

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: P588385

Luminaire Tested: **ARC-CA6-110-740-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588385
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-CA6-110-740-U-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10243 lumens
Efficiency: N/A
Efficacy: 91.3 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

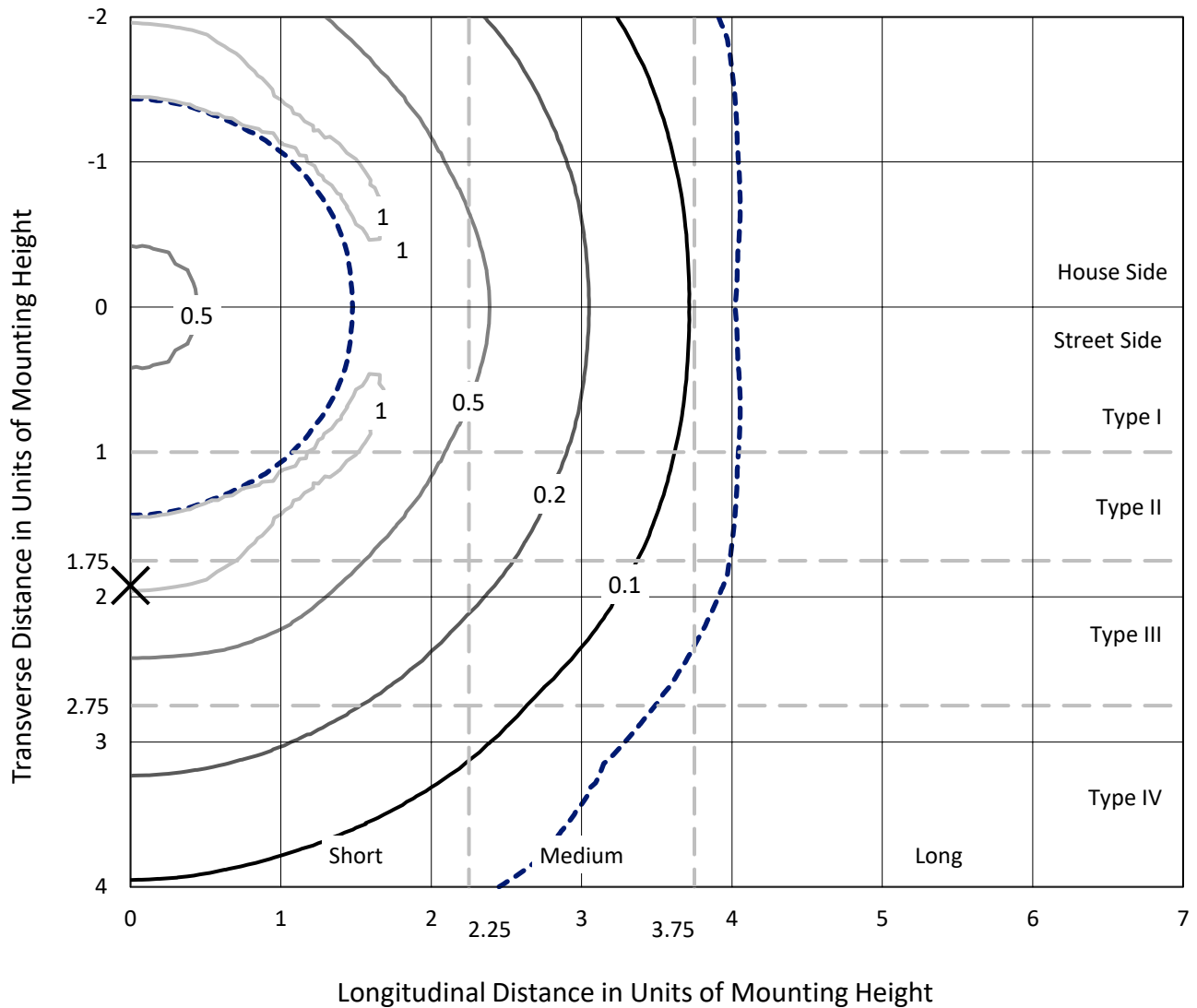
Input Watts (W): 112.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

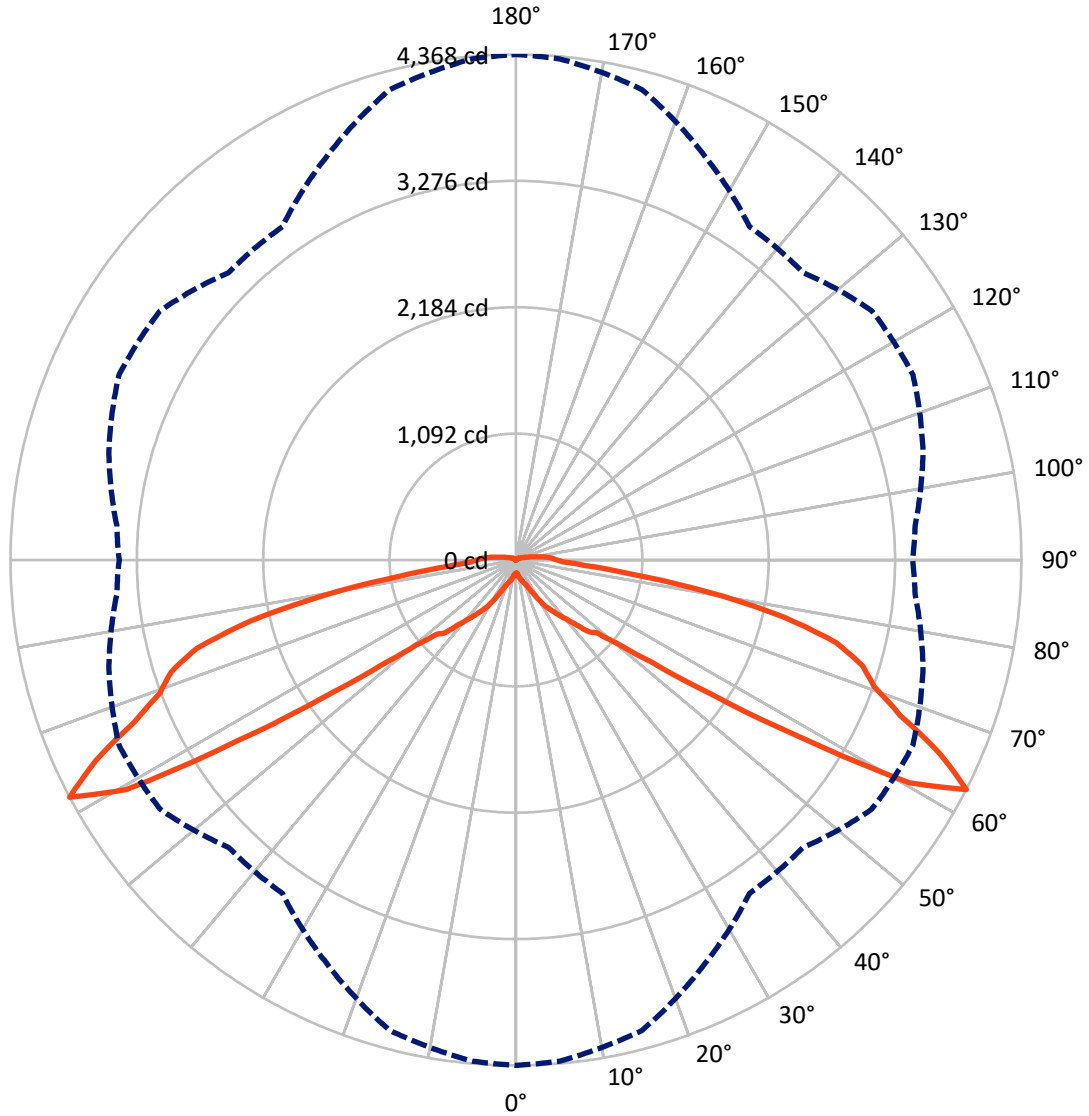
× Max cd
 - - - 1/2 Max cd



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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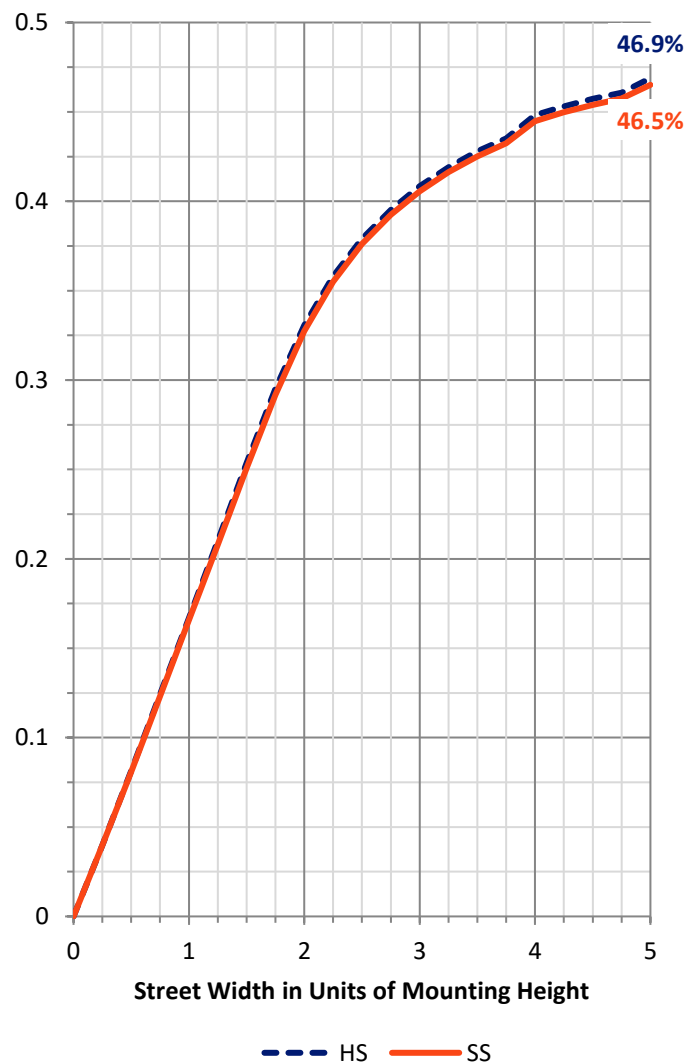
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4924.7	196.8	5121.5
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	4924.7	196.8	5121.5
	% Fixture	48.1	1.9	50.0
Total	Lumens	9849.3	393.7	10243.0
	% Fixture	96.2	3.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.2	0.1
10°-20°	51.6	0.5
20°-30°	136.2	1.3
30°-40°	309.8	3.0
40°-50°	626.7	6.1
50°-60°	1855.1	18.1
60°-70°	3485.2	34.0
70°-80°	2590.6	25.3
80°-90°	782.0	7.6
