

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: P588389

Luminaire Tested: **ARC-CA6-110-750-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588389
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-CA6-110-750-U-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10431 lumens
Efficiency: N/A
Efficacy: 93.0 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

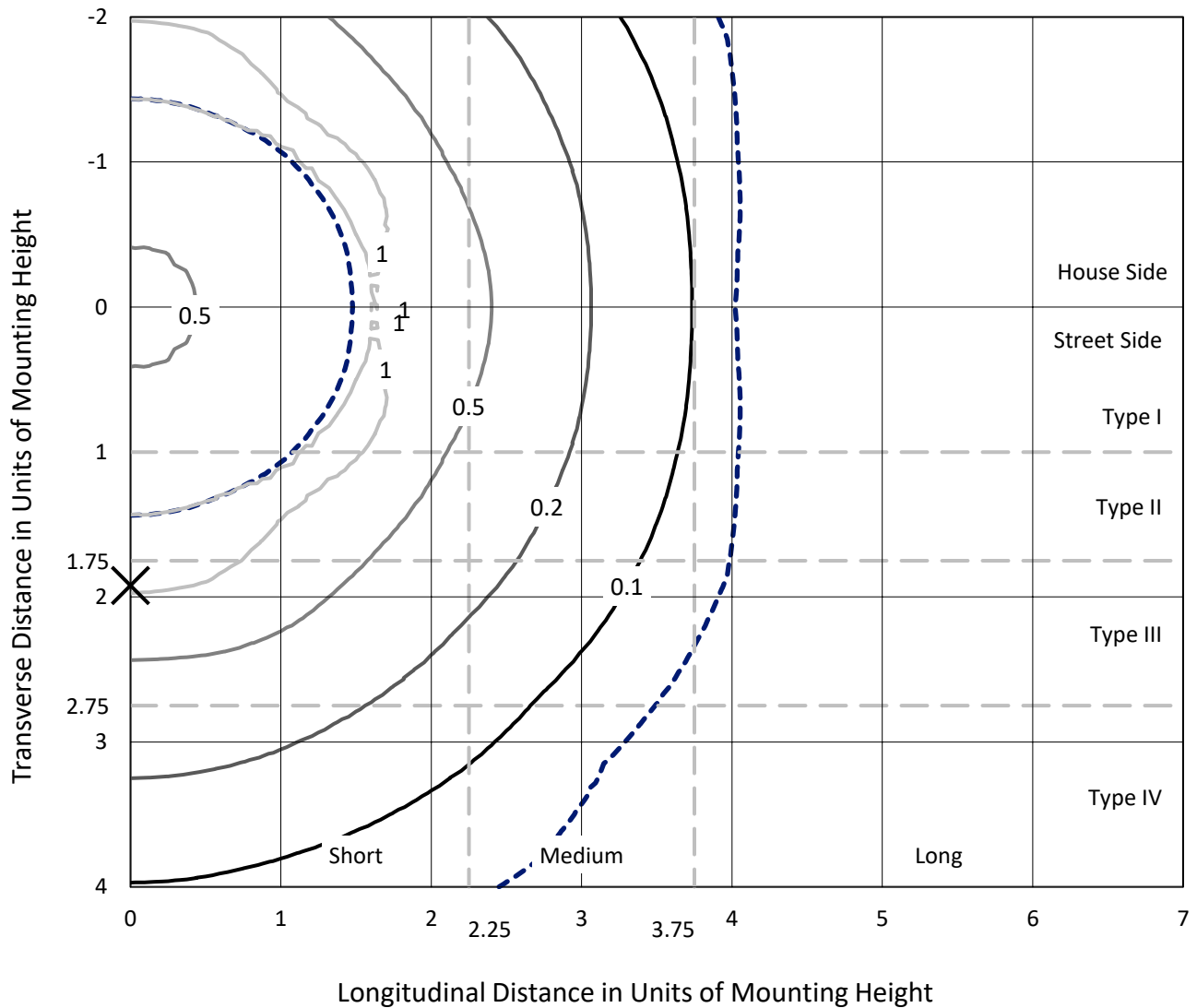
Input Watts (W): 112.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P588389
 CATALOG NUMBER: ARC-CA6-110-750-U-55-6-5-X

