

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: 19091

Luminaire Tested: **AW-WB-1T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 19091
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AW-WB-1T8
Description: CLASS A DIRECT/INDIRECT WALL LUMINAIRE WITH WHITE INTERIOR AND WHITE
18 CELL PERF BAFFLE
Light Source: ONE PHILIPS 32 WATT T8 LAMP

F32T8/TL841. LUMEN RATING = 2950 LMS.

Ballast/Driver: -

Summary

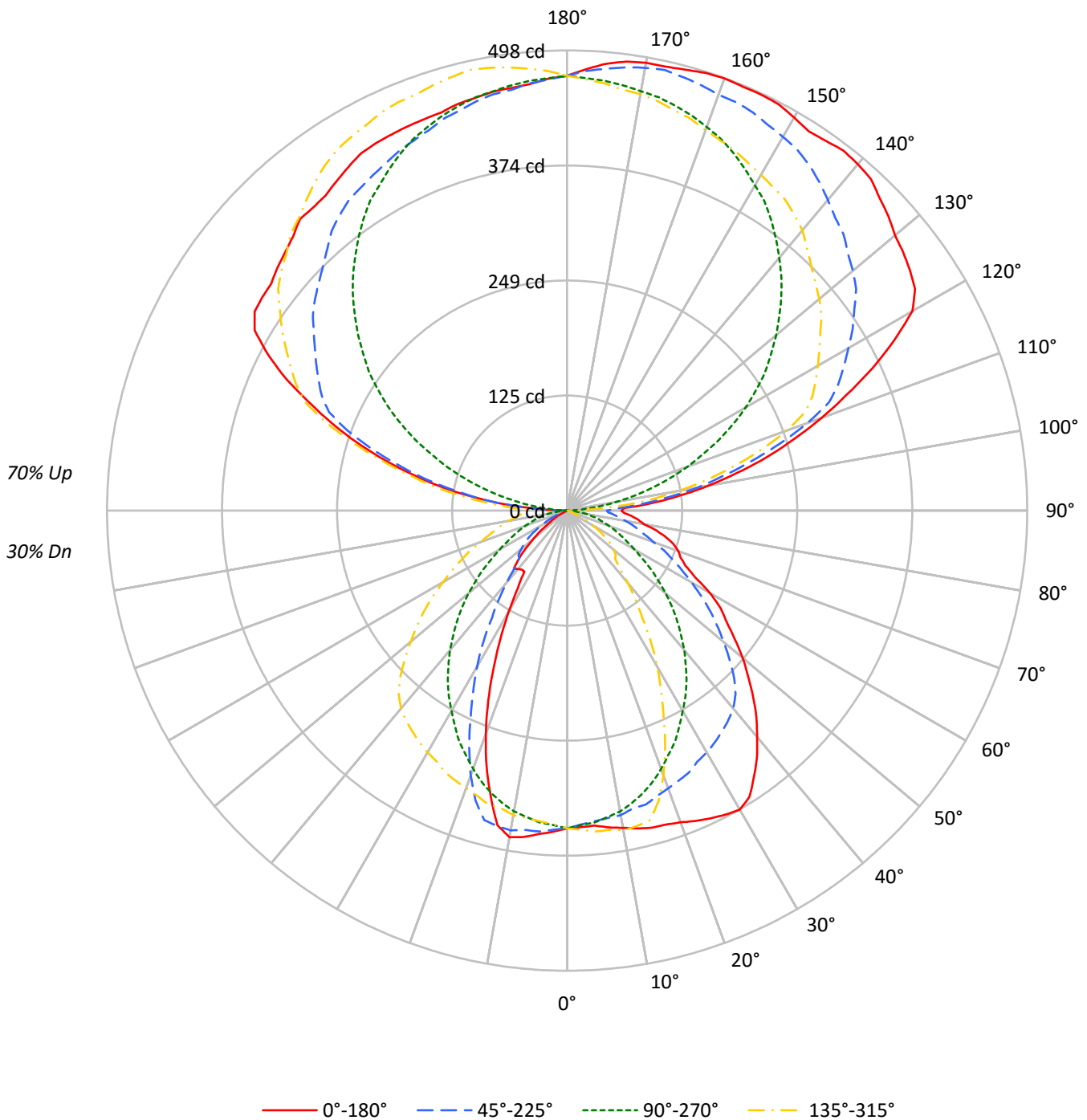
Lumens per Lamp: 2950 (1 lamp)
Luminaire Lumens: 2586.7 lumens
Efficiency: 87.7%
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.21
Luminous Opening: Rectangular w/ Sides (W: 0.19' x L: 3' x H: 0.09')
CIE Type: Semi-Indirect

