

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: 19389A

Luminaire Tested: **695-WP-DB-CF1/32**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19389A
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 695-WP-DB-CF1/32
Description: INTERIOR WALL MOUNT LUMINAIRE WITH WHITE INTERIOR AND LINEAR
PRISMATIC GLASS LENS
Light Source: ONE 32 WATT CPFL LAMP. LUMEN RATING = 2400 LMS.

Ballast/Driver: -

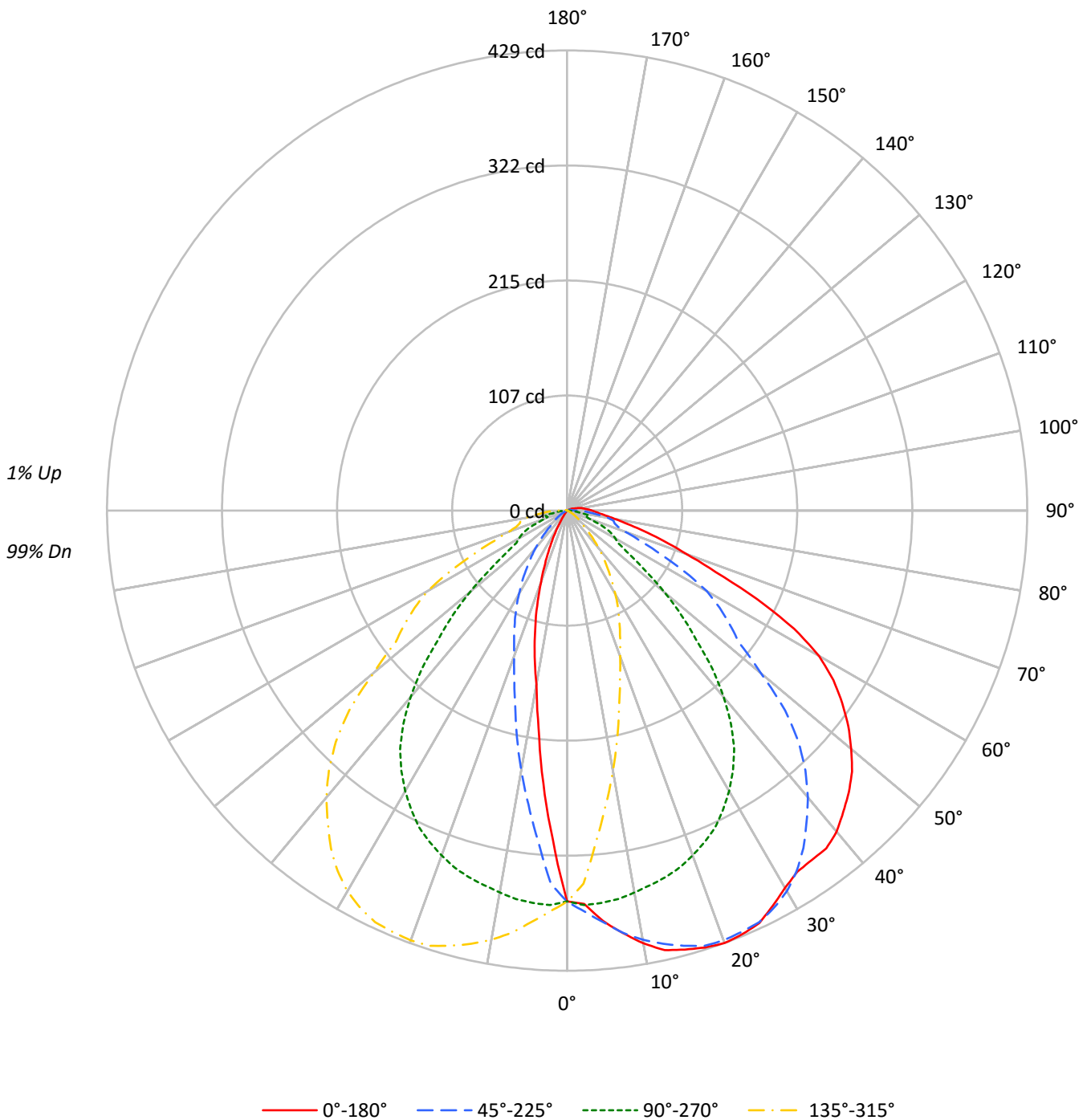
Summary

Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 717.3 lumens
Efficiency: 29.9%
Efficacy: -
Spacing Criteria (0/90/45): 0.87 / 1.22 / 1.19
Luminous Opening: Rectangular (W 0.42' x L: 0.67' 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





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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13939	13939	13939	13939
5°	14748	14100	9799	14100
10°	15913	14041	6393	14041
15°	16779	14015	4574	14015
20°	17467	13926	2898	13926
25°	17899	13767	1650	13767
30°	17941	13335	711	13335
35°	18566	12678	159	12678
40°	19514	11345	0	11345
45°	20086	9196	0	9196
50°	20566	7046	0	7046
55°	20874	4662	0	4662
60°	20740	3970	0	3970
65°	17659	3693	0	3693
70°	13186	2382	0	2382
75°	10981	3059	0	3059
80°	10001	2709	0	2709
85°	13298	2765	0	2765



