

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: 18664

Luminaire Tested: **632-CF1/26**

Issue Date: 3/3/2020

**Test Information**

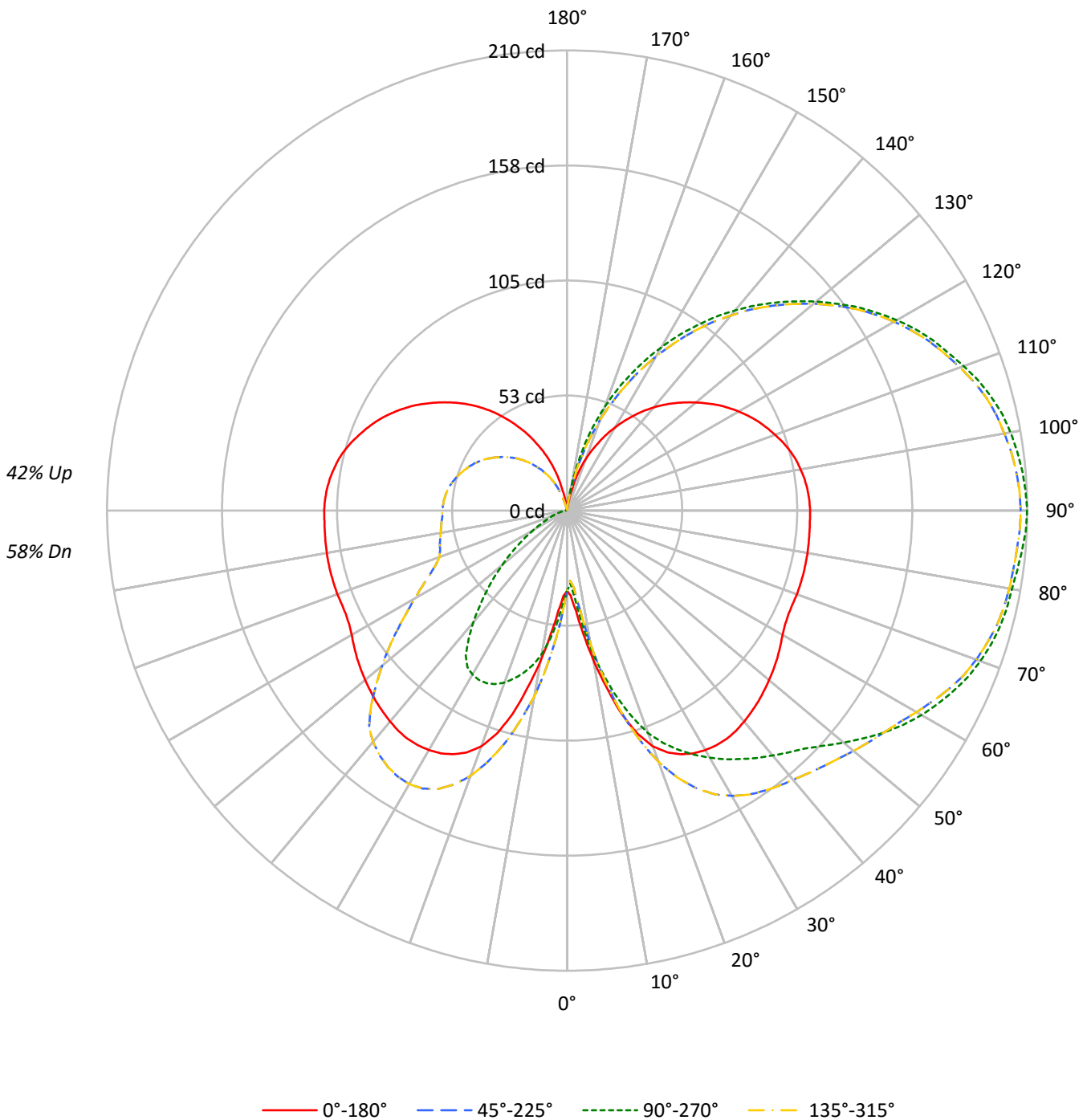
Test Method: LM-66-11  
Report Number: 18664  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 632-CF1/26  
Description: FLUORESCENT WALL MOUNT LUMINAIRE WITH WHITE INTERIOR AND WHITE  
PLASTIC WRAP LENS  
Light Source: ONE SYLVANIA 26 WATT CPFL LAMP  
  
