	522.6	517.0	556.5



TEST NUMBER: 19088
 CATALOG NUMBER: AW-WO-2T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	398.8	404.8	487.0	586.4	590.3	623.1
115°	447.5	453.2	536.7	645.6	653.1	689.7
117.5°	495.4	501.1	591.1	698.2	724.6	758.2
120°	541.3	550.8	641.0	750.7	787.4	825.1
122.5°	610.0	598.2	694.3	798.7	841.0	876.6
125°	631.6	647.1	717.9	843.8	862.5	922.7
127.5°	674.6	692.6	788.4	887.9	925.5	968.6
130°	716.9	736.3	831.5	927.3	971.4	1007.1
132.5°	760.2	781.2	868.1	969.6	1009.9	1047.6
135°	800.5	821.2	905.8	1009.1	1047.6	1082.2
137.5°	841.0	863.0	939.4	1046.5	1077.5	1114.2
140°	877.6	900.0	973.2	1080.4	1114.2	1144.2
142.5°	914.3	936.6	1003.5	1113.2	1144.2	1171.4
145°	966.8	972.3	1032.4	1135.7	1173.4	1193.9
147.5°	984.5	1005.6	1043.7	1154.4	1186.5	1222.1
150°	1014.5	1036.7	1080.4	1168.5	1218.3	1242.9
152.5°	1044.7	1062.9	1100.9	1181.9	1230.6	1252.1
155°	1071.9	1088.8	1121.6	1192.9	1237.2	1257.0
157.5°	1096.3	1115.1	1138.5	1198.5	1242.9	1259.8
160°	1119.8	1136.6	1152.6	1204.2	1242.9	1258.8
162.5°	1140.3	1156.5	1168.5	1204.2	1240.8	1254.1
165°	1159.3	1172.4	1180.8	1208.0	1236.2	1244.7
167.5°	1181.9	1186.5	1190.1	1207.0	1229.5	1236.2
170°	1187.2	1197.6	1194.9	1209.0	1226.7	1227.7
172.5°	1196.7	1208.4	1206.2	1208.0	1217.5	1220.3
175°	1203.4	1215.1	1209.8	1208.0	1212.6	1214.7
177.5°	1209.0	1217.0	1212.6	1206.2	1210.8	1209.8
180°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3

(END OF REPORT)