

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: P588413

Luminaire Tested: **ARC-CA6-120-750-U-55-6-5-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588413  
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-CA6-120-750-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**

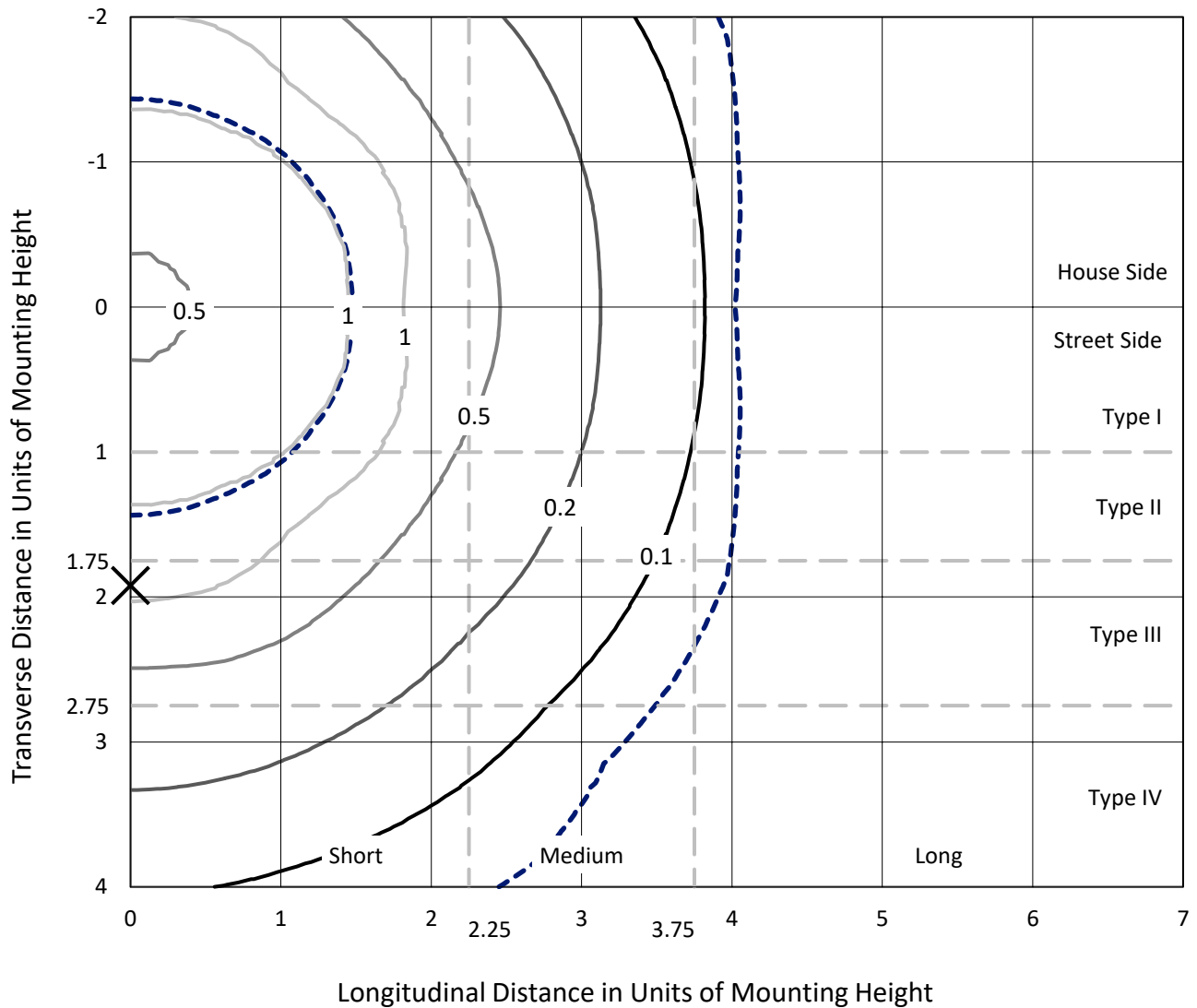
Lumens per Lamp: N/A  
Luminaire Lumens: 11304 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U3 - G3  
  
Input Watts (W): 119.3  
Input Voltage (V): 120  
Input 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



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### Iso-Footcandle Lines of Horizontal Illumination

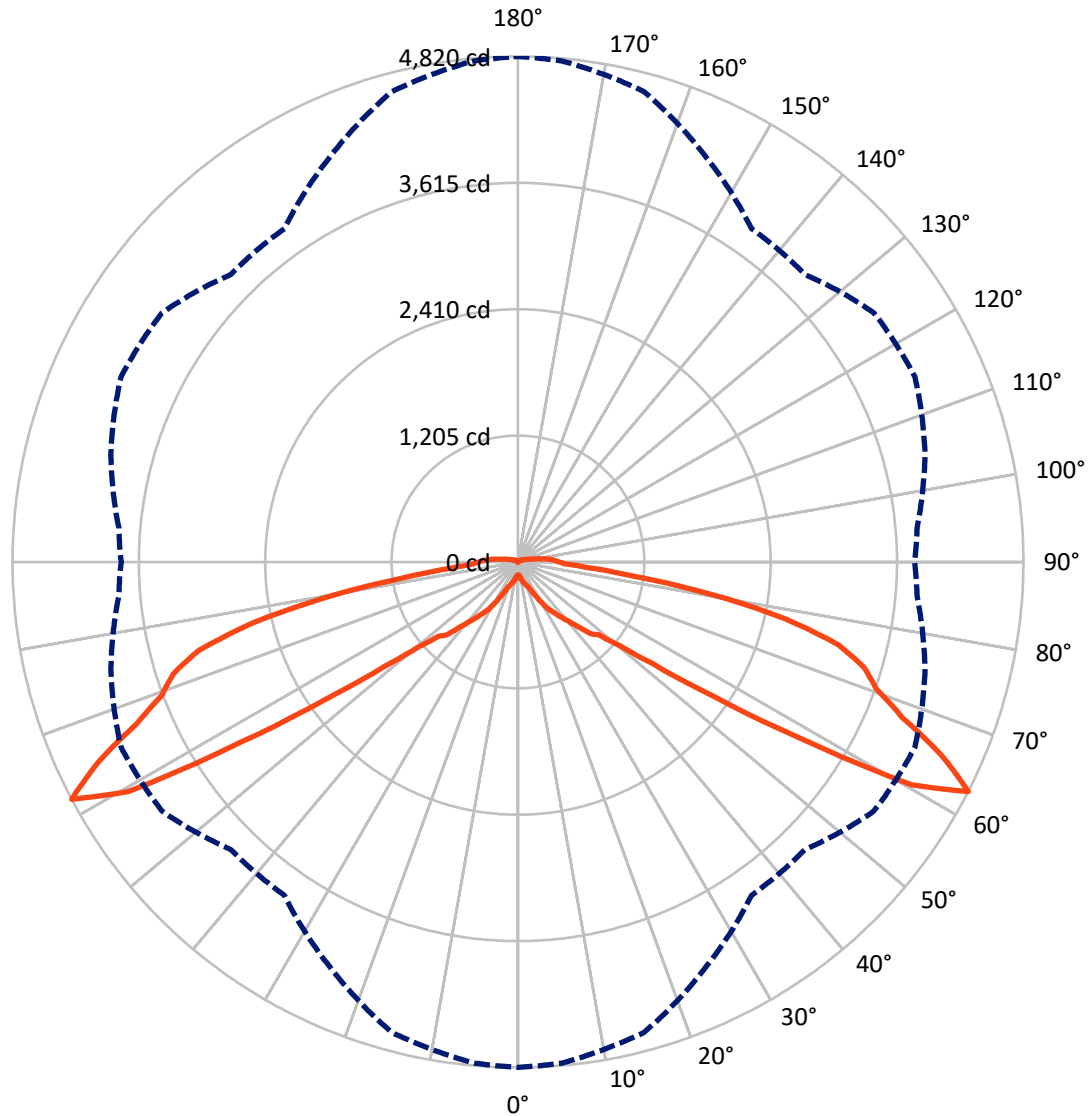
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.3 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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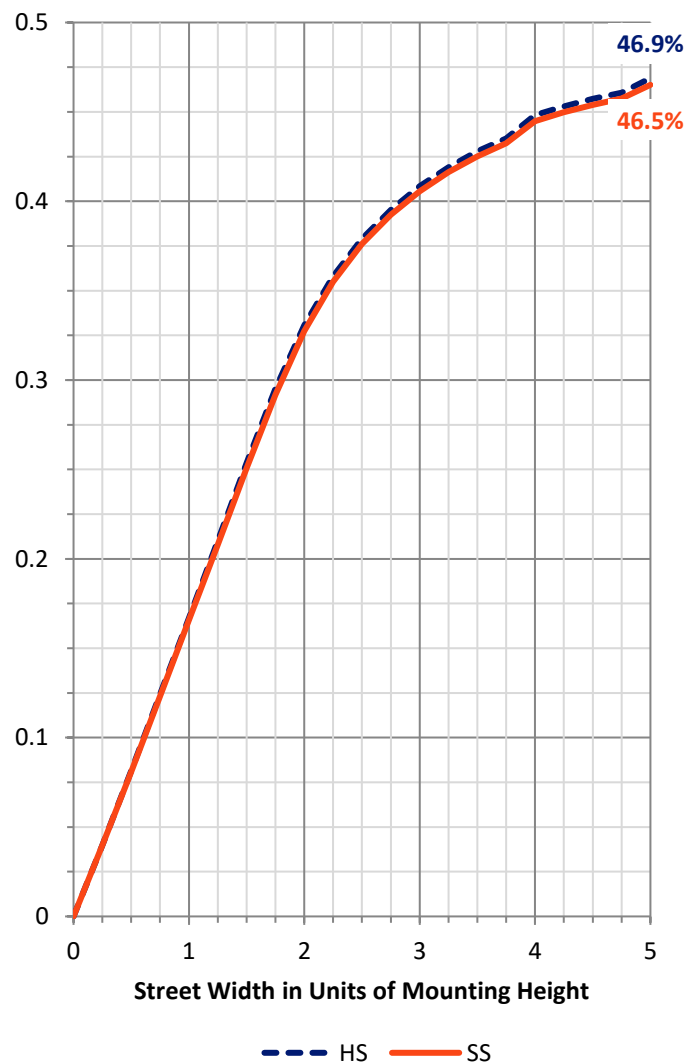
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5434.8	217.2	5652.0
	% Fixture	48.1	1.9	50.0
<b>Street Side</b>	Lumens	5434.8	217.2	5652.0
	% Fixture	48.1	1.9	50.0
<b>Total</b>	Lumens	10869.6	434.4	11304.0
	% Fixture	96.2	3.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.5	0.1
