

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P588417

Luminaire Tested: **ARC-CA6-120-760-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC-CA6-120-760-U-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11064 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U3 - G3

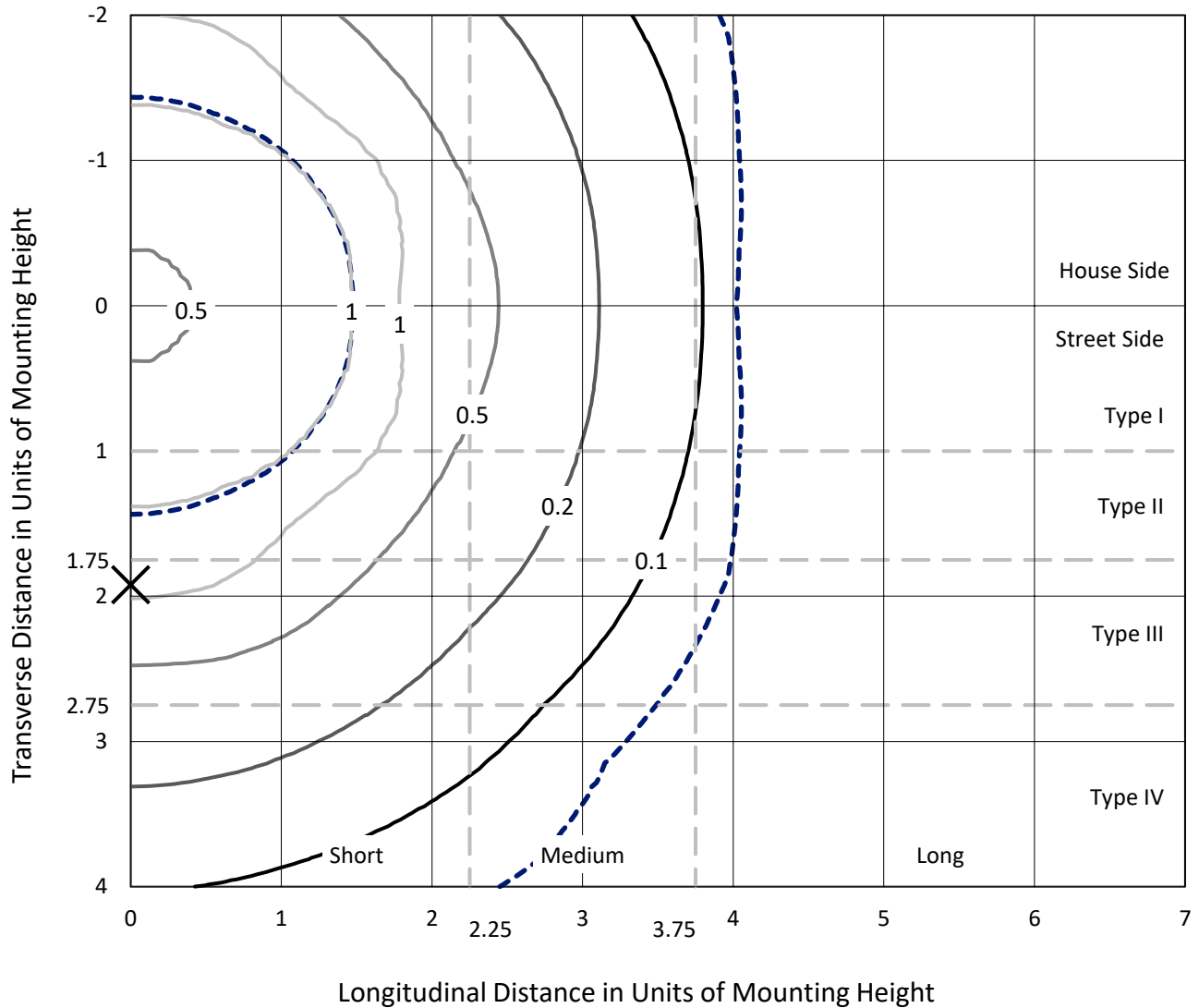
Input Watts (W): 119.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P588417
 CATALOG NUMBER: ARC-CA6-120-760-U-55-6-5-X

