

Scaled data based on original data using
LM-66-11 Electrical and Photometric Measurements of Single-Ended Compact
Fluorescent Lamps

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: SHAPER

Report Number: 19149A

Luminaire Tested: **612-A-CF2/26**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19149A
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 612-A-CF2/26
Description: INTERIOR WALL MOUNT LUMINAIRE WITH WHITE INTERIOR AND WHITE PLASTIC LENS
Light Source: TWO 26 WATT CPFL LAMPS. LUMEN RATING = 3600 LMS.

Ballast/Driver: -

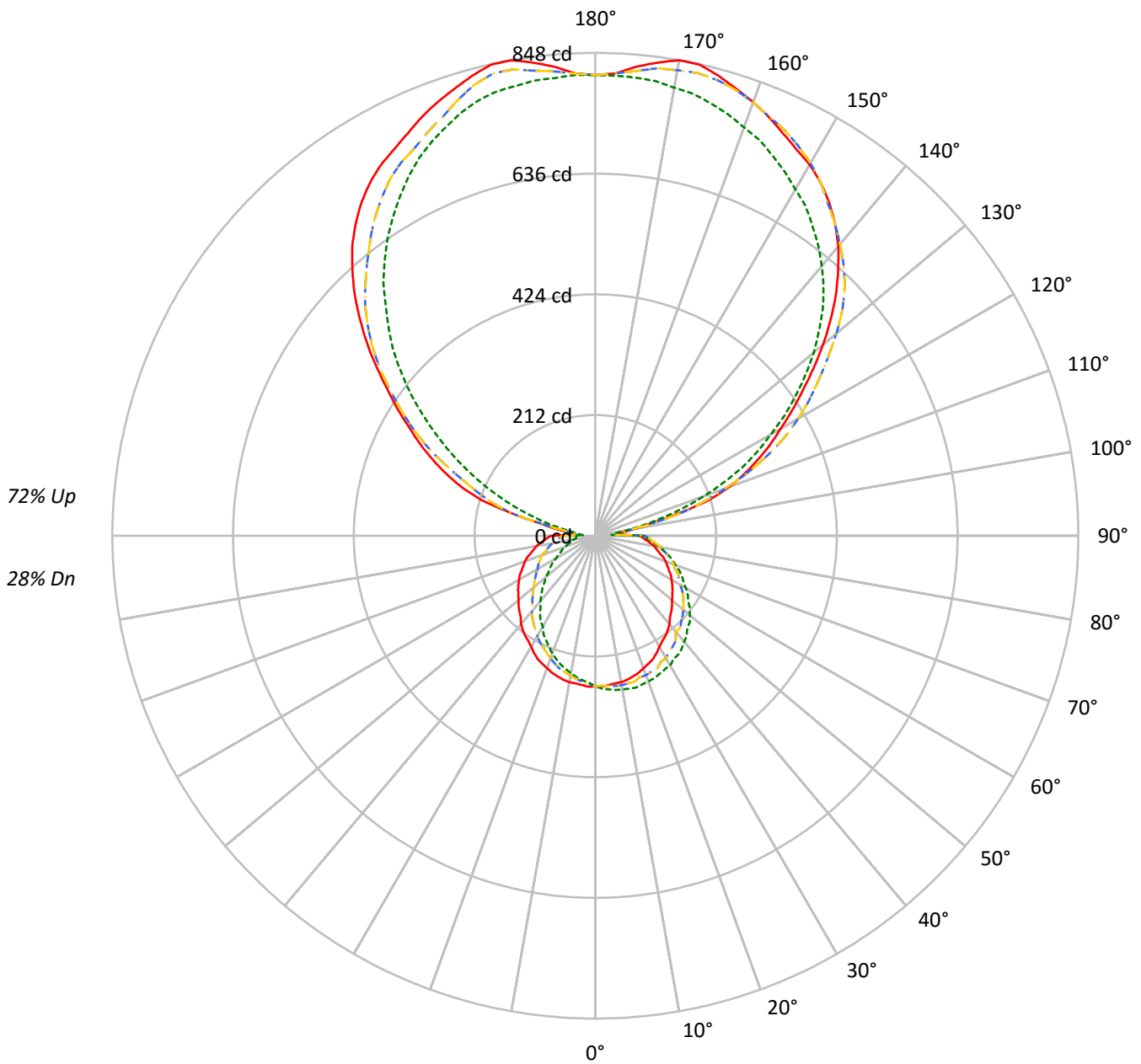
Summary

Lumens per Lamp: 3600 (1 lamp)
Luminaire Lumens: 3389.9 lumens
Efficiency: 94.2%
Efficacy: -
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.4
Luminous Opening: (L: 0 ' x W: -0.58 ' x H: 0.29 '
CIE Type: Semi-Indirect