Iso-Footcandle Lines of Horizontal Illumination

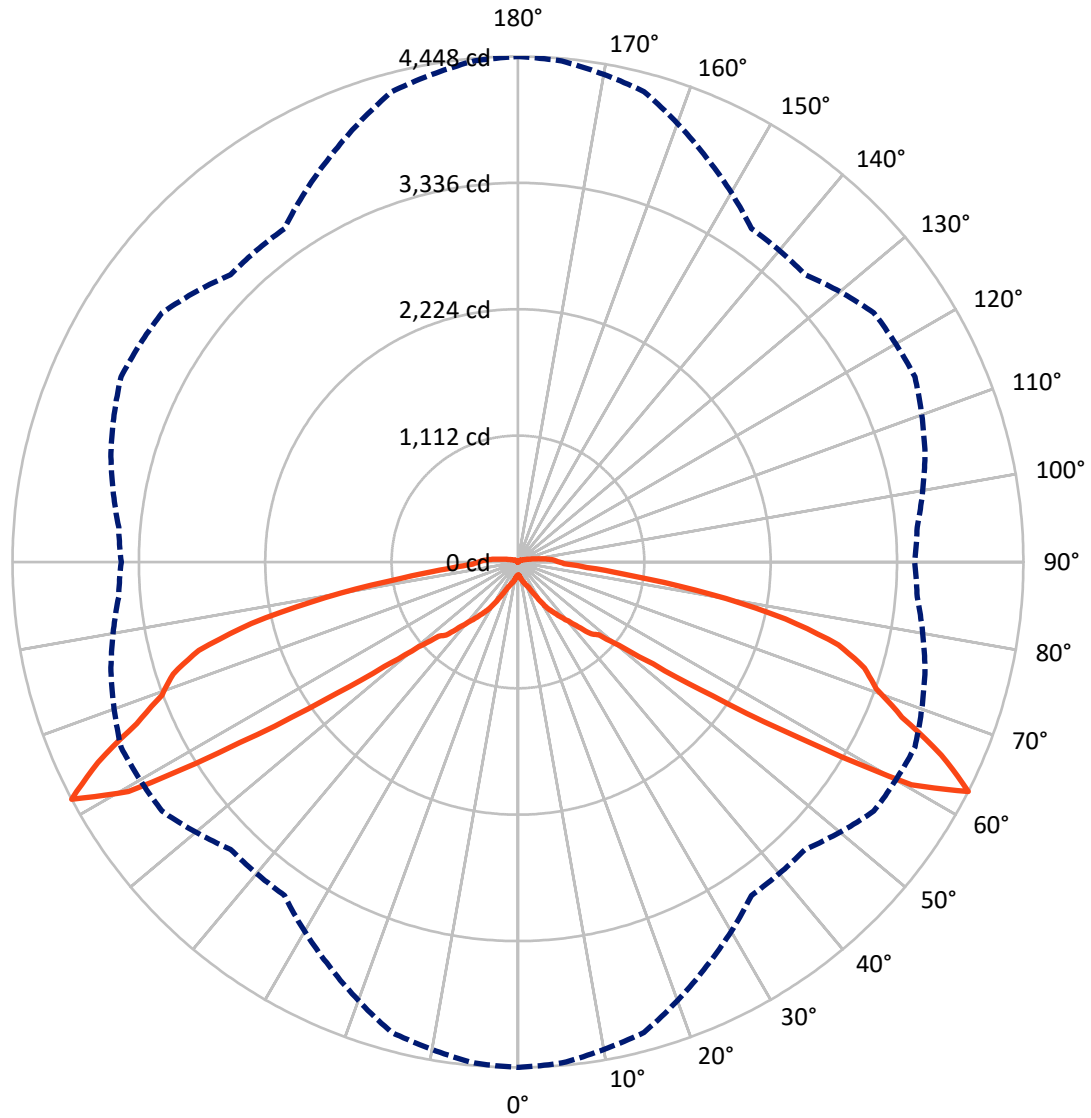
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P588389
CATALOG NUMBER: ARC-CA6-110-750-U-55-6-5-X

