

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: 16234

Luminaire Tested: **IW-SP-1T8-IC-120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 16234
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IW-SP-1T8-IC-120
Description: DIRECT/INDIRECT WALL MOUNT - IRIDIUM WALL WITH SPECULAR REFLECTOR
AND WHITE LENS OVER PERFORATIONS
Light Source: ONE PHILIPS 32 WATT T8 LAMP

F32T8/TL841. LUMEN RATING = 3000 LMS.

Ballast/Driver: -

Summary

Lumens per Lamp: 3000 (1 lamp)
Luminaire Lumens: 1877.0 lumens
Efficiency: 62.6%
Efficacy: 46.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.18 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3.67' x H: 0.09')
CIE Type: Indirect

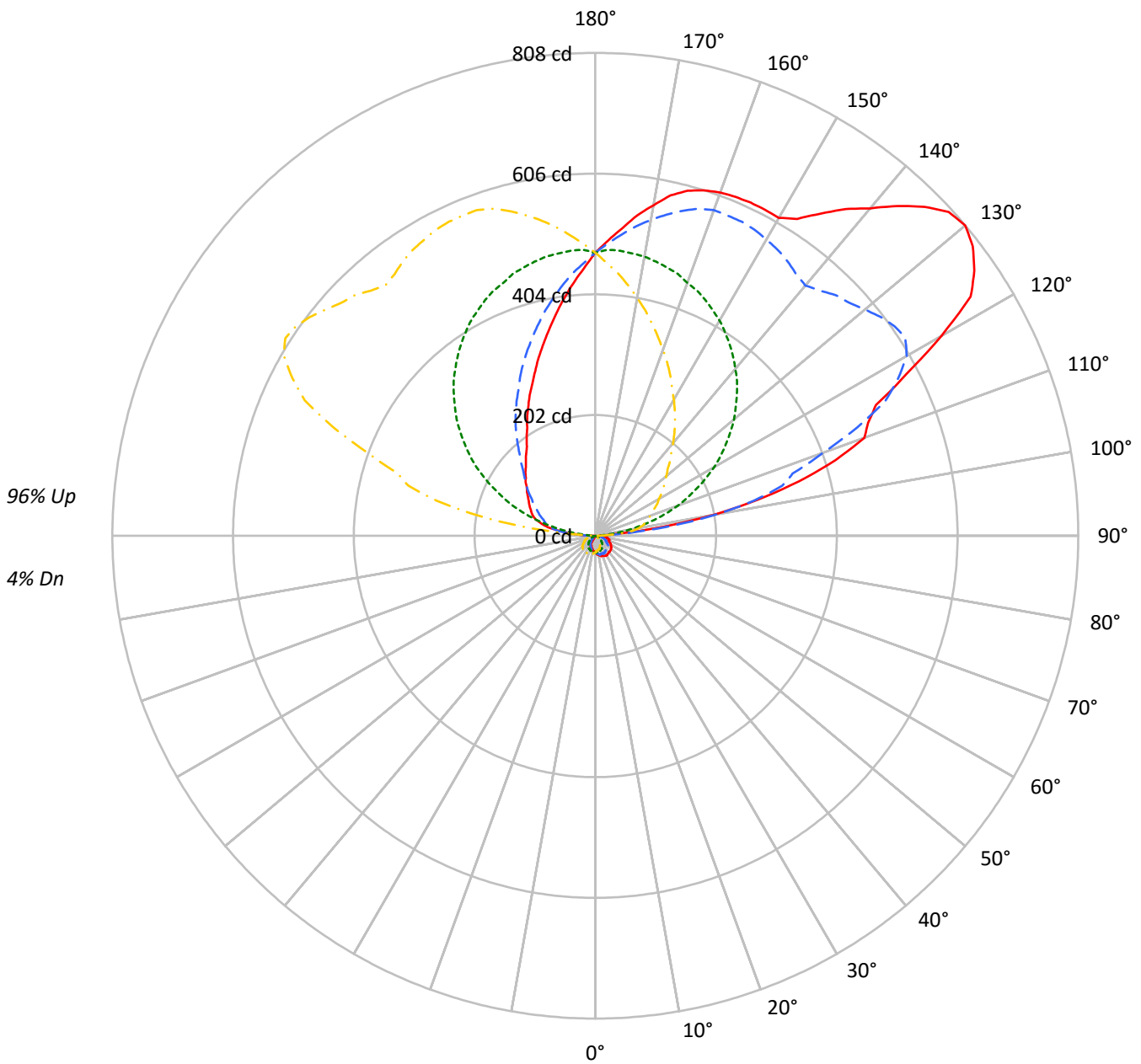
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	490	490	490	490
5°	531	457	463	457
10°	576	425	429	425
15°	625	408	385	408
20°	641	391	324	391
25°	706	365	365	365
30°	748	342	26	342
35°	760	315	197	315
40°	792	284	143	284
45°	838	242	100	242
50°	897	206	73	206
55°	959	190	15	190
60°	1016	131	17	131
65°	1070	61	19	61
70°	1092	66	24	66
75°	1502	20	31	20
80°	1823	12	44	12
85°	2041	14	77	14



