

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: 19362

Luminaire Tested: **633-WP-CF2/26**

Issue Date: 3/3/2020

**Test Information**

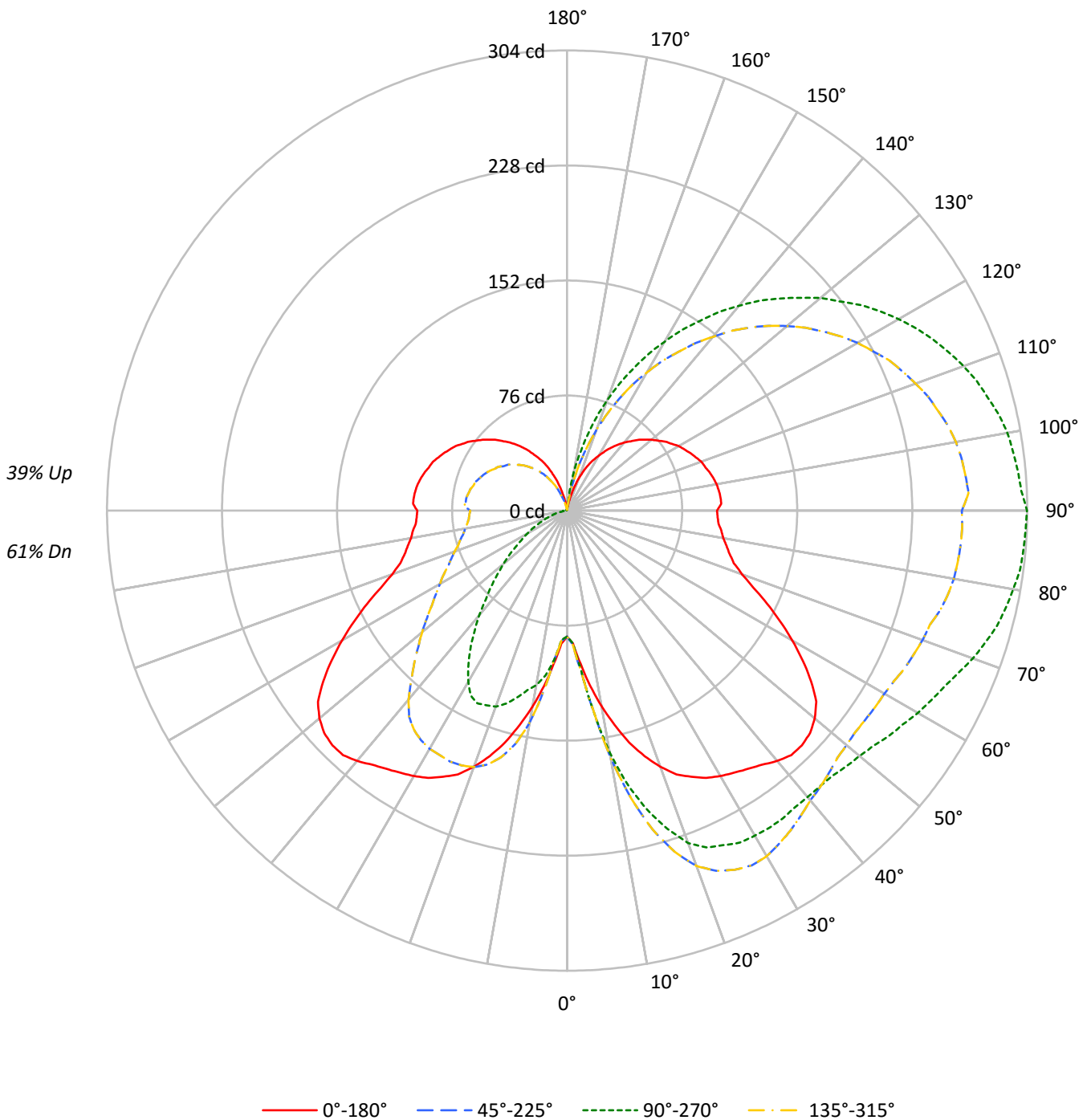
Test Method: LM-66-11  
Report Number: 19362  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 633-WP-CF2/26  
Description: EXTERIOR WALL MOUNT LUMINAIRE WITH WHITE INTERIOR AND WHITE PLASTIC LENS  
Light Source: TWO SYLVANIA 26 WATT CPFL LAMPS  
  
