

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: 19159

Luminaire Tested: **694-WP-12-CF1/26**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19159
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 694-WP-12-CF1/26
Description: EXTERIOR WALL MOUNT LUMINAIRE WHITE BACK AND STEEL BOWL INTERIOR
WITH CLEAR FLAT PLASTIC LENS
Light Source: ONE SYLVANIA 26 WATT CPFL LAMP

CF26TE/IN/830. LUMEN RATING = 1800 LMS.

Ballast/Driver: -

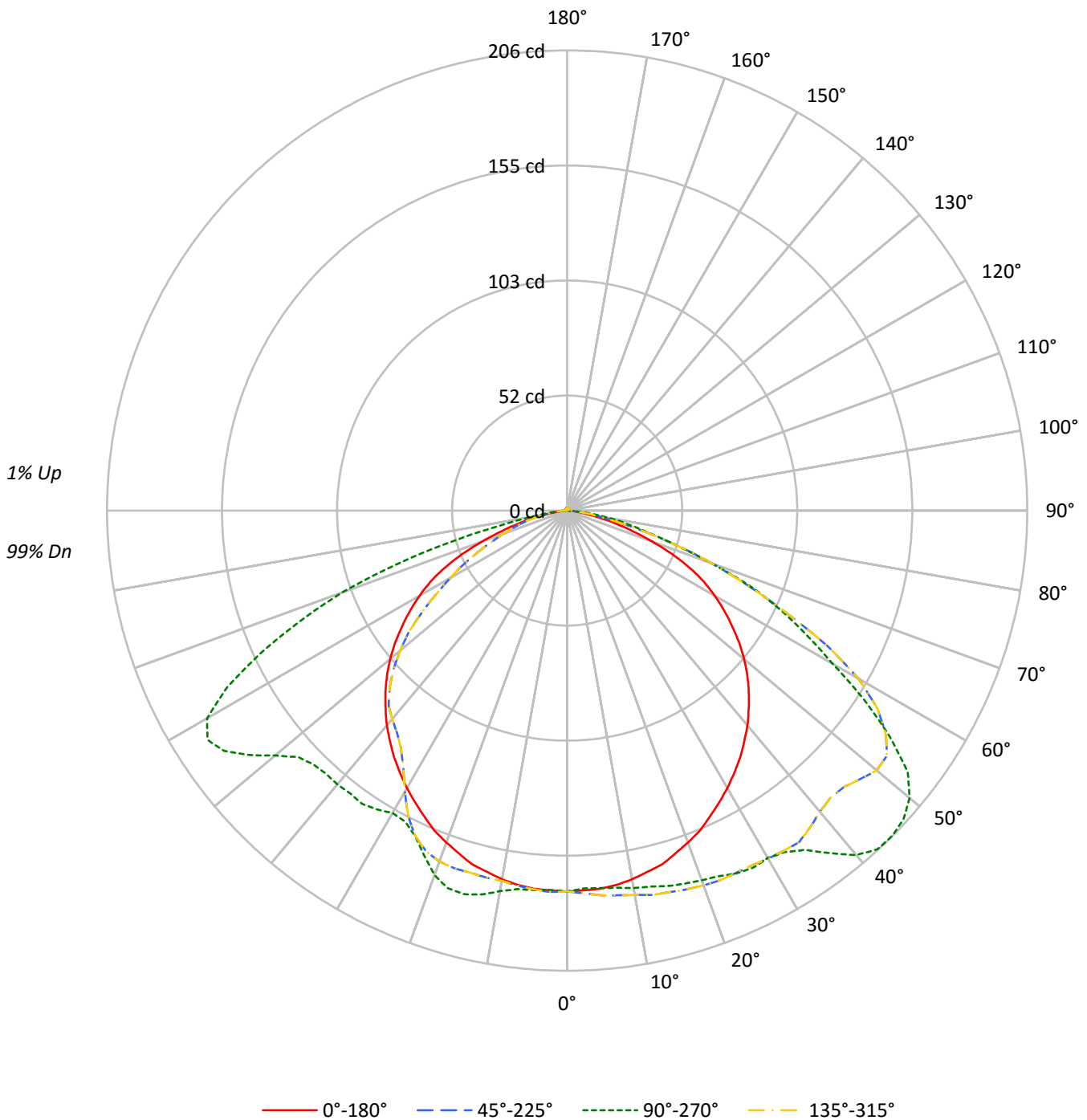
Summary

Lumens per Lamp: 1800 (1 lamp)
Luminaire Lumens: 605.2 lumens
Efficiency: 33.6%
Efficacy: 25.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.59 / 1.6
Luminous Opening: Rectangular (W 0.33' x L: 0.75' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7415	7415	7415	7415
5°	7417	7404	7417	7443
10°	7401	7578	7401	7640
15°	7384	7834	7384	8005
20°	7317	8150	7317	8035
25°	7256	8599	7256	7716
30°	7201	9019	7201	7849
