

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: 13592

Luminaire Tested: **AW-SP-1T8-1C-120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 13592
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AW-SP-1T8-1C-120
Description: FLUORESCENT WALL MOUNT LUMINAIRE WITH WHITE INTERIOR, SPECULAR REFLECTOR AND WHITE PLASTIC OVER PERFORATIONS "
Light Source: ONE PHILIPS 32 WATT FLUORESCENT LAMP

F32T8/TL8. LUMEN RATING = 3000 LMS.

Ballast/Driver: -

Summary

Lumens per Lamp: 3000 (1 lamp)
Luminaire Lumens: 1887.8 lumens
Efficiency: 62.9%
Efficacy: 65.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.12 / 1.3
Luminous Opening: Rectangular (W 0.29' x L: 3.67' x H: 0')
CIE Type: Indirect

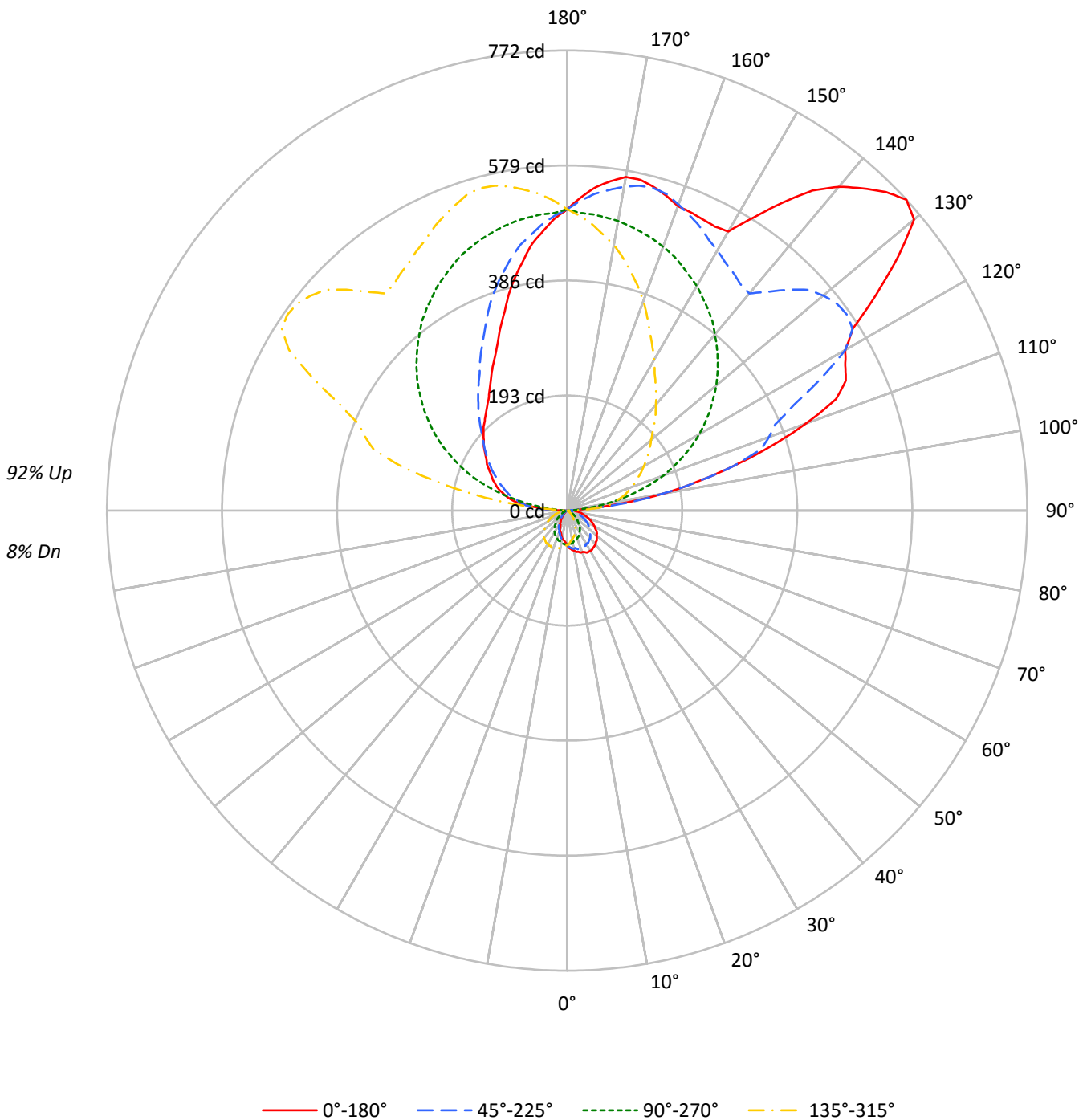
Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: 13592