CF26DD/E830. LUMEN RATING = 1800 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1800 (1 lamp)  
Luminaire Lumens: 1329.7 lumens  
Efficiency: 73.9%  
Efficacy: 49.2 lumens/watt  
Spacing Criteria (0/90/45): 3.11 / 2.93 / 3.09  
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 0.38' x H: 0.71')  
CIE Type: General Diffuse  
  
Input Watts (W): 27  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 18664  
CATALOG NUMBER: 632-CF1/26

### 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	81	81	81	81	75	75	75	75	65	65	65	55	55	55	47	47	47	43
1	70	65	61	57	65	60	57	53	51	48	46	43	41	39	36	34	32	29
2	62	55	49	44	57	51	45	41	43	39	35	36	33	30	29	27	25	21
3	56	47	40	35	51	44	38	33	37	32	28	31	27	24	25	22	20	17
4	51	41	34	29	47	38	32	27	32	27	23	27	23	19	22	19	16	13
5	46	36	29	24	42	34	27	22	28	23	19	24	20	16	19	16	13	11
6	42	32	25	20	39	30	24	19	25	20	16	21	17	14	17	14	11	9
7	39	29	22	17	36	27	21	16	23	18	14	19	15	12	16	12	10	8
8	36	26	20	15	33	24	18	14	21	16	12	17	13	10	14	11	8	7
9	34	24	17	13	31	22	16	12	19	14	11	16	12	9	13	10	7	6
10	31	21	16	12	29	20	15	11	17	13	10	14	11	8	12	9	7	5

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

	0°	90°	180°	270°
0°	3840	3840	3840	3840
5°	4155	3407	4155	4341
10°	5561	4738	5561	4833
15°	6941	5633	6941	4881
20°	7609	6161	7609	4763
25°	7590	6260	7590	4519
30°	7354	6263	7354	4156
35°	7052	6238	7052	3638
40°	6704	6231	6704	2849
45°	6378	6275	6378	2126
50°	6085	6503	6085	1524
55°	5839	6792	5839	1050
60°	5622	7052	5622	669
65°	5528	7276	5528	408
70°	5581	7485	5581	261
75°	5674	7665	5674	157
80°	5804	7825	5804	87
85°	5977	8077	5977	35



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	5.2	0.4	0.3
10°-20°	27.6	2.1	1.5
20°-30°	59.1	4.4	3.3
30°-40°	84.8	6.4	4.7
40°-50°	100.7	7.6	5.6
50°-60°	111.0	8.3	6.2
60°-70°	119.8	9.0	6.7
70°-80°	128.5	9.7	7.1
80°-90°	132.9	10.0	7.4
90°-100°	131.9	9.9	7.3
100°-110°	122.5	9.2	6.8
110°-120°	105.4	7.9	5.9
120°-130°	83.3	6.3	4.6
130°-140°	59.1	4.4	3.3
140°-150°	36.1	2.7	2.0
150°-160°	17.0	1.3	0.9
160°-170°	4.5	0.3	0.2
170°-180°	0.2	0.0	0.0
0°-30°	91.9	6.9	5.1
0°-40°	176.7	13.3	9.8
0°-60°	388.4	29.2	21.6
0°-90°	769.6	57.9	42.8
90°-120°	359.8	27.1	20.0
90°-150°	538.3	40.5	29.9
90°-180°	560.0	42.1	31.1
0°-180°	1329.7	100.0	73.9

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	37	37	37	37	37	
5°	46	40	46	51	46	5
15°	96	88	96	77	96	27
25°	123	120	123	87	123	57
35°	127	138	127	81	127	80
45°	123	154	123	52	123	95
55°	117	177	117	27	117	105
65°	112	195	112	11	112	111
75°	112	204	112	4	112	118
85°	111	208	111	1	111	91
90°	111	210	111	0	111	61
95°	110	208	110	0	110	90
105°	105	200	105	0	105	111
115°	96	184	96	0	96	95
125°	84	162	84	0	84	75
135°	69	134	69	0	69	54
145°	53	103	53	0	53	33
155°	35	68	35	0	35	16
165°	15	32	15	0	15	5
175°	1	4	1	0	1	0
180°	0	0	0	0	0	



