

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: 19159A

Luminaire Tested: **694-WP-12-CF1/32**

Issue Date: 3/3/2020

**Test Information**

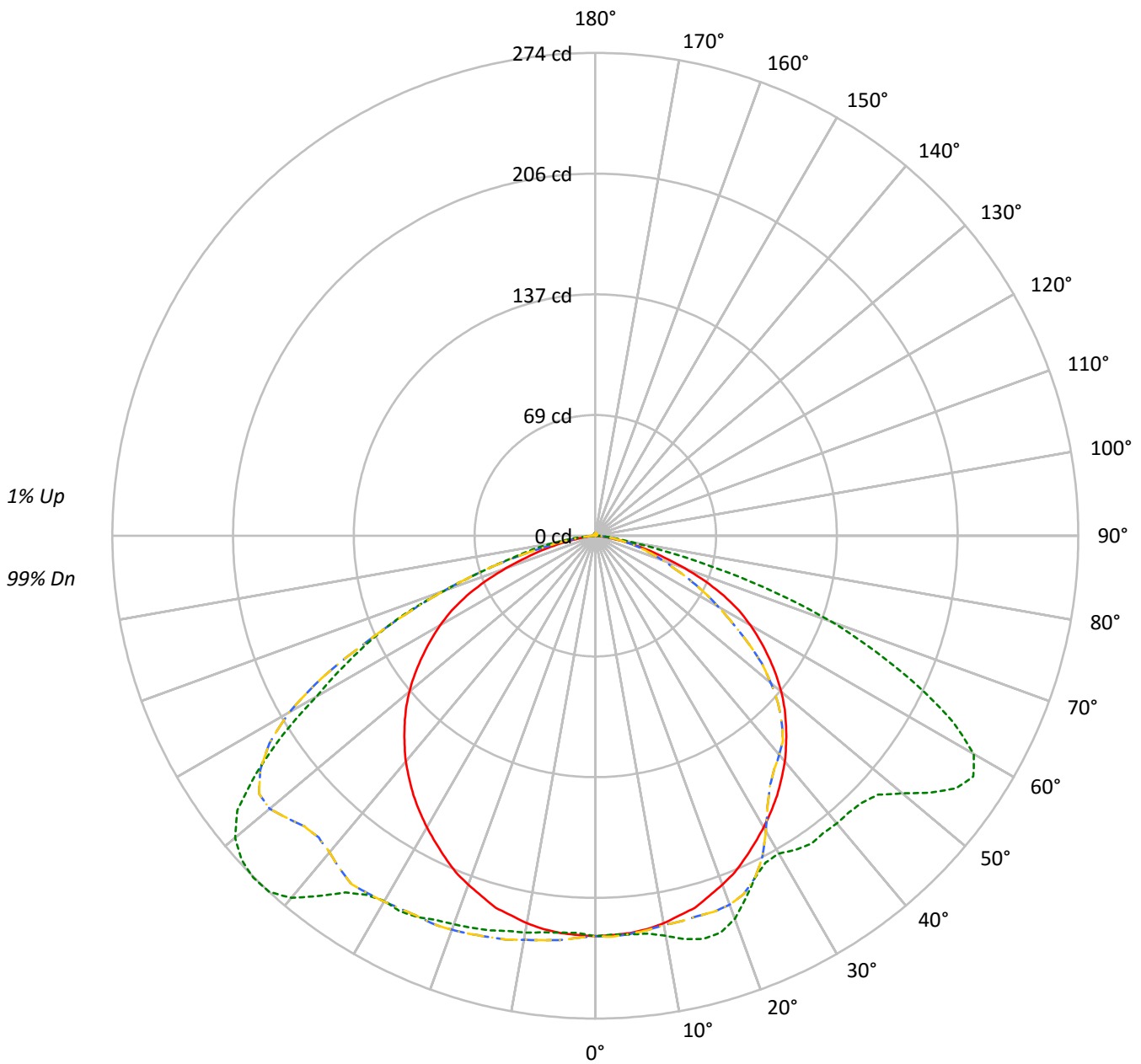
Test Method: LM-66-11  
Report Number: 19159A  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 694-WP-12-CF1/32  
Description: EXTERIOR WALL MOUNT LUMINAIRE WHITE BACK AND STEEL BOWL INTERIOR  
WITH CLEAR FLAT PLASTIC LENS  
Light Source: ONE 32 WATT CPFL LAMP. LUMEN RATING = 2400 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2400 (1 lamp)  
Luminaire Lumens: 804.8 lumens  
Efficiency: 33.5%  
Efficacy: -  
Spacing Criteria (0/90/45): 1.25 / 1.59 / 1.58  
Luminous Opening: Rectangular (W 0.33' x L: 0.75' x H: 0')  
CIE Type: Direct  
  
