

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: 20432

Luminaire Tested: **692-T5C/1/22**

Issue Date: 3/3/2020

**Test Information**

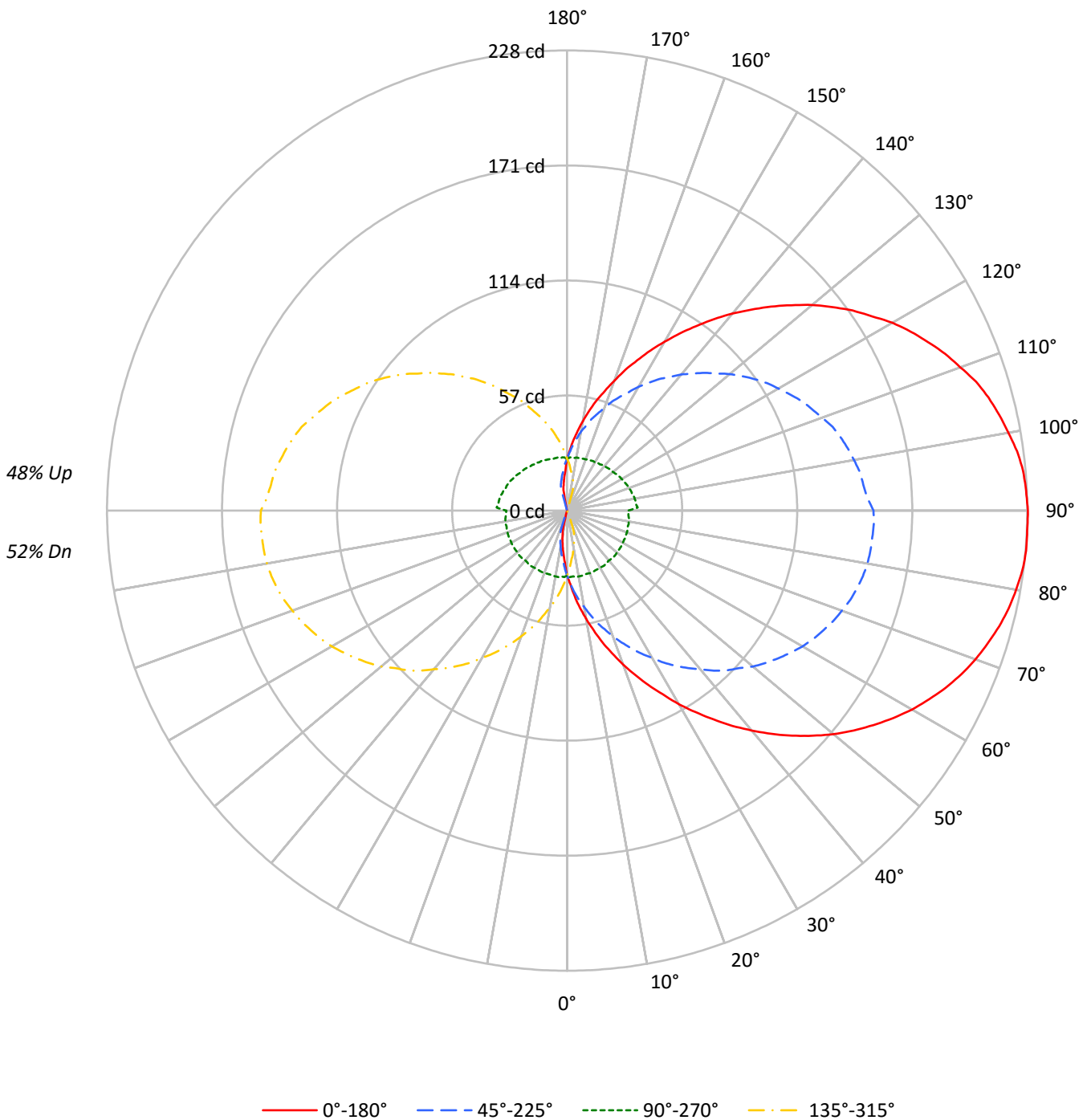
Test Method: LM-66-11  
Report Number: 20432  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 692-T5C/1/22  
Description: INTERIOR WALL MOUNT LUMINAIRE WITH WHITE PLASTIC LENS AND BAFFLE RING  
Light Source: ONE SYLVANIA 26 WATT CPFL LAMP  
  