CF26DD/E/841. LUMEN RATING = 3600 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 3600 (1 lamp)  
Luminaire Lumens: 1773.8 lumens  
Efficiency: 49.3%  
Efficacy: 35.5 lumens/watt  
Spacing Criteria (0/90/45): 2.73 / 2.36 / 2.44  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 0.65' x H: 0.73')  
CIE Type: Semi-Direct  
  
Input Watts (W): 50  
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

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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	54	54	54	54	51	51	51	51	44	44	44	38	38	38	33	33	33	30
1	47	44	41	39	44	41	39	37	35	34	32	30	29	27	25	24	23	21
2	42	38	34	30	39	35	31	28	30	27	25	25	23	21	21	20	18	16
3	38	32	28	24	35	30	26	23	26	23	20	22	19	17	18	16	15	13
4	35	28	24	20	32	26	22	19	23	19	17	19	16	14	16	14	12	10
5	32	25	20	17	29	23	19	16	20	17	14	17	14	12	14	12	10	9
6	29	22	18	14	27	21	17	14	18	14	12	15	12	10	13	10	9	7
7	27	20	15	12	25	19	15	12	16	13	10	14	11	9	11	9	8	6
8	25	18	14	11	23	17	13	10	15	11	9	12	10	8	10	8	7	5
9	23	16	12	9	21	15	12	9	13	10	8	11	9	7	10	7	6	5
10	21	15	11	8	20	14	10	8	12	9	7	10	8	6	9	7	5	4

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

	0°	90°	180°	270°
0°	5990	5990	5990	5990
5°	6686	5990	6686	5600
10°	8013	7617	8013	5485
15°	9093	8250	9093	5148
20°	9795	8308	9795	4899
25°	10115	7813	10115	4501
30°	10213	7279	10213	3833
35°	10249	6773	10249	3041
40°	10447	6340	10447	2319
45°	10518	6045	10518	1730
50°	10231	5907	10231	1283
55°	9487	5890	9487	928
60°	8400	5928	8400	676
65°	7288	6004	7288	463
70°	6332	6179	6332	299
75°	5953	6367	5953	182
80°	5891	6531	5891	68
85°	5994	6706	5994	58



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	11.1	0.6	0.3
10°-20°	50.8	2.9	1.4
20°-30°	97.9	5.5	2.7
30°-40°	131.9	7.4	3.7
40°-50°	151.7	8.6	4.2
50°-60°	160.0	9.0	4.4
60°-70°	157.6	8.9	4.4
70°-80°	158.3	8.9	4.4
80°-90°	160.7	9.1	4.5
90°-100°	161.6	9.1	4.5
100°-110°	150.8	8.5	4.2
110°-120°	130.5	7.4	3.6
120°-130°	103.7	5.8	2.9
130°-140°	74.2	4.2	2.1
140°-150°	45.5	2.6	1.3
150°-160°	21.4	1.2	0.6
160°-170°	5.6	0.3	0.2
170°-180°	0.4	0.0	0.0
0°-30°	159.8	9.0	4.4
0°-40°	291.7	16.4	8.1
0°-60°	603.4	34.0	16.8
0°-90°	1080.1	60.9	30.0
90°-120°	442.9	25.0	12.3
90°-150°	666.3	37.6	18.5
90°-180°	694.0	39.1	19.3
0°-180°	1773.8	100.0	49.3

