

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: SURE-LITES

Report Number: FO38778.PSO

Luminaire Tested: SEL55SF

Test Date: 11/28/17

Test Information

Test Method: LM-79-2019
Report Number: FO38778.PSO
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (FO38778.PSO)
Test Lab: PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY
Test Date: 11/28/17
Issue Date: 11/28/17
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SURE-LITES
Catalog Number: SEL55SF
Description: CLU3 1-LGIT H35C4 LED SIDE LAMP METAL COVER PAINTED WHITE @680mA
Light Source: LED. LUMINAIRE OUTPUT = 258.9 LUMENS
Ballast/Driver: -

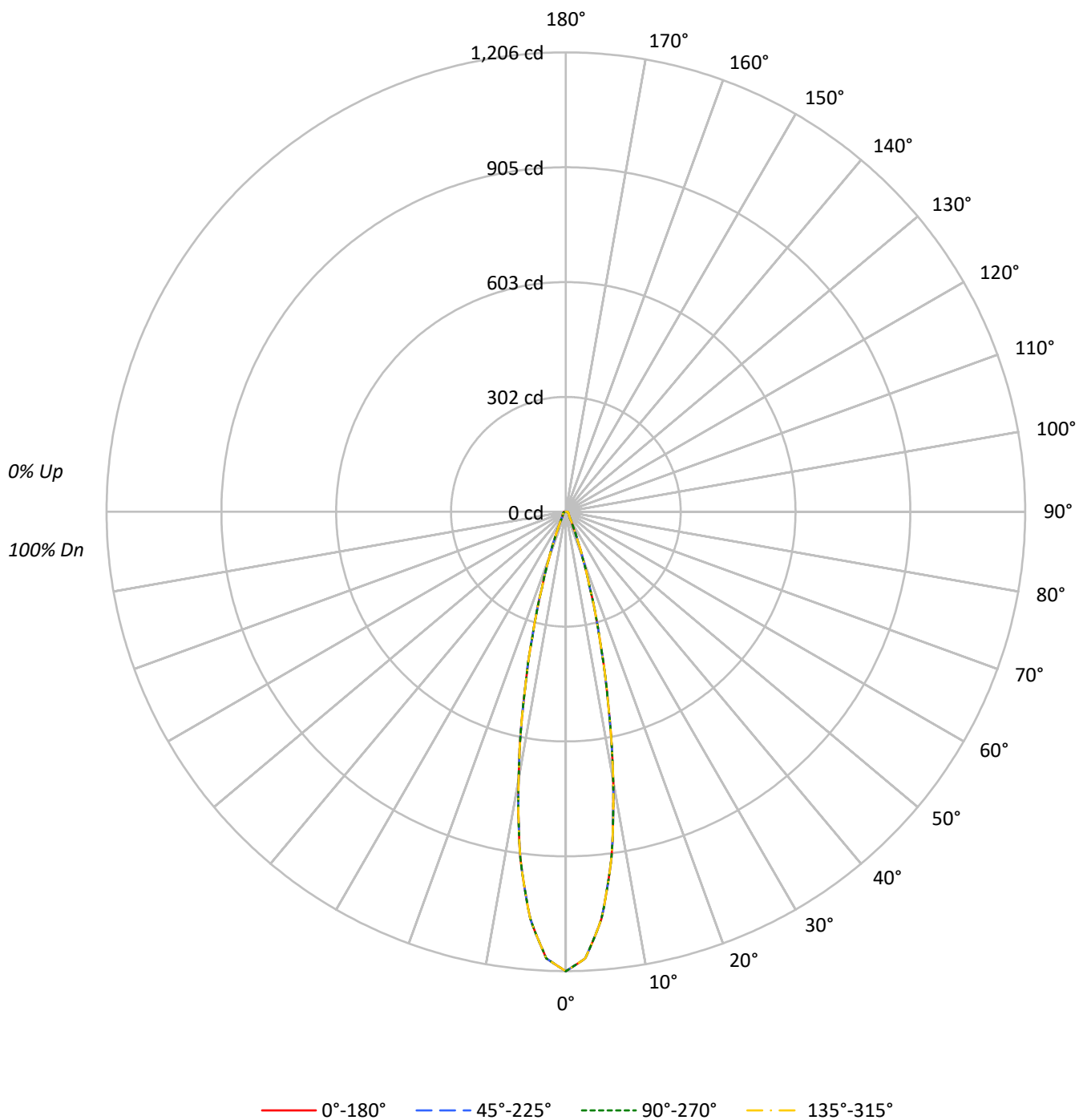
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 260.7 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.38
Luminous Opening: Circular (Dia: 0.06' x H: 0')
CIE Type: Direct

Input Watts (W): 2.1
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: 24 FT

TEST NUMBER: FO38778.PSO
CATALOG NUMBER: SEL55SF

Luminous Intensity Polar Plot



TEST NUMBER: FO38778.PSO
CATALOG NUMBER: SEL55SF

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	95	95	93
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	89	89	88
3	104	98	94	90	102	97	92	89	94	91	88	92	89	86	89	87	85	85	85	83
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	86	84	81	81	81	80
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	78	78	77
6	93	86	81	77	92	85	81	77	84	80	77	83	79	76	81	78	76	76	76	74
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	73	73	72
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	71	71	70
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	69	69	68
10	83	76	71	68	82	75	71	68	74	70	68	74	70	68	73	70	67	67	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4592712	4592712	4592712	4592712
5°	4101232	4101232	4101232	4101232
10°	2769376	2769376	2769376	2769376
15°	1337661	1337661	1337661	1337661
20°	516943	516943	516943	516943
25°	213386	213386	213386	213386
30°	114733	114733	114733	114733
35°	78542	78542	78542	78542
40°	65599	65599	65599	65599
45°	61914	61914	61914	61914
50°	60410	60410	60410	60410
55°	59071	59071	59071	59071
60°	58627	58627	58627	58627
65°	60354	60354	60354	60354
70°	66785	66785	66785	66785
75°	80899	80899	80899	80899
80°	111809	111809	111809	111809
85°	209664	209664	209664	209664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 87.5°
Luminance: 410200 cd/sqm

