

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: P588401

Luminaire Tested: **ARC-CA6-120-727-U-55-6-5-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588401  
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-CA6-120-727-U-55-6-5-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR  
Light Source: (6) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

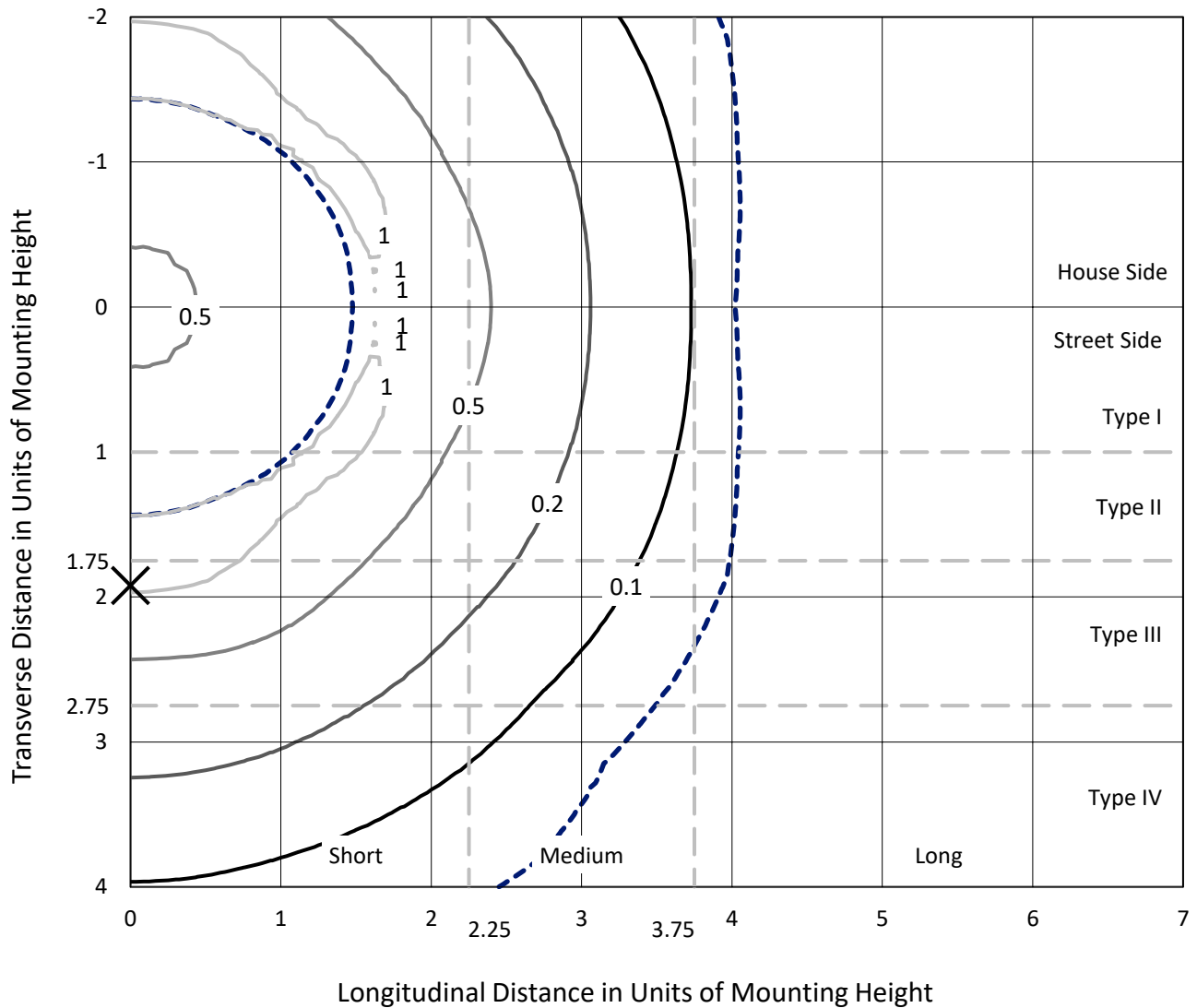
Lumens per Lamp: N/A  
Luminaire Lumens: 10378 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U3 - G3  
  
Input Watts (W): 119.3  
Input Voltage (V): 120  
Input 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