10°-20°	56.9	0.5
20°-30°	150.3	1.3
30°-40°	341.9	3.0
40°-50°	691.6	6.1
50°-60°	2047.3	18.1
60°-70°	3846.2	34.0
70°-80°	2858.9	25.3
80°-90°	863.0	7.6
90°-100°	280.0	2.5
100°-110°	98.1	0.9
110°-120°	37.9	0.3
120°-130°	15.0	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°	10869.6	96.2
0°-180°	11304.0	100.0



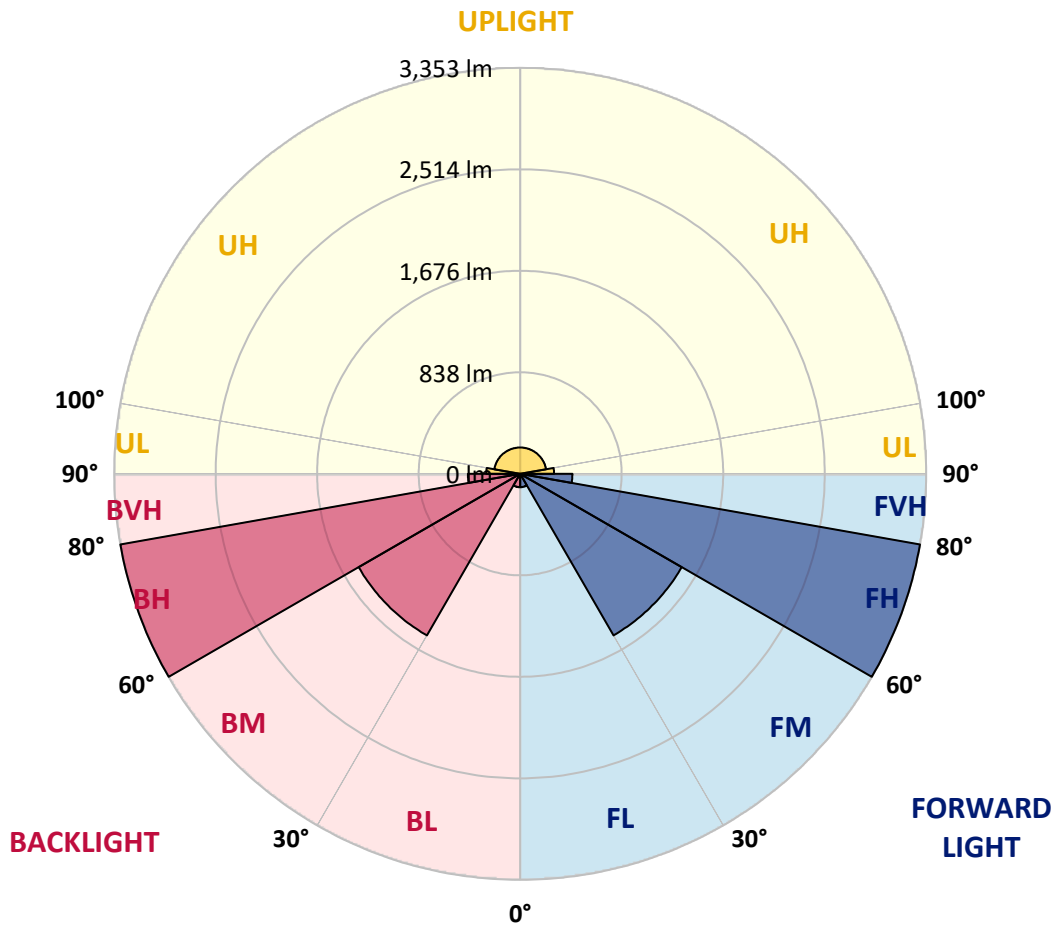
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	110.3	1.0			
FM (30°-60°)	1540.4	13.6			
FH (60°-80°)	3352.5	29.7			G2/5000
FVH (80°-90°)	431.5	3.8			G3/500
BL (0°-30°)	110.3	1.0	B1/500		
BM (30°-60°)	1540.4	13.6	B2/2500		
BH (60°-80°)	3352.5	29.7	B4/5000		G2/5000
BVH (80°-90°)	431.5	3.8			G3/500
UL (90°-100°)	280.0	2.5		U3/500	
UH (100°-180°)	217.2	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°	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3
2.5°	126.5	126.5	126.5	124.3	122.2	122.2	122.2	122.2	120.0	120.0	120.0
5°	132.9	132.9	130.7	128.6	128.6	126.5	128.6	126.5	126.5	126.5	128.6
7.5°	147.9	147.9	145.7	145.7	145.7	143.6	143.6	143.6	143.6	141.5	143.6
10°	165.0	165.0	165.0	165.0	165.0	162.9	162.9	160.7	160.7	160.7	160.7
12.5°	184.3	182.2	182.2	184.3	182.2	180.0	180.0	180.0	177.9	177.9	177.9