Luminous Intensity Polar Plot



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

REPORT NUMBER: P588389
 CATALOG NUMBER: ARC-CA6-110-750-U-55-6-5-X

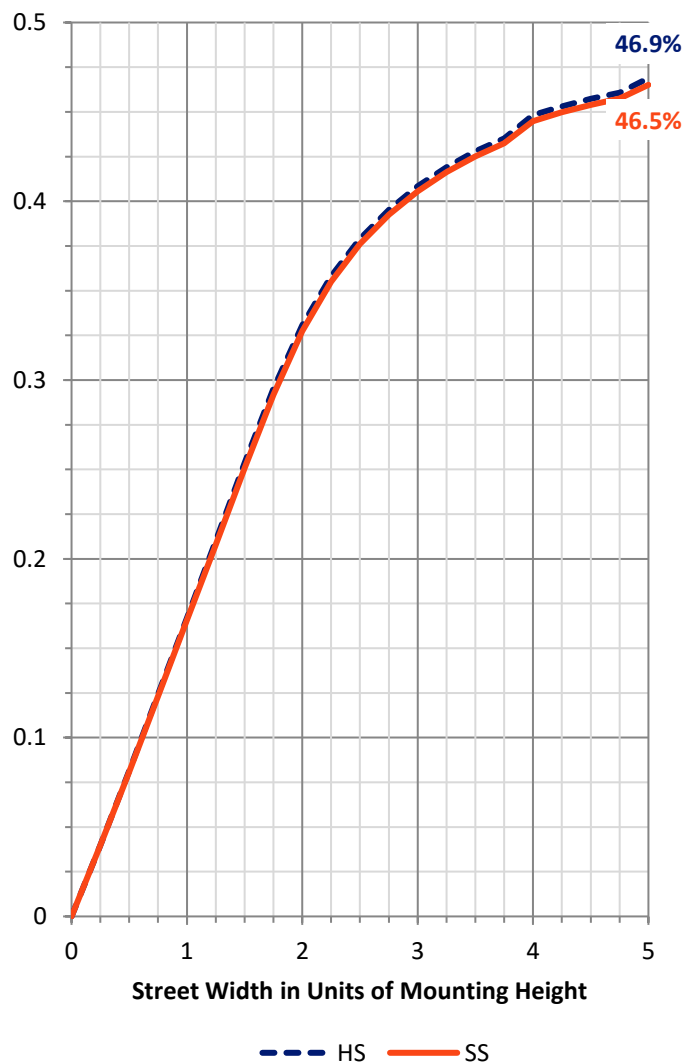
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5015.1	200.4	5215.5
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	5015.1	200.4	5215.5
	% Fixture	48.1	1.9	50.0
Total	Lumens	10030.1	400.9	10431.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	0.1
10°-20°	52.5	0.5
20°-30°	138.7	1.3
30°-40°	315.5	3.0
40°-50°	638.2	6.1
50°-60°	1889.2	18.1
60°-70°	3549.1	34.0
70°-80°	2638.1	25.3
80°-90°	796.4	7.6
90°-100°	258.4	2.5
100°-110°	90.5	0.9
