

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: 17905

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 17905
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2W-WB-1T5
Description: DIRECT/INDIRECT WALL LUMINAIRE - ELEMENT WALL WITH WHITE INTERIOR
AND 19 CELL SEMI-SPECULAR LOUVER BLADE
Light Source: ONE PHILIPS 54 WATT T5 LAMP

F54T5/841HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

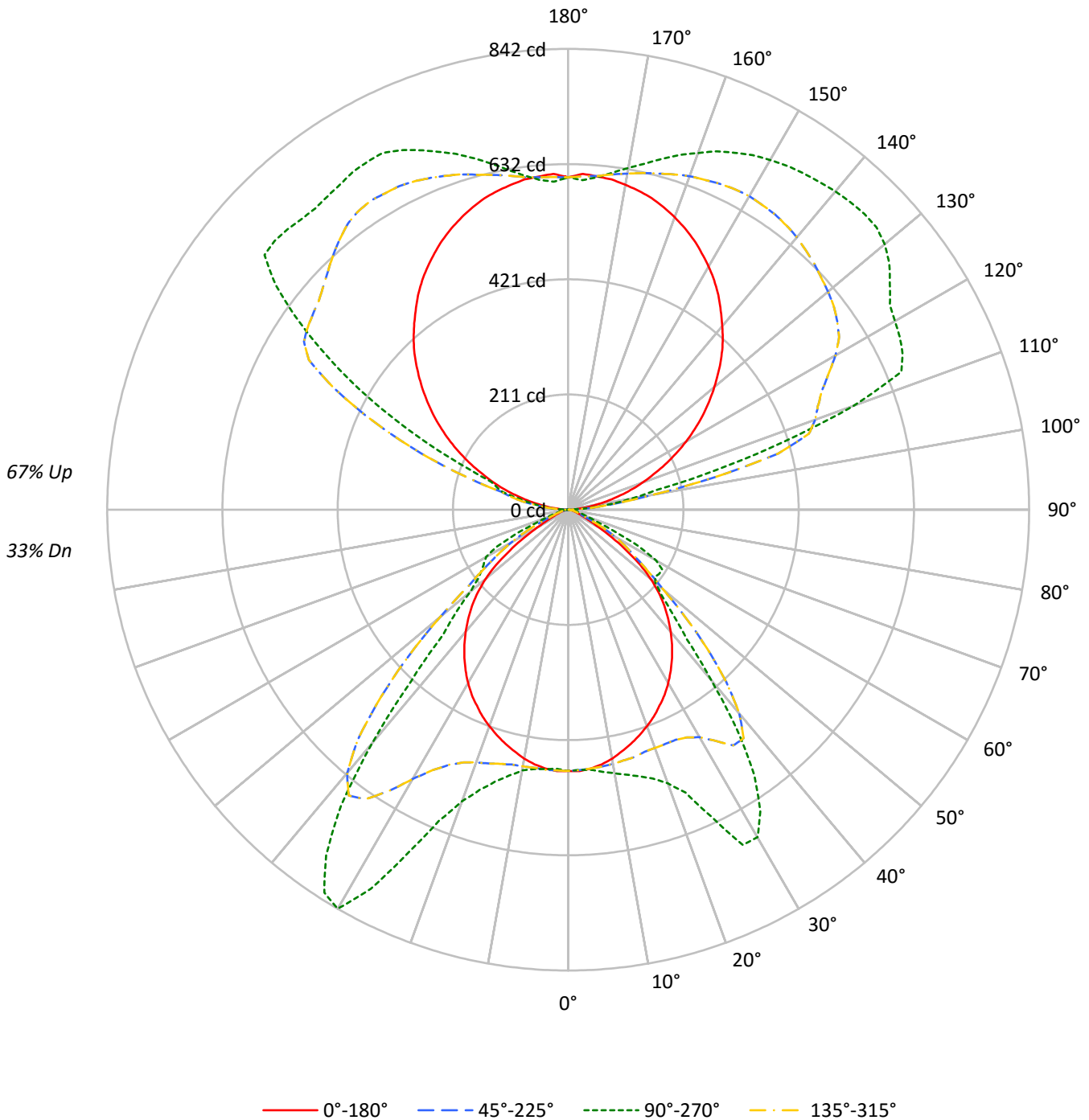
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 3823.5 lumens
Efficiency: 85.0%
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.64 / 1.48
Luminous Opening: Rectangular (W 0.22' x L: 3.59' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 64
Input Voltage (V): NR
Input Current (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: 17905
CATALOG NUMBER: E2W-WB-1T5