FPC22/835. LUMEN RATING = 1800 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1800 (1 lamp)  
Luminaire Lumens: 740.1 lumens  
Efficiency: 41.1%  
Efficacy: 32.2 lumens/watt  
Spacing Criteria (0/90/45): 3 / 1.54 / 2.51  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 1.06' x H: 1.06')  
CIE Type: General Diffuse  
  
Input Watts (W): 23  
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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CATALOG NUMBER: 692-T5C/1/22

### 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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	44	44	44	44	41	41	41	41	35	35	35	29	29	29	24	24	24	21																												
1	38	35	33	31	35	32	30	28	27	25	24	22	21	20	17	17	16	13																												
2	34	30	26	23	31	27	24	21	22	20	18	18	16	15	14	13	11	9																												
3	30	25	21	18	28	23	20	17	19	16	14	15	13	11	12	10	9	7																												
4	27	22	18	15	25	20	17	14	17	14	11	13	11	9	10	8	7	5																												
5	25	19	15	12	23	18	14	11	15	12	10	12	9	8	9	7	6	4																												
6	23	17	13	10	21	16	12	10	13	10	8	10	8	6	8	6	5	4																												
7	21	15	12	9	19	14	11	8	12	9	7	9	7	5	7	5	4	3																												
8	19	14	10	8	18	13	9	7	10	8	6	8	6	5	7	5	4	3																												
9	18	13	9	7	16	11	8	6	10	7	5	8	6	4	6	4	3	2																												
10	17	11	8	6	15	10	8	6	9	6	5	7	5	4	6	4	3	2																												

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

	0°	90°	180°	270°
0°	1417	1417	1417	1417
5°	1732	1033	860	1033
10°	2077	819	499	819
15°	2437	671	0	671
20°	2794	579	0	579
25°	3169	507	0	507
30°	3581	454	0	454
35°	4001	418	0	418
40°	4456	381	0	381
45°	4923	362	0	362
50°	5403	341	0	341
55°	5874	326	0	326
60°	6374	314	0	314
65°	6887	305	0	305
70°	7420	298	0	298
75°	7988	291	0	291
80°	8609	290	0	290
85°	9304	288	0	288



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	3.1	0.4	0.2
10°-20°	9.8	1.3	0.5
20°-30°	18.4	2.5	1.0
30°-40°	29.7	4.0	1.7
40°-50°	42.6	5.8	2.4
50°-60°	56.1	7.6	3.1
60°-70°	67.9	9.2	3.8
70°-80°	76.3	10.3	4.2
80°-90°	80.4	10.9	4.5
90°-100°	79.3	10.7	4.4
100°-110°	73.2	9.9	4.1
110°-120°	63.2	8.5	3.5
120°-130°	50.7	6.9	2.8
130°-140°	37.4	5.1	2.1
140°-150°	25.9	3.5	1.4
150°-160°	15.6	2.1	0.9
160°-170°	7.9	1.1	0.4
170°-180°	2.5	0.3	0.1
0°-30°	31.3	4.2	1.7
0°-40°	61.1	8.3	3.4
0°-60°	159.7	21.6	8.9
0°-90°	384.3	51.9	21.4
90°-120°	215.7	29.1	12.0
90°-150°	329.8	44.6	18.3
90°-180°	356.0	48.1	19.8
0°-180°	740.1	100.0	41.1

