

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:

Report Number: FO38780.PSO

Luminaire Tested: CLU3 COMPAC LED

Test Date: 11/28/17

Test Information

Test Method: LM-79-2019
Report Number: FO38780.PSO
Test Lab: PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY
Test Date: 11/28/17
Issue Date: 11/28/17
Manufacturer: PHILIPS DAY-BRITE
Product Line:
Catalog Number: CLU3 COMPAC LED
Description: CLU3 1-LGIT H35C4 LED SIDE LAMP ORIGINAL LED @350mA
Light Source: -
Ballast/Driver: -

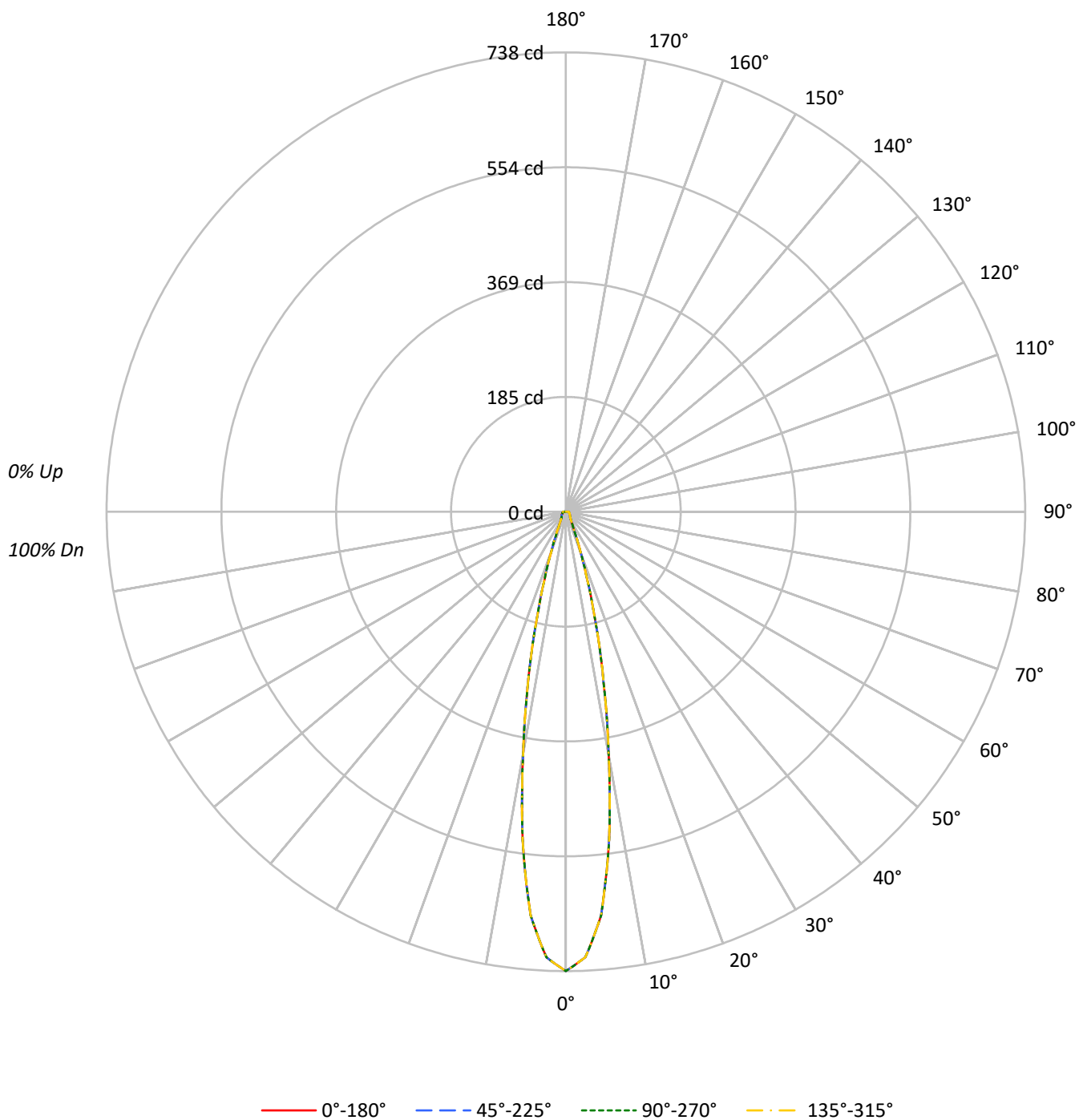
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 161.6 lumens
Efficiency: N/A
Efficacy: 161.6 lumens/watt
Spacing Criteria (0/90/45): 0.36 / 0.36 / 0.37
Luminous Opening: Circular (Dia: 0.06' x H: 0')
CIE Type: Direct

Input Watts (W): 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: FO38780.PSO
CATALOG NUMBER: CLU3 COMPAC LED

Luminous Intensity Polar Plot



TEST NUMBER: FO38780.PSO

CATALOG NUMBER: CLU3 COMPAC LED

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	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
1	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	93	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77
5	94	86	80	76	92	85	80	76	83	79	75	81	77	74	80	76	74
6	90	82	77	73	89	81	76	72	80	75	72	78	74	71	77	74	71
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	68
8	85	76	71	67	83	76	71	67	75	70	67	74	70	67	73	69	66
9	82	74	69	65	81	73	68	65	72	68	65	71	67	65	71	67	64
10	80	71	67	63	79	71	66	63	70	66	63	70	66	63	69	65	63