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10	0														
RCR																																						
0	88	88	88	88	79	79	79	79	63	63	63	48	48	48	34	34	34	28																				
1	80	77	74	71	72	70	67	65	56	54	53	43	42	41	31	31	30	25																				
2	74	68	63	59	66	61	57	54	49	47	44	38	37	35	28	27	26	22																				
3	67	60	54	50	61	54	50	46	44	41	38	34	32	30	25	24	23	19																				
4	62	53	47	42	56	48	43	39	39	35	32	31	28	26	23	21	20	16																				
5	57	48	41	36	51	43	38	34	35	31	28	28	25	23	21	19	18	14																				
6	52	43	36	32	47	39	33	29	32	28	25	25	22	20	19	17	16	13																				
7	48	38	32	28	44	35	30	26	29	25	22	23	20	18	17	15	14	11																				
8	45	35	29	24	40	32	26	23	26	22	19	21	18	16	16	14	12	10																				
9	42	32	26	22	38	29	24	20	24	20	17	19	16	14	14	13	11	9																				
10	39	29	23	19	35	27	21	18	22	18	15	18	15	13	13	11	10	8																				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6505	6505	6505	6505
5°	6493	6524	6493	6505
10°	6394	6767	6394	6695
15°	6249	7117	6249	7255
20°	6103	7714	6103	8222
25°	5937	9305	5937	10395
30°	5752	10879	5752	13246
35°	5497	9866	5497	12823
40°	5184	7211	5184	9924
45°	4786	5206	4786	6222
50°	4173	4402	4173	4936
55°	3091	4838	3091	4572
60°	1777	5034	1777	4721
65°	1019	2925	1019	3422
70°	745	1522	745	1638
75°	579	1169	579	1122
80°	447	887	447	840
85°	407	594	407	829



TEST NUMBER: 17905
 CATALOG NUMBER: E2W-WB-1T5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	45.4	1.2	1.0
10°-20°	135.1	3.5	3.0
20°-30°	238.4	6.2	5.3
30°-40°	328.1	8.6	7.3
40°-50°	263.9	6.9	5.9
50°-60°	159.3	4.2	3.5
60°-70°	62.6	1.6	1.4
70°-80°	17.1	0.4	0.4
80°-90°	4.5	0.1	0.1
90°-100°	50.3	1.3	1.1
100°-110°	233.5	6.1	5.2
110°-120°	400.5	10.5	8.9
120°-130°	480.6	12.6	10.7
130°-140°	467.6	12.2	10.4
140°-150°	399.0	10.4	8.9
150°-160°	299.4	7.8	6.7
160°-170°	179.4	4.7	4.0
170°-180°	58.7	1.5	1.3
0°-30°	419.0	11.0	9.3
0°-40°	747.1	19.5	16.6
0°-60°	1170.2	30.6	26.0
0°-90°	1254.5	32.8	27.9
90°-120°	684.3	17.9	15.2
90°-150°	2031.5	53.1	45.1
90°-180°	2569.0	67.2	57.1
0°-180°	3823.5	100.0	85.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	477	477	477	477	477	
5°	475	477	475	476	475	45
15°	443	504	443	514	443	125
25°	395	619	395	691	395	182
35°	330	593	330	771	330	206
45°	248	270	248	323	248	190
55°	130	204	130	192	130	116
65°	32	91	32	106	32	35
75°	11	22	11	21	11	12
85°	3	4	3	5	3	3
90°	0	0	0	0	0	1
95°	19	42	19	29	19	22
105°	95	278	95	123	95	101
115°	195	674	195	276	195	193
125°	300	717	300	601	300	268
135°	396	765	396	725	396	305
145°	478	750	478	726	478	299
155°	544	720	544	725	544	250
165°	590	664	590	665	590	166
175°	611	610	611	605	611	58
180°	607	607	607	607	607	