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	32	32	32	32	32	
5°	42	33	21	33	42	4
15°	68	33	0	33	68	20
25°	95	33	0	33	95	45
35°	126	33	0	33	126	80
45°	158	32	0	32	158	122
55°	185	32	0	32	185	166
65°	207	32	0	32	207	205
75°	222	31	0	31	222	234
85°	228	30	0	30	228	186
90°	228	30	0	30	228	125
95°	227	34	0	34	227	184
105°	216	33	0	33	216	228
115°	197	32	0	32	197	196
125°	173	31	0	31	173	155
135°	143	29	0	29	143	111
145°	112	28	0	28	112	71
155°	82	27	0	27	82	39
165°	57	27	0	27	57	16
175°	35	26	16	26	35	4
180°	26	26	26	26	26	



TEST NUMBER: 20432  
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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
2.5°	36.5	36.3	36.3	34.7	33.0	30.6	28.3	26.5	25.8	26.5	28.3
5°	42.5	42.3	40.5	37.4	32.7	28.3	24.4	22.0	21.1	22.0	24.4
7.5°	48.5	47.7	44.6	39.6	33.2	26.4	21.5	17.7	17.1	17.7	21.5
10°	54.5	53.1	48.5	41.5	33.1	24.5	18.5	14.6	13.1	14.6	18.5
12.5°	60.8	59.2	52.8	44.1	33.1	23.0	15.4	11.2	10.2	11.2	15.4
15°	67.6	65.1	57.6	46.4	32.8	21.3	13.2	0.0	0.0	0.0	13.2
17.5°	74.1	71.1	61.6	48.5	32.8	19.7	10.9	0.0	0.0	0.0	10.9
20°	81.1	77.4	66.3	50.3	33.0	18.1	0.0	0.0	0.0	0.0	0.0
22.5°	88.2	83.9	70.8	52.8	32.9	16.6	0.0	0.0	0.0	0.0	0.0
25°	95.4	90.2	75.3	54.6	32.8	15.0	0.0	0.0	0.0	0.0	0.0
27.5°	102.6	97.1	80.0	57.2	32.7	13.9	0.0	0.0	0.0	0.0	0.0
30°	110.8	103.7	84.2	59.4	32.6	12.7	0.0	0.0	0.0	0.0	0.0
32.5°	118.4	111.0	89.4	61.2	32.8	11.6	0.0	0.0	0.0	0.0	0.0
35°	126.2	117.8	93.9	63.1	32.8	10.6	0.0	0.0	0.0	0.0	0.0
37.5°	134.4	124.5	98.3	65.6	32.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	142.2	131.5	102.6	67.6	32.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	150.1	138.5	107.6	69.3	32.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	157.7	145.1	111.9	71.2	32.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	165.1	151.3	115.6	73.0	32.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	172.4	158.3	120.2	74.7	32.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	179.0	164.2	124.0	76.2	32.2	0.0	0.0	0.0	0.0	0.0	0.0
55°	185.3	170.3	127.6	77.7	32.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	191.4	175.5	131.1	78.9	32.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	197.2	180.3	134.6	80.3	31.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	202.3	185.1	137.6	81.4	31.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	207.3	189.7	140.2	82.5	31.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	211.6	193.4	142.8	83.3	31.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	215.4	196.8	144.9	84.0	31.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	218.6	199.8	147.1	84.5	31.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	221.6	202.4	148.7	84.8	31.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	224.1	204.6	150.1	85.4	31.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	225.9	206.2	151.1	85.6	31.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	227.5	207.4	151.6	85.2	30.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	228.3	208.2	151.8	85.2	30.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	228.2	208.1	152.1	85.3	30.4	0.0	0.0	0.0	0.0	0.0	0.0
90°	228.3	208.1	151.8	85.0	30.1	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	227.6	205.8	148.8	82.7	35.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	226.8	204.4	147.3	82.3	34.3	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	224.9	202.4	146.3	81.6	34.2	0.0	0.0	0.0	0.0	0.0	0.0
100°	222.0	200.5	144.3	80.1	34.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	219.3	197.8	142.4	79.1	33.8	0.0	0.0	0.0	0.0	0.0	0.0
105°	216.2	194.6	140.3	78.5	33.2	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	212.4	190.8	137.9	77.4	33.1	0.0	0.0	0.0	0.0	0.0	0.0
110°	207.4	187.2	134.5	75.8	32.4	0.0	0.0	0.0	0.0	0.0	0.0