Input Watts (W): 33
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: 19091
CATALOG NUMBER: AW-WB-1T8

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	0
RCR																		
0	90	90	90	90	80	80	80	80	63	63	63	47	47	47	33	33	33	26
1	82	78	75	72	73	70	67	65	55	53	52	42	40	39	29	28	28	22
2	74	68	63	59	67	61	57	53	49	46	43	37	35	33	26	25	23	19
3	68	60	54	49	61	54	49	45	43	39	36	33	30	28	23	21	20	16
4	62	53	47	42	56	48	42	38	38	34	31	29	26	24	21	19	18	14
5	57	47	41	36	51	43	37	33	34	30	27	26	23	21	19	17	15	12
6	53	42	36	31	47	38	33	28	31	26	23	24	21	18	17	15	14	11
7	49	38	32	27	44	35	29	25	28	24	20	22	19	16	16	14	12	10
8	45	35	28	24	40	31	26	22	25	21	18	20	17	15	14	12	11	9
9	42	32	25	21	38	29	23	19	23	19	16	18	15	13	13	11	10	8
10	39	29	23	19	35	26	21	17	21	17	15	17	14	12	12	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6494	6494	6494	6494
5°	6470	6169	6644	6169
10°	6649	5851	6848	5851
15°	6889	5492	6204	5492
20°	7137	5099	5117	5099
25°	7550	4712	3873	4712
30°	8010	4282	2707	4282
35°	7957	3895	1818	3895
40°	7692	3475	1986	3475
45°	7379	3048	1924	3048
50°	7040	2606	1342	2606
55°	6658	2178	786	2178
60°	6405	1749	492	1749
65°	5932	1428	21	1428
70°	6529	1164	77	1164
75°	7251	909	33	909
80°	7835	634	139	634
85°	11359	257	81	257



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	32.8	1.3	1.1
10°-20°	92.4	3.6	3.1
20°-30°	127.8	4.9	4.3
30°-40°	138.0	5.3	4.7
40°-50°	130.6	5.1	4.4
50°-60°	104.8	4.1	3.6
60°-70°	71.5	2.8	2.4
70°-80°	45.9	1.8	1.6
80°-90°	27.2	1.1	0.9
90°-100°	69.4	2.7	2.4
100°-110°	188.9	7.3	6.4
110°-120°	283.6	11.0	9.6
120°-130°	315.9	12.2	10.7
130°-140°	304.9	11.8	10.3
140°-150°	267.9	10.4	9.1
150°-160°	208.5	8.1	7.1
160°-170°	131.7	5.1	4.5
170°-180°	44.9	1.7	1.5
0°-30°	253.0	9.8	8.6
0°-40°	390.9	15.1	13.3
0°-60°	626.3	24.2	21.2
0°-90°	771.0	29.8	26.1
90°-120°	541.9	21.0	18.4
90°-150°	1430.7	55.3	48.5
90°-180°	1816.0	70.2	61.6
0°-180°	2586.7	100.0	87.7

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	344	344	344	344	344	
5°	342	339	351	339	342	33
15°	355	317	320	317	355	101
25°	367	276	188	276	367	170
35°	352	225	80	225	352	220
45°	285	168	74	168	285	219
55°	211	111	25	111	211	190
65°	141	64	0	64	141	144
75°	110	34	0	34	110	115
85°	70	8	0	8	70	60
90°	59	0	0	0	59	33
95°	92	18	56	18	92	88
105°	224	96	198	96	224	236
115°	365	181	335	181	365	360
125°	453	262	403	262	453	405
135°	478	328	420	328	478	370
145°	488	384	435	384	488	307
155°	497	426	449	426	497	229
165°	494	453	456	453	494	140
175°	486	467	463	467	486	47
180°	470	470	470	470	470	



