

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: 17906

Luminaire Tested: **E2W-WH-1T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 17906
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2W-WH-1T5
Description: DIRECT/INDIRECT WALL LUMINAIRE - ELEMENT WALL
WITH WHITE INTERIOR AND 38 CELL HI PERFORMANCE LOUVER BLADE

Light Source: ONE PHILIPS 54 WATT T5 LAMP

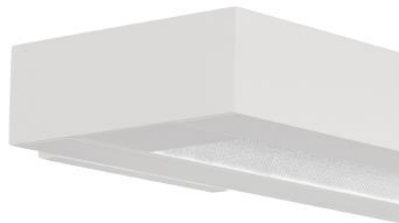
F54T5/841HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

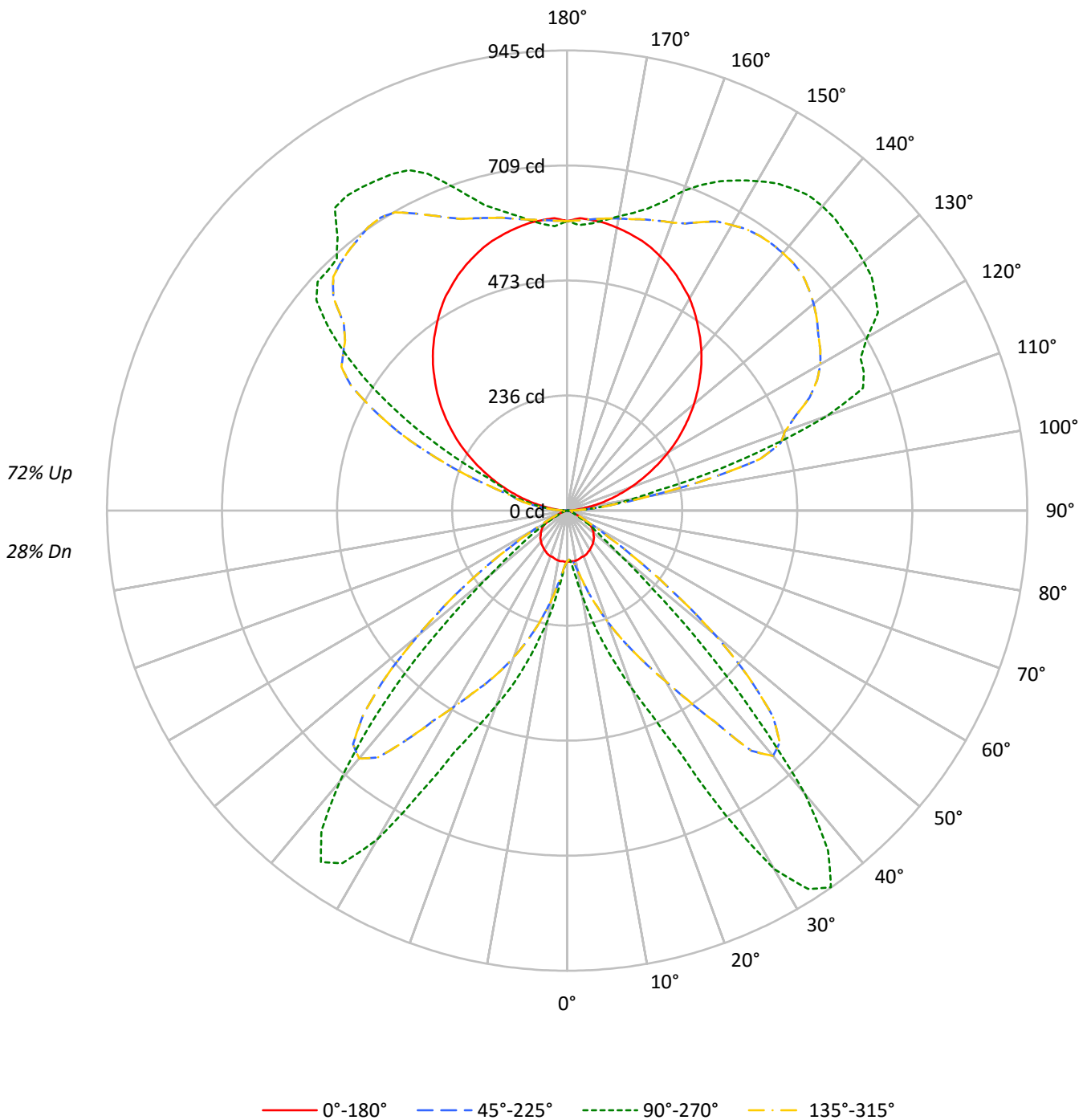
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 3797.1 lumens
Efficiency: 84.4%
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 2.35 / 2.1
Luminous Opening: Rectangular (W 0.22' x L: 3.59' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 64
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: 17906
CATALOG NUMBER: E2W-WH-1T5