TEST NUMBER: 17905
 CATALOG NUMBER: E2W-WB-1T5

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3
2.5°	478.1	478.4	476.1	476.9	475.5	476.9	476.1	478.4	478.1	479.2	476.9
5°	474.6	476.1	474.6	476.9	476.9	476.9	474.6	476.1	474.6	476.9	476.9
7.5°	469.3	472.3	473.2	479.2	483.0	479.2	473.2	472.3	469.3	472.3	475.5
10°	462.0	466.3	471.5	480.7	489.0	480.7	471.5	466.3	462.0	467.8	476.1
12.5°	452.4	458.6	469.2	485.3	495.9	485.3	469.2	458.6	452.4	460.0	476.9
15°	442.9	449.4	467.8	489.0	504.4	489.0	467.8	449.4	442.9	452.5	480.7
17.5°	432.2	442.6	464.0	493.0	515.0	493.0	464.0	442.6	432.2	444.0	486.1
20°	420.8	431.9	463.2	502.1	531.9	502.1	463.2	431.9	420.8	437.1	491.3
22.5°	409.0	423.4	463.2	515.0	559.2	515.0	463.2	423.4	409.0	431.1	499.8
25°	394.8	413.6	464.0	537.1	618.8	537.1	464.0	413.6	394.8	426.5	514.2
27.5°	381.5	403.6	469.2	583.8	690.4	583.8	469.2	403.6	381.5	421.9	536.5
30°	365.5	393.0	479.8	640.9	691.3	640.9	479.8	393.0	365.5	416.5	567.7
32.5°	348.7	381.5	500.5	643.2	653.2	643.2	500.5	381.5	348.7	410.5	609.0
35°	330.4	372.3	525.7	609.6	593.0	609.6	525.7	372.3	330.4	407.6	645.5
37.5°	311.3	357.8	526.5	545.7	507.3	545.7	526.5	357.8	311.3	404.4	658.6
40°	291.4	348.0	486.1	466.3	405.3	466.3	486.1	348.0	291.4	401.3	628.0
42.5°	270.2	334.2	427.3	378.4	320.5	378.4	427.3	334.2	270.2	398.4	567.7
45°	248.3	321.3	358.6	293.8	270.1	293.8	358.6	321.3	248.3	393.0	483.0
47.5°	224.2	305.3	289.2	241.9	231.1	241.9	289.2	305.3	224.2	375.5	394.4
50°	196.8	280.7	225.9	204.4	207.6	204.4	225.9	280.7	196.8	338.8	305.3
52.5°	166.3	246.5	180.9	183.8	200.7	183.8	180.9	246.5	166.3	291.5	229.6
55°	130.1	195.3	148.0	171.7	203.6	171.7	148.0	195.3	130.1	209.0	186.1
57.5°	95.7	141.1	122.8	167.2	203.6	167.2	122.8	141.1	95.7	147.2	151.1
60°	65.2	82.4	99.2	155.7	184.7	155.7	99.2	82.4	65.2	86.1	119.9
62.5°	44.2	54.9	71.7	133.4	144.9	133.4	71.7	54.9	44.2	53.4	89.2
65°	31.6	35.9	45.7	91.5	90.7	91.5	45.7	35.9	31.6	35.9	58.8
67.5°	24.0	25.9	29.7	56.5	54.9	56.5	29.7	25.9	24.0	25.9	36.5
70°	18.7	20.5	23.6	38.2	38.2	38.2	23.6	20.5	18.7	20.5	25.9
72.5°	14.8	15.3	18.2	26.7	27.4	26.7	18.2	15.3	14.8	14.5	19.9
75°	11.0	13.0	14.5	19.9	22.2	19.9	14.5	13.0	11.0	13.0	14.5
77.5°	8.3	9.9	11.3	14.5	15.9	14.5	11.3	9.9	8.3	9.0	12.2
80°	5.7	8.4	8.4	11.3	11.3	11.3	8.4	8.4	5.7	7.6	7.6
82.5°	4.9	5.3	6.1	7.6	6.7	7.6	6.1	5.3	4.9	4.5	5.3
85°	2.6	3.8	3.8	5.3	3.8	5.3	3.8	3.8	2.6	2.2	4.5
87.5°	1.1	1.5	1.5	3.0	6.1	3.0	1.5	1.5	1.1	2.2	2.2
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°	6.9	24.5	10.7	22.2	6.7	22.2	10.7	24.5	6.9	6.1	13.6
95°	19.0	74.0	45.1	54.2	42.0	54.2	45.1	74.0	19.0	25.1	32.0
97.5°	33.9	168.6	87.0	96.1	76.3	96.1	87.0	168.6	33.9	53.4	54.2
100°	51.4	235.1	154.9	187.8	119.0	187.8	154.9	235.1	51.4	83.2	81.5
102.5°	72.4	247.1	272.4	249.4	162.6	249.4	272.4	247.1	72.4	104.5	104.5
105°	94.6	272.4	396.7	377.8	278.4	377.8	396.7	272.4	94.6	203.6	126.7
107.5°	119.8	303.6	460.9	515.0	412.8	515.0	460.9	303.6	119.8	267.1	186.1
110°	144.1	327.4	479.8	608.2	554.0	608.2	479.8	327.4	144.1	310.5	258.0