TEST NUMBER: 19091
 CATALOG NUMBER: AW-WB-1T8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9
2.5°	343.0	341.2	340.2	342.2	340.7	345.8	345.8	348.6	347.8	348.6	345.8
5°	342.2	340.2	337.4	338.4	338.9	345.8	348.6	351.4	351.4	351.4	348.6
7.5°	345.8	341.2	335.6	335.6	334.6	346.8	348.6	354.2	356.2	354.2	348.6
10°	348.6	344.0	334.6	331.1	330.6	343.0	351.4	355.2	359.0	355.2	351.4
12.5°	352.4	343.0	330.0	324.5	324.1	341.2	349.6	342.2	348.6	342.2	349.6
15°	355.2	345.8	329.3	316.1	316.6	334.6	346.8	314.3	319.9	314.3	346.8
17.5°	356.2	346.8	323.7	309.7	307.8	326.5	329.3	285.3	290.2	285.3	329.3
20°	359.0	345.8	319.9	301.3	297.5	316.1	304.9	252.8	257.4	252.8	304.9
22.5°	363.6	346.8	316.1	292.9	286.3	306.9	276.9	222.1	223.1	222.1	276.9
25°	367.4	347.8	312.5	283.5	276.1	290.9	247.2	189.5	188.5	189.5	247.2
27.5°	371.0	348.6	305.9	274.1	263.0	270.6	220.3	155.2	156.0	155.2	220.3
30°	373.7	347.8	302.1	265.0	250.1	251.0	195.1	130.8	126.3	130.8	195.1
32.5°	367.4	347.8	297.5	254.6	238.4	227.6	169.0	101.1	99.3	101.1	169.0
35°	352.4	345.8	291.9	245.4	225.0	207.3	142.0	82.6	80.5	82.6	142.0
37.5°	337.4	331.8	286.3	233.2	211.0	185.0	121.7	79.8	80.5	79.8	121.7
40°	319.9	318.1	279.7	223.1	197.0	164.4	102.1	77.0	82.6	77.0	102.1
42.5°	303.1	298.5	269.6	211.9	182.2	144.8	83.3	79.8	85.4	79.8	83.3
45°	284.6	279.7	255.6	202.5	168.2	125.3	73.2	73.2	74.2	73.2	73.2
47.5°	265.8	263.0	238.1	189.5	154.2	108.5	71.4	60.2	61.2	60.2	71.4
50°	248.2	245.4	221.3	179.4	138.8	94.5	64.8	48.0	47.3	48.0	64.8
52.5°	228.7	227.6	204.5	169.0	124.4	80.5	59.2	37.9	36.8	37.9	59.2
55°	210.9	210.1	188.5	158.0	110.9	68.6	50.8	28.4	24.9	28.4	50.8
57.5°	196.9	195.1	171.8	150.4	96.0	60.2	41.7	19.3	18.3	19.3	41.7
60°	178.4	176.6	155.2	136.4	84.3	50.8	32.3	11.7	13.7	11.7	32.3
62.5°	156.0	161.6	140.2	126.3	73.3	43.4	24.9	5.3	1.5	5.3	24.9
65°	141.3	143.0	126.3	110.5	64.4	35.1	17.3	3.3	0.5	3.3	17.3
67.5°	132.9	127.3	114.1	95.5	56.0	28.4	9.9	0.5	1.5	0.5	9.9
70°	128.0	117.9	99.3	82.6	48.5	21.1	2.5	0.5	1.5	0.5	2.5
72.5°	120.7	112.3	88.9	71.4	40.1	13.7	2.5	0.5	1.5	0.5	2.5
75°	110.5	104.9	79.8	63.0	34.5	8.9	0.5	0.5	0.5	0.5	0.5
77.5°	98.3	95.5	72.4	53.6	26.7	3.3	0.5	1.5	0.5	1.5	0.5
80°	84.3	85.4	64.0	47.3	21.5	0.5	0.5	0.5	1.5	0.5	0.5
82.5°	77.7	77.0	56.4	40.6	14.1	0.5	0.5	0.5	0.5	0.5	0.5
85°	70.4	68.6	50.8	33.3	7.6	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	62.0	60.2	44.5	25.7	2.9	0.5	0.5	0.5	0.5	0.5	0.5
90°	58.7	55.1	42.9	22.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	62.0	74.2	53.6	44.5	5.7	8.9	23.9	9.9	21.1	9.9	23.9
95°	91.7	102.9	80.5	71.4	18.3	36.8	54.6	41.7	55.6	41.7	54.6
97.5°	122.5	136.4	110.5	100.1	35.9	64.8	91.7	77.0	91.7	77.0	91.7
100°	155.2	185.7	143.0	145.8	54.1	92.7	121.7	113.3	129.1	113.3	121.7
102.5°	188.5	204.5	172.8	158.0	73.8	106.7	156.0	128.0	163.4	128.0	156.0
105°	224.1	236.0	206.3	174.5	95.5	144.8	187.8	182.2	197.9	182.2	187.8
107.5°	257.4	271.4	241.6	194.1	116.5	162.6	221.3	215.7	233.2	215.7	221.3
110°	292.9	305.9	276.9	214.7	138.3	177.3	252.8	245.4	266.8	245.4	252.8



