

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: P588365

Luminaire Tested: **ARC-CA6-100-750-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588365
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-CA6-100-750-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: 9802 lumens
Efficiency: N/A
Efficacy: 94.5 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

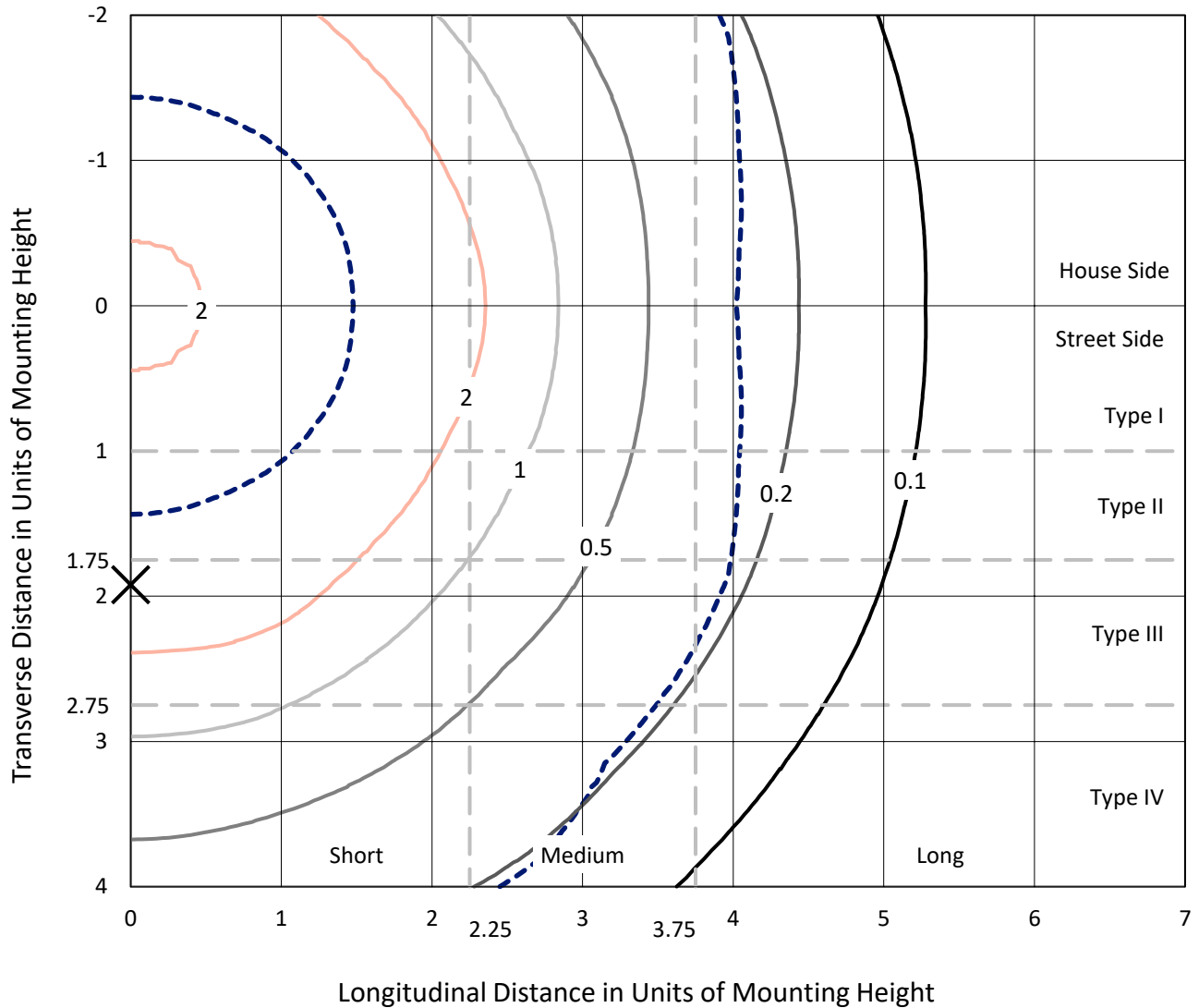
Input Watts (W): 103.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

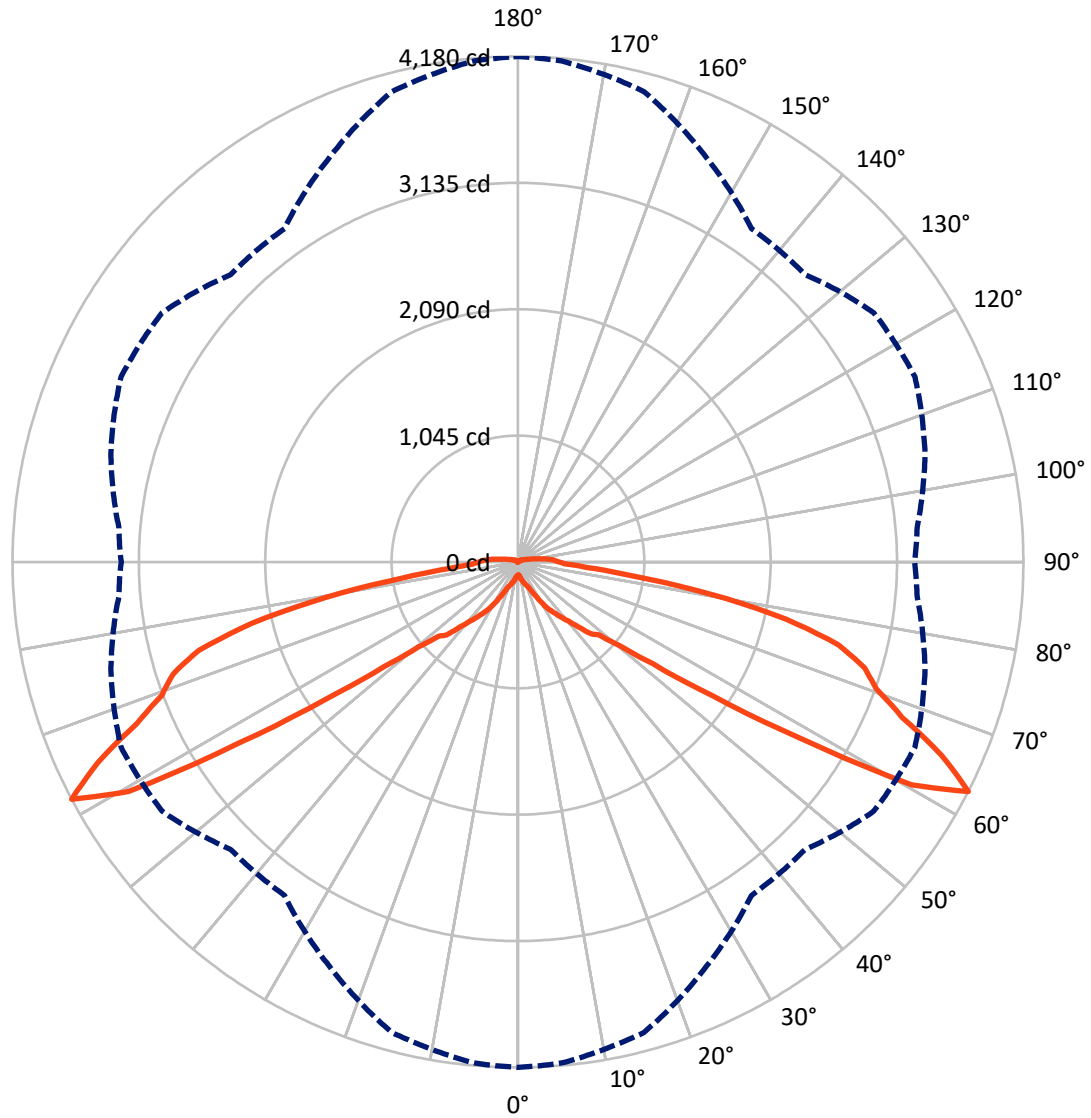
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 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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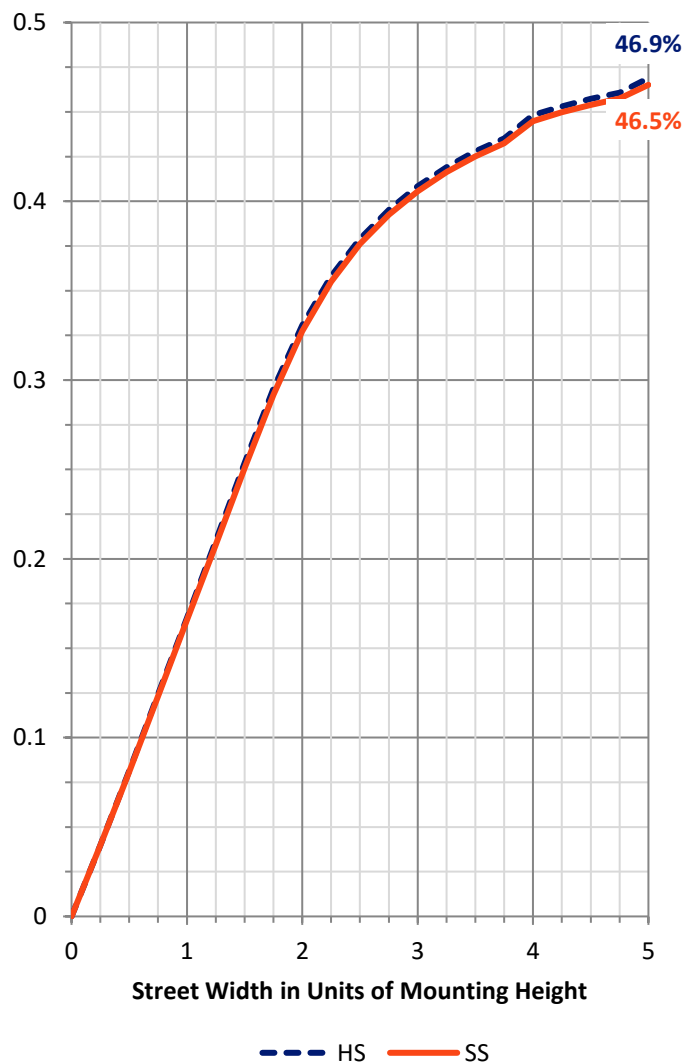
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4712.6	188.4	4901.0
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	4712.6	188.4	4901.0
	% Fixture	48.1	1.9	50.0
Total	Lumens	9425.3	376.7	9802.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.7	0.1
10°-20°	49.4	0.5
20°-30°	130.3	1.3
30°-40°	296.5	3.0
40°-50°	599.7	6.1
50°-60°	1775.2	18.1
60°-70°	3335.1	34.0
70°-80°	2479.0	25.3
80°-90°	748.4	7.6