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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°	202.8	182.8	131.3	74.3	32.4	0.0	0.0	0.0	0.0	0.0	0.0
115°	197.4	177.8	128.3	73.3	31.9	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	192.0	172.8	124.5	71.1	31.8	0.0	0.0	0.0	0.0	0.0	0.0
120°	186.1	167.4	120.9	69.6	31.2	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	179.1	161.2	117.5	68.5	31.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	172.8	155.7	113.5	66.6	30.6	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	165.6	148.6	109.4	65.0	30.1	0.0	0.0	0.0	0.0	0.0	0.0
130°	158.5	142.2	105.2	63.2	29.7	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	150.6	135.9	100.5	61.1	29.6	0.0	0.0	0.0	0.0	0.0	0.0
135°	142.9	129.0	96.5	59.3	29.3	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	135.0	122.3	92.1	57.5	29.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	127.4	115.6	88.0	55.9	28.6	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	119.5	108.9	83.5	53.9	28.5	12.2	0.0	0.0	0.0	0.0	0.0
145°	111.6	101.7	79.5	52.1	28.0	12.7	0.0	0.0	0.0	0.0	0.0
147.5°	104.1	95.7	75.0	50.0	28.2	13.4	0.0	0.0	0.0	0.0	0.0
150°	96.5	89.1	70.8	48.2	27.6	14.0	0.0	0.0	0.0	0.0	0.0
152.5°	89.4	82.7	66.2	46.3	27.7	14.7	0.0	0.0	0.0	0.0	0.0
155°	82.1	76.5	62.3	44.5	27.4	15.0	0.0	0.0	0.0	0.0	0.0
157.5°	75.5	70.1	58.5	42.7	27.2	16.3	0.0	0.0	0.0	0.0	0.0
160°	68.5	65.0	54.2	40.4	27.0	16.6	0.0	0.0	0.0	0.0	0.0
162.5°	62.1	59.3	50.3	38.7	26.9	17.6	0.0	0.0	0.0	0.0	0.0
165°	56.6	53.6	47.0	36.7	26.6	18.5	12.2	0.0	0.0	0.0	12.2
167.5°	50.6	48.4	42.9	35.0	26.6	19.7	14.0	0.0	0.0	0.0	14.0
170°	45.0	43.4	39.8	33.2	26.7	20.8	15.8	11.8	10.3	11.8	15.8
172.5°	39.7	38.7	35.9	31.3	26.2	22.5	18.2	15.1	13.2	15.1	18.2
175°	34.7	34.0	32.5	30.0	26.5	23.3	20.2	18.1	16.5	18.1	20.2
177.5°	29.8	29.5	28.9	28.3	26.3	24.9	23.3	21.4	20.0	21.4	23.3
180°	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6