90°-100°	253.8	2.5
100°-110°	88.9	0.9
110°-120°	34.4	0.3
120°-130°	13.6	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°	9849.3	96.2
0°-180°	10243.0	100.0



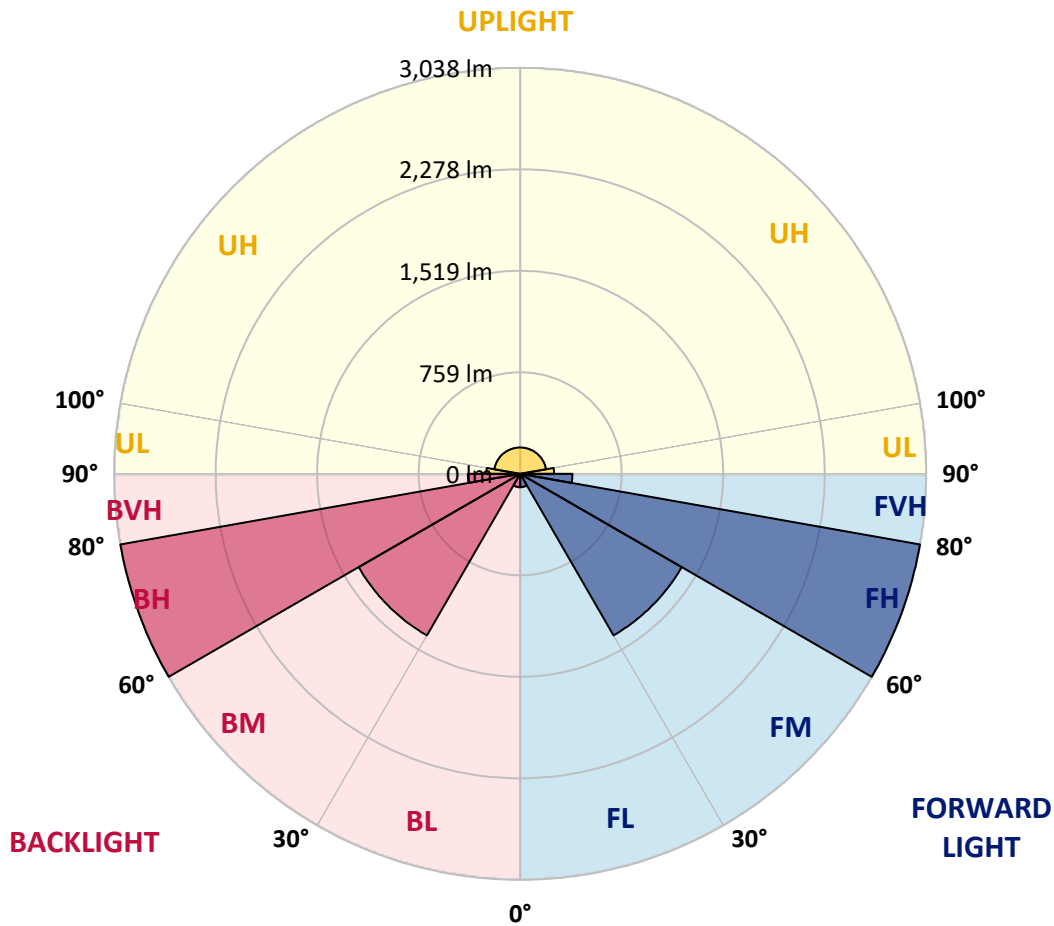
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	100.0	1.0			
FM (30°-60°)	1395.8	13.6			
FH (60°-80°)	3037.9	29.7			G2/5000
FVH (80°-90°)	391.0	3.8			G3/500
BL (0°-30°)	100.0	1.0	B0/110		
BM (30°-60°)	1395.8	13.6	B2/2500		
BH (60°-80°)	3037.9	29.7	B4/5000		G2/5000
BVH (80°-90°)	391.0	3.8			G3/500
UL (90°-100°)	253.8	2.5		U3/500	
UH (100°-180°)	196.8	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°	112.6	112.6	112.6	112.6	112.6	112.6	112.6	112.6	112.6	112.6	112.6
2.5°	114.6	114.6	114.6	112.6	110.7	110.7	110.7	110.7	108.8	108.8	108.8
5°	120.4	120.4	118.5	116.5	116.5	114.6	116.5	114.6	114.6	114.6	116.5
7.5°	134.0	134.0	132.1	132.1	132.1	130.1	130.1	130.1	130.1	128.2	130.1
10°	149.5	149.5	149.5	149.5	149.5	147.6	147.6	145.7	145.7	145.7	145.7
12.5°	167.0	165.1	165.1	167.0	165.1	163.1	163.1	163.1	161.2	161.2	161.2
15°	182.6	182.6	180.6	180.6	180.6	178.7	178.7	176.7	176.7	174.8	174.8
17.5°	198.1	198.1	196.2	194.2	194.2	194.2	192.3	192.3	190.3	190.3	190.3