Iso-Footcandle Lines of Horizontal Illumination

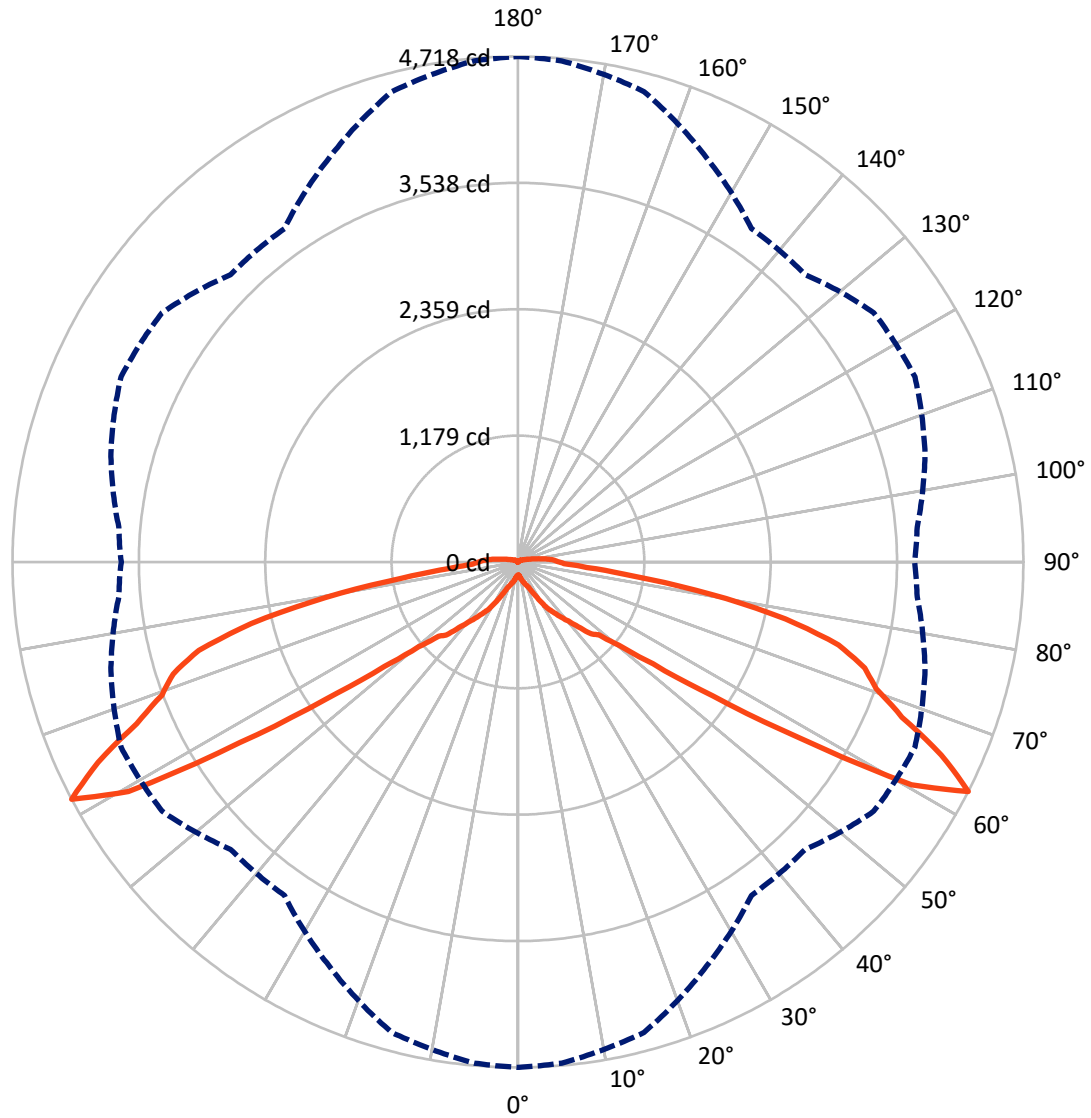
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P588417
CATALOG NUMBER: ARC-CA6-120-760-U-55-6-5-X

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P588417
 CATALOG NUMBER: ARC-CA6-120-760-U-55-6-5-X