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	32.5	4.5	1.4
10°-20°	87.3	12.2	3.6
20°-30°	126.0	17.6	5.3
30°-40°	142.2	19.8	5.9
40°-50°	131.7	18.4	5.5
50°-60°	93.6	13.0	3.9
60°-70°	55.7	7.8	2.3
70°-80°	29.5	4.1	1.2
80°-90°	12.4	1.7	0.5
90°-100°	3.8	0.5	0.2
100°-110°	1.8	0.3	0.1
110°-120°	0.7	0.1	0.0
120°-130°	0.1	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	245.8	34.3	10.2
0°-40°	388.1	54.1	16.2
0°-60°	613.3	85.5	25.6
0°-90°	710.9	99.1	29.6
90°-120°	6.3	0.9	0.3
90°-150°	6.4	0.9	0.3
90°-180°	6.0	0.8	0.3
0°-180°	717.3	100.0	29.9

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	364	364	364	364	364	
5°	384	367	255	367	384	37
15°	424	354	116	354	424	120
25°	424	326	39	326	424	195
35°	398	272	3	272	398	250
45°	371	170	0	170	371	286
55°	313	70	0	70	313	279
65°	195	41	0	41	195	192
75°	74	21	0	21	74	81
85°	30	6	0	6	30	28
90°	23	0	0	0	23	13
95°	18	0	0	0	18	14
105°	8	0	0	0	8	9
115°	3	0	0	0	3	3
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: 19389A

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4
2.5°	367.0	373.4	374.3	373.8	368.1	365.7	348.2	324.7	307.2	324.7	348.2
5°	384.1	388.8	385.2	378.5	367.2	354.9	309.6	275.3	255.2	275.3	309.6
7.5°	397.2	402.0	396.9	384.1	365.2	339.5	276.4	232.0	203.8	232.0	276.4
10°	409.7	413.4	406.2	389.5	361.5	321.0	246.2	189.4	164.6	189.4	246.2
12.5°	419.7	423.7	413.7	393.2	357.6	301.6	216.3	160.5	139.7	160.5	216.3
15°	423.7	429.8	420.0	394.8	353.9	283.7	187.0	136.4	115.5	136.4	187.0
17.5°	427.1	432.5	425.5	395.9	348.9	266.9	163.9	116.2	93.1	116.2	163.9
20°	429.1	434.2	426.4	395.9	342.1	248.5	144.4	96.4	71.2	96.4	144.4
22.5°	427.4	434.4	425.1	393.2	334.6	232.7	129.0	79.2	53.8	79.2	129.0
25°	424.1	431.1	423.4	389.2	326.2	215.9	115.5	63.8	39.1	63.8	115.5
27.5°	415.3	425.8	417.6	381.5	314.5	197.1	102.7	48.7	26.5	48.7	102.7
30°	406.2	415.3	409.7	370.8	301.9	179.1	89.7	36.6	16.1	36.6	89.7
32.5°	399.2	403.9	398.3	357.0	287.6	160.9	77.6	27.9	8.1	27.9	77.6
35°	397.6	396.6	384.1	341.5	271.5	142.1	65.9	20.9	3.4	20.9	65.9
37.5°	396.9	390.1	366.6	323.3	250.7	122.0	55.8	14.9	0.0	14.9	55.8
40°	390.8	382.9	349.2	302.3	227.2	102.5	46.1	9.5	0.0	9.5	46.1
42.5°	381.1	373.4	328.7	276.0	200.8	85.0	36.3	6.5	0.0	6.5	36.3
45°	371.3	361.0	304.9	249.2	170.0	71.2	27.5	4.1	0.0	4.1	27.5
47.5°	360.3	345.2	275.7	211.0	144.9	59.1	19.5	2.8	0.0	2.8	19.5
50°	345.6	327.0	235.7	182.1	118.4	49.4	16.5	1.4	0.0	1.4	16.5
52.5°	330.5	302.3	201.5	154.2	91.5	37.7	13.5	0.0	0.0	0.0	13.5
55°	313.0	262.5	185.1	117.6	69.9	27.5	10.7	0.0	0.0	0.0	10.7
57.5°	294.4	211.0	168.6	91.7	56.1	20.5	8.1	0.0	0.0	0.0	8.1
60°	271.1	178.6	150.2	72.9	51.9	16.8	5.8	0.0	0.0	0.0	5.8
62.5°	238.5	155.8	123.9	66.1	47.2	15.8	3.7	0.0	0.0	0.0	3.7
65°	195.1	137.4	95.7	61.2	40.8	12.5	2.3	0.0	0.0	0.0	2.3
67.5°	149.8	120.2	73.6	56.8	30.3	11.1	1.4	0.0	0.0	0.0	1.4
70°	117.9	107.8	57.1	46.3	21.3	8.1	0.7	0.0	0.0	0.0	0.7
72.5°	94.3	95.7	49.4	33.6	19.0	5.1	0.7	0.0	0.0	0.0	0.7
75°	74.3	83.3	45.7	27.0	20.7	4.7	0.4	0.0	0.0	0.0	0.4
77.5°	57.5	68.5	44.4	27.5	20.5	4.1	0.0	0.0	0.0	0.0	0.0
80°	45.4	54.5	38.6	28.9	12.3	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.6	41.0	27.9	18.8	9.4	0.7	0.0	0.0	0.0	0.0	0.0
85°	30.3	31.9	21.2	12.8	6.3	0.4	0.0	0.0	0.0	0.0	0.0
87.5°	26.5	23.9	14.9	7.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
90°	23.2	17.5	7.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	20.5	14.9	5.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	17.5	13.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	15.1	12.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	13.5	9.8	3.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	11.1	8.1	2.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	8.1	6.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	6.1	5.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	5.8	4.7	1.1	0.0	0.0	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°	4.4	4.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	3.4	3.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	1.4	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	1.1	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.4	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: 19389A