90°-100°	242.8	2.5
100°-110°	85.1	0.9
110°-120°	32.9	0.3
120°-130°	13.0	0.1
130°-140°	2.6	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°	9425.3	96.2
0°-180°	9802.0	100.0

Coefficient of Utilization



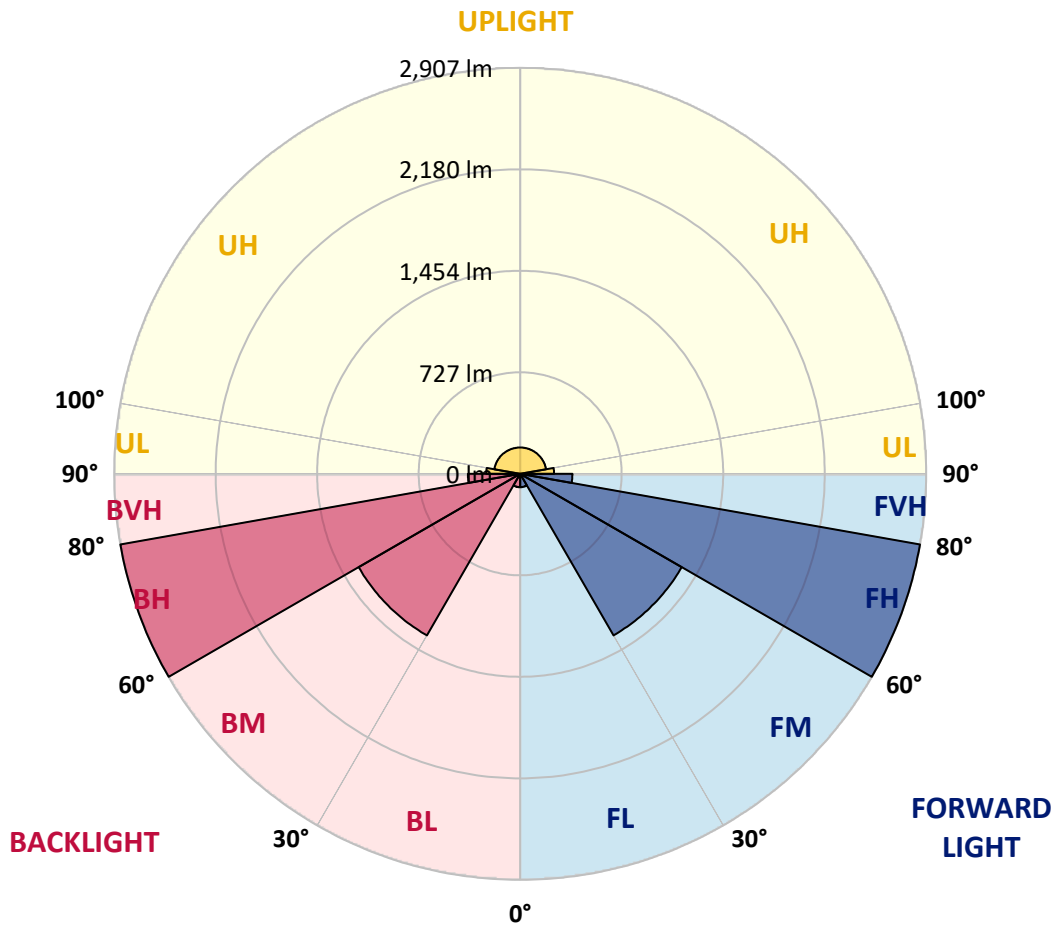
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	95.7	1.0			
FM (30°-60°)	1335.7	13.6			
FH (60°-80°)	2907.1	29.7			G2/5000
FVH (80°-90°)	374.2	3.8			G3/500
BL (0°-30°)	95.7	1.0	B0/110		
BM (30°-60°)	1335.7	13.6	B2/2500		
BH (60°-80°)	2907.1	29.7	B4/5000		G2/5000
BVH (80°-90°)	374.2	3.8			G3/500
UL (90°-100°)	242.8	2.5		U3/500	
UH (100°-180°)	188.4	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°	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8
2.5°	109.7	109.7	109.7	107.8	105.9	105.9	105.9	105.9	104.1	104.1	104.1
5°	115.2	115.2	113.4	111.5	111.5	109.7	111.5	109.7	109.7	109.7	111.5
7.5°	128.2	128.2	126.4	126.4	126.4	124.5	124.5	124.5	124.5	122.7	124.5
10°	143.1	143.1	143.1	143.1	143.1	141.2	141.2	139.4	139.4	139.4	139.4
12.5°	159.8	158.0	158.0	159.8	158.0	156.1	156.1	156.1	154.3	154.3	154.3
15°	174.7	174.7	172.8	172.8	172.8	171.0	171.0	169.1	169.1	167.3	167.3