TEST NUMBER: 19091
 CATALOG NUMBER: AW-WB-1T8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	327.3	342.2	306.9	234.3	158.4	196.1	279.0	285.3	299.3	285.3	279.0
115°	364.6	377.6	323.7	252.8	181.2	214.7	292.9	316.1	334.6	316.1	292.9
117.5°	398.9	404.5	337.4	271.4	202.1	234.3	303.1	346.8	364.6	346.8	303.1
120°	431.4	417.4	351.4	290.2	223.1	247.2	313.3	368.2	390.5	368.2	313.3
122.5°	446.4	430.7	366.4	318.1	242.3	264.0	323.7	375.8	400.9	375.8	323.7
125°	453.0	435.2	379.3	324.5	261.7	272.4	334.6	377.6	402.7	377.6	334.6
127.5°	458.6	443.6	394.3	339.4	278.0	295.7	346.8	384.9	403.7	384.9	346.8
130°	463.2	453.0	403.7	353.4	295.2	308.7	356.2	389.8	409.3	389.8	356.2
132.5°	471.6	461.4	412.1	364.6	311.5	323.7	364.6	397.1	413.9	397.1	364.6
135°	478.2	468.8	423.0	377.6	327.8	334.6	373.7	403.7	419.5	403.7	373.7
137.5°	486.6	473.3	429.6	390.5	343.1	345.8	384.2	409.3	427.9	409.3	384.2
140°	489.4	475.4	439.0	400.9	357.1	359.0	396.1	412.9	427.9	412.9	396.1
142.5°	491.1	475.4	448.2	412.1	371.1	369.2	403.7	415.7	429.6	415.7	403.7
145°	488.3	480.0	456.6	426.9	384.5	382.1	411.1	424.1	435.2	424.1	411.1
147.5°	486.6	482.7	463.2	431.4	397.1	387.0	414.9	427.9	440.8	427.9	414.9
150°	491.1	487.3	467.0	439.8	406.4	402.7	419.5	436.3	446.4	436.3	419.5
152.5°	495.7	489.4	470.6	449.2	416.7	412.9	424.1	438.0	448.2	438.0	424.1
155°	496.7	490.1	475.4	457.6	426.5	420.2	429.6	439.0	449.2	439.0	429.6
157.5°	496.7	491.1	478.2	465.0	435.2	427.9	433.5	440.8	450.2	440.8	433.5
160°	497.7	491.1	478.9	468.8	441.7	435.2	438.0	443.6	451.0	443.6	438.0
162.5°	496.7	490.1	482.7	473.3	448.3	440.8	444.6	446.4	452.0	446.4	444.6
165°	493.9	489.4	485.5	475.4	453.4	445.4	448.2	450.2	455.8	450.2	448.2
167.5°	492.1	491.1	488.3	477.2	458.1	450.2	453.8	453.8	457.6	453.8	453.8
170°	492.1	489.4	486.6	478.2	460.8	452.0	457.6	456.6	460.4	456.6	457.6
172.5°	490.1	485.5	483.8	477.2	464.1	458.6	459.4	460.4	461.4	460.4	459.4
175°	485.5	481.7	480.0	475.4	466.9	464.2	464.2	462.2	463.2	462.2	464.2
177.5°	478.2	474.4	476.1	474.4	468.3	467.8	467.0	464.2	467.8	464.2	467.0
180°	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5