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

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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										
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	40	40	40	40	39	39	39	39	37	37	37	35	35	35	34	34	34	33	33	33	32	32	32	33														
1	36	35	33	32	36	34	33	32	33	32	31	31	30	30	30	29	29	28	28	27	26	26	25	25														
2	33	30	28	26	32	30	27	26	28	27	25	27	26	24	26	25	24	23	23	23	21	21	20	20														
3	30	26	24	21	29	26	23	21	25	23	21	24	22	20	23	21	20	19	19	19	17	17	16	16														
4	27	23	20	18	26	23	20	18	22	19	17	21	19	17	20	18	17	16	16	16	14	14	13	13														
5	25	21	17	15	24	20	17	15	19	17	15	19	16	15	18	16	14	14	14	14	12	12	11	11														
6	23	18	15	13	22	18	15	13	17	15	13	17	14	13	16	14	13	12	12	12	10	10	9	9														
7	21	17	13	11	21	16	13	11	16	13	11	15	13	11	15	13	11	10	10	10	8	8	7	7														
8	20	15	12	10	19	15	12	10	14	12	10	14	12	10	13	11	10	9	9	9	8	8	7	7														
9	18	14	11	9	18	13	11	9	13	11	9	13	10	9	12	10	9	8	8	8	7	7	6	6														
10	17	13	10	8	17	12	10	8	12	10	8	12	9	8	11	9	8	7	7	7	6	6	5	5														

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	9881	9881	9881	9881
5°	9880	9914	9880	9866
10°	9861	10179	9861	10095
15°	9838	10662	9838	10437
20°	9752	10705	9752	10858
25°	9669	10279	9669	11454
30°	9592	10456	9592	12017
35°	9546	11330	9546	13119
40°	9498	12098	9498	15226
45°	9416	13168	9416	16877
50°	9317	15379	9317	18045
55°	9099	18941	9099	17788
60°	8837	21563	8837	15900
65°	8274	20808	8274	14469
70°	6854	18145	6854	11584
75°	5058	11897	5058	8150
80°	2855	5285	2855	6236
85°	1597	2794	1597	3194



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	21.7	2.7	0.9
10°-20°	64.5	8.0	2.7
20°-30°	101.6	12.6	4.2
30°-40°	130.9	16.3	5.5
40°-50°	154.2	19.2	6.4
50°-60°	158.7	19.7	6.6
60°-70°	115.8	14.4	4.8
70°-80°	44.9	5.6	1.9
80°-90°	6.6	0.8	0.3
90°-100°	0.9	0.1	0.0
100°-110°	0.9	0.1	0.0
110°-120°	0.8	0.1	0.0
120°-130°	0.8	0.1	0.0
130°-140°	0.7	0.1	0.0
140°-150°	0.7	0.1	0.0
150°-160°	0.5	0.1	0.0
160°-170°	0.3	0.0	0.0
170°-180°	0.1	0.0	0.0
0°-30°	187.8	23.3	7.8
0°-40°	318.7	39.6	13.3
0°-60°	631.7	78.5	26.3
0°-90°	799.1	99.3	33.3
90°-120°	2.6	0.3	0.1
90°-150°	4.8	0.6	0.2
90°-180°	6.0	0.7	0.3
0°-180°	804.8	100.0	33.5