Luminous Intensity Polar Plot





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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	50	30	10	0	
RCR																						
0	86	86	86	86	77	77	77	77	60	60	60	45	45	45	31	31	31	24				
1	79	76	73	70	71	68	65	63	53	52	50	40	39	38	28	27	27	21				
2	72	66	62	58	64	60	56	52	47	44	42	35	34	32	25	24	23	18				
3	66	58	53	48	59	53	48	44	42	38	35	31	29	27	22	21	20	16				
4	60	52	45	41	54	47	41	37	37	33	30	28	26	24	20	18	17	13				
5	55	46	39	35	49	41	36	32	33	29	26	25	22	20	18	16	15	12				
6	51	41	34	30	45	37	31	27	29	25	22	22	20	17	16	14	13	10				
7	46	37	30	26	42	33	28	24	26	22	19	20	17	15	14	13	11	9				
8	43	33	27	22	38	30	24	21	24	20	17	18	15	13	13	11	10	8				
9	40	30	24	20	36	27	22	18	22	18	15	17	14	12	12	10	9	7				
10	37	27	21	17	33	25	19	16	20	16	13	15	12	10	11	9	8	6				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	1426	1426	1426	1426
5°	1424	1504	1424	1962
10°	1441	2440	1441	3147
15°	1436	3896	1436	4587
20°	1449	5633	1449	6174
25°	1463	8227	1463	8215
30°	1465	13376	1465	12272
35°	1471	15716	1471	14663
40°	1478	13534	1478	12911
45°	1500	7679	1500	9016
50°	1503	2926	1503	4414
55°	1478	1651	1478	2305
60°	1341	872	1341	1104
65°	813	568	813	613
70°	514	450	514	426
75°	400	563	400	353
80°	385	479	385	353
85°	360	469	360	344



TEST NUMBER: 17906
 CATALOG NUMBER: E2W-WH-1T5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	12.4	0.3	0.3
10°-20°	60.8	1.6	1.4
20°-30°	162.9	4.3	3.6
30°-40°	327.4	8.6	7.3
40°-50°	314.5	8.3	7.0
50°-60°	144.9	3.8	3.2
60°-70°	37.1	1.0	0.8
70°-80°	10.0	0.3	0.2
80°-90°	3.1	0.1	0.1
90°-100°	51.8	1.4	1.2
100°-110°	242.9	6.4	5.4
110°-120°	419.2	11.0	9.3
120°-130°	515.0	13.6	11.4
130°-140°	509.9	13.4	11.3
140°-150°	437.3	11.5	9.7
150°-160°	312.5	8.2	6.9
160°-170°	177.9	4.7	4.0
170°-180°	57.6	1.5	1.3
0°-30°	236.2	6.2	5.2
0°-40°	563.5	14.8	12.5
0°-60°	1022.9	26.9	22.7
0°-90°	1073.0	28.3	23.8
90°-120°	713.8	18.8	15.9
90°-150°	2176.0	57.3	48.4
90°-180°	2724.0	71.7	60.5
0°-180°	3797.1	100.0	84.4

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	105	105	105	105	105	
5°	104	110	104	143	104	10
15°	102	276	102	325	102	29
25°	97	547	97	546	97	45
35°	88	945	88	881	88	55
45°	78	398	78	468	78	60
55°	62	70	62	97	62	55
65°	25	18	25	19	25	27
75°	8	11	8	7	8	8
85°	2	3	2	2	2	2
90°	0	0	0	0	0	1
95°	19	54	19	26	19	21
105°	91	310	91	118	91	97
115°	188	672	188	243	188	186
125°	291	772	291	551	291	260
135°	385	806	385	696	385	297
145°	467	807	467	789	467	292
155°	532	746	532	772	532	245
165°	576	642	576	649	576	163
175°	599	592	599	591	599	57
180°	594	594	594	594	594	