TEST NUMBER: 18664  
 CATALOG NUMBER: 632-CF1/26

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
2.5°	39.0	32.5	32.1	32.4	33.1	32.4	32.1	32.5	39.0	46.4	46.1
5°	45.9	35.0	35.4	37.1	39.8	37.1	35.4	35.0	45.9	58.5	58.6
7.5°	56.6	43.6	46.1	48.2	51.9	48.2	46.1	43.6	56.6	72.1	72.0
10°	69.4	56.4	62.3	62.3	65.1	62.3	62.3	56.4	69.4	86.9	85.7
12.5°	82.4	71.0	79.0	76.0	76.8	76.0	79.0	71.0	82.4	101.7	97.9
15°	95.9	86.9	95.1	90.2	88.4	90.2	95.1	86.9	95.9	117.0	109.9
17.5°	106.7	101.8	109.4	102.4	98.6	102.4	109.4	101.8	106.7	129.7	120.0
20°	114.5	114.7	122.1	113.9	108.0	113.9	122.1	114.7	114.5	139.7	128.8
22.5°	119.4	124.0	132.0	122.9	114.8	122.9	132.0	124.0	119.4	146.0	135.4
25°	122.7	130.6	139.8	129.8	120.4	129.8	139.8	130.6	122.7	149.9	140.2
27.5°	124.9	135.4	146.0	135.6	125.6	135.6	146.0	135.4	124.9	152.0	143.0
30°	126.2	138.5	150.3	140.4	130.2	140.4	150.3	138.5	126.2	152.5	144.1
32.5°	126.9	140.8	153.8	144.9	134.6	144.9	153.8	140.8	126.9	151.6	143.9
35°	127.1	142.7	156.2	148.9	138.4	148.9	156.2	142.7	127.1	149.5	142.7
37.5°	126.6	144.2	158.4	152.4	142.3	152.4	158.4	144.2	126.6	146.2	140.7
40°	125.7	145.0	160.4	156.2	145.9	156.2	160.4	145.0	125.7	141.9	137.8
42.5°	124.5	145.7	162.7	159.9	149.7	159.9	162.7	145.7	124.5	137.1	133.8
45°	123.3	146.6	165.1	163.5	153.5	163.5	165.1	146.6	123.3	132.0	126.6
47.5°	121.8	147.0	167.7	167.5	158.8	167.5	167.7	147.0	121.8	126.9	118.4
50°	120.3	147.8	170.6	173.5	164.7	173.5	170.6	147.8	120.3	121.7	110.3
52.5°	118.8	148.7	173.6	179.2	170.6	179.2	173.6	148.7	118.8	116.4	102.4
55°	117.1	149.9	176.5	185.3	176.6	185.3	176.5	149.9	117.1	111.2	94.3
57.5°	115.3	151.2	179.8	190.9	181.9	190.9	179.8	151.2	115.3	106.1	87.0
60°	113.5	152.2	184.0	196.4	186.7	196.4	184.0	152.2	113.5	100.9	80.2
62.5°	112.2	153.4	188.2	201.3	190.8	201.3	188.2	153.4	112.2	96.5	74.4
65°	111.5	155.6	192.4	205.5	194.6	205.5	192.4	155.6	111.5	92.8	69.1
67.5°	111.4	157.9	196.0	209.4	198.1	209.4	196.0	157.9	111.4	89.8	64.9
70°	111.6	159.9	198.7	212.4	200.7	212.4	198.7	159.9	111.6	88.3	62.0
72.5°	111.6	161.6	201.0	214.7	202.9	214.7	201.0	161.6	111.6	87.5	60.8
75°	111.6	163.1	202.9	216.6	204.5	216.6	202.9	163.1	111.6	86.8	60.1
77.5°	111.5	164.2	204.1	218.1	205.6	218.1	204.1	164.2	111.5	86.2	59.4
80°	111.4	164.8	204.9	218.9	206.1	218.9	204.9	164.8	111.4	85.7	58.6
82.5°	111.2	165.3	205.4	220.0	207.2	220.0	205.4	165.3	111.2	85.1	58.0
85°	111.0	165.3	206.0	221.1	208.4	221.1	206.0	165.3	111.0	84.7	57.5
87.5°	110.9	165.7	206.7	221.9	209.5	221.9	206.7	165.7	110.9	84.3	57.0
90°	110.9	165.5	207.0	222.1	209.9	222.1	207.0	165.5	110.9	84.3	57.0
92.5°	110.6	165.3	206.6	222.1	209.4	222.1	206.6	165.3	110.6	84.0	56.7
95°	110.1	164.3	205.7	221.1	208.5	221.1	205.7	164.3	110.1	83.4	56.4
97.5°	109.3	163.1	204.4	219.6	207.1	219.6	204.4	163.1	109.3	82.8	55.9
100°	108.2	161.6	202.6	217.9	205.5	217.9	202.6	161.6	108.2	81.9	55.4
102.5°	107.0	159.7	200.7	215.7	203.4	215.7	200.7	159.7	107.0	80.7	54.5
105°	105.3	157.3	198.2	212.9	200.4	212.9	198.2	157.3	105.3	79.3	53.5
107.5°	103.3	154.6	194.8	209.3	196.9	209.3	194.8	154.6	103.3	77.7	52.4
110°	101.0	151.0	190.8	204.9	192.6	204.9	190.8	151.0	101.0	76.0	51.2