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	227	227	227	227	227	
5°	226	227	226	226	226	22
15°	218	237	218	232	218	62
25°	202	214	202	239	202	93
35°	180	213	180	247	180	112
45°	153	214	153	274	153	118
55°	120	250	120	235	120	107
65°	80	202	80	141	80	79
75°	30	71	30	48	30	33
85°	3	6	3	6	3	4
90°	0	2	0	1	0	0
95°	1	1	1	0	1	1
105°	1	1	1	1	1	1
115°	1	0	1	1	1	1
125°	1	1	1	1	1	1
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	1	1	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	227.2	227.2	227.2	227.2	227.2	227.2	227.2	227.2	227.2	227.2	227.2
2.5°	226.8	225.8	227.7	228.3	226.5	228.3	227.7	225.8	226.8	227.0	228.4
5°	226.3	223.5	226.8	229.0	227.1	229.0	226.8	223.5	226.3	228.0	230.3
7.5°	225.1	221.1	225.7	228.2	227.7	228.2	225.7	221.1	225.1	229.0	231.5
10°	223.3	218.0	224.3	230.2	230.5	230.2	224.3	218.0	223.3	230.0	232.8
12.5°	220.7	214.9	224.1	233.2	234.5	233.2	224.1	214.9	220.7	229.9	234.7
15°	218.5	209.9	223.5	235.8	236.8	235.8	223.5	209.9	218.5	230.0	235.6
17.5°	214.4	205.2	223.7	236.0	236.2	236.0	223.7	205.2	214.4	229.7	236.9
20°	210.7	201.0	222.8	232.3	231.3	232.3	222.8	201.0	210.7	229.2	237.9
22.5°	206.7	196.9	220.0	225.6	222.8	225.6	220.0	196.9	206.7	228.7	238.7
25°	201.5	191.7	214.3	215.0	214.2	215.0	214.3	191.7	201.5	226.8	238.3
27.5°	196.3	187.3	205.3	206.7	209.1	206.7	205.3	187.3	196.3	225.2	238.7
30°	191.0	182.0	193.4	203.2	208.2	203.2	193.4	182.0	191.0	223.2	239.7
32.5°	185.5	176.7	181.7	203.0	211.3	203.0	181.7	176.7	185.5	220.8	240.5
35°	179.8	170.2	172.7	205.6	213.4	205.6	172.7	170.2	179.8	218.5	241.3
37.5°	173.5	163.7	166.8	205.5	212.6	205.5	166.8	163.7	173.5	214.5	238.1
40°	167.3	155.4	162.3	203.4	213.1	203.4	162.3	155.4	167.3	211.1	234.5
42.5°	160.2	145.8	157.5	202.6	212.9	202.6	157.5	145.8	160.2	206.6	232.3
45°	153.1	134.8	149.5	202.7	214.1	202.7	149.5	134.8	153.1	201.7	233.3
47.5°	145.7	123.5	140.6	205.0	217.5	205.0	140.6	123.5	145.7	196.7	237.1
50°	137.7	113.6	129.9	209.6	227.3	209.6	129.9	113.6	137.7	191.5	241.1
52.5°	129.1	105.7	119.0	213.2	239.4	213.2	119.0	105.7	129.1	185.3	240.4
55°	120.0	98.3	105.4	214.9	249.8	214.9	105.4	98.3	120.0	176.4	232.0
57.5°	111.0	89.8	92.3	212.2	254.3	212.2	92.3	89.8	111.0	166.4	219.2
60°	101.6	79.7	80.4	202.0	247.9	202.0	80.4	79.7	101.6	152.3	200.6
62.5°	91.9	70.2	69.8	184.7	228.8	184.7	69.8	70.2	91.9	137.5	175.2
65°	80.4	59.8	58.8	162.0	202.2	162.0	58.8	59.8	80.4	122.0	143.9
67.5°	67.6	50.4	48.4	134.6	172.5	134.6	48.4	50.4	67.6	103.7	116.4
70°	53.9	40.5	40.6	106.3	142.7	106.3	40.6	40.5	53.9	80.3	91.5
72.5°	41.0	31.1	33.1	74.6	106.8	74.6	33.1	31.1	41.0	57.8	67.4
75°	30.1	22.7	26.0	49.5	70.8	49.5	26.0	22.7	30.1	38.6	45.7
77.5°	20.0	15.9	19.2	29.3	39.6	29.3	19.2	15.9	20.0	22.5	28.3
80°	11.4	10.1	13.2	17.7	21.1	17.7	13.2	10.1	11.4	12.1	17.8
82.5°	6.0	6.5	8.2	9.7	11.3	9.7	8.2	6.5	6.0	6.7	9.4
85°	3.2	3.7	4.9	5.5	5.6	5.5	4.9	3.7	3.2	3.7	4.2
87.5°	1.2	1.9	2.7	2.5	3.1	2.5	2.7	1.9	1.2	1.5	2.0
90°	0.5	0.8	1.5	1.0	1.7	1.0	1.5	0.8	0.5	1.0	1.1
92.5°	0.5	0.5	1.0	0.8	1.0	0.8	1.0	0.5	0.5	1.0	1.0
95°	0.9	0.8	1.2	0.8	1.0	0.8	1.2	0.8	0.9	0.6	0.6
97.5°	0.7	0.5	1.2	0.5	0.9	0.5	1.2	0.5	0.7	0.5	0.7
100°	0.8	0.7	1.2	0.8	0.5	0.8	1.2	0.7	0.8	0.9	1.0
102.5°	0.6	0.5	1.1	0.5	0.5	0.5	1.1	0.5	0.6	0.9	0.8
105°	0.9	0.7	0.9	1.1	0.6	1.1	0.9	0.7	0.9	1.0	1.2
107.5°	0.8	0.5	1.0	0.9	0.8	0.9	1.0	0.5	0.8	1.1	1.1
110°	1.0	0.7	0.6	1.1	0.5	1.1	0.6	0.7	1.0	0.5	0.7



