

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: P588381

Luminaire Tested: **ARC-CA6-110-730-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588381
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-CA6-110-730-U-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10008 lumens
Efficiency: N/A
Efficacy: 89.2 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

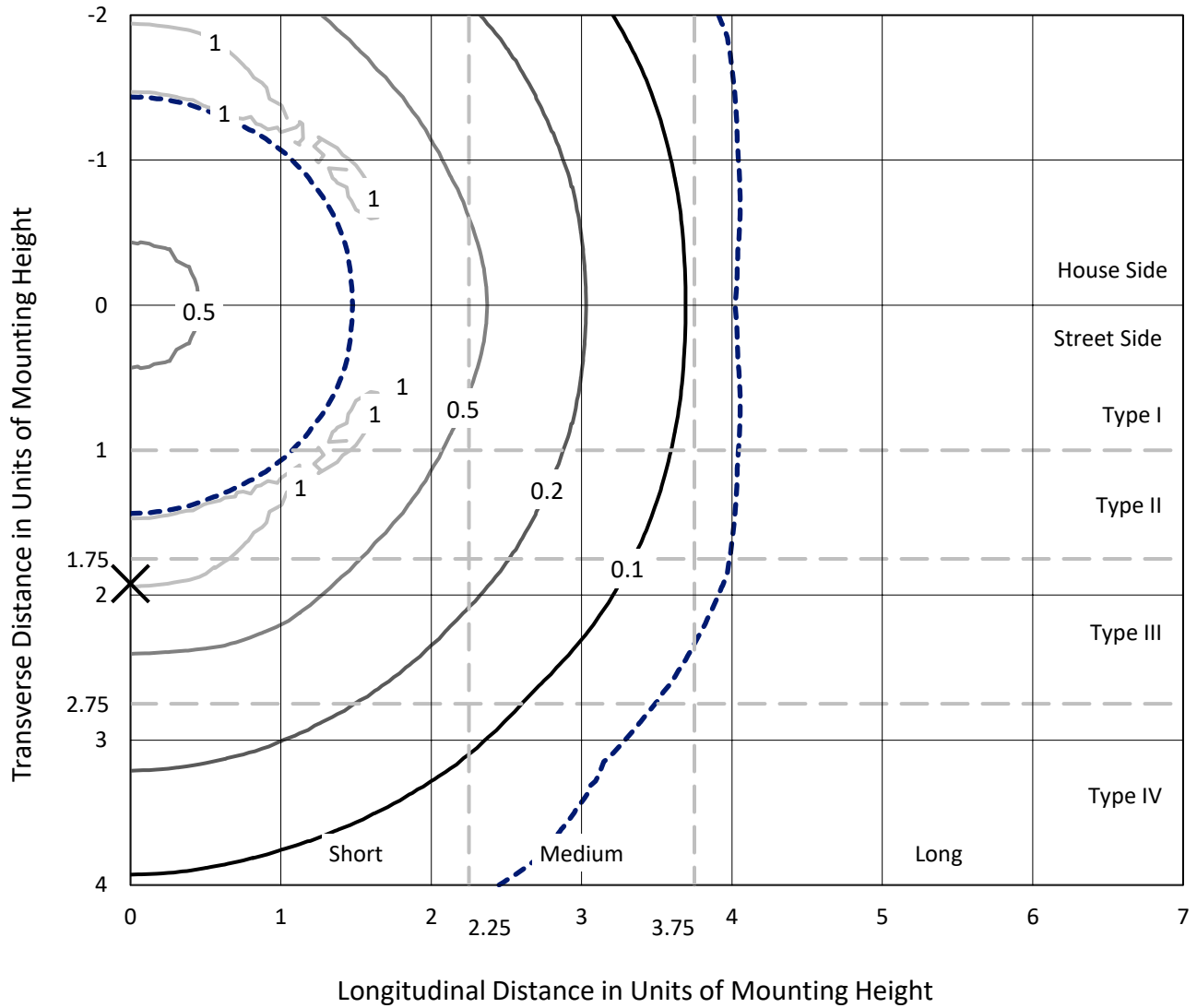
Input Watts (W): 112.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

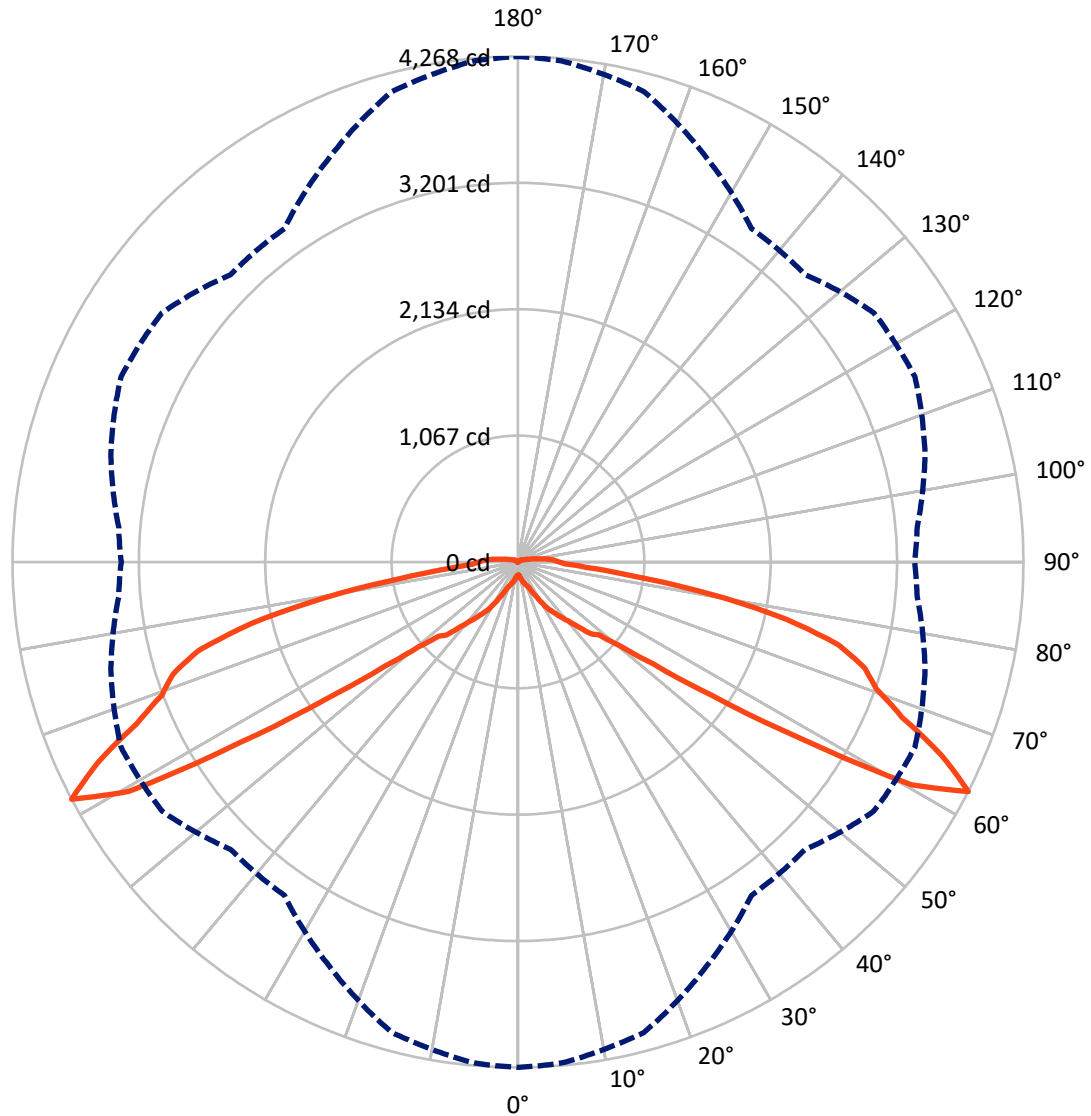
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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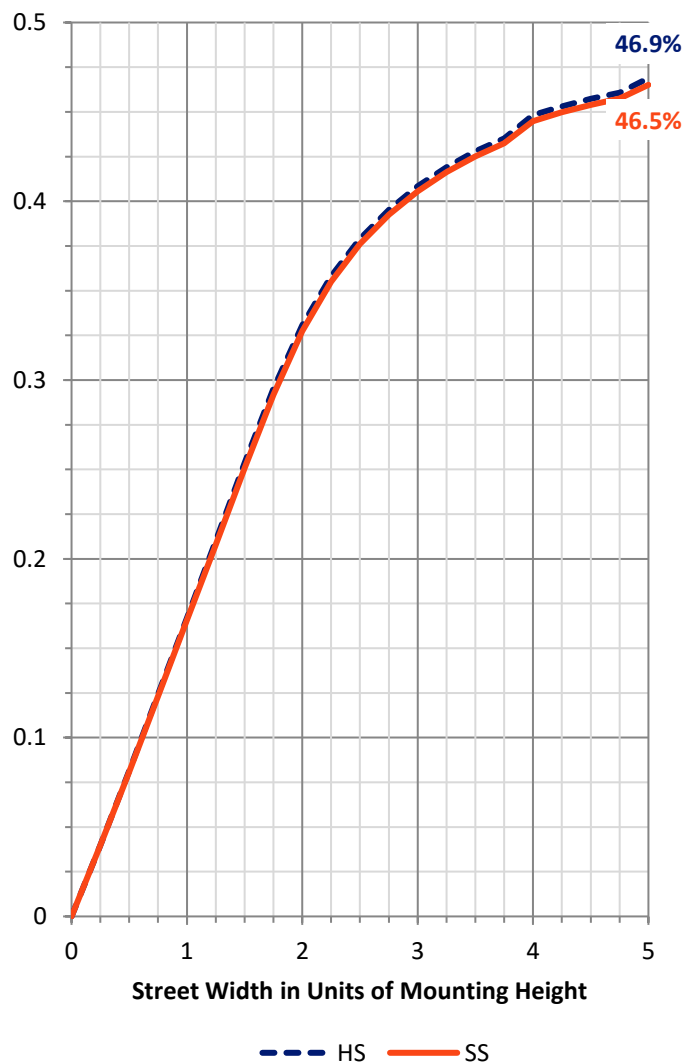
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4811.7	192.3	5004.0
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	4811.7	192.3	5004.0
	% Fixture	48.1	1.9	50.0
Total	Lumens	9623.4	384.7	10008.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.9	0.1
10°-20°	50.4	0.5
20°-30°	133.1	1.3
30°-40°	302.7	3.0
40°-50°	612.3	6.1
50°-60°	1812.5	18.1
60°-70°	3405.2	34.0
70°-80°	2531.1	25.3
80°-90°	764.1	7.6
90°-100°	247.9	2.5
100°-110°	86.9	0.9
110°-120°	33.6	0.3
120°-130°	13.3	0.1
130°-140°	2.7	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°	9623.4	96.2