110°-120°	35.0	0.3
120°-130°	13.9	0.1
130°-140°	2.8	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	10030.1	96.2
0°-180°	10431.0	100.0

Coefficient of Utilization



REPORT NUMBER: P588389

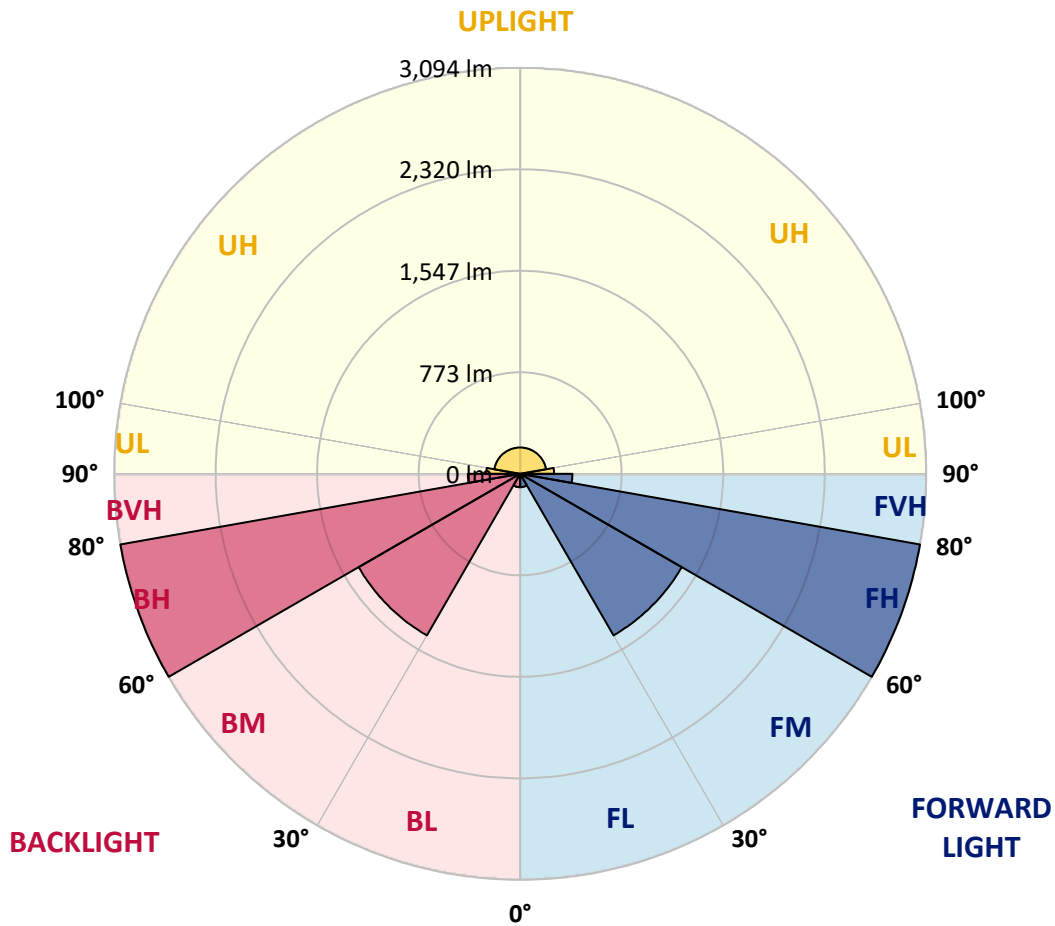
CATALOG NUMBER: ARC-CA6-110-750-U-55-6-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	101.8	1.0			
FM (30°-60°)	1421.4	13.6			
FH (60°-80°)	3093.6	29.7			G2/5000
FVH (80°-90°)	398.2	3.8			G3/500
BL (0°-30°)	101.8	1.0	B0/110		
BM (30°-60°)	1421.4	13.6	B2/2500		
BH (60°-80°)	3093.6	29.7	B4/5000		G2/5000
BVH (80°-90°)	398.2	3.8			G3/500
UL (90°-100°)	258.4	2.5		U3/500	
UH (100°-180°)	200.4	1.9		U3/500	