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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°	0.8	0.6	0.5	0.8	0.5	0.8	0.5	0.6	0.8	0.8	0.6
115°	0.8	0.7	0.9	0.5	0.5	0.5	0.9	0.7	0.8	0.5	0.8
117.5°	0.8	0.7	0.5	1.1	0.9	1.1	0.5	0.7	0.8	1.1	1.1
120°	0.6	0.5	1.0	0.8	0.8	0.8	1.0	0.5	0.6	1.1	0.9
122.5°	1.0	0.7	0.8	1.0	0.8	1.0	0.8	0.7	1.0	0.5	1.2
125°	0.9	0.6	0.6	0.8	0.7	0.8	0.6	0.6	0.9	0.5	1.2
127.5°	0.8	0.9	0.8	1.2	1.0	1.2	0.8	0.9	0.8	1.0	0.6
130°	0.8	0.9	0.6	1.2	0.5	1.2	0.6	0.9	0.8	1.0	1.2
132.5°	0.9	1.1	1.2	0.7	1.0	0.7	1.2	1.1	0.9	1.1	1.0
135°	0.9	1.1	1.2	0.6	0.6	0.6	1.2	1.1	0.9	1.1	0.5
137.5°	0.8	1.1	1.3	0.7	0.5	0.7	1.3	1.1	0.8	0.9	1.2
140°	0.9	0.9	0.9	1.1	1.1	1.1	0.9	0.9	0.9	1.1	1.1
142.5°	0.9	0.9	1.3	1.2	1.1	1.2	1.3	0.9	0.9	1.2	1.0
145°	1.1	1.2	0.9	0.7	1.0	0.7	0.9	1.2	1.1	1.0	1.3
147.5°	1.1	1.1	0.7	0.6	1.1	0.6	0.7	1.1	1.1	1.1	1.3
150°	0.7	1.2	1.2	1.3	0.5	1.3	1.2	1.2	0.7	1.1	0.6
152.5°	0.6	1.2	1.2	0.9	1.1	0.9	1.2	1.2	0.6	0.6	0.8
155°	1.0	1.1	1.3	1.3	1.2	1.3	1.3	1.1	1.0	1.3	1.1
157.5°	1.2	1.3	0.8	1.3	1.2	1.3	0.8	1.3	1.2	1.3	1.1
160°	1.0	0.7	1.3	0.9	1.0	0.9	1.3	0.7	1.0	1.2	1.1
162.5°	1.0	1.2	1.5	1.5	1.1	1.5	1.5	1.2	1.0	0.8	1.5
165°	1.2	1.3	1.3	1.3	1.2	1.3	1.3	1.3	1.2	1.1	1.5
167.5°	1.2	0.7	1.5	1.5	0.5	1.5	1.5	0.7	1.2	1.3	1.5
170°	1.3	0.7	1.5	0.7	0.6	0.7	1.5	0.7	1.3	1.3	1.5
172.5°	1.3	0.7	0.8	1.2	1.0	1.2	0.8	0.7	1.3	0.8	1.5
175°	1.3	0.9	1.5	1.5	0.8	1.5	1.5	0.9	1.3	1.5	0.8
177.5°	1.1	1.5	1.5	1.5	1.3	1.5	1.5	1.5	1.1	1.1	1.0
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	227.2	227.2	227.2	227.2	227.2	227.2
2.5°	229.2	225.6	229.2	228.4	227.0	226.8
5°	229.9	226.0	229.9	230.3	228.0	226.3
7.5°	231.7	227.0	231.7	231.5	229.0	225.1
10°	233.9	228.6	233.9	232.8	230.0	223.3
12.5°	235.8	229.7	235.8	234.7	229.9	220.7
15°	237.9	231.8	237.9	235.6	230.0	218.5
17.5°	239.2	233.3	239.2	236.9	229.7	214.4
20°	240.5	234.6	240.5	237.9	229.2	210.7
22.5°	243.1	236.0	243.1	238.7	228.7	206.7
25°	245.6	238.7	245.6	238.3	226.8	201.5
27.5°	248.3	240.2	248.3	238.7	225.2	196.3
30°	248.5	239.3	248.5	239.7	223.2	191.0
32.5°	247.2	241.6	247.2	240.5	220.8	185.5
35°	249.6	247.1	249.6	241.3	218.5	179.8
37.5°	254.8	257.6	254.8	238.1	214.5	173.5
40°	263.5	268.2	263.5	234.5	211.1	167.3
42.5°	272.6	274.0	272.6	232.3	206.6	160.2
45°	276.3	274.4	276.3	233.3	201.7	153.1
47.5°	275.6	272.2	275.6	237.1	196.7	145.7
50°	272.8	266.7	272.8	241.1	191.5	137.7
52.5°	264.7	255.9	264.7	240.4	185.3	129.1
55°	247.5	234.6	247.5	232.0	176.4	120.0
57.5°	223.8	210.1	223.8	219.2	166.4	111.0
60°	195.1	182.8	195.1	200.6	152.3	101.6
62.5°	168.2	161.4	168.2	175.2	137.5	91.9
65°	143.7	140.6	143.7	143.9	122.0	80.4
67.5°	120.9	118.7	120.9	116.4	103.7	67.6
70°	95.8	91.1	95.8	91.5	80.3	53.9
72.5°	69.1	66.9	69.1	67.4	57.8	41.0
75°	49.1	48.5	49.1	45.7	38.6	30.1
77.5°	34.0	36.4	34.0	28.3	22.5	20.0
80°	23.5	24.9	23.5	17.8	12.1	11.4
82.5°	13.7	14.4	13.7	9.4	6.7	6.0
85°	6.6	6.4	6.6	4.2	3.7	3.2
87.5°	1.8	1.9	1.8	2.0	1.5	1.2
90°	1.0	0.9	1.0	1.1	1.0	0.5
92.5°	1.1	0.8	1.1	1.0	1.0	0.5
95°	0.7	0.5	0.7	0.6	0.6	0.9
97.5°	0.5	0.8	0.5	0.7	0.5	0.7
100°	1.0	0.8	1.0	1.0	0.9	0.8
102.5°	1.0	0.5	1.0	0.8	0.9	0.6
105°	0.9	0.9	0.9	1.2	1.0	0.9
107.5°	1.1	0.9	1.1	1.1	1.1	0.8
110°	0.9	1.0	0.9	0.7	0.5	1.0