0°-180°	10008.0	100.0

Coefficient of Utilization



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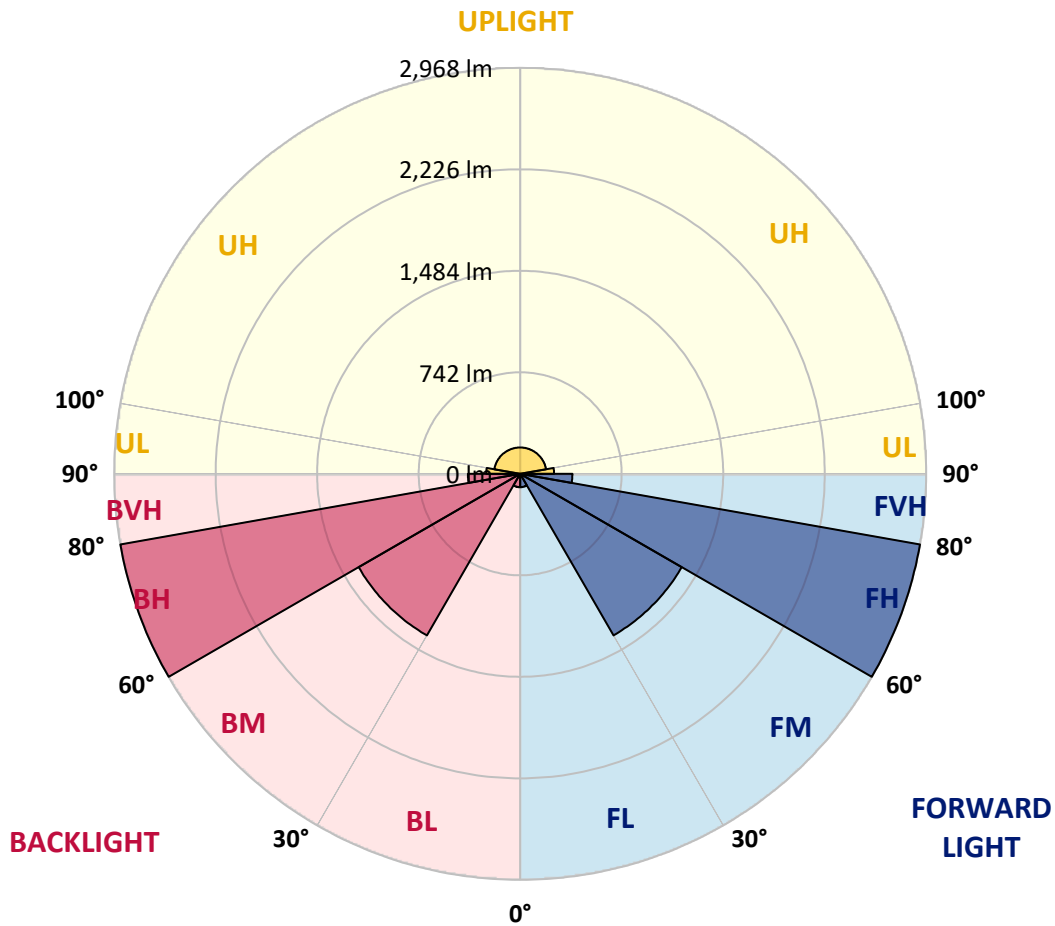
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	97.7	1.0			
FM (30°-60°)	1363.8	13.6			
FH (60°-80°)	2968.2	29.7			G2/5000
FVH (80°-90°)	382.0	3.8			G3/500
BL (0°-30°)	97.7	1.0	B0/110		
BM (30°-60°)	1363.8	13.6	B2/2500		
BH (60°-80°)	2968.2	29.7	B4/5000		G2/5000
BVH (80°-90°)	382.0	3.8			G3/500
UL (90°-100°)	247.9	2.5		U3/500	
UH (100°-180°)	192.3	1.9		U3/500	

BUG Rating: B4-U3-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1
2.5°	112.0	112.0	112.0	110.1	108.2	108.2	108.2	108.2	106.3	106.3	106.3
5°	117.6	117.6	115.8	113.9	113.9	112.0	113.9	112.0	112.0	112.0	113.9
7.5°	130.9	130.9	129.0	129.0	129.0	127.1	127.1	127.1	127.1	125.2	127.1
10°	146.1	146.1	146.1	146.1	146.1	144.2	144.2	142.3	142.3	142.3	142.3
12.5°	163.2	161.3	161.3	163.2	161.3	159.4	159.4	159.4	157.5	157.5	157.5
15°	178.4	178.4	176.5	176.5	176.5	174.6	174.6	172.7	172.7	170.8	170.8
17.5°	193.6	193.6	191.7	189.8	189.8	189.8	187.9	187.9	186.0	186.0	186.0
20°	212.5	210.6	208.7	206.8	204.9	204.9	204.9	204.9	203.0	201.1	201.1
22.5°	233.4	231.5	229.6	227.7	227.7	225.8	225.8	223.9	223.9	222.0	220.1