Input Watts (W): 0
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: 19149A
CATALOG NUMBER: 612-A-CF2/26

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - · - 90°-270° - · - 135°-315°



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 CATALOG NUMBER: 612-A-CF2/26

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	96	96	96	96	86	86	86	86	67	67	67	50	50	50	34	34	34	26
1	86	82	78	74	77	73	70	67	57	55	53	42	40	39	28	27	26	20
2	78	71	65	60	70	63	58	54	49	46	43	36	34	32	24	23	21	16
3	71	62	55	49	63	55	49	45	43	39	35	32	29	26	21	19	18	13
4	65	55	47	41	57	49	42	37	38	33	30	28	25	22	19	17	15	11
5	59	48	41	35	53	43	37	32	34	29	25	25	22	19	17	15	13	9
6	54	43	36	30	48	39	32	27	30	25	22	22	19	17	15	13	11	8
7	50	39	31	26	45	35	28	24	27	23	19	20	17	14	14	12	10	7
8	46	35	28	23	41	31	25	21	25	20	17	18	15	13	13	10	9	6
9	43	32	25	20	38	29	23	18	23	18	15	17	14	11	12	9	8	6
10	40	29	22	18	36	26	20	16	21	16	13	16	12	10	11	9	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	Luminous shape not found,			
5°	reference photometric report, or contact			
10°	the photometric lab for calculations.			
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



TEST NUMBER: 19149A
 CATALOG NUMBER: 612-A-CF2/26

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	24.9	0.7	0.7
10°-20°	71.6	2.1	2.0
20°-30°	109.0	3.2	3.0
30°-40°	133.2	3.9	3.7
40°-50°	142.6	4.2	4.0
50°-60°	140.9	4.2	3.9
60°-70°	130.3	3.8	3.6
70°-80°	112.2	3.3	3.1
80°-90°	88.1	2.6	2.4
90°-100°	48.6	1.4	1.3
100°-110°	152.1	4.5	4.2
110°-120°	297.7	8.8	8.3
120°-130°	397.7	11.7	11.0
130°-140°	448.5	13.2	12.5
140°-150°	430.7	12.7	12.0
150°-160°	352.6	10.4	9.8
160°-170°	230.8	6.8	6.4
170°-180°	78.4	2.3	2.2
0°-30°	205.5	6.1	5.7
0°-40°	338.7	10.0	9.4
0°-60°	622.1	18.4	17.3
0°-90°	952.8	28.1	26.5
90°-120°	498.4	14.7	13.8
90°-150°	1775.3	52.4	49.3
90°-180°	2437.0	71.9	67.7
0°-180°	3389.9	100.0	94.2

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	264	264	264	264	264	
5°	263	271	263	255	263	25
15°	256	276	256	234	256	72
25°	239	268	239	204	239	110
35°	215	254	215	169	215	134
45°	188	228	188	131	188	146
55°	165	199	165	97	165	148
65°	142	168	142	66	142	142
75°	117	133	117	47	117	124
85°	89	97	89	32	89	77
90°	77	80	77	35	77	38
95°	42	32	42	27	42	40
105°	150	122	150	91	150	163
115°	314	285	314	222	314	310
125°	444	430	444	369	444	399
135°	597	565	597	512	597	459
145°	716	664	716	636	716	447
155°	780	736	780	732	780	360
165°	836	786	836	792	836	236
175°	827	808	827	807	827	80
180°	809	809	809	809	809	