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	83	83	83	83	83	
5°	102	106	102	99	102	11
15°	159	205	159	128	159	45
25°	194	244	194	140	194	90
35°	208	248	208	112	208	131
45°	219	248	219	71	219	169
55°	197	260	197	41	197	175
65°	146	275	146	21	146	145
75°	111	294	111	8	111	118
85°	100	303	100	3	100	83
90°	99	304	99	1	99	55
95°	102	299	102	1	102	83
105°	98	288	98	0	98	103
115°	90	267	90	0	90	89
125°	79	237	79	0	79	71
135°	66	198	66	0	66	51
145°	51	153	51	0	51	32
155°	33	103	33	0	33	15
165°	12	51	12	0	12	4
175°	2	0	2	0	2	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
2.5°	87.9	89.0	89.0	88.3	87.6	88.3	89.0	89.0	87.9	86.0	86.2
5°	101.6	104.0	106.8	106.8	105.9	106.8	106.8	104.0	101.6	99.6	99.0
7.5°	116.8	122.5	133.4	136.2	134.1	136.2	133.4	122.5	116.8	115.3	120.9
10°	131.3	142.6	166.0	168.3	162.5	168.3	166.0	142.6	131.3	133.4	142.1
12.5°	145.0	163.6	194.6	196.0	185.9	196.0	194.6	163.6	145.0	151.4	157.9
15°	158.7	183.5	218.0	217.8	204.8	217.8	218.0	183.5	158.7	168.3	168.7
17.5°	170.1	202.9	236.4	233.0	220.5	233.0	236.4	202.9	170.1	182.2	176.1
20°	180.1	222.3	249.9	244.1	233.7	244.1	249.9	222.3	180.1	193.5	180.3
22.5°	188.7	238.1	257.6	250.4	240.9	250.4	257.6	238.1	188.7	201.8	182.2
25°	194.0	250.4	261.9	253.1	243.9	253.1	261.9	250.4	194.0	206.2	182.9
27.5°	199.1	257.9	264.2	252.9	247.3	252.9	264.2	257.9	199.1	209.0	182.2
30°	202.5	263.0	263.7	252.9	248.0	252.9	263.7	263.0	202.5	209.9	181.7
32.5°	205.3	267.2	260.8	251.5	248.5	251.5	260.8	267.2	205.3	209.2	179.8
35°	208.3	268.3	257.7	249.9	248.3	249.9	257.7	268.3	208.3	207.8	176.6
37.5°	211.6	267.9	253.8	249.4	247.1	249.4	253.8	267.9	211.6	206.2	171.5
40°	215.9	266.1	249.9	248.8	247.1	248.8	249.9	266.1	215.9	204.5	163.0
42.5°	219.1	261.9	247.6	248.8	247.1	248.8	247.6	261.9	219.1	203.2	152.4
45°	219.3	257.7	244.8	249.9	247.8	249.9	244.8	257.7	219.3	201.1	142.9
47.5°	217.6	253.4	242.0	251.8	250.1	251.8	242.0	253.4	217.6	197.6	133.4
50°	213.6	247.6	240.9	254.2	252.2	254.2	240.9	247.6	213.6	191.4	125.1
52.5°	207.5	241.1	240.1	257.6	255.2	257.6	240.1	241.1	207.5	183.5	116.8
55°	196.8	231.4	240.6	261.0	259.6	261.0	240.6	231.4	196.8	174.3	109.1
57.5°	184.7	219.6	241.4	264.9	262.9	264.9	241.4	219.6	184.7	163.0	102.8
60°	171.8	208.3	242.0	268.8	267.5	268.8	242.0	208.3	171.8	148.9	97.1
62.5°	158.8	198.4	243.6	272.3	271.2	272.3	243.6	198.4	158.8	136.8	92.1
65°	145.8	189.1	246.2	276.5	275.1	276.5	246.2	189.1	145.8	124.8	86.7
67.5°	133.3	182.4	248.0	280.2	279.9	280.2	248.0	182.4	133.3	115.6	82.8
70°	122.9	179.2	249.9	285.0	285.3	285.0	249.9	179.2	122.9	108.0	79.1
72.5°	115.5	177.3	251.3	289.4	289.7	289.4	251.3	177.3	115.5	102.2	75.4
75°	111.1	176.6	255.0	293.5	294.0	293.5	255.0	176.6	111.1	98.5	72.8
77.5°	107.8	176.1	257.6	297.0	296.8	297.0	257.6	176.1	107.8	95.0	70.1
80°	104.7	175.9	259.4	299.6	299.3	299.6	259.4	175.9	104.7	92.4	68.4
82.5°	102.8	175.9	260.3	301.0	301.7	301.0	260.3	175.9	102.8	90.2	66.6
85°	100.4	175.5	261.0	302.2	302.6	302.2	261.0	175.5	100.4	88.1	65.2
87.5°	99.5	175.0	261.2	303.1	303.1	303.1	261.2	175.0	99.5	87.4	64.7
90°	99.0	174.5	260.8	303.3	303.8	303.3	260.8	174.5	99.0	86.9	64.0
92.5°	101.9	182.4	265.4	301.7	300.3	301.7	265.4	182.4	101.9	93.4	68.0
95°	101.7	181.7	264.2	301.2	298.9	301.2	264.2	181.7	101.7	92.7	67.2
97.5°	101.1	180.3	262.9	299.3	297.2	299.3	262.9	180.3	101.1	92.2	67.1
100°	100.2	179.4	260.8	296.8	295.4	296.8	260.8	179.4	100.2	90.8	66.1
102.5°	99.0	177.3	257.9	293.5	292.2	293.5	257.9	177.3	99.0	90.2	65.5
105°	97.5	174.0	253.8	289.0	287.8	289.0	253.8	174.0	97.5	88.6	64.0
107.5°	95.6	171.3	250.1	284.5	283.9	284.5	250.1	171.3	95.6	87.4	63.4
110°	94.3	168.3	245.1	279.7	278.8	279.7	245.1	168.3	94.3	85.3	61.8