25°	277.0	277.0	269.5	267.6	267.6	269.5	267.6	265.7	261.9	256.2	256.2
27.5°	335.9	337.8	339.7	349.2	347.3	334.0	326.4	322.6	320.7	320.7	322.6
30°	402.3	404.2	409.9	419.4	413.7	396.6	377.6	370.0	375.7	383.3	385.2
32.5°	472.5	472.5	461.1	447.8	434.5	423.2	417.5	413.7	411.8	406.1	406.1
35°	527.5	518.0	482.0	438.3	425.1	432.6	455.4	463.0	434.5	408.0	404.2
37.5°	590.1	588.2	559.8	527.5	502.9	499.1	523.7	531.3	501.0	483.9	482.0
40°	656.6	660.4	666.0	652.8	614.8	603.4	590.1	580.7	580.7	582.6	578.8
42.5°	745.7	751.4	751.4	753.3	723.0	696.4	669.8	654.7	652.8	667.9	673.6
45°	865.3	865.3	852.0	825.4	812.2	793.2	776.1	760.9	753.3	755.2	760.9
47.5°	918.4	922.2	910.8	872.9	863.4	844.4	819.7	814.1	817.8	823.5	825.4
50°	1104.4	1094.9	1017.1	937.4	908.9	927.9	964.0	973.4	937.4	901.3	891.9
52.5°	1430.8	1428.9	1368.1	1309.3	1269.5	1258.1	1307.4	1311.2	1248.6	1222.0	1218.2
55°	1996.2	1975.4	2020.9	2049.4	1965.9	1872.9	1838.7	1791.3	1795.1	1848.2	1850.1
57.5°	2798.9	2810.3	2861.5	2787.5	2660.4	2592.1	2544.6	2455.4	2457.3	2504.8	2508.6
60°	3817.9	3816.0	3652.8	3368.2	3172.7	3186.0	3316.9	3335.9	3132.9	3001.9	2986.8
62.5°	4267.6	4246.7	4112.0	3766.7	3436.5	3430.8	3668.0	3698.3	3557.9	3383.4	3349.2
65°	3928.0	3910.9	3967.8	3850.2	3415.6	3303.7	3375.8	3368.2	3457.4	3537.1	3546.5