17.5°	189.6	189.6	187.7	185.9	185.9	185.9	184.0	184.0	182.1	182.1	182.1
20°	208.2	206.3	204.4	202.6	200.7	200.7	200.7	200.7	198.9	197.0	197.0
22.5°	228.6	226.7	224.9	223.0	223.0	221.2	221.2	219.3	219.3	217.4	215.6
25°	271.3	271.3	263.9	262.0	262.0	263.9	262.0	260.2	256.5	250.9	250.9
27.5°	329.0	330.8	332.7	342.0	340.1	327.1	319.7	315.9	314.1	314.1	315.9
30°	394.0	395.9	401.4	410.7	405.2	388.4	369.8	362.4	368.0	375.4	377.3
32.5°	462.8	462.8	451.6	438.6	425.6	414.4	408.9	405.2	403.3	397.7	397.7
35°	516.7	507.4	472.1	429.3	416.3	423.7	446.0	453.5	425.6	399.6	395.9
37.5°	578.0	576.1	548.3	516.7	492.5	488.8	512.9	520.4	490.6	473.9	472.1
40°	643.0	646.8	652.3	639.3	602.2	591.0	578.0	568.7	568.7	570.6	566.8
42.5°	730.4	736.0	736.0	737.8	708.1	682.1	656.1	641.2	639.3	654.2	659.8
45°	847.5	847.5	834.5	808.4	795.4	776.9	760.1	745.3	737.8	739.7	745.3
47.5°	899.5	903.2	892.1	854.9	845.6	827.0	802.9	797.3	801.0	806.6	808.4
50°	1081.6	1072.4	996.2	918.1	890.2	908.8	944.1	953.4	918.1	882.8	873.5
52.5°	1401.3	1399.5	1340.0	1282.4	1243.3	1232.2	1280.5	1284.2	1222.9	1196.9	1193.2
55°	1955.1	1934.7	1979.3	2007.2	1925.4	1834.3	1800.9	1754.4	1758.1	1810.2	1812.0