TEST NUMBER: 19159A

CATALOG NUMBER: 694-WP-12-CF1/32

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1.0	1.0	1.0	0.6	0.8	0.8
115°	0.9	1.0	0.9	0.8	0.5	0.8
117.5°	1.1	0.5	1.1	1.1	1.1	0.8
120°	1.2	0.8	1.2	0.9	1.1	0.6
122.5°	1.1	0.9	1.1	1.2	0.5	1.0
125°	0.9	0.7	0.9	1.2	0.5	0.9
127.5°	1.2	1.0	1.2	0.6	1.0	0.8
130°	1.2	0.9	1.2	1.2	1.0	0.8
132.5°	1.2	1.0	1.2	1.0	1.1	0.9
135°	1.1	1.0	1.1	0.5	1.1	0.9
137.5°	1.0	0.6	1.0	1.2	0.9	0.8
140°	1.1	1.1	1.1	1.1	1.1	0.9
142.5°	1.2	1.0	1.2	1.0	1.2	0.9
145°	1.2	0.9	1.2	1.3	1.0	1.1
147.5°	1.3	1.1	1.3	1.3	1.1	1.1
150°	1.0	0.8	1.0	0.6	1.1	0.7
152.5°	0.8	0.6	0.8	0.8	0.6	0.6
155°	1.2	1.0	1.2	1.1	1.3	1.0
157.5°	1.3	1.0	1.3	1.1	1.3	1.2
160°	1.2	0.6	1.2	1.1	1.2	1.0
162.5°	1.5	1.2	1.5	1.5	0.8	1.0
165°	1.5	0.9	1.5	1.5	1.1	1.2
167.5°	0.7	1.2	0.7	1.5	1.3	1.2
170°	0.7	1.2	0.7	1.5	1.3	1.3
172.5°	1.5	1.2	1.5	1.5	0.8	1.3
175°	1.2	1.3	1.2	0.8	1.5	1.3
177.5°	1.5	0.7	1.5	1.0	1.1	1.1
180°	1.3	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)