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	2.7	0.1	0.1
10°-20°	7.7	0.4	0.3
20°-30°	11.7	0.6	0.4
30°-40°	13.6	0.7	0.5
40°-50°	13.7	0.7	0.5
50°-60°	12.4	0.7	0.4
60°-70°	9.6	0.5	0.3
70°-80°	7.2	0.4	0.2
80°-90°	4.0	0.2	0.1
90°-100°	58.7	3.1	2.0
100°-110°	199.6	10.6	6.7
110°-120°	281.3	15.0	9.4
120°-130°	325.0	17.3	10.8
130°-140°	300.2	16.0	10.0
140°-150°	252.9	13.5	8.4
150°-160°	201.2	10.7	6.7
160°-170°	130.6	7.0	4.4
170°-180°	44.9	2.4	1.5
0°-30°	22.1	1.2	0.7
0°-40°	35.7	1.9	1.2
0°-60°	61.8	3.3	2.1
0°-90°	82.6	4.4	2.8
90°-120°	539.6	28.7	18.0
90°-150°	1417.7	75.5	47.3
90°-180°	1794.0	95.6	59.8
0°-180°	1877.0	100.0	62.6

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	28	28	28	28	28	
5°	31	28	27	28	31	3
15°	35	26	22	26	35	10
25°	38	24	19	24	38	17
35°	37	20	10	20	37	23
45°	35	15	4	15	35	27
55°	33	11	0	11	33	29
65°	28	3	0	3	28	26
75°	25	1	0	1	25	24
85°	13	0	0	0	13	13
90°	8	0	0	0	8	5
95°	34	17	38	17	34	69
105°	353	102	102	102	353	367
115°	518	187	122	187	518	538
125°	774	266	140	266	774	684
135°	778	335	164	335	778	599
145°	658	392	200	392	658	416
155°	615	436	260	436	615	284
165°	598	464	333	464	598	169
175°	516	479	424	479	516	51
180°	474	474	474	474	474	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
2.5°	29.1	29.1	29.1	28.5	28.5	27.6	25.4	26.8	27.6	26.8	25.4
5°	30.7	29.9	29.1	28.5	27.6	26.8	26.8	26.8	26.8	26.8	26.8
7.5°	32.2	29.9	30.7	29.1	28.5	26.8	24.6	25.4	25.4	25.4	24.6
10°	33.0	31.3	30.7	28.5	26.5	26.2	24.6	23.1	24.6	23.1	24.6
12.5°	33.6	33.0	32.2	28.5	26.9	23.9	23.1	23.1	22.3	23.1	23.1
15°	35.2	33.6	33.0	29.9	26.1	26.2	23.9	22.3	21.7	22.3	23.9
17.5°	35.9	33.0	31.3	29.9	26.5	23.1	23.1	20.9	23.1	20.9	23.1
20°	35.2	34.4	31.3	29.1	25.4	22.3	21.7	20.0	17.8	20.0	21.7
22.5°	36.7	34.4	32.2	29.1	24.2	22.3	19.4	17.2	20.9	17.2	19.4
25°	37.5	35.9	33.6	28.5	23.9	20.9	18.6	17.2	19.4	17.2	18.6
27.5°	37.5	35.9	31.3	27.6	23.9	20.0	17.2	14.1	17.2	14.1	17.2
30°	38.1	35.2	33.0	26.8	22.4	18.6	17.2	13.2	1.3	13.2	17.2