15°	201.5	201.5	199.3	199.3	199.3	197.2	197.2	195.0	195.0	192.9	192.9
17.5°	218.6	218.6	216.5	214.3	214.3	214.3	212.2	212.2	210.0	210.0	210.0
20°	240.0	237.9	235.8	233.6	231.5	231.5	231.5	231.5	229.3	227.2	227.2
22.5°	263.6	261.5	259.3	257.2	257.2	255.1	255.1	252.9	252.9	250.8	248.6
25°	312.9	312.9	304.3	302.2	302.2	304.3	302.2	300.1	295.8	289.3	289.3
27.5°	379.4	381.5	383.6	394.4	392.2	377.2	368.6	364.4	362.2	362.2	364.4
30°	454.4	456.5	463.0	473.7	467.2	447.9	426.5	417.9	424.4	432.9	435.1
32.5°	533.7	533.7	520.8	505.8	490.8	478.0	471.5	467.2	465.1	458.7	458.7
35°	595.8	585.1	544.4	495.1	480.1	488.7	514.4	523.0	490.8	460.8	456.5
37.5°	666.6	664.4	632.3	595.8	568.0	563.7	591.5	600.1	565.8	546.5	544.4
40°	741.6	745.9	752.3	737.3	694.4	681.6	666.6	655.8	655.8	658.0	653.7
42.5°	842.3	848.7	848.7	850.9	816.6	786.6	756.6	739.4	737.3	754.4	760.9
45°	977.3	977.3	962.3	932.3	917.3	895.9	876.6	859.5	850.9	853.0	859.5
47.5°	1037.4	1041.6	1028.8	985.9	975.2	953.8	925.9	919.5	923.8	930.2	932.3
50°	1247.4	1236.7	1148.8	1058.8	1026.6	1048.1	1088.8	1099.5	1058.8	1018.1	1007.3
52.5°	1616.0	1613.9	1545.3	1478.9	1433.9	1421.0	1476.7	1481.0	1410.3	1380.3	1376.0