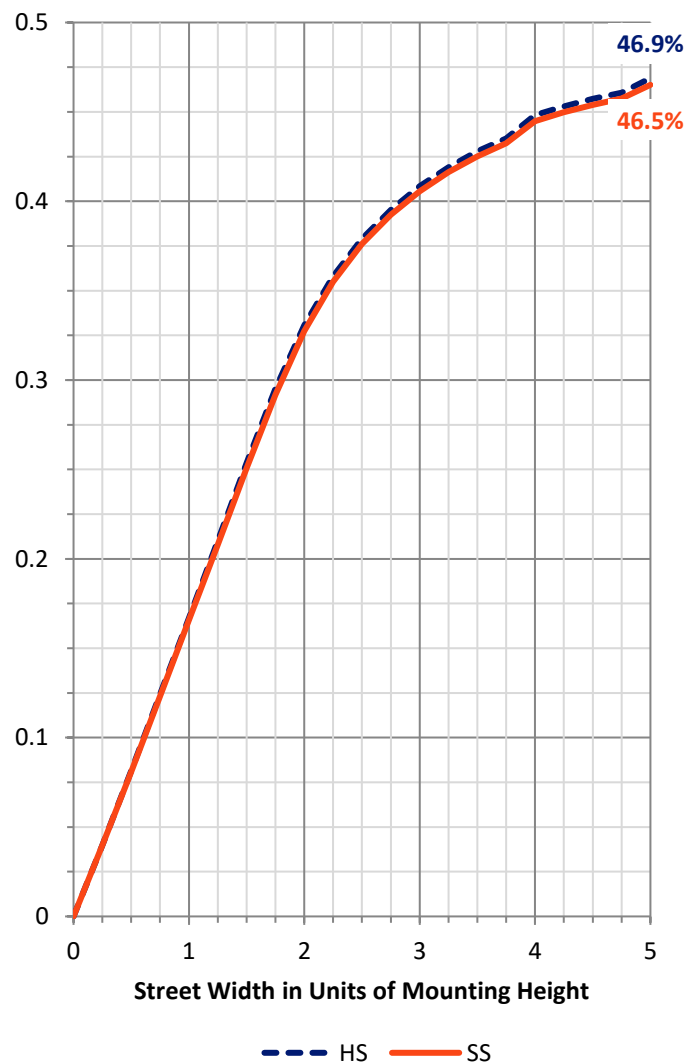
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5319.4	212.6	5532.0
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	5319.4	212.6	5532.0
	% Fixture	48.1	1.9	50.0
Total	Lumens	10638.8	425.2	11064.0
	% Fixture	96.2	3.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	0.1
10°-20°	55.7	0.5
20°-30°	147.1	1.3
30°-40°	334.7	3.0
40°-50°	676.9	6.1
50°-60°	2003.8	18.1
60°-70°	3764.5	34.0
70°-80°	2798.2	25.3
80°-90°	844.7	7.6
90°-100°	274.1	2.5
100°-110°	96.0	0.9
110°-120°	37.2	0.3
120°-130°	14.7	0.1
130°-140°	3.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-90°	10638.8	96.2
0°-180°	11064.0	100.0



REPORT NUMBER: P588417

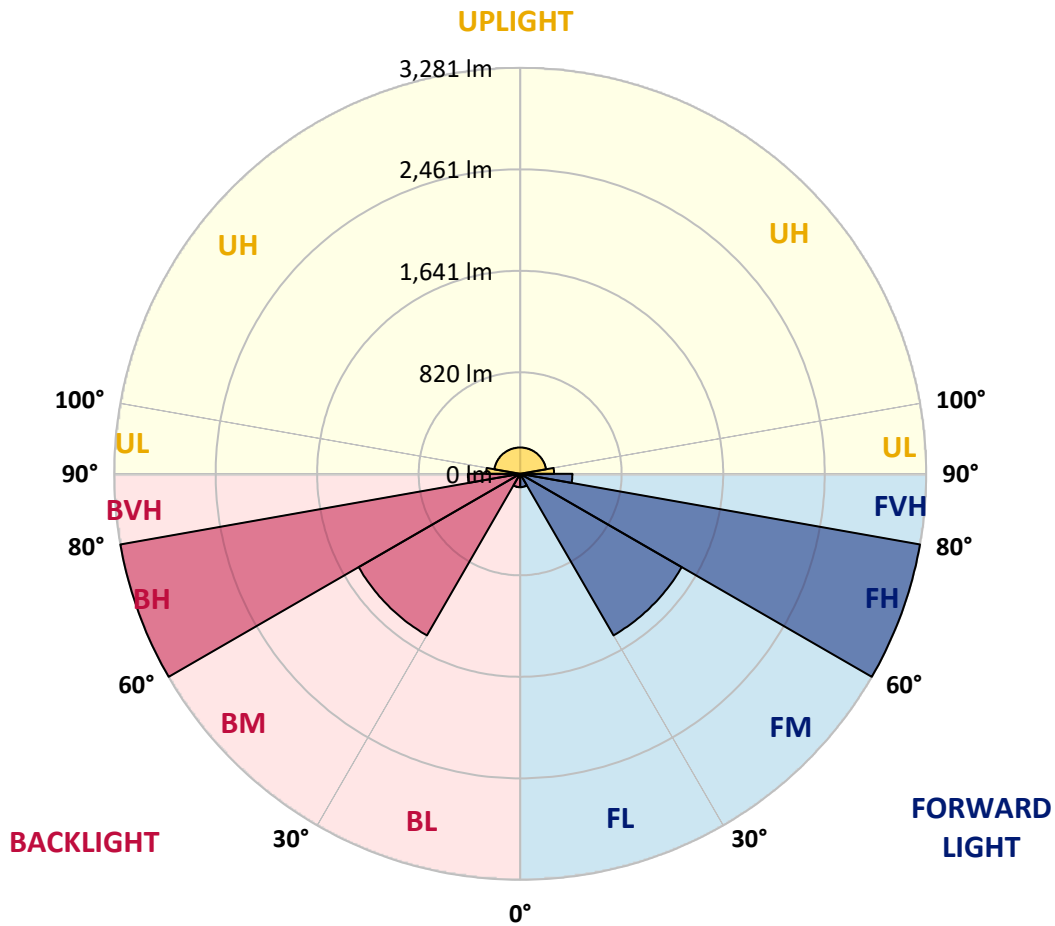
CATALOG NUMBER: ARC-CA6-120-760-U-55-6-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	108.0	1.0			
FM (30°-60°)	1507.7	13.6			
FH (60°-80°)	3281.4	29.7			G2/5000
FVH (80°-90°)	422.4	3.8			G3/500
BL (0°-30°)	108.0	1.0	B0/110		
BM (30°-60°)	1507.7	13.6	B2/2500		
BH (60°-80°)	3281.4	29.7	B4/5000		G2/5000
BVH (80°-90°)	422.4	3.8			G3/500
UL (90°-100°)	274.1	2.5		U3/500	
UH (100°-180°)	212.6	1.9		U3/500	