CATALOG NUMBER: AW-SP-1T8-1C-120

Luminous Intensity Polar Plot





TEST NUMBER: 13592

CATALOG NUMBER: AW-SP-1T8-1C-120

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	61	61	61	61	53	53	53	53	38	38	38	24	24	24	11	11	11	5
1	56	53	51	49	48	46	44	42	33	32	31	21	20	19	9	9	9	4
2	51	46	43	40	44	40	37	35	29	27	25	18	17	16	8	8	8	3
3	46	41	36	33	40	35	32	29	25	23	21	16	15	14	7	7	6	3
4	42	36	31	28	36	31	27	24	22	20	18	14	13	12	7	6	6	2
5	38	32	27	23	33	28	24	21	20	17	15	13	11	10	6	5	5	2
6	35	28	24	20	30	25	21	18	18	15	13	11	10	9	5	5	4	2
7	32	25	21	17	28	22	18	15	16	13	11	10	9	8	5	4	4	2
8	30	23	18	15	26	20	16	13	14	12	10	9	8	7	4	4	3	2
9	28	21	16	13	24	18	14	12	13	11	9	8	7	6	4	3	3	1
10	26	19	15	12	22	16	13	10	12	10	8	8	6	5	4	3	3	1

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	571	571	571	571
5°	651	572	520	572
10°	696	564	488	564
15°	747	550	410	550
20°	798	526	373	526
25°	869	514	295	514
30°	910	486	252	486
35°	937	461	199	461
40°	978	408	153	408
45°	1010	358	100	358
50°	1009	334	94	334
55°	1063	261	26	261
60°	1072	225	10	225
65°	1094	165	12	165
70°	1130	83	15	83
75°	1168	39	20	39
80°	1375	29	29	29
85°	1868	58	58	58



TEST NUMBER: 13592

CATALOG NUMBER: AW-SP-1T8-1C-120

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	5.4	0.3	0.2
10°-20°	15.3	0.8	0.5
20°-30°	22.5	1.2	0.7
30°-40°	25.9	1.4	0.9
40°-50°	25.1	1.3	0.8
50°-60°	21.3	1.1	0.7
60°-70°	15.2	0.8	0.5
70°-80°	9.3	0.5	0.3
80°-90°	4.9	0.3	0.2
90°-100°	53.1	2.8	1.8
100°-110°	186.8	9.9	6.2
110°-120°	265.7	14.1	8.9
120°-130°	307.6	16.3	10.3
130°-140°	298.3	15.8	9.9
140°-150°	249.2	13.2	8.3
150°-160°	199.3	10.6	6.6
160°-170°	135.2	7.2	4.5
170°-180°	47.9	2.5	1.6
0°-30°	43.1	2.3	1.4
0°-40°	69.1	3.7	2.3
0°-60°	115.5	6.1	3.8
0°-90°	144.8	7.7	4.8
90°-120°	505.6	26.8	16.9
90°-150°	1360.7	72.1	45.4
90°-180°	1743.0	92.3	58.1
0°-180°	1887.8	100.0	62.9

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	56	56	56	56	56	
5°	64	56	51	56	64	6
15°	71	52	39	52	71	20
25°	78	46	26	46	78	36
35°	76	37	16	37	76	48
45°	71	25	7	25	71	54
55°	60	15	2	15	60	53
65°	46	7	0	7	46	45
75°	30	1	0	1	30	32
85°	16	0	0	0	16	15
90°	13	0	0	0	13	7
95°	22	19	43	19	22	56
105°	289	120	111	120	289	307
115°	516	215	140	215	516	499
125°	634	293	168	293	634	570
135°	756	357	198	357	756	581
145°	631	412	230	412	631	397
155°	539	454	286	454	539	250
165°	562	483	377	483	562	158
175°	544	499	470	499	544	53
180°	505	505	505	505	505	