TEST NUMBER: 17906
 CATALOG NUMBER: E2W-WH-1T5

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6
2.5°	105.3	102.2	99.9	99.9	100.7	99.9	99.9	102.2	105.3	111.3	113.6
5°	104.1	99.2	100.7	101.5	109.9	101.5	100.7	99.2	104.1	122.8	132.8
7.5°	104.9	98.4	108.4	115.9	138.0	115.9	108.4	98.4	104.9	131.9	157.2
10°	104.1	97.6	124.4	143.4	176.3	143.4	124.4	97.6	104.1	144.2	186.9
12.5°	103.4	99.9	148.8	178.6	223.6	178.6	148.8	99.9	103.4	158.0	217.4
15°	101.8	103.8	178.6	226.5	276.1	226.5	178.6	103.8	101.8	174.0	251.1
17.5°	99.6	109.9	208.2	263.2	328.8	263.2	208.2	109.9	99.6	187.8	285.3
20°	99.9	122.2	243.4	321.3	388.4	321.3	243.4	122.2	99.9	205.3	319.6
22.5°	98.8	134.2	278.4	376.1	453.2	376.1	278.4	134.2	98.8	221.9	355.5
25°	97.3	148.8	315.9	437.1	547.1	437.1	315.9	148.8	97.3	238.0	389.8
27.5°	94.7	164.0	358.6	518.2	705.0	518.2	358.6	164.0	94.7	254.9	424.2
30°	93.1	179.2	404.4	639.4	850.0	639.4	404.4	179.2	93.1	271.5	465.5
32.5°	90.7	197.6	461.7	780.7	921.1	780.7	461.7	197.6	90.7	287.6	511.9
35°	88.4	212.8	530.3	834.0	944.6	834.0	530.3	212.8	88.4	303.6	574.6
37.5°	86.6	234.2	621.9	854.6	880.6	854.6	621.9	234.2	86.6	321.3	639.4
40°	83.1	254.0	657.7	803.6	760.7	803.6	657.7	254.0	83.1	336.5	664.6
42.5°	80.8	274.6	646.3	695.9	573.8	695.9	646.3	274.6	80.8	350.3	650.9
45°	77.8	296.1	597.5	537.1	398.4	537.1	597.5	296.1	77.8	357.8	591.3
47.5°	73.2	311.3	504.4	371.5	241.1	371.5	504.4	311.3	73.2	355.5	504.4
50°	70.9	316.7	394.4	231.9	138.0	231.9	394.4	316.7	70.9	340.3	399.8
52.5°	66.7	309.9	274.6	140.3	91.5	140.3	274.6	309.9	66.7	317.4	305.3
55°	62.2	289.2	172.4	86.1	69.5	86.1	172.4	289.2	62.2	259.4	213.6
57.5°	56.8	244.2	100.7	65.5	50.3	65.5	100.7	244.2	56.8	205.9	131.9
60°	49.2	182.4	57.2	45.1	32.0	45.1	57.2	182.4	49.2	137.4	80.9
62.5°	36.2	118.2	40.5	29.7	23.6	29.7	40.5	118.2	36.2	84.7	49.7
65°	25.2	70.1	27.4	21.3	17.6	21.3	27.4	70.1	25.2	45.1	32.8
67.5°	17.9	38.2	19.9	16.7	15.3	16.7	19.9	38.2	17.9	25.1	21.3
70°	12.9	22.8	13.6	14.5	11.3	14.5	13.6	22.8	12.9	17.6	16.7
72.5°	9.5	15.3	12.2	10.7	10.7	10.7	12.2	15.3	9.5	13.6	13.0
75°	7.6	11.3	9.0	8.4	10.7	8.4	9.0	11.3	7.6	9.9	9.9
77.5°	6.0	9.0	8.4	6.7	7.6	6.7	8.4	9.0	6.0	7.6	7.6
80°	4.9	7.6	5.3	6.7	6.1	6.7	5.3	7.6	4.9	6.1	6.7
82.5°	3.7	3.8	4.5	3.8	5.3	3.8	4.5	3.8	3.7	3.8	4.5
85°	2.3	1.5	3.0	3.8	3.0	3.8	3.0	1.5	2.3	1.5	3.8
87.5°	1.1	0.7	1.5	3.0	3.0	3.0	1.5	0.7	1.1	0.7	1.5
90°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	5.3	29.7	15.9	29.0	16.7	29.0	15.9	29.7	5.3	5.3	13.0
95°	18.6	70.1	54.9	65.5	54.2	65.5	54.9	70.1	18.6	23.6	32.0
97.5°	32.5	121.3	99.2	110.7	90.1	110.7	99.2	121.3	32.5	45.1	52.6
100°	49.7	285.3	173.2	205.9	134.2	205.9	173.2	285.3	49.7	69.5	80.1
102.5°	69.0	347.1	290.7	264.9	189.2	264.9	290.7	347.1	69.0	85.5	103.0
105°	90.8	431.9	410.5	393.0	310.5	393.0	410.5	431.9	90.8	110.7	118.2
107.5°	113.3	452.5	459.4	528.0	436.5	528.0	459.4	452.5	113.3	151.7	163.2
110°	138.1	476.1	476.1	609.6	567.7	609.6	476.1	476.1	138.1	216.7	234.2