BUG Rating: B4-U3-G3

Type V Short





REPORT NUMBER: P588389

CATALOG NUMBER: ARC-CA6-110-750-U-55-6-5-X

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7
2.5°	116.7	116.7	116.7	114.7	112.7	112.7	112.7	112.7	110.8	110.8	110.8
5°	122.6	122.6	120.6	118.7	118.7	116.7	118.7	116.7	116.7	116.7	118.7
7.5°	136.5	136.5	134.5	134.5	134.5	132.5	132.5	132.5	132.5	130.5	132.5
10°	152.3	152.3	152.3	152.3	152.3	150.3	150.3	148.3	148.3	148.3	148.3
12.5°	170.1	168.1	168.1	170.1	168.1	166.1	166.1	166.1	164.2	164.2	164.2
15°	185.9	185.9	183.9	183.9	183.9	182.0	182.0	180.0	180.0	178.0	178.0
17.5°	201.7	201.7	199.8	197.8	197.8	197.8	195.8	195.8	193.8	193.8	193.8
20°	221.5	219.5	217.6	215.6	213.6	213.6	213.6	213.6	211.6	209.6	209.6
22.5°	243.3	241.3	239.3	237.3	237.3	235.4	235.4	233.4	233.4	231.4	229.4
25°	288.8	288.8	280.8	278.9	278.9	280.8	278.9	276.9	272.9	267.0	267.0
27.5°	350.1	352.0	354.0	363.9	361.9	348.1	340.2	336.2	334.2	334.2	336.2
30°	419.3	421.3	427.2	437.1	431.2	413.4	393.6	385.7	391.6	399.5	401.5
32.5°	492.5	492.5	480.6	466.8	452.9	441.0	435.1	431.2	429.2	423.2	423.2
35°	549.8	539.9	502.4	456.9	443.0	450.9	474.7	482.6	452.9	425.2	421.3
37.5°	615.1	613.1	583.4	549.8	524.1	520.2	545.9	553.8	522.1	504.3	502.4
40°	684.3	688.3	694.2	680.4	640.8	628.9	615.1	605.2	605.2	607.2	603.2
42.5°	777.3	783.2	783.2	785.2	753.5	725.8	698.2	682.3	680.4	696.2	702.1
45°	901.9	901.9	888.0	860.3	846.5	826.7	808.9	793.1	785.2	787.1	793.1
47.5°	957.2	961.2	949.3	909.8	899.9	880.1	854.4	848.5	852.4	858.3	860.3
50°	1151.1	1141.2	1060.1	977.0	947.3	967.1	1004.7	1014.6	977.0	939.4	929.5
52.5°	1491.2	1489.3	1426.0	1364.7	1323.1	1311.3	1362.7	1366.6	1301.4	1273.7	1269.7
55°	2080.6	2058.9	2106.3	2136.0	2049.0	1952.1	1916.5	1867.0	1871.0	1926.3	1928.3
57.5°	2917.2	2929.1	2982.5	2905.3	2772.8	2701.6	2652.2	2559.2	2561.2	2610.6	2614.6
60°	3979.3	3977.3	3807.2	3510.5	3306.8	3320.7	3457.1	3476.9	3265.3	3128.8	3113.0
62.5°	4448.0	4426.2	4285.8	3925.9	3581.7	3575.8	3823.0	3854.7	3708.3	3526.4	3490.8
65°	4094.0	4076.2	4135.5	4012.9	3560.0	3443.3	3518.4	3510.5	3603.5	3686.6	3696.4
67.5°	3645.0	3649.0	3791.4	3753.8	3439.3	3241.6	3146.6	3134.8	3308.8	3502.6	3528.3
70°	3344.4	3344.4	3445.3	3293.0	3142.7	3014.1	2915.2	2853.9	2966.6	2998.3	2996.3
72.5°	3190.1	3176.3	3105.1	2958.7	2844.0	2731.3	2761.0	2715.5	2662.1	2579.0	2571.1
75°	2915.2	2899.4	2800.5	2731.3	2648.2	2507.8	2533.5	2488.0	2399.0	2323.9	2312.0
77.5°	2408.9	2408.9	2345.6	2294.2	2270.5	2149.8	2138.0	2116.2	2027.2	1985.7	1969.9
80°	1724.6	1720.7	1694.9	1677.1	1706.8	1635.6	1604.0	1604.0	1568.4	1530.8	1513.0
82.5°	1026.5	1012.6	1012.6	1018.5	1000.7	955.3	963.2	1008.7	1004.7	982.9	967.1
85°	607.2	599.3	593.3	585.4	569.6	538.0	538.0	541.9	545.9	547.8	539.9
87.5°	405.4	403.5	403.5	403.5	385.7	363.9	373.8	379.7	375.8	373.8	371.8
90°	354.0	356.0	354.0	346.1	330.3	310.5	314.5	322.4	318.4	318.4	316.4
92.5°	318.4	318.4	314.5	306.6	290.7	272.9	274.9	278.9	276.9	274.9	272.9
95°	261.1	261.1	257.1	251.2	237.3	221.5	223.5	227.4	223.5	223.5	221.5
97.5°	203.7	203.7	201.7	197.8	185.9	174.0	176.0	178.0	176.0	176.0	174.0
100°	154.3	154.3	152.3	146.4	140.4	130.5	132.5	136.5	134.5	134.5	132.5
102.5°	114.7	114.7	112.7	110.8	102.8	96.9	98.9	98.9	98.9	96.9	96.9
105°	89.0	89.0	89.0	85.0	81.1	75.2	75.2	75.2	75.2	73.2	73.2
107.5°	71.2	69.2	69.2	67.2	63.3	59.3	59.3	59.3	59.3	59.3	59.3
110°	57.4	55.4	53.4	53.4	49.4	47.5	45.5	47.5	47.5	47.5	47.5



REPORT NUMBER: P588389

CATALOG NUMBER: ARC-CA6-110-750-U-55-6-5-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	49.4	47.5	43.5	43.5	41.5	37.6	37.6	37.6	41.5	39.6	39.6
115°	43.5	41.5	35.6	35.6	33.6	31.6	31.6	31.6	35.6	31.6	31.6
117.5°	37.6	35.6	29.7	29.7	27.7	25.7	25.7	25.7	29.7	25.7	25.7
120°	27.7	27.7	23.7	23.7	23.7	21.8	21.8	21.8	23.7	21.8	21.8
122.5°	21.8	21.8	19.8	19.8	19.8	17.8	17.8	17.8	17.8	15.8	15.8
125°	21.8	25.7	15.8	15.8	13.8	13.8	13.8	11.9	13.8	11.9	11.9
127.5°	23.7	21.8	11.9	11.9	11.9	9.9	9.9	9.9	9.9	9.9	9.9
130°	7.9	11.9	7.9	7.9	7.9	7.9	7.9	7.9	5.9	5.9	5.9
132.5°	5.9	5.9	5.9	5.9	5.9	5.9	4.0	4.0	4.0	4.0	4.0
135°	4.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0
137.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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	2.0	2.0	2.0	2.0	2.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0
170°	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
172.5°	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
175°	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
177.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

(END OF REPORT)