20°	217.5	215.6	213.6	211.7	209.7	209.7	209.7	209.7	207.8	205.9	205.9
22.5°	238.9	236.9	235.0	233.1	233.1	231.1	231.1	229.2	229.2	227.2	225.3
25°	283.5	283.5	275.8	273.8	273.8	275.8	273.8	271.9	268.0	262.2	262.2
27.5°	343.8	345.7	347.6	357.3	355.4	341.8	334.0	330.2	328.2	328.2	330.2
30°	411.7	413.7	419.5	429.2	423.4	405.9	386.5	378.7	384.5	392.3	394.2
32.5°	483.6	483.6	471.9	458.3	444.7	433.1	427.3	423.4	421.4	415.6	415.6
35°	539.9	530.2	493.3	448.6	435.0	442.8	466.1	473.9	444.7	417.6	413.7
37.5°	604.0	602.1	572.9	539.9	514.7	510.8	536.0	543.8	512.7	495.2	493.3
40°	672.0	675.9	681.7	668.1	629.2	617.6	604.0	594.3	594.3	596.2	592.3
42.5°	763.3	769.1	769.1	771.0	739.9	712.8	685.6	670.0	668.1	683.6	689.5
45°	885.6	885.6	872.0	844.8	831.2	811.8	794.3	778.8	771.0	773.0	778.8
47.5°	940.0	943.9	932.2	893.4	883.7	864.2	839.0	833.2	837.1	842.9	844.8
50°	1130.3	1120.6	1041.0	959.4	930.3	949.7	986.6	996.3	959.4	922.5	912.8
52.5°	1464.4	1462.4	1400.3	1340.1	1299.3	1287.6	1338.1	1342.0	1277.9	1250.7	1246.8
55°	2043.1	2021.7	2068.4	2097.5	2012.0	1916.9	1881.9	1833.4	1837.2	1891.6	1893.6
57.5°	2864.6	2876.3	2928.7	2853.0	2722.8	2652.9	2604.4	2513.1	2515.0	2563.6	2567.5