57.5°	2741.3	2752.4	2802.6	2730.1	2605.6	2538.7	2492.3	2404.9	2406.8	2453.2	2456.9
60°	3739.3	3737.4	3577.6	3298.8	3107.4	3120.4	3248.7	3267.2	3068.4	2940.2	2925.3
62.5°	4179.8	4159.3	4027.4	3689.1	3365.7	3360.2	3592.5	3622.2	3484.7	3313.7	3280.3
65°	3847.1	3830.4	3886.1	3770.9	3345.3	3235.7	3306.3	3298.8	3386.2	3464.2	3473.5
67.5°	3425.2	3428.9	3562.7	3527.4	3231.9	3046.1	2956.9	2945.7	3109.3	3291.4	3315.6
70°	3142.7	3142.7	3237.5	3094.4	2953.2	2832.4	2739.4	2681.8	2787.8	2817.5	2815.6
72.5°	2997.8	2984.8	2917.8	2780.3	2672.5	2566.6	2594.5	2551.7	2501.5	2423.5	2416.1
75°	2739.4	2724.6	2631.6	2566.6	2488.5	2356.6	2380.7	2338.0	2254.4	2183.7	2172.6
77.5°	2263.7	2263.7	2204.2	2155.9	2133.6	2020.2	2009.0	1988.6	1905.0	1865.9	1851.1
80°	1620.6	1616.9	1592.7	1576.0	1603.9	1537.0	1507.2	1507.2	1473.8	1438.5	1421.8
82.5°	964.6	951.6	951.6	957.1	940.4	897.7	905.1	947.8	944.1	923.7	908.8
85°	570.6	563.1	557.6	550.1	535.2	505.5	505.5	509.2	512.9	514.8	507.4
87.5°	381.0	379.1	379.1	379.1	362.4	342.0	351.3	356.8	353.1	351.3	349.4
90°	332.7	334.5	332.7	325.2	310.4	291.8	295.5	302.9	299.2	299.2	297.4
92.5°	299.2	299.2	295.5	288.1	273.2	256.5	258.3	262.0	260.2	258.3	256.5