TEST NUMBER: 17906
 CATALOG NUMBER: E2W-WH-1T5

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	162.5	523.4	507.3	624.8	657.7	624.8	507.3	523.4	162.5	291.5	305.9
115°	188.1	553.2	549.4	635.7	672.3	635.7	549.4	553.2	188.1	364.6	382.3
117.5°	213.6	576.1	578.4	674.6	679.2	674.6	578.4	576.1	213.6	434.2	448.0
120°	240.3	593.6	600.5	712.7	711.1	712.7	600.5	593.6	240.3	493.6	511.9
122.5°	266.3	615.9	616.5	740.2	756.9	740.2	616.5	615.9	266.3	532.5	549.4
125°	291.1	624.2	629.4	748.6	772.1	748.6	629.4	624.2	291.1	538.0	561.5
127.5°	315.5	639.4	646.3	759.2	788.2	759.2	646.3	639.4	315.5	556.9	574.6
130°	340.0	652.3	660.9	766.1	795.0	766.1	660.9	652.3	340.0	588.4	599.0
132.5°	363.2	664.6	673.0	775.2	801.3	775.2	673.0	664.6	363.2	638.6	651.7
135°	385.3	671.5	683.8	783.6	806.5	783.6	683.8	671.5	385.3	663.8	679.2
137.5°	407.9	675.2	688.2	789.0	813.4	789.0	688.2	675.2	407.9	674.6	689.0
140°	428.8	677.5	689.8	791.3	815.6	791.3	689.8	677.5	428.8	684.4	697.3
142.5°	448.3	678.4	690.4	788.2	815.6	788.2	690.4	678.4	448.3	693.6	703.6
145°	467.0	675.2	689.0	775.2	807.3	775.2	689.0	675.2	467.0	701.9	711.1
147.5°	485.7	673.0	685.2	769.8	797.3	769.8	685.2	673.0	485.7	703.6	713.4
150°	503.3	663.8	676.9	758.4	781.3	758.4	676.9	663.8	503.3	699.6	707.3
152.5°	517.3	653.2	669.2	744.0	764.6	744.0	669.2	653.2	517.3	681.5	688.2
155°	532.2	639.4	654.0	727.1	746.3	727.1	654.0	639.4	532.2	664.6	669.2
157.5°	544.8	630.2	638.0	705.0	724.2	705.0	638.0	630.2	544.8	647.7	651.7
160°	556.6	625.7	629.4	674.6	698.2	674.6	629.4	625.7	556.6	637.1	637.1
162.5°	567.6	621.1	624.2	651.7	665.5	651.7	624.2	621.1	567.6	629.4	629.4
165°	576.5	616.5	618.8	637.1	642.5	637.1	618.8	616.5	576.5	623.4	621.9
167.5°	583.4	610.5	612.7	621.1	625.7	621.1	612.7	610.5	583.4	618.0	615.9
170°	590.1	609.0	609.0	615.9	613.6	615.9	609.0	609.0	590.1	615.0	608.2
172.5°	595.6	605.9	605.0	606.7	602.1	606.7	605.0	605.9	595.6	605.9	602.7
175°	598.7	602.1	600.5	599.0	592.1	599.0	600.5	602.1	598.7	601.3	599.0
177.5°	601.0	600.5	596.7	594.4	586.7	594.4	596.7	600.5	601.0	600.5	595.9
180°	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4