55°	2254.7	2231.2	2282.6	2314.8	2220.4	2115.4	2076.8	2023.3	2027.6	2087.6	2089.7
57.5°	3161.4	3174.2	3232.1	3148.5	3004.9	2927.7	2874.1	2773.4	2775.6	2829.1	2833.4
60°	4312.3	4310.2	4125.8	3804.3	3583.6	3598.6	3746.5	3767.9	3538.6	3390.7	3373.5
62.5°	4820.3	4796.7	4644.5	4254.4	3881.5	3875.1	4143.0	4177.3	4018.7	3821.5	3782.9
65°	4436.6	4417.3	4481.6	4348.7	3857.9	3731.5	3812.9	3804.3	3905.1	3995.1	4005.8
67.5°	3950.1	3954.4	4108.7	4068.0	3727.2	3512.8	3410.0	3397.1	3585.7	3795.8	3823.6
70°	3624.3	3624.3	3733.6	3568.6	3405.7	3266.4	3159.2	3092.8	3214.9	3249.2	3247.1
72.5°	3457.1	3442.1	3365.0	3206.4	3082.0	2959.9	2992.0	2942.7	2884.9	2794.8	2786.3
75°	3159.2	3142.1	3034.9	2959.9	2869.9	2717.7	2745.6	2696.3	2599.8	2518.4	2505.5
77.5°	2610.5	2610.5	2541.9	2486.2	2460.5	2329.8	2316.9	2293.3	2196.9	2151.9	2134.7
80°	1868.9	1864.7	1836.8	1817.5	1849.7	1772.5	1738.2	1738.2	1699.6	1658.9	1639.6
82.5°	1112.4	1097.4	1097.4	1103.8	1084.5	1035.2	1043.8	1093.1	1088.8	1065.2	1048.1
85°	658.0	649.4	643.0	634.4	617.3	583.0	583.0	587.3	591.5	593.7	585.1
87.5°	439.4	437.2	437.2	437.2	417.9	394.4	405.1	411.5	407.2	405.1	402.9
90°	383.6	385.8	383.6	375.1	357.9	336.5	340.8	349.4	345.1	345.1	342.9