35°	7167	9843	7167	8505
40°	7131	11428	7131	9084
45°	7073	12664	7073	9884
50°	6996	13539	6996	11543
55°	6832	13353	6832	14217
60°	6637	11934	6637	16187
65°	6216	10867	6216	15611
70°	5150	8698	5150	13619
75°	3814	6133	3814	8939
80°	2154	4709	2154	4007
85°	1247	2445	1247	2146



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	16.3	2.7	0.9
10°-20°	48.4	8.0	2.7
20°-30°	76.3	12.6	4.2
30°-40°	98.3	16.2	5.5
40°-50°	115.7	19.1	6.4
50°-60°	119.2	19.7	6.6
60°-70°	87.0	14.4	4.8
70°-80°	33.8	5.6	1.9
80°-90°	5.1	0.8	0.3
90°-100°	0.8	0.1	0.0
100°-110°	0.8	0.1	0.0
110°-120°	0.7	0.1	0.0
120°-130°	0.7	0.1	0.0
130°-140°	0.7	0.1	0.0
140°-150°	0.6	0.1	0.0
150°-160°	0.4	0.1	0.0
160°-170°	0.3	0.0	0.0
170°-180°	0.1	0.0	0.0
0°-30°	141.0	23.3	7.8
0°-40°	239.2	39.5	13.3
0°-60°	474.1	78.3	26.3
0°-90°	600.1	99.1	33.3
90°-120°	2.4	0.4	0.1
90°-150°	4.4	0.7	0.2
90°-180°	5.0	0.8	0.3
0°-180°	605.2	100.0	33.6