95°	245.3	245.3	241.6	236.0	223.0	208.2	210.0	213.7	210.0	210.0	208.2
97.5°	191.4	191.4	189.6	185.9	174.7	163.5	165.4	167.3	165.4	165.4	163.5
100°	145.0	145.0	143.1	137.5	132.0	122.7	124.5	128.2	126.4	126.4	124.5
102.5°	107.8	107.8	105.9	104.1	96.6	91.1	92.9	92.9	92.9	91.1	91.1
105°	83.6	83.6	83.6	79.9	76.2	70.6	70.6	70.6	70.6	68.8	68.8
107.5°	66.9	65.0	65.0	63.2	59.5	55.8	55.8	55.8	55.8	55.8	55.8
110°	53.9	52.0	50.2	50.2	46.5	44.6	42.7	44.6	44.6	44.6	44.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	46.5	44.6	40.9	40.9	39.0	35.3	35.3	35.3	39.0	37.2	37.2
115°	40.9	39.0	33.5	33.5	31.6	29.7	29.7	29.7	33.5	29.7	29.7
117.5°	35.3	33.5	27.9	27.9	26.0	24.2	24.2	24.2	27.9	24.2	24.2
120°	26.0	26.0	22.3	22.3	22.3	20.4	20.4	20.4	22.3	20.4	20.4
122.5°	20.4	20.4	18.6	18.6	18.6	16.7	16.7	16.7	16.7	14.9	14.9
125°	20.4	24.2	14.9	14.9	13.0	13.0	13.0	11.2	13.0	11.2	11.2
127.5°	22.3	20.4	11.2	11.2	11.2	9.3	9.3	9.3	9.3	9.3	9.3
130°	7.4	11.2	7.4	7.4	7.4	7.4	7.4	7.4	5.6	5.6	5.6
132.5°	5.6	5.6	5.6	5.6	5.6	5.6	3.7	3.7	3.7	3.7	3.7
135°	3.7	3.7	3.7	3.7	3.7	3.7	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)