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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°	92.0	164.6	239.9	273.9	273.0	273.9	239.9	164.6	92.0	83.9	60.5
115°	89.8	159.9	234.8	267.7	267.0	267.7	234.8	159.9	89.8	82.1	58.9
117.5°	87.4	156.1	227.9	260.3	260.3	260.3	227.9	156.1	87.4	79.7	57.3
120°	85.2	151.4	221.5	252.9	252.9	252.9	221.5	151.4	85.2	77.0	55.2
122.5°	82.0	145.6	214.3	243.9	245.1	243.9	214.3	145.6	82.0	74.9	53.9
125°	79.4	140.1	206.2	235.8	236.7	235.8	206.2	140.1	79.4	71.7	51.1
127.5°	75.8	133.8	198.4	225.8	227.0	225.8	198.4	133.8	75.8	69.1	49.7
130°	72.8	127.8	189.6	216.6	218.5	216.6	189.6	127.8	72.8	65.6	47.4
132.5°	69.3	120.6	180.6	206.6	208.0	206.6	180.6	120.6	69.3	63.1	44.8
135°	66.1	113.9	171.0	196.0	198.1	196.0	171.0	113.9	66.1	59.4	42.5
137.5°	62.0	107.0	161.1	184.9	188.0	184.9	161.1	107.0	62.0	56.0	39.8
140°	58.7	100.1	149.8	172.2	176.6	172.2	149.8	100.1	58.7	52.3	37.0
142.5°	54.7	92.2	139.4	160.2	165.5	160.2	139.4	92.2	54.7	49.3	34.2
145°	50.8	84.6	127.8	147.7	153.0	147.7	127.8	84.6	50.8	45.1	31.2
147.5°	46.4	76.5	117.4	135.0	141.7	135.0	117.4	76.5	46.4	41.4	28.0
150°	41.9	68.4	105.2	121.8	128.8	121.8	105.2	68.4	41.9	36.8	24.5
152.5°	37.9	59.4	93.9	109.6	116.8	109.6	93.9	59.4	37.9	33.1	21.0
155°	33.2	50.7	81.4	96.1	103.3	96.1	81.4	50.7	33.2	28.0	17.4
157.5°	28.1	41.4	69.1	83.4	91.1	83.4	69.1	41.4	28.1	23.6	13.2
160°	22.8	33.3	56.5	70.5	77.9	70.5	56.5	33.3	22.8	18.0	9.5
162.5°	17.7	24.1	44.0	57.8	65.0	57.8	44.0	24.1	17.7	13.4	6.5
165°	12.0	14.8	32.6	46.7	51.3	46.7	32.6	14.8	12.0	8.5	3.2
167.5°	7.2	7.6	21.0	34.2	38.2	34.2	21.0	7.6	7.2	3.9	2.3
170°	3.5	3.4	12.7	22.9	26.3	22.9	12.7	3.4	3.5	2.1	1.4
172.5°	2.7	2.8	5.5	11.3	13.0	11.3	5.5	2.8	2.7	1.6	1.6
175°	2.3	2.8	2.6	3.2	0.5	3.2	2.6	2.8	2.3	1.8	1.2
177.5°	2.1	2.6	2.1	1.4	0.5	1.4	2.1	2.6	2.1	1.8	1.6
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	83.2	83.2	83.2	83.2	83.2	83.2
2.5°	85.5	85.5	85.5	86.2	86.0	87.9
5°	99.0	99.0	99.0	99.0	99.6	101.6
7.5°	113.7	109.9	113.7	120.9	115.3	116.8
10°	127.6	117.0	127.6	142.1	133.4	131.3
12.5°	137.5	121.6	137.5	157.9	151.4	145.0
15°	145.6	127.8	145.6	168.7	168.3	158.7
17.5°	152.4	133.6	152.4	176.1	182.2	170.1
20°	157.4	137.8	157.4	180.3	193.5	180.1
22.5°	160.2	139.2	160.2	182.2	201.8	188.7
25°	160.4	140.5	160.4	182.9	206.2	194.0
27.5°	159.9	137.8	159.9	182.2	209.0	199.1
30°	156.5	130.6	156.5	181.7	209.9	202.5
32.5°	146.8	121.6	146.8	179.8	209.2	205.3
35°	136.6	111.5	136.6	176.6	207.8	208.3
37.5°	125.8	100.6	125.8	171.5	206.2	211.6
40°	114.9	90.4	114.9	163.0	204.5	215.9
42.5°	103.3	79.6	103.3	152.4	203.2	219.1
45°	94.0	70.9	94.0	142.9	201.1	219.3
47.5°	86.0	62.4	86.0	133.4	197.6	217.6
50°	79.3	54.8	79.3	125.1	191.4	213.6
52.5°	73.0	48.1	73.0	116.8	183.5	207.5
55°	66.8	40.9	66.8	109.1	174.3	196.8
57.5°	61.8	35.3	61.8	102.8	163.0	184.7
60°	56.5	30.5	56.5	97.1	148.9	171.8
62.5°	52.7	25.9	52.7	92.1	136.8	158.8
65°	48.6	21.2	48.6	86.7	124.8	145.8
67.5°	45.3	17.5	45.3	82.8	115.6	133.3
70°	42.3	13.8	42.3	79.1	108.0	122.9
72.5°	40.0	10.9	40.0	75.4	102.2	115.5
75°	37.4	8.4	37.4	72.8	98.5	111.1
77.5°	35.8	5.5	35.8	70.1	95.0	107.8
80°	33.7	3.1	33.7	68.4	92.4	104.7
82.5°	32.9	2.8	32.9	66.6	90.2	102.8
85°	32.9	2.6	32.9	65.2	88.1	100.4
87.5°	32.4	1.8	32.4	64.7	87.4	99.5
90°	31.9	1.2	31.9	64.0	86.9	99.0
92.5°	31.6	1.2	31.6	68.0	93.4	101.9
95°	31.5	0.7	31.5	67.2	92.7	101.7
97.5°	30.8	1.2	30.8	67.1	92.2	101.1
100°	30.5	0.5	30.5	66.1	90.8	100.2
102.5°	29.9	0.5	29.9	65.5	90.2	99.0
105°	29.1	0.5	29.1	64.0	88.6	97.5
107.5°	28.7	0.5	28.7	63.4	87.4	95.6
110°	28.0	0.5	28.0	61.8	85.3	94.3