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	170	170	170	170	170	
5°	170	170	170	170	170	16
15°	164	174	164	178	164	46
25°	151	179	151	161	151	70
35°	135	185	135	160	135	84
45°	115	206	115	161	115	89
55°	90	176	90	188	90	81
65°	60	106	60	152	60	59
75°	23	36	23	53	23	25
85°	2	5	2	4	2	3
90°	0	1	0	1	0	0
95°	1	0	1	1	1	1
105°	1	1	1	1	1	1
115°	1	1	1	0	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°	170.5	170.5	170.5	170.5	170.5	170.5	170.5	170.5	170.5	170.5	170.5
2.5°	170.2	170.3	171.4	172.0	169.3	172.0	171.4	170.3	170.2	169.5	170.9
5°	169.9	171.1	172.9	172.5	169.6	172.5	172.9	171.1	169.9	167.8	170.2
7.5°	169.0	171.9	173.7	173.9	170.3	173.9	173.7	171.9	169.0	166.0	169.4
10°	167.6	172.6	174.7	175.6	171.6	175.6	174.7	172.6	167.6	163.6	168.3
12.5°	165.7	172.5	176.2	177.0	172.4	177.0	176.2	172.5	165.7	161.3	168.2
15°	164.0	172.6	176.8	178.5	174.0	178.5	176.8	172.6	164.0	157.6	167.8
17.5°	161.0	172.4	177.8	179.5	175.1	179.5	177.8	172.4	161.0	154.0	167.9
20°	158.1	172.1	178.5	180.5	176.1	180.5	178.5	172.1	158.1	150.9	167.2
22.5°	155.1	171.7	179.1	182.4	177.1	182.4	179.1	171.7	155.1	147.8	165.1
25°	151.2	170.2	178.9	184.3	179.2	184.3	178.9	170.2	151.2	143.9	160.8
27.5°	147.3	169.0	179.1	186.4	180.3	186.4	179.1	169.0	147.3	140.6	154.1
30°	143.4	167.6	179.9	186.5	179.6	186.5	179.9	167.6	143.4	136.6	145.2
32.5°	139.2	165.7	180.5	185.5	181.3	185.5	180.5	165.7	139.2	132.7	136.4
35°	135.0	164.0	181.1	187.3	185.4	187.3	181.1	164.0	135.0	127.8	129.7
37.5°	130.2	161.0	178.7	191.2	193.3	191.2	178.7	161.0	130.2	122.9	125.2
40°	125.6	158.4	176.0	197.8	201.3	197.8	176.0	158.4	125.6	116.7	121.8
42.5°	120.3	155.0	174.4	204.6	205.6	204.6	174.4	155.0	120.3	109.5	118.3
45°	115.0	151.4	175.1	207.3	205.9	207.3	175.1	151.4	115.0	101.2	112.3
47.5°	109.4	147.6	177.9	206.9	204.3	206.9	177.9	147.6	109.4	92.7	105.5
50°	103.4	143.7	180.9	204.7	200.1	204.7	180.9	143.7	103.4	85.3	97.5
52.5°	97.0	139.1	180.4	198.7	192.1	198.7	180.4	139.1	97.0	79.4	89.3
55°	90.1	132.4	174.1	185.8	176.1	185.8	174.1	132.4	90.1	73.8	79.2
57.5°	83.4	124.9	164.5	167.9	157.7	167.9	164.5	124.9	83.4	67.5	69.3
60°	76.3	114.4	150.5	146.4	137.2	146.4	150.5	114.4	76.3	59.9	60.4
62.5°	69.0	103.2	131.5	126.3	121.2	126.3	131.5	103.2	69.0	52.8	52.5
65°	60.4	91.6	108.1	107.9	105.6	107.9	108.1	91.6	60.4	45.0	44.2
67.5°	50.8	77.9	87.4	90.8	89.2	90.8	87.4	77.9	50.8	37.9	36.4
70°	40.5	60.4	68.8	72.0	68.4	72.0	68.8	60.4	40.5	30.5	30.6
72.5°	30.9	43.5	50.7	52.0	50.3	52.0	50.7	43.5	30.9	23.4	24.9
75°	22.7	29.0	34.4	36.9	36.5	36.9	34.4	29.0	22.7	17.2	19.6
77.5°	15.2	17.0	21.4	25.6	27.4	25.6	21.4	17.0	15.2	12.0	14.5
80°	8.6	9.2	13.5	17.7	18.8	17.7	13.5	9.2	8.6	7.7	10.0
82.5°	4.6	5.2	7.2	10.4	10.9	10.4	7.2	5.2	4.6	5.0	6.3
85°	2.5	2.9	3.3	5.1	4.9	5.1	3.3	2.9	2.5	2.9	3.8
87.5°	1.0	1.2	1.6	1.4	1.5	1.4	1.6	1.2	1.0	1.5	2.2
90°	0.5	0.9	1.0	0.9	0.8	0.9	1.0	0.9	0.5	0.7	1.3
92.5°	0.5	0.9	0.9	1.0	0.7	1.0	0.9	0.9	0.5	0.5	0.9
95°	0.8	0.6	0.6	0.7	0.5	0.7	0.6	0.6	0.8	0.7	1.1
97.5°	0.6	0.5	0.7	0.5	0.7	0.5	0.7	0.5	0.6	0.5	1.1
100°	0.7	0.8	0.9	0.9	0.7	0.9	0.9	0.8	0.7	0.7	1.1
102.5°	0.6	0.8	0.7	0.9	0.5	0.9	0.7	0.8	0.6	0.5	1.0
105°	0.8	0.9	1.1	0.8	0.8	0.8	1.1	0.9	0.8	0.7	0.8
107.5°	0.7	1.0	1.0	1.0	0.8	1.0	1.0	1.0	0.7	0.5	0.9
110°	0.9	0.5	0.7	0.8	0.9	0.8	0.7	0.5	0.9	0.7	0.6