TEST NUMBER: 13592

CATALOG NUMBER: AW-SP-1T8-1C-120

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
2.5°	62.3	60.3	60.3	56.8	57.2	54.8	57.5	54.8	54.0	54.8	57.5
5°	64.1	61.3	62.3	58.5	56.3	54.0	54.0	52.0	51.2	52.0	54.0
7.5°	66.8	64.1	64.1	59.5	55.8	53.0	50.2	50.2	49.2	50.2	50.2
10°	67.8	65.8	65.1	59.5	54.9	50.2	49.2	45.7	47.5	45.7	49.2
12.5°	71.3	67.8	64.1	59.5	52.6	47.5	46.5	43.0	43.7	43.0	46.5
15°	71.3	68.6	66.8	58.5	52.5	46.5	44.7	40.2	39.2	40.2	44.7
17.5°	74.1	71.3	67.8	58.5	51.6	43.7	40.2	36.4	37.4	36.4	40.2
20°	74.1	71.3	66.8	59.5	48.9	42.0	39.2	32.7	34.7	32.7	39.2
22.5°	75.1	73.4	67.8	56.8	48.4	39.2	33.7	29.9	29.9	29.9	33.7
25°	77.9	73.4	65.1	55.8	46.1	37.4	32.7	26.4	26.4	26.4	32.7
27.5°	77.9	74.1	66.8	54.8	44.7	33.7	29.9	23.6	26.4	23.6	29.9
30°	77.9	74.1	64.1	53.0	41.6	31.9	27.1	21.6	21.6	21.6	27.1
32.5°	77.9	73.4	65.1	52.0	40.1	28.1	24.4	18.8	19.8	18.8	24.4
35°	75.9	71.3	63.1	50.2	37.3	26.4	20.8	16.1	16.1	16.1	20.8
37.5°	75.1	71.3	61.3	50.2	34.5	23.6	17.1	12.6	13.3	12.6	17.1
40°	74.1	69.6	60.3	44.7	30.9	19.8	15.3	10.5	11.6	10.5	15.3
42.5°	71.3	68.6	57.5	43.7	28.1	17.1	12.6	9.8	10.5	9.8	12.6
45°	70.6	66.8	54.8	42.0	25.0	15.3	11.6	7.0	7.0	7.0	11.6
47.5°	67.8	65.1	53.0	38.2	23.5	11.6	8.8	5.0	7.8	5.0	8.8
50°	64.1	62.3	49.2	35.4	21.2	10.5	7.8	4.3	6.0	4.3	7.8
52.5°	63.1	59.5	46.5	32.7	18.5	8.8	6.0	3.3	4.3	3.3	6.0
55°	60.3	55.8	43.7	29.1	14.8	7.0	5.0	4.3	1.5	4.3	5.0
57.5°	55.8	53.0	40.9	26.4	12.9	4.3	4.3	1.5	0.5	1.5	4.3
60°	53.0	50.2	38.2	22.6	11.1	3.3	2.3	0.5	0.5	0.5	2.3
62.5°	49.2	45.7	33.7	19.8	7.8	2.3	1.5	0.5	0.5	0.5	1.5
65°	45.7	42.0	30.9	17.1	6.9	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	42.0	38.2	27.1	15.3	4.6	0.5	0.5	0.5	0.5	0.5	0.5
70°	38.2	34.7	23.6	12.6	2.8	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	34.7	29.9	20.8	10.5	1.0	0.5	0.5	0.5	0.5	0.5	0.5
75°	29.9	26.4	17.1	7.8	1.0	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	26.4	22.6	13.3	7.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	23.6	20.8	10.5	4.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	19.8	16.1	9.8	3.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	16.1	15.3	7.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	12.6	12.6	6.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	13.3	11.1	8.8	2.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	13.3	10.5	6.0	18.8	6.5	19.8	25.4	10.5	19.8	10.5	25.4
95°	21.6	52.0	36.4	61.3	19.3	38.2	51.2	37.4	43.0	37.4	51.2
97.5°	94.5	128.4	103.5	112.8	39.2	48.5	70.6	62.3	68.6	62.3	70.6
100°	163.3	185.4	162.5	151.5	66.3	56.8	80.6	84.2	90.7	84.2	80.6
102.5°	224.1	249.0	224.1	173.6	93.1	66.8	88.9	96.2	101.7	96.2	88.9
105°	288.7	326.3	288.7	218.6	120.2	76.9	99.0	106.3	111.0	106.3	99.0
107.5°	357.5	380.6	340.2	267.3	146.8	86.9	107.3	113.8	121.1	113.8	107.3
110°	426.6	442.1	360.3	285.9	171.7	97.2	114.6	121.1	127.6	121.1	114.6