TEST NUMBER: 19149A
 CATALOG NUMBER: 612-A-CF2/26

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4
2.5°	265.6	263.7	263.7	266.6	268.5	266.6	263.7	263.7	265.6	263.7	260.4
5°	263.3	262.3	264.6	267.5	270.8	267.5	264.6	262.3	263.3	262.3	257.7
7.5°	261.5	263.7	266.2	268.5	273.1	268.5	266.2	263.7	261.5	260.4	253.5
10°	261.3	263.3	266.6	267.9	274.1	267.9	266.6	263.3	261.3	258.1	249.6
12.5°	259.1	260.4	265.6	269.4	275.0	269.4	265.6	260.4	259.1	254.8	245.4
15°	255.8	260.0	265.2	264.6	276.0	264.6	265.2	260.0	255.8	252.5	241.8
17.5°	252.3	256.8	260.4	267.9	273.7	267.9	260.4	256.8	252.3	246.0	235.6
20°	247.5	250.6	260.4	267.5	272.1	267.5	260.4	250.6	247.5	241.8	229.1
22.5°	243.3	248.7	258.1	263.7	270.8	263.7	258.1	248.7	243.3	236.6	222.9
25°	239.1	245.0	256.8	262.3	267.5	262.3	256.8	245.0	239.1	232.7	216.4
27.5°	232.5	241.8	249.6	258.7	264.3	258.7	249.6	241.8	232.5	222.9	210.8
30°	225.0	234.3	248.3	254.8	262.9	254.8	248.3	234.3	225.0	218.7	203.3
32.5°	219.0	231.0	241.2	251.2	256.2	251.2	241.2	231.0	219.0	212.5	196.2
35°	214.7	223.9	237.5	247.0	254.4	247.0	237.5	223.9	214.7	206.0	188.7
37.5°	208.9	217.3	231.8	240.2	249.3	240.2	231.8	217.3	208.9	199.9	181.2
40°	202.7	211.2	219.7	234.6	243.1	234.6	219.7	211.2	202.7	193.3	172.7
42.5°	193.9	204.7	220.0	230.0	237.5	230.0	220.0	204.7	193.9	183.1	163.7
45°	188.4	199.1	213.5	223.5	228.1	223.5	213.5	199.1	188.4	175.1	156.2
47.5°	182.6	192.4	207.9	216.4	224.8	216.4	207.9	192.4	182.6	170.8	148.3
50°	176.0	187.7	201.8	207.9	216.4	207.9	201.8	187.7	176.0	163.7	141.8
52.5°	170.2	182.2	194.9	202.7	208.9	202.7	194.9	182.2	170.2	157.8	134.7
55°	165.4	175.4	188.7	195.2	199.1	195.2	188.7	175.4	165.4	152.6	128.5
57.5°	160.1	168.9	181.2	186.8	192.4	186.8	181.2	168.9	160.1	148.3	123.0
60°	154.4	161.4	171.4	179.3	183.5	179.3	171.4	161.4	154.4	140.8	116.8
62.5°	149.7	156.8	164.7	172.2	174.1	172.2	164.7	156.8	149.7	137.6	113.5
65°	142.2	152.6	161.0	163.3	167.9	163.3	161.0	152.6	142.2	130.5	108.0
67.5°	136.8	146.0	151.2	157.2	159.5	157.2	151.2	146.0	136.8	125.3	103.7
70°	131.4	139.5	146.4	147.0	149.3	147.0	146.4	139.5	131.4	121.6	99.9
72.5°	124.9	132.4	139.5	139.5	141.8	139.5	139.5	132.4	124.9	112.6	90.7
75°	116.8	124.9	132.8	130.5	133.3	130.5	132.8	124.9	116.8	107.4	86.8
77.5°	110.3	120.1	122.6	123.0	123.9	123.0	122.6	120.1	110.3	101.4	81.6
80°	105.1	112.2	116.8	115.1	114.1	115.1	116.8	112.2	105.1	94.3	76.1
82.5°	97.2	103.7	108.0	106.6	105.7	106.6	108.0	103.7	97.2	88.7	71.8
85°	89.4	99.1	100.5	99.5	97.2	99.5	100.5	99.1	89.4	81.6	65.7
87.5°	84.0	90.7	93.0	90.7	88.7	90.7	93.0	90.7	84.0	75.1	60.1
90°	76.9	81.2	86.8	81.2	80.3	81.2	86.8	81.2	76.9	71.4	59.1
92.5°	38.5	38.6	36.1	31.8	28.6	31.8	36.1	38.6	38.5	34.3	28.6
95°	42.3	44.1	38.0	32.8	31.5	32.8	38.0	44.1	42.3	37.6	31.8
97.5°	49.5	50.7	45.1	43.2	37.0	43.2	45.1	50.7	49.5	42.2	39.3
100°	70.7	71.8	65.7	71.8	56.8	71.8	65.7	71.8	70.7	65.3	59.5
102.5°	98.3	108.9	107.0	113.2	85.9	113.2	107.0	108.9	98.3	87.4	93.0
105°	150.4	154.5	158.7	160.1	121.6	160.1	158.7	154.5	150.4	139.9	150.6
107.5°	210.0	197.2	200.8	206.6	161.4	206.6	200.8	197.2	210.0	205.6	185.8
110°	250.1	239.5	243.1	251.2	202.4	251.2	243.1	239.5	250.1	235.6	216.4