32.5°	37.5	35.2	30.7	26.8	22.0	17.8	15.5	10.4	11.8	10.4	15.5
35°	36.7	35.9	29.9	26.2	20.5	15.5	13.2	10.4	9.5	10.4	13.2
37.5°	35.9	35.9	31.3	25.4	18.6	14.1	11.8	8.1	7.3	8.1	11.8
40°	35.9	35.9	29.1	23.9	18.2	13.2	9.5	6.5	6.5	6.5	9.5
42.5°	35.9	35.9	30.7	23.9	16.6	11.8	8.7	5.8	5.8	5.8	8.7
45°	35.2	33.6	29.9	22.3	15.2	9.5	6.5	5.0	4.2	5.0	6.5
47.5°	35.2	33.6	27.6	21.7	13.7	8.7	5.8	3.6	2.8	3.6	5.8
50°	34.4	31.3	28.5	20.0	12.5	8.7	1.3	1.3	2.8	1.3	1.3
52.5°	33.6	33.0	27.6	20.0	12.2	6.5	4.2	1.3	0.5	1.3	4.2
55°	33.0	31.3	24.6	20.0	11.1	5.0	2.8	1.3	0.5	1.3	2.8
57.5°	30.7	29.1	23.1	17.2	8.8	4.2	1.3	0.5	0.5	0.5	1.3
60°	30.7	28.5	21.7	15.5	7.3	2.8	1.3	0.5	0.5	0.5	1.3
62.5°	27.6	26.8	19.4	13.2	6.9	1.3	0.5	0.5	0.5	0.5	0.5
65°	27.6	26.2	20.0	12.6	3.2	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	24.6	23.1	18.6	11.0	3.9	0.5	0.5	0.5	0.5	0.5	0.5
70°	23.1	21.7	16.3	9.5	3.2	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	24.6	20.9	14.9	8.1	2.4	0.5	0.5	0.5	0.5	0.5	0.5
75°	24.6	20.9	12.6	7.3	0.9	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	20.0	19.4	10.4	5.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	20.9	17.2	10.4	4.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	17.2	15.5	7.3	2.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	13.2	11.8	6.5	1.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	10.4	10.4	4.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	7.9	6.9	3.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	7.3	11.0	6.5	36.7	6.2	9.5	18.6	4.2	14.9	4.2	18.6
95°	34.4	67.5	58.5	96.1	16.7	31.3	40.4	29.1	37.5	29.1	40.4
97.5°	114.2	147.3	133.1	144.4	34.8	44.9	63.0	50.3	59.3	50.3	63.0
100°	200.1	264.1	205.3	209.2	55.6	51.1	73.5	72.9	79.7	72.9	73.5
102.5°	277.7	298.8	271.7	236.9	77.7	53.3	82.5	80.3	91.6	80.3	82.5
105°	352.9	366.5	323.7	276.8	101.5	62.2	87.1	95.5	102.3	95.5	87.1
107.5°	421.6	429.8	346.1	305.6	124.1	71.2	91.6	101.5	109.1	101.5	91.6
110°	478.7	450.2	404.9	321.4	146.6	78.8	98.4	107.4	113.6	107.4	98.4