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 CATALOG NUMBER: E2W-WB-1T5

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	168.9	345.7	493.6	623.4	658.6	623.4	493.6	345.7	168.9	330.5	331.9
115°	195.0	364.0	510.5	636.3	673.8	636.3	510.5	364.0	195.0	346.3	409.6
117.5°	221.6	383.0	535.7	644.0	682.9	644.0	535.7	383.0	221.6	366.9	483.8
120°	248.4	403.6	563.8	656.3	689.0	656.3	563.8	403.6	248.4	389.2	547.1
122.5°	273.9	432.6	586.7	689.0	696.7	689.0	586.7	432.6	273.9	412.8	572.3
125°	299.9	440.3	599.8	700.4	717.3	700.4	599.8	440.3	299.9	422.8	580.7
127.5°	324.2	458.6	611.3	717.3	739.4	717.3	611.3	458.6	324.2	456.3	587.5
130°	348.6	475.5	619.6	727.9	754.6	727.9	619.6	475.5	348.6	474.6	594.4
132.5°	372.3	492.1	627.1	732.5	763.8	732.5	627.1	492.1	372.3	492.1	605.9
135°	396.1	507.3	635.7	732.5	764.6	732.5	635.7	507.3	396.1	507.3	619.6
137.5°	417.8	522.8	642.5	733.4	762.3	733.4	642.5	522.8	417.8	521.1	634.0
140°	438.0	535.7	650.0	731.7	759.2	731.7	650.0	535.7	438.0	535.7	647.7
142.5°	457.8	546.3	654.6	729.4	754.6	729.4	654.6	546.3	457.8	546.3	660.0
145°	478.4	561.5	658.6	724.8	750.0	724.8	658.6	561.5	478.4	557.8	666.9
147.5°	496.4	566.9	660.0	724.8	744.8	724.8	660.0	566.9	496.4	561.5	670.0
150°	513.2	574.6	661.5	719.6	737.9	719.6	661.5	574.6	513.2	574.6	667.7
152.5°	528.4	581.5	660.0	714.2	730.2	714.2	660.0	581.5	528.4	581.5	666.9
155°	543.7	588.4	656.9	705.9	719.6	705.9	656.9	588.4	543.7	586.7	662.3
157.5°	556.6	595.2	652.3	695.0	708.8	695.0	652.3	595.2	556.6	591.3	656.3
160°	568.8	600.5	648.6	682.9	693.6	682.9	648.6	600.5	568.8	595.9	649.4
162.5°	579.5	602.7	642.5	670.7	679.8	670.7	642.5	602.7	579.5	599.0	642.5
165°	589.5	605.0	635.7	656.9	663.8	656.9	635.7	605.0	589.5	601.3	633.4
167.5°	596.7	609.0	630.2	638.6	647.7	638.6	630.2	609.0	596.7	605.0	626.5
170°	602.7	609.6	623.4	634.0	634.0	634.0	623.4	609.6	602.7	605.9	619.6
172.5°	608.6	610.5	618.0	620.2	621.1	620.2	618.0	610.5	608.6	609.0	612.7
175°	611.2	611.3	611.9	613.6	609.6	613.6	611.9	611.3	611.2	610.5	609.6
177.5°	614.2	611.3	609.6	606.7	602.7	606.7	609.6	611.3	614.2	610.5	608.2
180°	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2