TEST NUMBER: FO38778.PSO
CATALOG NUMBER: SEL55SF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	34.9
10°-20°	96.6	37.1
20°-30°	26.6	10.2
30°-40°	11.1	4.3
40°-50°	8.9	3.4
50°-60°	8.0	3.1
60°-70°	6.7	2.6
70°-80°	5.8	2.2
80°-90°	5.3	2.0
90°-100°	0.6	0.2
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	214.3	82.2
0°-40°	225.4	86.5
0°-60°	242.3	92.9
0°-90°	260.1	99.8
90°-120°	0.6	0.2
90°-150°	0.6	0.2
90°-180°	1.0	0.4
0°-180°	260.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1206	1206	1206	1206	1206	
5°	1073	1073	1073	1073	1073	91
15°	339	339	339	339	339	97
25°	51	51	51	51	51	27
35°	17	17	17	17	17	11
45°	12	12	12	12	12	9
55°	9	9	9	9	9	8
65°	7	7	7	7	7	7
75°	6	6	6	6	6	6
85°	5	5	5	5	5	4
90°	5	5	5	5	5	2
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
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: FO38778.PSO
CATALOG NUMBER: SEL55SF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1206.4	1206.4	1206.4	1206.4	1206.4	1206.4	1206.4	1206.4	1206.4	1206.4	1206.4
2.5°	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3
5°	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2
7.5°	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2
10°	716.4	716.4	716.4	716.4	716.4	716.4	716.4	716.4	716.4	716.4	716.4
12.5°	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5
15°	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4
17.5°	210.2	210.2	210.2	210.2	210.2	210.2	210.2	210.2	210.2	210.2	210.2
20°	127.6	127.6	127.6	127.6	127.6	127.6	127.6	127.6	127.6	127.6	127.6
22.5°	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
25°	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
27.5°	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
30°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
32.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
35°	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
37.5°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
40°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
42.5°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
45°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
47.5°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
50°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
52.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
55°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
57.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
60°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
62.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
65°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
67.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
70°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
72.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
75°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
77.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
80°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
82.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
90°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: FO38778.PSO
CATALOG NUMBER: SEL55SF

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	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: FO38778.PSO
CATALOG NUMBER: SEL55SF

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1206.4	1206.4	1206.4	1206.4	1206.4	1206.4
2.5°	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3
5°	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2
7.5°	917.2	917.2	917.2	917.2	917.2	917.2
10°	716.4	716.4	716.4	716.4	716.4	716.4
12.5°	513.5	513.5	513.5	513.5	513.5	513.5
15°	339.4	339.4	339.4	339.4	339.4	339.4
17.5°	210.2	210.2	210.2	210.2	210.2	210.2
20°	127.6	127.6	127.6	127.6	127.6	127.6
22.5°	78.4	78.4	78.4	78.4	78.4	78.4
25°	50.8	50.8	50.8	50.8	50.8	50.8
27.5°	35.2	35.2	35.2	35.2	35.2	35.2
30°	26.1	26.1	26.1	26.1	26.1	26.1
32.5°	20.4	20.4	20.4	20.4	20.4	20.4
35°	16.9	16.9	16.9	16.9	16.9	16.9
37.5°	14.6	14.6	14.6	14.6	14.6	14.6
40°	13.2	13.2	13.2	13.2	13.2	13.2
42.5°	12.2	12.2	12.2	12.2	12.2	12.2
45°	11.5	11.5	11.5	11.5	11.5	11.5
47.5°	10.8	10.8	10.8	10.8	10.8	10.8
50°	10.2	10.2	10.2	10.2	10.2	10.2
52.5°	9.6	9.6	9.6	9.6	9.6	9.6
55°	8.9	8.9	8.9	8.9	8.9	8.9
57.5°	8.3	8.3	8.3	8.3	8.3	8.3
60°	7.7	7.7	7.7	7.7	7.7	7.7
62.5°	7.2	7.2	7.2	7.2	7.2	7.2
65°	6.7	6.7	6.7	6.7	6.7	6.7
67.5°	6.3	6.3	6.3	6.3	6.3	6.3
70°	6.0	6.0	6.0	6.0	6.0	6.0
72.5°	5.7	5.7	5.7	5.7	5.7	5.7
75°	5.5	5.5	5.5	5.5	5.5	5.5
77.5°	5.3	5.3	5.3	5.3	5.3	5.3
80°	5.1	5.1	5.1	5.1	5.1	5.1
82.5°	4.9	4.9	4.9	4.9	4.9	4.9
85°	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	4.7	4.7	4.7	4.7	4.7	4.7
90°	4.6	4.6	4.6	4.6	4.6	4.6
92.5°	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: FO38778.PSO
CATALOG NUMBER: SEL55SF

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0
130°	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
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)