TEST NUMBER: 20432  
 CATALOG NUMBER: 692-T5C/1/22

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	32.1	32.1	32.1	32.1	32.1	32.1
2.5°	30.6	33.0	34.7	36.3	36.3	36.5
5°	28.3	32.7	37.4	40.5	42.3	42.5
7.5°	26.4	33.2	39.6	44.6	47.7	48.5
10°	24.5	33.1	41.5	48.5	53.1	54.5
12.5°	23.0	33.1	44.1	52.8	59.2	60.8
15°	21.3	32.8	46.4	57.6	65.1	67.6
17.5°	19.7	32.8	48.5	61.6	71.1	74.1
20°	18.1	33.0	50.3	66.3	77.4	81.1
22.5°	16.6	32.9	52.8	70.8	83.9	88.2
25°	15.0	32.8	54.6	75.3	90.2	95.4
27.5°	13.9	32.7	57.2	80.0	97.1	102.6
30°	12.7	32.6	59.4	84.2	103.7	110.8
32.5°	11.6	32.8	61.2	89.4	111.0	118.4
35°	10.6	32.8	63.1	93.9	117.8	126.2
37.5°	0.0	32.4	65.6	98.3	124.5	134.4
40°	0.0	32.2	67.6	102.6	131.5	142.2
42.5°	0.0	32.5	69.3	107.6	138.5	150.1
45°	0.0	32.5	71.2	111.9	145.1	157.7
47.5°	0.0	32.5	73.0	115.6	151.3	165.1
50°	0.0	32.2	74.7	120.2	158.3	172.4
52.5°	0.0	32.2	76.2	124.0	164.2	179.0
55°	0.0	32.1	77.7	127.6	170.3	185.3
57.5°	0.0	32.1	78.9	131.1	175.5	191.4
60°	0.0	31.9	80.3	134.6	180.3	197.2
62.5°	0.0	31.7	81.4	137.6	185.1	202.3
65°	0.0	31.8	82.5	140.2	189.7	207.3
67.5°	0.0	31.6	83.3	142.8	193.4	211.6
70°	0.0	31.5	84.0	144.9	196.8	215.4
72.5°	0.0	31.4	84.5	147.1	199.8	218.6
75°	0.0	31.0	84.8	148.7	202.4	221.6
77.5°	0.0	31.2	85.4	150.1	204.6	224.1
80°	0.0	31.0	85.6	151.1	206.2	225.9
82.5°	0.0	30.9	85.2	151.6	207.4	227.5
85°	0.0	30.5	85.2	151.8	208.2	228.3
87.5°	0.0	30.4	85.3	152.1	208.1	228.2
90°	0.0	30.1	85.0	151.8	208.1	228.3
92.5°	0.0	35.0	82.7	148.8	205.8	227.6
95°	0.0	34.3	82.3	147.3	204.4	226.8
97.5°	0.0	34.2	81.6	146.3	202.4	224.9
100°	0.0	34.0	80.1	144.3	200.5	222.0
102.5°	0.0	33.8	79.1	142.4	197.8	219.3
105°	0.0	33.2	78.5	140.3	194.6	216.2
107.5°	0.0	33.1	77.4	137.9	190.8	212.4
110°	0.0	32.4	75.8	134.5	187.2	207.4





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 CATALOG NUMBER: 692-T5C/1/22

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.0	32.4	74.3	131.3	182.8	202.8
115°	0.0	31.9	73.3	128.3	177.8	197.4
117.5°	0.0	31.8	71.1	124.5	172.8	192.0
120°	0.0	31.2	69.6	120.9	167.4	186.1
122.5°	0.0	31.0	68.5	117.5	161.2	179.1
125°	0.0	30.6	66.6	113.5	155.7	172.8
127.5°	0.0	30.1	65.0	109.4	148.6	165.6
130°	0.0	29.7	63.2	105.2	142.2	158.5
132.5°	0.0	29.6	61.1	100.5	135.9	150.6
135°	0.0	29.3	59.3	96.5	129.0	142.9
137.5°	0.0	29.0	57.5	92.1	122.3	135.0
140°	0.0	28.6	55.9	88.0	115.6	127.4
142.5°	12.2	28.5	53.9	83.5	108.9	119.5
145°	12.7	28.0	52.1	79.5	101.7	111.6
147.5°	13.4	28.2	50.0	75.0	95.7	104.1
150°	14.0	27.6	48.2	70.8	89.1	96.5
152.5°	14.7	27.7	46.3	66.2	82.7	89.4
155°	15.0	27.4	44.5	62.3	76.5	82.1
157.5°	16.3	27.2	42.7	58.5	70.1	75.5
160°	16.6	27.0	40.4	54.2	65.0	68.5
162.5°	17.6	26.9	38.7	50.3	59.3	62.1
165°	18.5	26.6	36.7	47.0	53.6	56.6
167.5°	19.7	26.6	35.0	42.9	48.4	50.6
170°	20.8	26.7	33.2	39.8	43.4	45.0
172.5°	22.5	26.2	31.3	35.9	38.7	39.7
175°	23.3	26.5	30.0	32.5	34.0	34.7
177.5°	24.9	26.3	28.3	28.9	29.5	29.8
180°	25.6	25.6	25.6	25.6	25.6	25.6

(END OF REPORT)