BUG Rating: B4-U3-G3

Type V Short





REPORT NUMBER: P588417

CATALOG NUMBER: ARC-CA6-120-760-U-55-6-5-X

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	121.7	121.7	121.7	121.7	121.7	121.7	121.7	121.7	121.7	121.7	121.7
2.5°	123.8	123.8	123.8	121.7	119.6	119.6	119.6	119.6	117.5	117.5	117.5
5°	130.1	130.1	128.0	125.9	125.9	123.8	125.9	123.8	123.8	123.8	125.9
7.5°	144.7	144.7	142.6	142.6	142.6	140.6	140.6	140.6	140.6	138.5	140.6
10°	161.5	161.5	161.5	161.5	161.5	159.4	159.4	157.3	157.3	157.3	157.3
12.5°	180.4	178.3	178.3	180.4	178.3	176.2	176.2	176.2	174.1	174.1	174.1
15°	197.2	197.2	195.1	195.1	195.1	193.0	193.0	190.9	190.9	188.8	188.8
17.5°	214.0	214.0	211.9	209.8	209.8	209.8	207.7	207.7	205.6	205.6	205.6
20°	235.0	232.9	230.8	228.7	226.6	226.6	226.6	226.6	224.5	222.4	222.4
22.5°	258.0	255.9	253.8	251.7	251.7	249.6	249.6	247.5	247.5	245.4	243.3
25°	306.3	306.3	297.9	295.8	295.8	297.9	295.8	293.7	289.5	283.2	283.2
27.5°	371.3	373.4	375.5	386.0	383.9	369.2	360.8	356.6	354.5	354.5	356.6
30°	444.7	446.8	453.1	463.6	457.3	438.4	417.5	409.1	415.4	423.8	425.9
32.5°	522.3	522.3	509.8	495.1	480.4	467.8	461.5	457.3	455.2	448.9	448.9
35°	583.2	572.7	532.8	484.6	469.9	478.3	503.5	511.9	480.4	451.0	446.8
37.5°	652.4	650.3	618.8	583.2	555.9	551.7	579.0	587.4	553.8	534.9	532.8
40°	725.8	730.0	736.3	721.6	679.7	667.1	652.4	641.9	641.9	644.0	639.8
42.5°	824.4	830.7	830.7	832.8	799.3	769.9	740.5	723.7	721.6	738.4	744.7
45°	956.6	956.6	941.9	912.5	897.9	876.9	858.0	841.2	832.8	834.9	841.2
47.5°	1015.3	1019.5	1006.9	965.0	954.5	933.5	906.2	899.9	904.1	910.4	912.5
50°	1220.9	1210.4	1124.4	1036.3	1004.8	1025.8	1065.7	1076.2	1036.3	996.4	986.0
52.5°	1581.7	1579.6	1512.5	1447.5	1403.4	1390.8	1445.4	1449.6	1380.3	1351.0	1346.8
55°	2206.9	2183.8	2234.1	2265.6	2173.3	2070.5	2032.8	1980.3	1984.5	2043.2	2045.3
57.5°	3094.2	3106.8	3163.5	3081.6	2941.1	2865.6	2813.1	2714.5	2716.6	2769.1	2773.3
60°	4220.7	4218.6	4038.2	3723.6	3507.5	3522.2	3666.9	3687.9	3463.4	3318.7	3301.9
62.5°	4717.9	4694.8	4545.9	4164.1	3799.1	3792.8	4055.0	4088.6	3933.3	3740.3	3702.6
65°	4342.4	4323.5	4386.5	4256.4	3776.0	3652.2	3732.0	3723.6	3822.2	3910.3	3920.8
67.5°	3866.2	3870.4	4021.5	3981.6	3648.0	3438.3	3337.6	3325.0	3509.6	3715.2	3742.4
70°	3547.4	3547.4	3654.3	3492.8	3333.4	3197.0	3092.1	3027.1	3146.7	3180.2	3178.1