CATALOG NUMBER: 695-WP-DB-CF1/32

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	364.4	364.4	364.4	364.4	364.4	364.4
2.5°	365.7	368.1	373.8	374.3	373.4	367.0
5°	354.9	367.2	378.5	385.2	388.8	384.1
7.5°	339.5	365.2	384.1	396.9	402.0	397.2
10°	321.0	361.5	389.5	406.2	413.4	409.7
12.5°	301.6	357.6	393.2	413.7	423.7	419.7
15°	283.7	353.9	394.8	420.0	429.8	423.7
17.5°	266.9	348.9	395.9	425.5	432.5	427.1
20°	248.5	342.1	395.9	426.4	434.2	429.1
22.5°	232.7	334.6	393.2	425.1	434.4	427.4
25°	215.9	326.2	389.2	423.4	431.1	424.1
27.5°	197.1	314.5	381.5	417.6	425.8	415.3
30°	179.1	301.9	370.8	409.7	415.3	406.2
32.5°	160.9	287.6	357.0	398.3	403.9	399.2
35°	142.1	271.5	341.5	384.1	396.6	397.6
37.5°	122.0	250.7	323.3	366.6	390.1	396.9
40°	102.5	227.2	302.3	349.2	382.9	390.8
42.5°	85.0	200.8	276.0	328.7	373.4	381.1
45°	71.2	170.0	249.2	304.9	361.0	371.3
47.5°	59.1	144.9	211.0	275.7	345.2	360.3
50°	49.4	118.4	182.1	235.7	327.0	345.6
52.5°	37.7	91.5	154.2	201.5	302.3	330.5
55°	27.5	69.9	117.6	185.1	262.5	313.0
57.5°	20.5	56.1	91.7	168.6	211.0	294.4
60°	16.8	51.9	72.9	150.2	178.6	271.1
62.5°	15.8	47.2	66.1	123.9	155.8	238.5
65°	12.5	40.8	61.2	95.7	137.4	195.1
67.5°	11.1	30.3	56.8	73.6	120.2	149.8
70°	8.1	21.3	46.3	57.1	107.8	117.9
72.5°	5.1	19.0	33.6	49.4	95.7	94.3
75°	4.7	20.7	27.0	45.7	83.3	74.3
77.5°	4.1	20.5	27.5	44.4	68.5	57.5
80°	3.0	12.3	28.9	38.6	54.5	45.4
82.5°	0.7	9.4	18.8	27.9	41.0	36.6
85°	0.4	6.3	12.8	21.2	31.9	30.3
87.5°	0.0	1.4	7.7	14.9	23.9	26.5
90°	0.0	0.0	2.3	7.2	17.5	23.2
92.5°	0.0	0.0	1.4	5.1	14.9	20.5
95°	0.0	0.0	0.0	4.7	13.8	17.5
97.5°	0.0	0.0	0.0	4.1	12.1	15.1
100°	0.0	0.0	0.7	3.0	9.8	13.5
102.5°	0.0	0.0	0.4	2.3	8.1	11.1
105°	0.0	0.0	0.0	2.8	6.5	8.1
107.5°	0.0	0.0	0.0	2.3	5.4	6.1
110°	0.0	0.0	0.0	1.1	4.7	5.8



TEST NUMBER: 19389A
 CATALOG NUMBER: 695-WP-DB-CF1/32

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.0	0.0	0.0	0.7	4.1	4.4
115°	0.0	0.0	0.0	0.7	3.0	3.4
117.5°	0.0	0.0	0.0	0.4	2.1	1.4
120°	0.0	0.0	0.0	0.4	1.8	1.1
122.5°	0.0	0.0	0.0	0.7	0.7	0.4
125°	0.0	0.0	0.0	0.0	0.7	0.0
127.5°	0.0	0.0	0.0	0.7	0.0	0.0
130°	0.0	0.0	0.0	0.4	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)