92.5°	345.1	345.1	340.8	332.2	315.1	295.8	297.9	302.2	300.1	297.9	295.8
95°	282.9	282.9	278.6	272.2	257.2	240.0	242.2	246.5	242.2	242.2	240.0
97.5°	220.8	220.8	218.6	214.3	201.5	188.6	190.8	192.9	190.8	190.8	188.6
100°	167.2	167.2	165.0	158.6	152.2	141.5	143.6	147.9	145.7	145.7	143.6
102.5°	124.3	124.3	122.2	120.0	111.5	105.0	107.2	107.2	107.2	105.0	105.0
105°	96.4	96.4	96.4	92.2	87.9	81.4	81.4	81.4	81.4	79.3	79.3
107.5°	77.2	75.0	75.0	72.9	68.6	64.3	64.3	64.3	64.3	64.3	64.3
110°	62.2	60.0	57.9	57.9	53.6	51.4	49.3	51.4	51.4	51.4	51.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	53.6	51.4	47.2	47.2	45.0	40.7	40.7	40.7	45.0	42.9	42.9
115°	47.2	45.0	38.6	38.6	36.4	34.3	34.3	34.3	38.6	34.3	34.3
117.5°	40.7	38.6	32.1	32.1	30.0	27.9	27.9	27.9	32.1	27.9	27.9
120°	30.0	30.0	25.7	25.7	25.7	23.6	23.6	23.6	25.7	23.6	23.6
122.5°	23.6	23.6	21.4	21.4	21.4	19.3	19.3	19.3	19.3	17.1	17.1
125°	23.6	27.9	17.1	17.1	15.0	15.0	15.0	12.9	15.0	12.9	12.9
127.5°	25.7	23.6	12.9	12.9	12.9	10.7	10.7	10.7	10.7	10.7	10.7
130°	8.6	12.9	8.6	8.6	8.6	8.6	8.6	8.6	6.4	6.4	6.4
132.5°	6.4	6.4	6.4	6.4	6.4	6.4	4.3	4.3	4.3	4.3	4.3
135°	4.3	4.3	4.3	4.3	4.3	4.3	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)