TEST NUMBER: 18664  
 CATALOG NUMBER: 632-CF1/26

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	98.7	147.3	186.7	200.5	188.2	200.5	186.7	147.3	98.7	74.1	49.9
115°	96.2	143.7	182.5	196.0	184.1	196.0	182.5	143.7	96.2	72.1	48.6
117.5°	93.4	139.5	177.6	190.8	179.2	190.8	177.6	139.5	93.4	69.9	47.1
120°	90.4	134.9	172.4	185.1	173.8	185.1	172.4	134.9	90.4	67.6	45.5
122.5°	87.3	130.0	166.6	178.9	167.9	178.9	166.6	130.0	87.3	65.1	43.8
125°	84.0	124.8	160.5	172.4	161.8	172.4	160.5	124.8	84.0	62.4	41.9
127.5°	80.3	119.2	153.7	165.3	155.1	165.3	153.7	119.2	80.3	59.7	39.9
130°	76.8	113.4	146.8	158.0	148.4	158.0	146.8	113.4	76.8	57.0	38.1
132.5°	73.1	107.4	139.5	150.2	141.3	150.2	139.5	107.4	73.1	54.2	36.0
135°	69.3	101.3	132.1	142.5	134.2	142.5	132.1	101.3	69.3	51.3	33.9
137.5°	65.5	95.1	124.5	134.7	126.9	134.7	124.5	95.1	65.5	48.2	31.7
140°	61.4	88.4	116.2	126.0	119.2	126.0	116.2	88.4	61.4	45.0	29.4
142.5°	57.3	81.8	108.0	117.5	111.5	117.5	108.0	81.8	57.3	41.9	27.1
145°	52.8	74.8	99.2	108.2	103.0	108.2	99.2	74.8	52.8	38.3	24.5
147.5°	48.5	67.9	90.4	99.2	94.8	99.2	90.4	67.9	48.5	34.9	22.2
150°	43.9	60.8	81.1	89.5	86.1	89.5	81.1	60.8	43.9	31.4	19.5
152.5°	39.4	53.8	72.0	80.0	77.5	80.0	72.0	53.8	39.4	27.9	17.0
155°	34.6	46.6	62.5	70.3	68.5	70.3	62.5	46.6	34.6	24.3	14.1
157.5°	30.0	39.4	53.1	60.6	59.7	60.6	53.1	39.4	30.0	20.8	11.2
160°	25.4	32.2	44.0	51.1	50.8	51.1	44.0	32.2	25.4	17.2	7.8
162.5°	20.4	24.7	34.5	41.1	41.4	41.1	34.5	24.7	20.4	13.4	4.1
165°	15.1	17.3	25.5	31.3	31.7	31.3	25.5	17.3	15.1	9.4	1.3
167.5°	9.3	11.1	16.3	20.5	21.0	20.5	16.3	11.1	9.3	5.0	0.6
170°	4.8	7.2	8.4	11.0	11.6	11.0	8.4	7.2	4.8	1.4	0.5
172.5°	1.8	4.0	4.1	5.4	6.2	5.4	4.1	4.0	1.8	0.5	0.5
175°	0.6	1.5	1.6	2.2	3.6	2.2	1.6	1.5	0.6	0.5	0.5
177.5°	0.5	0.5	0.8	0.8	0.6	0.8	0.8	0.5	0.5	0.5	0.5
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: 18664  
 CATALOG NUMBER: 632-CF1/26