TEST NUMBER: 17906
 CATALOG NUMBER: E2W-WH-1T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	104.6	104.6	104.6	104.6	104.6	104.6
2.5°	125.9	113.6	125.9	113.6	111.3	105.3
5°	155.7	143.4	155.7	132.8	122.8	104.1
7.5°	193.8	180.9	193.8	157.2	131.9	104.9
10°	236.5	227.4	236.5	186.9	144.2	104.1
12.5°	281.5	273.2	281.5	217.4	158.0	103.4
15°	331.9	325.1	331.9	251.1	174.0	101.8
17.5°	376.9	377.8	376.9	285.3	187.8	99.6
20°	425.1	425.7	425.1	319.6	205.3	99.9
22.5°	472.3	480.7	472.3	355.5	221.9	98.8
25°	533.4	546.3	533.4	389.8	238.0	97.3
27.5°	618.8	654.0	618.8	424.2	254.9	94.7
30°	731.1	779.8	731.1	465.5	271.5	93.1
32.5°	804.2	858.4	804.2	511.9	287.6	90.7
35°	828.6	881.3	828.6	574.6	303.6	88.4
37.5°	782.9	828.6	782.9	639.4	321.3	86.6
40°	692.1	725.7	692.1	664.6	336.5	83.1
42.5°	573.0	602.7	573.0	650.9	350.3	80.8
45°	452.5	467.8	452.5	591.3	357.8	77.8
47.5°	319.6	326.5	319.6	504.4	355.5	73.2
50°	209.9	208.2	209.9	399.8	340.3	70.9
52.5°	135.1	137.4	135.1	305.3	317.4	66.7
55°	88.4	97.0	88.4	213.6	259.4	62.2
57.5°	62.6	64.9	62.6	131.9	205.9	56.8
60°	37.4	40.5	37.4	80.9	137.4	49.2
62.5°	25.1	24.5	25.1	49.7	84.7	36.2
65°	18.2	19.0	18.2	32.8	45.1	25.2
67.5°	14.5	15.3	14.5	21.3	25.1	17.9
70°	10.7	10.7	10.7	16.7	17.6	12.9
72.5°	7.6	9.0	7.6	13.0	13.6	9.5
75°	6.7	6.7	6.7	9.9	9.9	7.6
77.5°	4.5	5.3	4.5	7.6	7.6	6.0
80°	4.5	4.5	4.5	6.7	6.1	4.9
82.5°	3.0	4.5	3.0	4.5	3.8	3.7
85°	2.2	2.2	2.2	3.8	1.5	2.3
87.5°	1.5	1.5	1.5	1.5	0.7	1.1
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	4.5	9.0	4.5	13.0	5.3	5.3
95°	21.3	25.9	21.3	32.0	23.6	18.6
97.5°	39.7	46.5	39.7	52.6	45.1	32.5
100°	60.3	64.9	60.3	80.1	69.5	49.7
102.5°	70.1	87.8	70.1	103.0	85.5	69.0
105°	115.9	117.6	115.9	118.2	110.7	90.8
107.5°	129.0	133.4	129.0	163.2	151.7	113.3
110°	139.7	144.2	139.7	234.2	216.7	138.1



TEST NUMBER: 17906
 CATALOG NUMBER: E2W-WH-1T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	186.9	176.3	186.9	305.9	291.5	162.5
115°	255.7	242.6	255.7	382.3	364.6	188.1
117.5°	336.5	318.2	336.5	448.0	434.2	213.6
120°	415.1	398.4	415.1	511.9	493.6	240.3
122.5°	495.9	477.8	495.9	549.4	532.5	266.3
125°	527.3	550.9	527.3	561.5	538.0	291.1
127.5°	626.5	617.3	626.5	574.6	556.9	315.5
130°	665.5	672.3	665.5	599.0	588.4	340.0
132.5°	670.7	695.0	670.7	651.7	638.6	363.2
135°	675.2	695.9	675.2	679.2	663.8	385.3
137.5°	686.7	700.4	686.7	689.0	674.6	407.9
140°	740.9	733.4	740.9	697.3	684.4	428.8
142.5°	771.5	783.6	771.5	703.6	693.6	448.3
145°	772.1	789.0	772.1	711.1	701.9	467.0
147.5°	771.5	786.7	771.5	713.4	703.6	485.7
150°	770.7	782.9	770.7	707.3	699.6	503.3
152.5°	767.5	779.0	767.5	688.2	681.5	517.3
155°	760.7	771.5	760.7	669.2	664.6	532.2
157.5°	738.6	748.6	738.6	651.7	647.7	544.8
160°	713.4	712.7	713.4	637.1	637.1	556.6
162.5°	676.1	678.4	676.1	629.4	629.4	567.6
165°	652.3	648.6	652.3	621.9	623.4	576.5
167.5°	635.7	631.1	635.7	615.9	618.0	583.4
170°	629.4	615.9	629.4	608.2	615.0	590.1
172.5°	611.3	602.1	611.3	602.7	605.9	595.6
175°	601.3	590.7	601.3	599.0	601.3	598.7
177.5°	595.2	584.4	595.2	595.9	600.5	601.0
180°	594.4	594.4	594.4	594.4	594.4	594.4

(END OF REPORT)