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	27.0	0.5	27.0	60.5	83.9	92.0
115°	25.7	0.5	25.7	58.9	82.1	89.8
117.5°	25.2	0.5	25.2	57.3	79.7	87.4
120°	23.8	0.5	23.8	55.2	77.0	85.2
122.5°	23.1	0.5	23.1	53.9	74.9	82.0
125°	22.0	0.5	22.0	51.1	71.7	79.4
127.5°	21.0	0.5	21.0	49.7	69.1	75.8
130°	19.6	0.5	19.6	47.4	65.6	72.8
132.5°	19.0	0.5	19.0	44.8	63.1	69.3
135°	16.9	0.5	16.9	42.5	59.4	66.1
137.5°	15.5	0.5	15.5	39.8	56.0	62.0
140°	14.8	0.5	14.8	37.0	52.3	58.7
142.5°	12.7	0.5	12.7	34.2	49.3	54.7
145°	11.8	0.5	11.8	31.2	45.1	50.8
147.5°	9.7	0.5	9.7	28.0	41.4	46.4
150°	8.5	0.5	8.5	24.5	36.8	41.9
152.5°	6.5	0.5	6.5	21.0	33.1	37.9
155°	5.8	0.5	5.8	17.4	28.0	33.2
157.5°	4.4	0.5	4.4	13.2	23.6	28.1
160°	3.2	0.5	3.2	9.5	18.0	22.8
162.5°	1.6	0.5	1.6	6.5	13.4	17.7
165°	1.6	0.5	1.6	3.2	8.5	12.0
167.5°	1.2	0.5	1.2	2.3	3.9	7.2
170°	0.5	0.5	0.5	1.4	2.1	3.5
172.5°	0.5	0.5	0.5	1.6	1.6	2.7
175°	0.7	0.5	0.7	1.2	1.8	2.3
177.5°	0.5	0.5	0.5	1.6	1.8	2.1
180°	0.5	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)