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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°	493.7	477.9	474.2	331.1	166.9	87.9	103.7	111.3	117.3	111.3	103.7
115°	518.0	551.7	536.1	346.1	187.4	98.4	109.7	115.8	121.8	115.8	109.7
117.5°	587.3	630.9	571.5	361.3	208.8	110.5	117.3	120.4	125.5	120.4	117.3
120°	667.9	699.3	601.5	370.4	229.4	122.6	122.6	126.3	130.0	126.3	122.6
122.5°	744.6	743.1	615.0	393.6	248.7	136.8	131.5	130.9	135.4	130.9	131.5
125°	774.0	752.8	611.3	402.7	266.3	144.4	139.1	134.6	139.9	134.6	139.1
127.5°	795.8	761.8	601.5	422.2	284.8	165.4	146.7	142.8	146.7	142.8	146.7
130°	807.9	755.1	588.7	438.8	302.9	181.2	154.9	150.4	151.8	150.4	154.9
132.5°	801.9	733.3	576.6	456.1	318.4	197.9	164.0	156.3	158.6	156.3	164.0
135°	778.5	707.8	569.2	469.1	334.9	214.3	176.7	163.1	164.0	163.1	176.7
137.5°	748.3	682.1	556.2	482.4	350.7	230.2	188.0	170.7	172.2	170.7	188.0
140°	715.2	659.5	546.6	493.7	364.6	248.3	202.4	180.6	179.8	180.6	202.4
142.5°	688.9	635.4	551.7	503.6	378.3	263.5	217.4	189.7	188.0	189.7	217.4
145°	658.0	604.6	560.8	516.4	391.5	280.7	232.4	203.0	200.1	203.0	232.4
147.5°	628.6	602.3	567.6	519.4	403.8	287.5	247.6	209.2	212.1	209.2	247.6
150°	614.2	605.4	572.1	523.1	415.9	314.7	262.6	231.8	227.9	231.8	262.6
152.5°	615.0	607.6	577.4	524.0	425.3	329.7	277.7	246.0	243.1	246.0	277.7
155°	615.0	608.3	579.7	524.8	435.5	345.5	296.6	262.6	259.6	262.6	296.6
157.5°	613.6	606.8	579.7	523.1	444.1	360.5	313.8	279.9	275.4	279.9	313.8
160°	611.3	603.1	579.7	522.5	450.2	377.2	331.1	297.2	293.5	297.2	331.1
162.5°	606.0	598.6	573.7	520.3	459.2	391.4	348.4	316.9	313.8	316.9	348.4
165°	597.8	587.9	563.0	516.4	464.5	404.1	367.3	335.6	333.4	335.6	367.3
167.5°	583.4	560.8	550.3	507.3	469.7	418.5	386.2	356.0	354.5	356.0	386.2
170°	561.6	551.7	536.7	505.9	474.2	424.5	404.1	366.5	377.2	366.5	404.1
172.5°	541.2	529.9	522.5	499.1	476.5	443.4	422.2	399.8	400.4	399.8	422.2
175°	516.4	509.6	505.9	491.5	478.7	454.7	440.3	423.0	423.8	423.0	440.3
177.5°	494.6	487.0	490.0	484.1	479.1	464.5	456.1	444.2	447.1	444.2	456.1
180°	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5



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CATALOG NUMBER: IW-SP-1T8-IC-120