60°	3907.5	3905.6	3738.6	3447.3	3247.2	3260.8	3394.8	3414.2	3206.4	3072.4	3056.9
62.5°	4367.8	4346.5	4208.6	3855.1	3517.2	3511.3	3754.1	3785.2	3641.5	3462.8	3427.8
65°	4020.2	4002.7	4061.0	3940.6	3495.8	3381.2	3455.0	3447.3	3538.5	3620.1	3629.8
67.5°	3579.3	3583.2	3723.0	3686.1	3377.3	3183.1	3089.9	3078.3	3249.2	3439.5	3464.7
70°	3284.1	3284.1	3383.2	3233.6	3086.0	2959.8	2862.7	2802.5	2913.2	2944.3	2942.3
72.5°	3132.6	3119.0	3049.1	2905.4	2792.8	2682.1	2711.2	2666.5	2614.1	2532.5	2524.8
75°	2862.7	2847.1	2750.0	2682.1	2600.5	2462.6	2487.9	2443.2	2355.8	2282.0	2270.3
77.5°	2365.5	2365.5	2303.4	2252.9	2229.6	2111.1	2099.4	2078.1	1990.7	1949.9	1934.3
80°	1693.5	1689.6	1664.4	1646.9	1676.0	1606.1	1575.1	1575.1	1540.1	1503.2	1485.7
82.5°	1008.0	994.4	994.4	1000.2	982.7	938.0	945.8	990.5	986.6	965.2	949.7
85°	596.2	588.5	582.6	574.9	559.3	528.3	528.3	532.1	536.0	538.0	530.2
87.5°	398.1	396.2	396.2	396.2	378.7	357.3	367.1	372.9	369.0	367.1	365.1
90°	347.6	349.6	347.6	339.9	324.3	304.9	308.8	316.6	312.7	312.7	310.7
92.5°	312.7	312.7	308.8	301.0	285.5	268.0	270.0	273.8	271.9	270.0	268.0