TEST NUMBER: 13592

CATALOG NUMBER: AW-SP-1T8-1C-120

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	488.4	470.8	377.8	299.7	193.3	108.3	123.9	128.4	134.9	128.4	123.9
115°	515.8	486.4	420.0	307.0	214.9	118.3	131.1	134.9	140.4	134.9	131.1
117.5°	526.1	499.2	480.1	308.0	236.0	132.1	140.4	142.2	147.7	142.2	140.4
120°	538.9	537.9	538.9	305.2	255.9	144.2	148.7	150.5	155.3	150.5	148.7
122.5°	568.3	601.4	567.5	308.0	274.3	158.8	157.0	157.0	160.5	157.0	157.0
125°	633.6	666.7	573.0	326.3	292.7	172.6	166.1	164.3	168.1	164.3	166.1
127.5°	699.9	725.8	570.3	345.7	308.9	189.2	175.4	172.6	176.4	172.6	175.4
130°	759.7	721.0	561.0	364.0	326.7	204.0	183.6	179.1	182.6	179.1	183.6
132.5°	771.8	709.2	548.2	381.6	342.4	217.8	194.7	185.4	190.2	185.4	194.7
135°	755.9	694.4	524.0	400.9	357.1	238.9	206.8	194.7	198.5	194.7	206.8
137.5°	733.1	668.5	497.4	423.8	371.9	256.2	219.6	203.0	204.7	203.0	219.6
140°	709.2	640.1	475.3	441.4	385.6	275.6	231.6	211.3	212.3	211.3	231.6
142.5°	676.8	598.7	478.1	460.7	400.4	290.4	245.2	218.6	220.6	218.6	245.2
145°	630.8	555.5	486.4	478.1	411.9	315.3	259.0	231.6	229.6	231.6	259.0
147.5°	583.1	526.8	493.6	493.6	422.9	332.6	272.8	243.4	241.7	243.4	272.8
150°	540.6	527.8	504.0	506.7	435.2	352.0	292.2	258.3	255.5	258.3	292.2
152.5°	537.1	532.3	513.0	515.8	444.2	370.6	309.8	272.1	271.1	272.1	309.8
155°	538.9	535.1	526.1	522.3	454.2	386.1	329.1	286.6	285.9	286.6	329.1
157.5°	541.6	538.9	536.1	526.8	463.9	403.7	351.2	308.0	304.2	308.0	351.2
160°	543.4	547.2	546.2	527.8	470.8	417.3	374.1	327.1	327.1	327.1	374.1
162.5°	553.7	556.5	556.5	530.6	477.7	433.1	394.4	351.2	349.2	351.2	394.4
165°	562.0	564.7	560.0	529.6	483.2	444.9	413.8	376.1	376.8	376.1	413.8
167.5°	568.3	567.5	558.2	528.8	488.8	458.7	433.9	403.7	401.7	403.7	433.9
170°	568.3	561.0	551.7	525.1	493.3	469.8	452.4	425.6	425.6	425.6	452.4
172.5°	557.2	550.9	542.6	521.3	496.0	478.1	466.3	446.9	451.4	446.9	466.3
175°	544.4	536.1	533.3	515.8	498.8	489.1	481.8	469.0	469.8	469.0	481.8
177.5°	526.1	521.3	520.5	510.2	499.8	496.4	494.7	482.8	490.1	482.8	494.7
180°	505.4	505.4	505.4	505.4	505.4	505.4	505.4	505.4	505.4	505.4	505.4