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



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	170.5	170.5	170.5	170.5	170.5	170.5
2.5°	171.3	170.0	171.3	170.9	169.5	170.2
5°	171.9	170.5	171.9	170.2	167.8	169.9
7.5°	171.3	170.9	171.3	169.4	166.0	169.0
10°	172.8	173.0	172.8	168.3	163.6	167.6
12.5°	175.0	176.0	175.0	168.2	161.3	165.7
15°	177.0	177.8	177.0	167.8	157.6	164.0
17.5°	177.1	177.3	177.1	167.9	154.0	161.0
20°	174.4	173.6	174.4	167.2	150.9	158.1
22.5°	169.3	167.2	169.3	165.1	147.8	155.1
25°	161.4	160.8	161.4	160.8	143.9	151.2
27.5°	155.1	157.0	155.1	154.1	140.6	147.3
30°	152.5	156.3	152.5	145.2	136.6	143.4
32.5°	152.4	158.6	152.4	136.4	132.7	139.2
35°	154.3	160.2	154.3	129.7	127.8	135.0
37.5°	154.3	159.6	154.3	125.2	122.9	130.2
40°	152.7	160.0	152.7	121.8	116.7	125.6
42.5°	152.1	159.8	152.1	118.3	109.5	120.3
45°	152.1	160.7	152.1	112.3	101.2	115.0
47.5°	153.9	163.3	153.9	105.5	92.7	109.4
50°	157.3	170.6	157.3	97.5	85.3	103.4
52.5°	160.0	179.7	160.0	89.3	79.4	97.0
55°	161.3	187.5	161.3	79.2	73.8	90.1
57.5°	159.3	190.9	159.3	69.3	67.5	83.4
60°	151.6	186.1	151.6	60.4	59.9	76.3
62.5°	138.6	171.7	138.6	52.5	52.8	69.0
65°	121.6	151.7	121.6	44.2	45.0	60.4
67.5°	101.1	129.5	101.1	36.4	37.9	50.8
70°	79.8	107.1	79.8	30.6	30.5	40.5
72.5°	56.1	80.2	56.1	24.9	23.4	30.9
75°	37.3	53.2	37.3	19.6	17.2	22.7
77.5°	22.1	29.9	22.1	14.5	12.0	15.2
80°	13.4	16.0	13.4	10.0	7.7	8.6
82.5°	7.4	8.6	7.4	6.3	5.0	4.6
85°	4.2	4.3	4.2	3.8	2.9	2.5
87.5°	2.0	2.5	2.0	2.2	1.5	1.0
90°	0.9	1.4	0.9	1.3	0.7	0.5
92.5°	0.7	0.9	0.7	0.9	0.5	0.5
95°	0.7	0.9	0.7	1.1	0.7	0.8
97.5°	0.5	0.8	0.5	1.1	0.5	0.6
100°	0.7	0.5	0.7	1.1	0.7	0.7
102.5°	0.5	0.5	0.5	1.0	0.5	0.6
105°	1.0	0.6	1.0	0.8	0.7	0.8
107.5°	0.8	0.7	0.8	0.9	0.5	0.7
110°	1.0	0.5	1.0	0.6	0.7	0.9



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CATALOG NUMBER: 694-WP-12-CF1/26

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)