TEST NUMBER: 19149A
 CATALOG NUMBER: 612-A-CF2/26

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	282.3	278.3	289.1	291.6	242.7	291.6	289.1	278.3	282.3	272.7	247.0
115°	313.8	313.5	333.7	333.3	285.4	333.3	333.7	313.5	313.8	301.4	285.4
117.5°	345.7	350.2	375.0	373.6	321.0	373.6	375.0	350.2	345.7	333.3	327.7
120°	375.1	384.8	411.1	411.7	355.4	411.7	411.1	384.8	375.1	370.8	364.2
122.5°	409.8	420.9	445.9	445.9	394.2	445.9	445.9	420.9	409.8	409.8	401.3
125°	444.2	458.6	479.2	478.2	430.0	478.2	479.2	458.6	444.2	447.3	435.5
127.5°	482.5	496.5	515.3	509.2	465.5	509.2	515.3	496.5	482.5	485.3	474.0
130°	522.1	532.2	552.0	540.7	500.7	540.7	552.0	532.2	522.1	523.8	508.8
132.5°	559.9	571.3	588.6	570.3	532.6	570.3	588.6	571.3	559.9	560.3	541.1
135°	597.2	607.4	619.1	598.9	565.1	598.9	619.1	607.4	597.2	595.7	571.3
137.5°	631.0	636.8	645.3	624.7	592.8	624.7	645.3	636.8	631.0	625.1	597.4
140°	663.8	663.7	668.3	649.1	618.6	649.1	668.3	663.7	663.8	652.4	623.4
142.5°	690.8	690.8	690.8	672.0	642.6	672.0	690.8	690.8	690.8	676.8	650.1
145°	715.5	712.0	712.0	693.1	664.5	693.1	712.0	712.0	715.5	697.4	676.8
147.5°	735.7	734.1	736.0	715.2	686.6	715.2	736.0	734.1	735.7	717.6	699.9
150°	752.5	753.7	755.6	732.5	702.6	732.5	755.6	753.7	752.5	734.1	721.8
152.5°	764.9	772.9	771.6	750.4	720.4	750.4	771.6	772.9	764.9	752.4	738.7
155°	779.6	789.5	786.2	764.5	736.4	764.5	786.2	789.5	779.6	771.6	751.0
157.5°	796.0	805.4	797.0	778.7	752.4	778.7	797.0	805.4	796.0	784.6	767.9
160°	810.3	818.5	810.0	789.5	763.1	789.5	810.0	818.5	810.3	797.0	782.9
162.5°	823.0	829.2	820.8	797.9	775.8	797.9	820.8	829.2	823.0	811.0	802.5
165°	836.1	838.7	828.3	807.7	785.6	807.7	828.3	838.7	836.1	827.5	820.0
167.5°	847.4	842.9	832.1	813.3	795.0	813.3	832.1	842.9	847.4	841.5	831.2
170°	847.9	842.5	830.2	814.3	798.9	814.3	830.2	842.5	847.9	844.8	831.7
172.5°	838.2	836.7	827.9	809.6	805.4	809.6	827.9	836.7	838.2	836.0	823.7
175°	826.9	826.0	819.1	810.6	807.7	810.6	819.1	826.0	826.9	821.4	818.5
177.5°	812.8	814.8	812.9	808.3	808.7	808.3	812.9	814.8	812.8	812.9	812.3
180°	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7