TEST NUMBER: 17905
 CATALOG NUMBER: E2W-WB-1T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	477.3	477.3	477.3	477.3	477.3	477.3
2.5°	476.9	473.8	476.9	476.9	479.2	478.1
5°	478.4	475.5	478.4	476.9	476.9	474.6
7.5°	480.7	477.8	480.7	475.5	472.3	469.3
10°	486.1	483.8	486.1	476.1	467.8	462.0
12.5°	498.2	497.5	498.2	476.9	460.0	452.4
15°	512.8	514.2	512.8	480.7	452.5	442.9
17.5°	531.1	536.5	531.1	486.1	444.0	432.2
20°	557.8	566.9	557.8	491.3	437.1	420.8
22.5°	596.7	614.2	596.7	499.8	431.1	409.0
25°	664.6	691.3	664.6	514.2	426.5	394.8
27.5°	747.1	780.7	747.1	536.5	421.9	381.5
30°	789.8	841.7	789.8	567.7	416.5	365.5
32.5°	777.5	829.4	777.5	609.0	410.5	348.7
35°	725.7	770.7	725.7	645.5	407.6	330.4
37.5°	635.7	681.5	635.7	658.6	404.4	311.3
40°	531.9	557.8	531.9	628.0	401.3	291.4
42.5°	402.1	425.1	402.1	567.7	398.4	270.2
45°	299.9	322.8	299.9	483.0	393.0	248.3
47.5°	252.6	278.4	252.6	394.4	375.5	224.2
50°	214.4	232.8	214.4	305.3	338.8	196.8
52.5°	186.9	207.6	186.9	229.6	291.5	166.3
55°	167.2	192.4	167.2	186.1	209.0	130.1
57.5°	153.4	182.4	153.4	151.1	147.2	95.7
60°	134.2	173.2	134.2	119.9	86.1	65.2
62.5°	106.1	148.0	106.1	89.2	53.4	44.2
65°	70.9	106.1	70.9	58.8	35.9	31.6
67.5°	42.8	64.0	42.8	36.5	25.9	24.0
70°	30.5	41.1	30.5	25.9	20.5	18.7
72.5°	21.3	28.2	21.3	19.9	14.5	14.8
75°	15.9	21.3	15.9	14.5	13.0	11.0
77.5°	12.2	15.3	12.2	12.2	9.0	8.3
80°	9.0	10.7	9.0	7.6	7.6	5.7
82.5°	6.7	9.0	6.7	5.3	4.5	4.9
85°	3.8	5.3	3.8	4.5	2.2	2.6
87.5°	1.5	3.8	1.5	2.2	2.2	1.1
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	4.5	11.3	4.5	13.6	6.1	6.9
95°	22.8	29.0	22.8	32.0	25.1	19.0
97.5°	42.8	49.7	42.8	54.2	53.4	33.9
100°	61.7	67.8	61.7	81.5	83.2	51.4
102.5°	70.9	90.7	70.9	104.5	104.5	72.4
105°	116.7	122.8	116.7	126.7	203.6	94.6
107.5°	131.9	136.5	131.9	186.1	267.1	119.8
110°	158.0	150.3	158.0	258.0	310.5	144.1



TEST NUMBER: 17905
 CATALOG NUMBER: E2W-WB-1T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	221.3	200.7	221.3	331.9	330.5	168.9
115°	296.7	275.5	296.7	409.6	346.3	195.0
117.5°	376.1	355.5	376.1	483.8	366.9	221.6
120°	454.8	440.3	454.8	547.1	389.2	248.4
122.5°	537.1	522.8	537.1	572.3	412.8	273.9
125°	572.3	601.3	572.3	580.7	422.8	299.9
127.5°	670.7	673.0	670.7	587.5	456.3	324.2
130°	696.7	724.2	696.7	594.4	474.6	348.6
132.5°	696.7	727.1	696.7	605.9	492.1	372.3
135°	695.9	724.8	695.9	619.6	507.3	396.1
137.5°	695.0	720.2	695.0	634.0	521.1	417.8
140°	697.3	718.8	697.3	647.7	535.7	438.0
142.5°	704.2	721.9	704.2	660.0	546.3	457.8
145°	711.1	725.7	711.1	666.9	557.8	478.4
147.5°	715.7	731.7	715.7	670.0	561.5	496.4
150°	725.7	734.0	725.7	667.7	574.6	513.2
152.5°	724.8	734.8	724.8	666.9	581.5	528.4
155°	718.8	724.8	718.8	662.3	586.7	543.7
157.5°	708.8	711.1	708.8	656.3	591.3	556.6
160°	696.7	695.9	696.7	649.4	595.9	568.8
162.5°	682.9	681.5	682.9	642.5	599.0	579.5
165°	667.7	664.6	667.7	633.4	601.3	589.5
167.5°	652.3	647.7	652.3	626.5	605.0	596.7
170°	645.5	630.2	645.5	619.6	605.9	602.7
172.5°	624.8	615.9	624.8	612.7	609.0	608.6
175°	615.0	605.0	615.0	609.6	610.5	611.2
177.5°	609.0	599.8	609.0	608.2	610.5	614.2
180°	607.2	607.2	607.2	607.2	607.2	607.2

(END OF REPORT)