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	28.4	28.4	28.4	28.4	28.4	28.4
2.5°	27.6	28.5	28.5	29.1	29.1	29.1
5°	26.8	27.6	28.5	29.1	29.9	30.7
7.5°	26.8	28.5	29.1	30.7	29.9	32.2
10°	26.2	26.5	28.5	30.7	31.3	33.0
12.5°	23.9	26.9	28.5	32.2	33.0	33.6
15°	26.2	26.1	29.9	33.0	33.6	35.2
17.5°	23.1	26.5	29.9	31.3	33.0	35.9
20°	22.3	25.4	29.1	31.3	34.4	35.2
22.5°	22.3	24.2	29.1	32.2	34.4	36.7
25°	20.9	23.9	28.5	33.6	35.9	37.5
27.5°	20.0	23.9	27.6	31.3	35.9	37.5
30°	18.6	22.4	26.8	33.0	35.2	38.1
32.5°	17.8	22.0	26.8	30.7	35.2	37.5
35°	15.5	20.5	26.2	29.9	35.9	36.7
37.5°	14.1	18.6	25.4	31.3	35.9	35.9
40°	13.2	18.2	23.9	29.1	35.9	35.9
42.5°	11.8	16.6	23.9	30.7	35.9	35.9
45°	9.5	15.2	22.3	29.9	33.6	35.2
47.5°	8.7	13.7	21.7	27.6	33.6	35.2
50°	8.7	12.5	20.0	28.5	31.3	34.4
52.5°	6.5	12.2	20.0	27.6	33.0	33.6
55°	5.0	11.1	20.0	24.6	31.3	33.0
57.5°	4.2	8.8	17.2	23.1	29.1	30.7
60°	2.8	7.3	15.5	21.7	28.5	30.7
62.5°	1.3	6.9	13.2	19.4	26.8	27.6
65°	0.5	3.2	12.6	20.0	26.2	27.6
67.5°	0.5	3.9	11.0	18.6	23.1	24.6
70°	0.5	3.2	9.5	16.3	21.7	23.1
72.5°	0.5	2.4	8.1	14.9	20.9	24.6
75°	0.5	0.9	7.3	12.6	20.9	24.6
77.5°	0.5	0.5	5.0	10.4	19.4	20.0
80°	0.5	0.5	4.2	10.4	17.2	20.9
82.5°	0.5	0.5	2.8	7.3	15.5	17.2
85°	0.5	0.5	1.9	6.5	11.8	13.2
87.5°	0.5	0.5	0.5	4.2	10.4	10.4
90°	0.5	0.5	0.5	3.6	6.9	7.9
92.5°	9.5	6.2	36.7	6.5	11.0	7.3
95°	31.3	16.7	96.1	58.5	67.5	34.4
97.5°	44.9	34.8	144.4	133.1	147.3	114.2
100°	51.1	55.6	209.2	205.3	264.1	200.1
102.5°	53.3	77.7	236.9	271.7	298.8	277.7
105°	62.2	101.5	276.8	323.7	366.5	352.9
107.5°	71.2	124.1	305.6	346.1	429.8	421.6
110°	78.8	146.6	321.4	404.9	450.2	478.7



TEST NUMBER: 16234

CATALOG NUMBER: IW-SP-1T8-IC-120

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	87.9	166.9	331.1	474.2	477.9	493.7
115°	98.4	187.4	346.1	536.1	551.7	518.0
117.5°	110.5	208.8	361.3	571.5	630.9	587.3
120°	122.6	229.4	370.4	601.5	699.3	667.9
122.5°	136.8	248.7	393.6	615.0	743.1	744.6
125°	144.4	266.3	402.7	611.3	752.8	774.0
127.5°	165.4	284.8	422.2	601.5	761.8	795.8
130°	181.2	302.9	438.8	588.7	755.1	807.9
132.5°	197.9	318.4	456.1	576.6	733.3	801.9
135°	214.3	334.9	469.1	569.2	707.8	778.5
137.5°	230.2	350.7	482.4	556.2	682.1	748.3
140°	248.3	364.6	493.7	546.6	659.5	715.2
142.5°	263.5	378.3	503.6	551.7	635.4	688.9
145°	280.7	391.5	516.4	560.8	604.6	658.0
147.5°	287.5	403.8	519.4	567.6	602.3	628.6
150°	314.7	415.9	523.1	572.1	605.4	614.2
152.5°	329.7	425.3	524.0	577.4	607.6	615.0
155°	345.5	435.5	524.8	579.7	608.3	615.0
157.5°	360.5	444.1	523.1	579.7	606.8	613.6
160°	377.2	450.2	522.5	579.7	603.1	611.3
162.5°	391.4	459.2	520.3	573.7	598.6	606.0
165°	404.1	464.5	516.4	563.0	587.9	597.8
167.5°	418.5	469.7	507.3	550.3	560.8	583.4
170°	424.5	474.2	505.9	536.7	551.7	561.6
172.5°	443.4	476.5	499.1	522.5	529.9	541.2
175°	454.7	478.7	491.5	505.9	509.6	516.4
177.5°	464.5	479.1	484.1	490.0	487.0	494.6
180°	473.5	473.5	473.5	473.5	473.5	473.5

(END OF REPORT)