TEST NUMBER: 19149A
 CATALOG NUMBER: 612-A-CF2/26

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	264.4	264.4	264.4	264.4	264.4	264.4
2.5°	258.7	258.1	258.7	260.4	263.7	265.6
5°	254.4	254.8	254.4	257.7	262.3	263.3
7.5°	250.6	250.6	250.6	253.5	260.4	261.5
10°	246.0	245.0	246.0	249.6	258.1	261.3
12.5°	241.8	239.8	241.8	245.4	254.8	259.1
15°	234.6	234.3	234.6	241.8	252.5	255.8
17.5°	230.0	227.2	230.0	235.6	246.0	252.3
20°	222.5	220.6	222.5	229.1	241.8	247.5
22.5°	214.1	211.6	214.1	222.9	236.6	243.3
25°	208.9	203.7	208.9	216.4	232.7	239.1
27.5°	199.5	196.2	199.5	210.8	222.9	232.5
30°	192.4	183.9	192.4	203.3	218.7	225.0
32.5°	182.6	178.9	182.6	196.2	212.5	219.0
35°	174.1	168.9	174.1	188.7	206.0	214.7
37.5°	167.2	158.1	167.2	181.2	199.9	208.9
40°	159.1	149.7	159.1	172.7	193.3	202.7
42.5°	147.0	139.9	147.0	163.7	183.1	193.9
45°	138.0	131.4	138.0	156.2	175.1	188.4
47.5°	130.1	121.0	130.1	148.3	170.8	182.6
50°	122.6	113.2	122.6	141.8	163.7	176.0
52.5°	114.1	102.8	114.1	134.7	157.8	170.2
55°	104.7	96.6	104.7	128.5	152.6	165.4
57.5°	97.6	89.1	97.6	123.0	148.3	160.1
60°	89.1	79.7	89.1	116.8	140.8	154.4
62.5°	83.2	73.2	83.2	113.5	137.6	149.7
65°	76.4	66.2	76.4	108.0	130.5	142.2
67.5°	71.8	63.0	71.8	103.7	125.3	136.8
70°	68.0	56.2	68.0	99.9	121.6	131.4
72.5°	63.0	50.7	63.0	90.7	112.6	124.9
75°	60.1	47.0	60.1	86.8	107.4	116.8
77.5°	55.3	42.2	55.3	81.6	101.4	110.3
80°	51.6	38.6	51.6	76.1	94.3	105.1
82.5°	47.0	34.7	47.0	71.8	88.7	97.2
85°	42.8	32.4	42.8	65.7	81.6	89.4
87.5°	42.8	30.1	42.8	60.1	75.1	84.0
90°	43.2	34.7	43.2	59.1	71.4	76.9
92.5°	25.3	21.1	25.3	28.6	34.3	38.5
95°	29.1	26.8	29.1	31.8	37.6	42.3
97.5°	39.9	31.5	39.9	39.3	42.2	49.5
100°	64.7	43.2	64.7	59.5	65.3	70.7
102.5°	102.8	65.3	102.8	93.0	87.4	98.3
105°	135.6	91.0	135.6	150.6	139.9	150.4
107.5°	167.2	118.7	167.2	185.8	205.6	210.0
110°	197.2	153.5	197.2	216.4	235.6	250.1



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 CATALOG NUMBER: 612-A-CF2/26

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	236.6	186.8	236.6	247.0	272.7	282.3
115°	274.6	221.6	274.6	285.4	301.4	313.8
117.5°	312.1	257.7	312.1	327.7	333.3	345.7
120°	345.0	294.2	345.0	364.2	370.8	375.1
122.5°	378.8	331.7	378.8	401.3	409.8	409.8
125°	411.1	369.4	411.1	435.5	447.3	444.2
127.5°	443.0	407.9	443.0	474.0	485.3	482.5
130°	474.6	444.0	474.6	508.8	523.8	522.1
132.5°	506.5	480.5	506.5	541.1	560.3	559.9
135°	536.5	512.4	536.5	571.3	595.7	597.2
137.5°	567.0	544.0	567.0	597.4	625.1	631.0
140°	597.0	578.8	597.0	623.4	652.4	663.8
142.5°	624.7	607.8	624.7	650.1	676.8	690.8
145°	650.1	636.4	650.1	676.8	697.4	715.5
147.5°	673.5	661.8	673.5	699.9	717.6	735.7
150°	698.3	686.6	698.3	721.8	734.1	752.5
152.5°	718.1	710.6	718.1	738.7	752.4	764.9
155°	740.2	731.8	740.2	751.0	771.6	779.6
157.5°	759.5	749.5	759.5	767.9	784.6	796.0
160°	777.7	764.5	777.7	782.9	797.0	810.3
162.5°	793.1	780.0	793.1	802.5	811.0	823.0
165°	805.8	791.8	805.8	820.0	827.5	836.1
167.5°	811.6	799.3	811.6	831.2	841.5	847.4
170°	811.9	802.1	811.9	831.7	844.8	847.9
172.5°	813.3	806.8	813.3	823.7	836.0	838.2
175°	812.3	806.8	812.3	818.5	821.4	826.9
177.5°	809.6	810.0	809.6	812.3	812.9	812.8
180°	808.7	808.7	808.7	808.7	808.7	808.7

(END OF REPORT)