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	36.6	36.6	36.6	36.6	36.6	36.6
2.5°	44.5	41.9	44.5	46.1	46.4	39.0
5°	55.2	50.7	55.2	58.6	58.5	45.9
7.5°	65.8	58.9	65.8	72.0	72.1	56.6
10°	75.6	66.4	75.6	85.7	86.9	69.4
12.5°	84.0	72.2	84.0	97.9	101.7	82.4
15°	91.3	76.6	91.3	109.9	117.0	95.9
17.5°	97.0	80.3	97.0	120.0	129.7	106.7
20°	102.0	83.5	102.0	128.8	139.7	114.5
22.5°	106.0	85.7	106.0	135.4	146.0	119.4
25°	109.0	86.9	109.0	140.2	149.9	122.7
27.5°	110.9	87.1	110.9	143.0	152.0	124.9
30°	111.5	86.4	111.5	144.1	152.5	126.2
32.5°	111.3	84.7	111.3	143.9	151.6	126.9
35°	109.9	80.7	109.9	142.7	149.5	127.1
37.5°	104.7	73.8	104.7	140.7	146.2	126.6
40°	97.0	66.7	97.0	137.8	141.9	125.7
42.5°	88.7	59.1	88.7	133.8	137.1	124.5
45°	81.0	52.0	81.0	126.6	132.0	123.3
47.5°	73.4	45.2	73.4	118.4	126.9	121.8
50°	66.0	38.6	66.0	110.3	121.7	120.3
52.5°	59.4	32.8	59.4	102.4	116.4	118.8
55°	53.0	27.3	53.0	94.3	111.2	117.1
57.5°	47.3	22.3	47.3	87.0	106.1	115.3
60°	41.9	17.7	41.9	80.2	100.9	113.5
62.5°	37.3	14.0	37.3	74.4	96.5	112.2
65°	33.6	10.9	33.6	69.1	92.8	111.5
67.5°	31.4	8.7	31.4	64.9	89.8	111.4
70°	29.7	7.0	29.7	62.0	88.3	111.6
72.5°	28.3	5.5	28.3	60.8	87.5	111.6
75°	27.3	4.2	27.3	60.1	86.8	111.6
77.5°	26.3	3.2	26.3	59.4	86.2	111.5
80°	25.5	2.3	25.5	58.6	85.7	111.4
82.5°	24.8	1.5	24.8	58.0	85.1	111.2
85°	24.1	0.9	24.1	57.5	84.7	111.0
87.5°	23.7	0.5	23.7	57.0	84.3	110.9
90°	23.7	0.5	23.7	57.0	84.3	110.9
92.5°	23.5	0.5	23.5	56.7	84.0	110.6
95°	23.3	0.5	23.3	56.4	83.4	110.1
97.5°	23.0	0.5	23.0	55.9	82.8	109.3
100°	22.6	0.5	22.6	55.4	81.9	108.2
102.5°	22.2	0.5	22.2	54.5	80.7	107.0
105°	21.7	0.5	21.7	53.5	79.3	105.3
107.5°	21.1	0.5	21.1	52.4	77.7	103.3
110°	20.5	0.5	20.5	51.2	76.0	101.0





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 CATALOG NUMBER: 632-CF1/26

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	19.9	0.5	19.9	49.9	74.1	98.7
115°	19.1	0.5	19.1	48.6	72.1	96.2
117.5°	18.4	0.5	18.4	47.1	69.9	93.4
120°	17.6	0.5	17.6	45.5	67.6	90.4
122.5°	16.7	0.5	16.7	43.8	65.1	87.3
125°	15.9	0.5	15.9	41.9	62.4	84.0
127.5°	14.8	0.5	14.8	39.9	59.7	80.3
130°	13.9	0.5	13.9	38.1	57.0	76.8
132.5°	12.9	0.5	12.9	36.0	54.2	73.1
135°	12.0	0.5	12.0	33.9	51.3	69.3
137.5°	10.9	0.5	10.9	31.7	48.2	65.5
140°	9.7	0.5	9.7	29.4	45.0	61.4
142.5°	8.5	0.5	8.5	27.1	41.9	57.3
145°	7.2	0.5	7.2	24.5	38.3	52.8
147.5°	5.9	0.5	5.9	22.2	34.9	48.5
150°	4.4	0.5	4.4	19.5	31.4	43.9
152.5°	3.2	0.5	3.2	17.0	27.9	39.4
155°	1.9	0.5	1.9	14.1	24.3	34.6
157.5°	1.1	0.5	1.1	11.2	20.8	30.0
160°	0.6	0.5	0.6	7.8	17.2	25.4
162.5°	0.5	0.5	0.5	4.1	13.4	20.4
165°	0.5	0.5	0.5	1.3	9.4	15.1
167.5°	0.5	0.5	0.5	0.6	5.0	9.3
170°	0.5	0.5	0.5	0.5	1.4	4.8
172.5°	0.5	0.5	0.5	0.5	0.5	1.8
175°	0.5	0.5	0.5	0.5	0.5	0.6
177.5°	0.5	0.5	0.5	0.5	0.5	0.5
180°	0.5	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)