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2809153	2809153	2809153	2809153
5°	2487413	2487413	2487413	2487413
10°	1526945	1526945	1526945	1526945
15°	722825	722825	722825	722825
20°	275487	275487	275487	275487
25°	122235	122235	122235	122235
30°	76049	76049	76049	76049
35°	59022	59022	59022	59022
40°	52678	52678	52678	52678
45°	51685	51685	51685	51685
50°	51526	51526	51526	51526
55°	51770	51770	51770	51770
60°	53297	53297	53297	53297
65°	56751	56751	56751	56751
70°	63446	63446	63446	63446
75°	77957	77957	77957	77957
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: FO38780.PSO
CATALOG NUMBER: CLU3 COMPAC LED

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	33.2
10°-20°	52.5	32.5
20°-30°	15.1	9.3
30°-40°	8.2	5.1
40°-50°	7.4	4.6
50°-60°	7.0	4.3
60°-70°	6.3	3.9
70°-80°	5.7	3.5
80°-90°	5.3	3.3
90°-100°	0.6	0.4
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°	121.2	75.0
0°-40°	129.4	80.0
0°-60°	143.8	89.0
0°-90°	161.0	99.6
90°-120°	0.6	0.4
90°-150°	0.6	0.4
90°-180°	1.0	0.6
0°-180°	161.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	738	738	738	738	738	
5°	651	651	651	651	651	54
15°	183	183	183	183	183	52
25°	29	29	29	29	29	15
35°	13	13	13	13	13	8
45°	10	10	10	10	10	7
55°	8	8	8	8	8	7
65°	6	6	6	6	6	6
75°	5	5	5	5	5	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	



TEST NUMBER: FO38780.PSO

CATALOG NUMBER: CLU3 COMPAC LED

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	737.9	737.9	737.9	737.9	737.9	737.9	737.9	737.9	737.9	737.9	737.9
2.5°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6
5°	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9
7.5°	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1
10°	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0
12.5°	279.9	279.9	279.9	279.9	279.9	279.9	279.9	279.9	279.9	279.9	279.9
15°	183.4	183.4	183.4	183.4	183.4	183.4	183.4	183.4	183.4	183.4	183.4
17.5°	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0
20°	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
22.5°	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
25°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
27.5°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
30°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
32.5°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
35°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
37.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
40°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
42.5°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
45°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
47.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
50°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
52.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
55°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
57.5°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
60°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
62.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
65°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
67.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
70°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
72.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
75°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
77.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
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°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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: FO38780.PSO

CATALOG NUMBER: CLU3 COMPAC LED

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: FO38780.PSO

CATALOG NUMBER: CLU3 COMPAC LED

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	737.9	737.9	737.9	737.9	737.9	737.9
2.5°	716.6	716.6	716.6	716.6	716.6	716.6
5°	650.9	650.9	650.9	650.9	650.9	650.9
7.5°	532.1	532.1	532.1	532.1	532.1	532.1
10°	395.0	395.0	395.0	395.0	395.0	395.0
12.5°	279.9	279.9	279.9	279.9	279.9	279.9
15°	183.4	183.4	183.4	183.4	183.4	183.4
17.5°	113.0	113.0	113.0	113.0	113.0	113.0
20°	68.0	68.0	68.0	68.0	68.0	68.0
22.5°	42.6	42.6	42.6	42.6	42.6	42.6
25°	29.1	29.1	29.1	29.1	29.1	29.1
27.5°	21.7	21.7	21.7	21.7	21.7	21.7
30°	17.3	17.3	17.3	17.3	17.3	17.3
32.5°	14.5	14.5	14.5	14.5	14.5	14.5
35°	12.7	12.7	12.7	12.7	12.7	12.7
37.5°	11.4	11.4	11.4	11.4	11.4	11.4
40°	10.6	10.6	10.6	10.6	10.6	10.6
42.5°	10.0	10.0	10.0	10.0	10.0	10.0
45°	9.6	9.6	9.6	9.6	9.6	9.6
47.5°	9.1	9.1	9.1	9.1	9.1	9.1
50°	8.7	8.7	8.7	8.7	8.7	8.7
52.5°	8.3	8.3	8.3	8.3	8.3	8.3
55°	7.8	7.8	7.8	7.8	7.8	7.8
57.5°	7.4	7.4	7.4	7.4	7.4	7.4
60°	7.0	7.0	7.0	7.0	7.0	7.0
62.5°	6.6	6.6	6.6	6.6	6.6	6.6
65°	6.3	6.3	6.3	6.3	6.3	6.3
67.5°	6.0	6.0	6.0	6.0	6.0	6.0
70°	5.7	5.7	5.7	5.7	5.7	5.7
72.5°	5.5	5.5	5.5	5.5	5.5	5.5
75°	5.3	5.3	5.3	5.3	5.3	5.3
77.5°	5.2	5.2	5.2	5.2	5.2	5.2
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°	4.7	4.7	4.7	4.7	4.7	4.7
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: FO38780.PSO
CATALOG NUMBER: CLU3 COMPAC LED

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)