67.5°	3497.2	3501.0	3637.6	3601.6	3299.9	3110.1	3019.0	3007.6	3174.6	3360.6	3385.2
70°	3208.8	3208.8	3305.6	3159.4	3015.2	2891.9	2797.0	2738.2	2846.3	2876.7	2874.8
72.5°	3060.8	3047.5	2979.2	2838.8	2728.7	2620.5	2649.0	2605.4	2554.1	2474.4	2466.8
75°	2797.0	2781.8	2686.9	2620.5	2540.8	2406.1	2430.8	2387.1	2301.7	2229.6	2218.2
77.5°	2311.2	2311.2	2250.5	2201.2	2178.4	2062.6	2051.3	2030.4	1945.0	1905.2	1890.0
80°	1654.7	1650.9	1626.2	1609.1	1637.6	1569.3	1538.9	1538.9	1504.8	1468.7	1451.6
82.5°	984.8	971.6	971.6	977.2	960.2	916.5	924.1	967.8	964.0	943.1	927.9
85°	582.6	575.0	569.3	561.7	546.5	516.1	516.1	519.9	523.7	525.6	518.0
87.5°	389.0	387.1	387.1	387.1	370.0	349.2	358.6	364.3	360.5	358.6	356.7
90°	339.7	341.6	339.7	332.1	316.9	297.9	301.7	309.3	305.5	305.5	303.6
92.5°	305.5	305.5	301.7	294.1	278.9	261.9	263.8	267.6	265.7	263.8	261.9
95°	250.5	250.5	246.7	241.0	227.7	212.5	214.4	218.2	214.4	214.4	212.5
97.5°	195.4	195.4	193.6	189.8	178.4	167.0	168.9	170.8	168.9	168.9	167.0
100°	148.0	148.0	146.1	140.4	134.7	125.2	127.1	130.9	129.0	129.0	127.1
102.5°	110.1	110.1	108.2	106.3	98.7	93.0	94.9	94.9	94.9	93.0	93.0
105°	85.4	85.4	85.4	81.6	77.8	72.1	72.1	72.1	72.1	70.2	70.2