TEST NUMBER: 13592

CATALOG NUMBER: AW-SP-1T8-1C-120

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	56.5	56.5	56.5	56.5	56.5	56.5
2.5°	54.8	57.2	56.8	60.3	60.3	62.3
5°	54.0	56.3	58.5	62.3	61.3	64.1
7.5°	53.0	55.8	59.5	64.1	64.1	66.8
10°	50.2	54.9	59.5	65.1	65.8	67.8
12.5°	47.5	52.6	59.5	64.1	67.8	71.3
15°	46.5	52.5	58.5	66.8	68.6	71.3
17.5°	43.7	51.6	58.5	67.8	71.3	74.1
20°	42.0	48.9	59.5	66.8	71.3	74.1
22.5°	39.2	48.4	56.8	67.8	73.4	75.1
25°	37.4	46.1	55.8	65.1	73.4	77.9
27.5°	33.7	44.7	54.8	66.8	74.1	77.9
30°	31.9	41.6	53.0	64.1	74.1	77.9
32.5°	28.1	40.1	52.0	65.1	73.4	77.9
35°	26.4	37.3	50.2	63.1	71.3	75.9
37.5°	23.6	34.5	50.2	61.3	71.3	75.1
40°	19.8	30.9	44.7	60.3	69.6	74.1
42.5°	17.1	28.1	43.7	57.5	68.6	71.3
45°	15.3	25.0	42.0	54.8	66.8	70.6
47.5°	11.6	23.5	38.2	53.0	65.1	67.8
50°	10.5	21.2	35.4	49.2	62.3	64.1
52.5°	8.8	18.5	32.7	46.5	59.5	63.1
55°	7.0	14.8	29.1	43.7	55.8	60.3
57.5°	4.3	12.9	26.4	40.9	53.0	55.8
60°	3.3	11.1	22.6	38.2	50.2	53.0
62.5°	2.3	7.8	19.8	33.7	45.7	49.2
65°	0.5	6.9	17.1	30.9	42.0	45.7
67.5°	0.5	4.6	15.3	27.1	38.2	42.0
70°	0.5	2.8	12.6	23.6	34.7	38.2
72.5°	0.5	1.0	10.5	20.8	29.9	34.7
75°	0.5	1.0	7.8	17.1	26.4	29.9
77.5°	0.5	0.5	7.0	13.3	22.6	26.4
80°	0.5	0.5	4.3	10.5	20.8	23.6
82.5°	0.5	0.5	3.3	9.8	16.1	19.8
85°	0.5	0.5	0.5	7.8	15.3	16.1
87.5°	0.5	0.5	0.5	6.0	12.6	12.6
90°	0.5	0.5	2.3	8.8	11.1	13.3
92.5°	19.8	6.5	18.8	6.0	10.5	13.3
95°	38.2	19.3	61.3	36.4	52.0	21.6
97.5°	48.5	39.2	112.8	103.5	128.4	94.5
100°	56.8	66.3	151.5	162.5	185.4	163.3
102.5°	66.8	93.1	173.6	224.1	249.0	224.1
105°	76.9	120.2	218.6	288.7	326.3	288.7
107.5°	86.9	146.8	267.3	340.2	380.6	357.5
110°	97.2	171.7	285.9	360.3	442.1	426.6



TEST NUMBER: 13592

CATALOG NUMBER: AW-SP-1T8-1C-120

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	108.3	193.3	299.7	377.8	470.8	488.4
115°	118.3	214.9	307.0	420.0	486.4	515.8
117.5°	132.1	236.0	308.0	480.1	499.2	526.1
120°	144.2	255.9	305.2	538.9	537.9	538.9
122.5°	158.8	274.3	308.0	567.5	601.4	568.3
125°	172.6	292.7	326.3	573.0	666.7	633.6
127.5°	189.2	308.9	345.7	570.3	725.8	699.9
130°	204.0	326.7	364.0	561.0	721.0	759.7
132.5°	217.8	342.4	381.6	548.2	709.2	771.8
135°	238.9	357.1	400.9	524.0	694.4	755.9
137.5°	256.2	371.9	423.8	497.4	668.5	733.1
140°	275.6	385.6	441.4	475.3	640.1	709.2
142.5°	290.4	400.4	460.7	478.1	598.7	676.8
145°	315.3	411.9	478.1	486.4	555.5	630.8
147.5°	332.6	422.9	493.6	493.6	526.8	583.1
150°	352.0	435.2	506.7	504.0	527.8	540.6
152.5°	370.6	444.2	515.8	513.0	532.3	537.1
155°	386.1	454.2	522.3	526.1	535.1	538.9
157.5°	403.7	463.9	526.8	536.1	538.9	541.6
160°	417.3	470.8	527.8	546.2	547.2	543.4
162.5°	433.1	477.7	530.6	556.5	556.5	553.7
165°	444.9	483.2	529.6	560.0	564.7	562.0
167.5°	458.7	488.8	528.8	558.2	567.5	568.3
170°	469.8	493.3	525.1	551.7	561.0	568.3
172.5°	478.1	496.0	521.3	542.6	550.9	557.2
175°	489.1	498.8	515.8	533.3	536.1	544.4
177.5°	496.4	499.8	510.2	520.5	521.3	526.1
180°	505.4	505.4	505.4	505.4	505.4	505.4

(END OF REPORT)