95°	256.4	256.4	252.5	246.6	233.1	217.5	219.5	223.3	219.5	219.5	217.5
97.5°	200.0	200.0	198.1	194.2	182.6	170.9	172.8	174.8	172.8	172.8	170.9
100°	151.5	151.5	149.5	143.7	137.9	128.2	130.1	134.0	132.1	132.1	130.1
102.5°	112.6	112.6	110.7	108.8	101.0	95.2	97.1	97.1	97.1	95.2	95.2
105°	87.4	87.4	87.4	83.5	79.6	73.8	73.8	73.8	73.8	71.9	71.9
107.5°	69.9	68.0	68.0	66.0	62.1	58.3	58.3	58.3	58.3	58.3	58.3
110°	56.3	54.4	52.4	52.4	48.6	46.6	44.7	46.6	46.6	46.6	46.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	48.6	46.6	42.7	42.7	40.8	36.9	36.9	36.9	40.8	38.8	38.8
115°	42.7	40.8	35.0	35.0	33.0	31.1	31.1	31.1	35.0	31.1	31.1
117.5°	36.9	35.0	29.1	29.1	27.2	25.2	25.2	25.2	29.1	25.2	25.2
120°	27.2	27.2	23.3	23.3	23.3	21.4	21.4	21.4	23.3	21.4	21.4
122.5°	21.4	21.4	19.4	19.4	19.4	17.5	17.5	17.5	17.5	15.5	15.5
125°	21.4	25.2	15.5	15.5	13.6	13.6	13.6	11.7	13.6	11.7	11.7
127.5°	23.3	21.4	11.7	11.7	11.7	9.7	9.7	9.7	9.7	9.7	9.7
130°	7.8	11.7	7.8	7.8	7.8	7.8	7.8	7.8	5.8	5.8	5.8
132.5°	5.8	5.8	5.8	5.8	5.8	5.8	3.9	3.9	3.9	3.9	3.9
135°	3.9	3.9	3.9	3.9	3.9	3.9	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	1.9	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)