107.5°	68.3	66.4	66.4	64.5	60.7	56.9	56.9	56.9	56.9	56.9	56.9
110°	55.0	53.1	51.2	51.2	47.4	45.5	43.6	45.5	45.5	45.5	45.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	47.4	45.5	41.7	41.7	39.8	36.1	36.1	36.1	39.8	38.0	38.0
115°	41.7	39.8	34.2	34.2	32.3	30.4	30.4	30.4	34.2	30.4	30.4
117.5°	36.1	34.2	28.5	28.5	26.6	24.7	24.7	24.7	28.5	24.7	24.7
120°	26.6	26.6	22.8	22.8	22.8	20.9	20.9	20.9	22.8	20.9	20.9
122.5°	20.9	20.9	19.0	19.0	19.0	17.1	17.1	17.1	17.1	15.2	15.2
125°	20.9	24.7	15.2	15.2	13.3	13.3	13.3	11.4	13.3	11.4	11.4
127.5°	22.8	20.9	11.4	11.4	11.4	9.5	9.5	9.5	9.5	9.5	9.5
130°	7.6	11.4	7.6	7.6	7.6	7.6	7.6	7.6	5.7	5.7	5.7
132.5°	5.7	5.7	5.7	5.7	5.7	5.7	3.8	3.8	3.8	3.8	3.8
135°	3.8	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9	1.9	1.9
137.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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	1.9	1.9	1.9	1.9	1.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9
170°	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9
172.5°	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
175°	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
177.5°	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
180°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9

(END OF REPORT)