72.5°	3383.7	3369.0	3293.5	3138.3	3016.6	2897.0	2928.5	2880.3	2823.6	2735.5	2727.1
75°	3092.1	3075.4	2970.5	2897.0	2808.9	2660.0	2687.3	2639.0	2544.6	2464.9	2452.3
77.5°	2555.1	2555.1	2488.0	2433.4	2408.3	2280.3	2267.7	2244.6	2150.2	2106.2	2089.4
80°	1829.3	1825.1	1797.8	1778.9	1810.4	1734.9	1701.3	1701.3	1663.5	1623.7	1604.8
82.5°	1088.7	1074.1	1074.1	1080.4	1061.5	1013.2	1021.6	1069.9	1065.7	1042.6	1025.8
85°	644.0	635.6	629.3	620.9	604.2	570.6	570.6	574.8	579.0	581.1	572.7
87.5°	430.0	427.9	427.9	427.9	409.1	386.0	396.5	402.8	398.6	396.5	394.4
90°	375.5	377.6	375.5	367.1	350.3	329.4	333.5	341.9	337.7	337.7	335.6
92.5°	337.7	337.7	333.5	325.2	308.4	289.5	291.6	295.8	293.7	291.6	289.5
95°	276.9	276.9	272.7	266.4	251.7	235.0	237.0	241.2	237.0	237.0	235.0
97.5°	216.1	216.1	214.0	209.8	197.2	184.6	186.7	188.8	186.7	186.7	184.6
100°	163.6	163.6	161.5	155.2	148.9	138.5	140.6	144.7	142.6	142.6	140.6
102.5°	121.7	121.7	119.6	117.5	109.1	102.8	104.9	104.9	104.9	102.8	102.8
105°	94.4	94.4	94.4	90.2	86.0	79.7	79.7	79.7	79.7	77.6	77.6
107.5°	75.5	73.4	73.4	71.3	67.1	62.9	62.9	62.9	62.9	62.9	62.9
110°	60.8	58.7	56.6	56.6	52.4	50.3	48.2	50.3	50.3	50.3	50.3



REPORT NUMBER: P588417

CATALOG NUMBER: ARC-CA6-120-760-U-55-6-5-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	52.4	50.3	46.2	46.2	44.1	39.9	39.9	39.9	44.1	42.0	42.0
115°	46.2	44.1	37.8	37.8	35.7	33.6	33.6	33.6	37.8	33.6	33.6
117.5°	39.9	37.8	31.5	31.5	29.4	27.3	27.3	27.3	31.5	27.3	27.3
120°	29.4	29.4	25.2	25.2	25.2	23.1	23.1	23.1	25.2	23.1	23.1
122.5°	23.1	23.1	21.0	21.0	21.0	18.9	18.9	18.9	18.9	16.8	16.8
125°	23.1	27.3	16.8	16.8	14.7	14.7	14.7	12.6	14.7	12.6	12.6
127.5°	25.2	23.1	12.6	12.6	12.6	10.5	10.5	10.5	10.5	10.5	10.5
130°	8.4	12.6	8.4	8.4	8.4	8.4	8.4	8.4	6.3	6.3	6.3
132.5°	6.3	6.3	6.3	6.3	6.3	6.3	4.2	4.2	4.2	4.2	4.2
135°	4.2	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	2.1
137.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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	2.1	2.1	2.1	2.1	2.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1
170°	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1
172.5°	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
175°	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1
177.5°	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
180°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)