TEST NUMBER: 19091
 CATALOG NUMBER: AW-WB-1T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	343.9	343.9	343.9	343.9	343.9	343.9
2.5°	345.8	340.7	342.2	340.2	341.2	343.0
5°	345.8	338.9	338.4	337.4	340.2	342.2
7.5°	346.8	334.6	335.6	335.6	341.2	345.8
10°	343.0	330.6	331.1	334.6	344.0	348.6
12.5°	341.2	324.1	324.5	330.0	343.0	352.4
15°	334.6	316.6	316.1	329.3	345.8	355.2
17.5°	326.5	307.8	309.7	323.7	346.8	356.2
20°	316.1	297.5	301.3	319.9	345.8	359.0
22.5°	306.9	286.3	292.9	316.1	346.8	363.6
25°	290.9	276.1	283.5	312.5	347.8	367.4
27.5°	270.6	263.0	274.1	305.9	348.6	371.0
30°	251.0	250.1	265.0	302.1	347.8	373.7
32.5°	227.6	238.4	254.6	297.5	347.8	367.4
35°	207.3	225.0	245.4	291.9	345.8	352.4
37.5°	185.0	211.0	233.2	286.3	331.8	337.4
40°	164.4	197.0	223.1	279.7	318.1	319.9
42.5°	144.8	182.2	211.9	269.6	298.5	303.1
45°	125.3	168.2	202.5	255.6	279.7	284.6
47.5°	108.5	154.2	189.5	238.1	263.0	265.8
50°	94.5	138.8	179.4	221.3	245.4	248.2
52.5°	80.5	124.4	169.0	204.5	227.6	228.7
55°	68.6	110.9	158.0	188.5	210.1	210.9
57.5°	60.2	96.0	150.4	171.8	195.1	196.9
60°	50.8	84.3	136.4	155.2	176.6	178.4
62.5°	43.4	73.3	126.3	140.2	161.6	156.0
65°	35.1	64.4	110.5	126.3	143.0	141.3
67.5°	28.4	56.0	95.5	114.1	127.3	132.9
70°	21.1	48.5	82.6	99.3	117.9	128.0
72.5°	13.7	40.1	71.4	88.9	112.3	120.7
75°	8.9	34.5	63.0	79.8	104.9	110.5
77.5°	3.3	26.7	53.6	72.4	95.5	98.3
80°	0.5	21.5	47.3	64.0	85.4	84.3
82.5°	0.5	14.1	40.6	56.4	77.0	77.7
85°	0.5	7.6	33.3	50.8	68.6	70.4
87.5°	0.5	2.9	25.7	44.5	60.2	62.0
90°	0.5	0.5	22.4	42.9	55.1	58.7
92.5°	8.9	5.7	44.5	53.6	74.2	62.0
95°	36.8	18.3	71.4	80.5	102.9	91.7
97.5°	64.8	35.9	100.1	110.5	136.4	122.5
100°	92.7	54.1	145.8	143.0	185.7	155.2
102.5°	106.7	73.8	158.0	172.8	204.5	188.5
105°	144.8	95.5	174.5	206.3	236.0	224.1
107.5°	162.6	116.5	194.1	241.6	271.4	257.4
110°	177.3	138.3	214.7	276.9	305.9	292.9



TEST NUMBER: 19091
 CATALOG NUMBER: AW-WB-1T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	196.1	158.4	234.3	306.9	342.2	327.3
115°	214.7	181.2	252.8	323.7	377.6	364.6
117.5°	234.3	202.1	271.4	337.4	404.5	398.9
120°	247.2	223.1	290.2	351.4	417.4	431.4
122.5°	264.0	242.3	318.1	366.4	430.7	446.4
125°	272.4	261.7	324.5	379.3	435.2	453.0
127.5°	295.7	278.0	339.4	394.3	443.6	458.6
130°	308.7	295.2	353.4	403.7	453.0	463.2
132.5°	323.7	311.5	364.6	412.1	461.4	471.6
135°	334.6	327.8	377.6	423.0	468.8	478.2
137.5°	345.8	343.1	390.5	429.6	473.3	486.6
140°	359.0	357.1	400.9	439.0	475.4	489.4
142.5°	369.2	371.1	412.1	448.2	475.4	491.1
145°	382.1	384.5	426.9	456.6	480.0	488.3
147.5°	387.0	397.1	431.4	463.2	482.7	486.6
150°	402.7	406.4	439.8	467.0	487.3	491.1
152.5°	412.9	416.7	449.2	470.6	489.4	495.7
155°	420.2	426.5	457.6	475.4	490.1	496.7
157.5°	427.9	435.2	465.0	478.2	491.1	496.7
160°	435.2	441.7	468.8	478.9	491.1	497.7
162.5°	440.8	448.3	473.3	482.7	490.1	496.7
165°	445.4	453.4	475.4	485.5	489.4	493.9
167.5°	450.2	458.1	477.2	488.3	491.1	492.1
170°	452.0	460.8	478.2	486.6	489.4	492.1
172.5°	458.6	464.1	477.2	483.8	485.5	490.1
175°	464.2	466.9	475.4	480.0	481.7	485.5
177.5°	467.8	468.3	474.4	476.1	474.4	478.2
180°	470.5	470.5	470.5	470.5	470.5	470.5

(END OF REPORT)