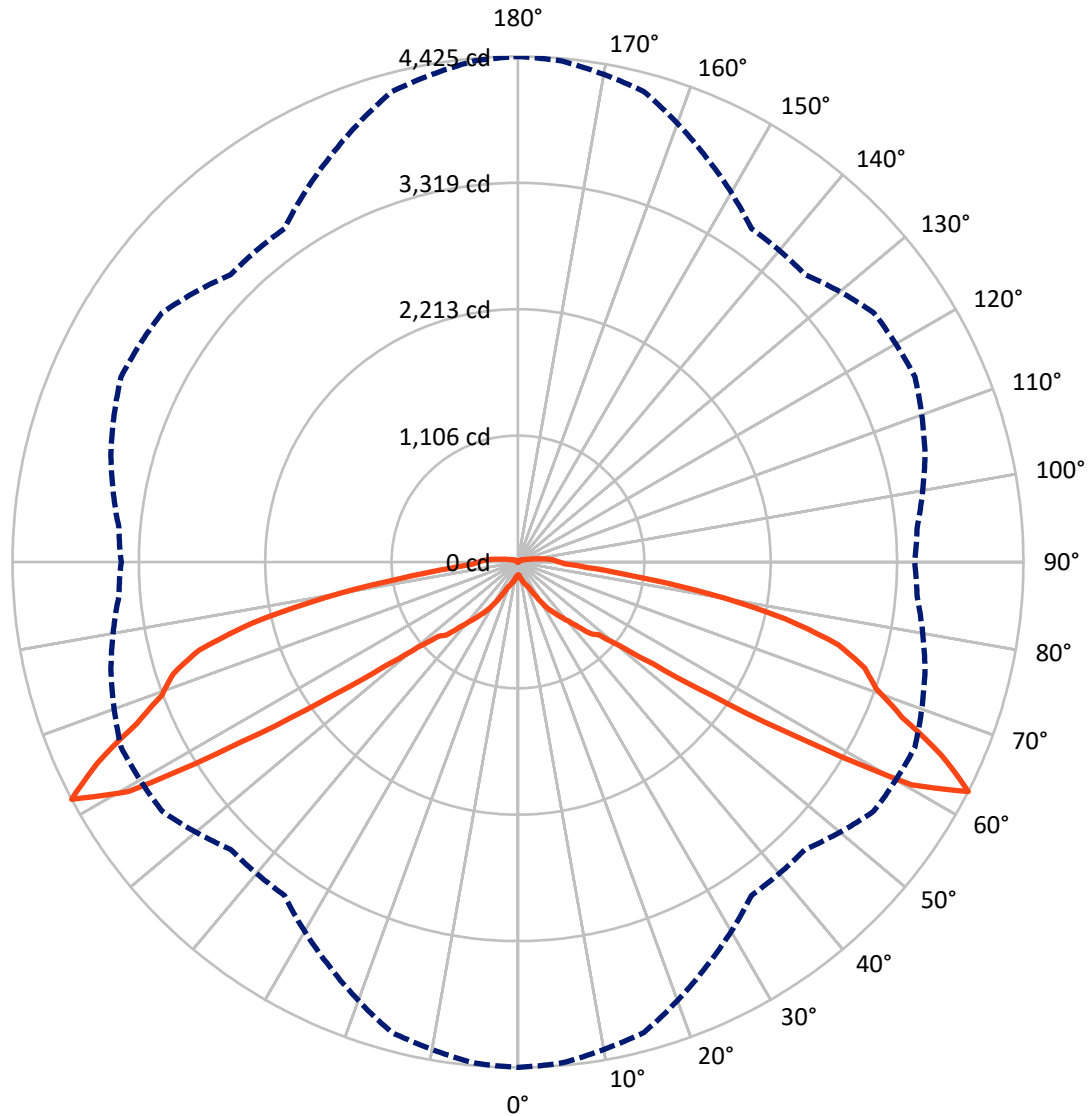
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.2 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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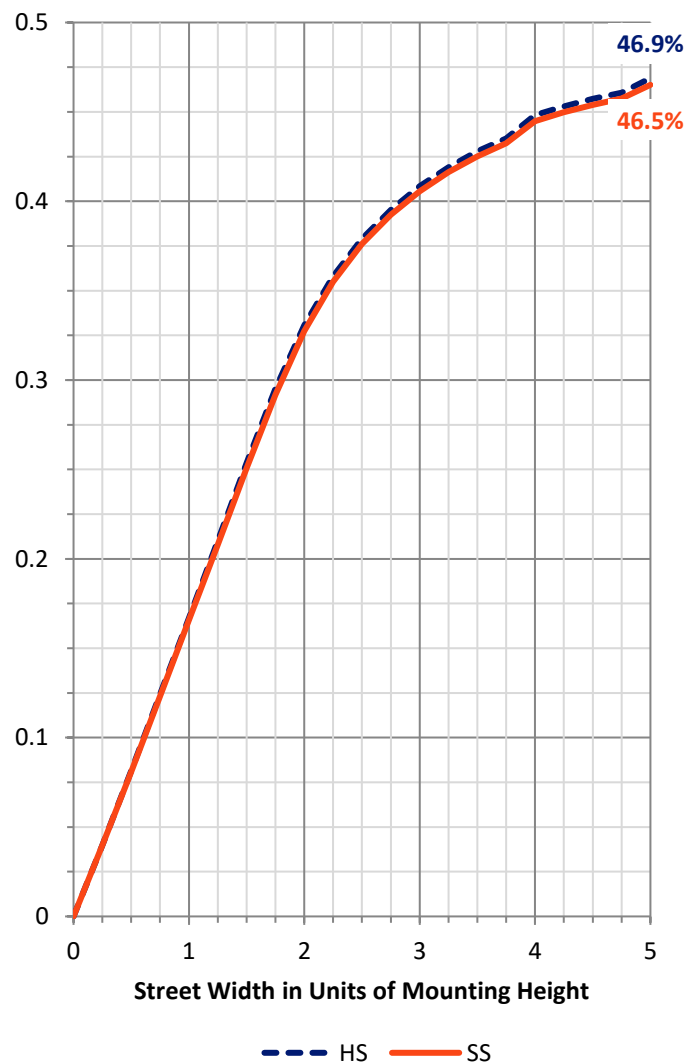
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4989.6	199.4	5189.0
	% Fixture	48.1	1.9	50.0
<b>Street Side</b>	Lumens	4989.6	199.4	5189.0
	% Fixture	48.1	1.9	50.0
<b>Total</b>	Lumens	9979.2	398.8	10378.0
	% Fixture	96.2	3.8	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.4	0.1
10°-20°	52.3	0.5
20°-30°	138.0	1.3
30°-40°	313.9	3.0
40°-50°	634.9	6.1
50°-60°	1879.6	18.1
60°-70°	3531.1	34.0
70°-80°	2624.7	25.3
80°-90°	792.3	7.6
90°-100°	257.1	2.5
100°-110°	90.1	0.9
110°-120°	34.8	0.3
120°-130°	13.8	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°	9979.2	96.2
0°-180°	10378.0	100.0

**Coefficient of Utilization**



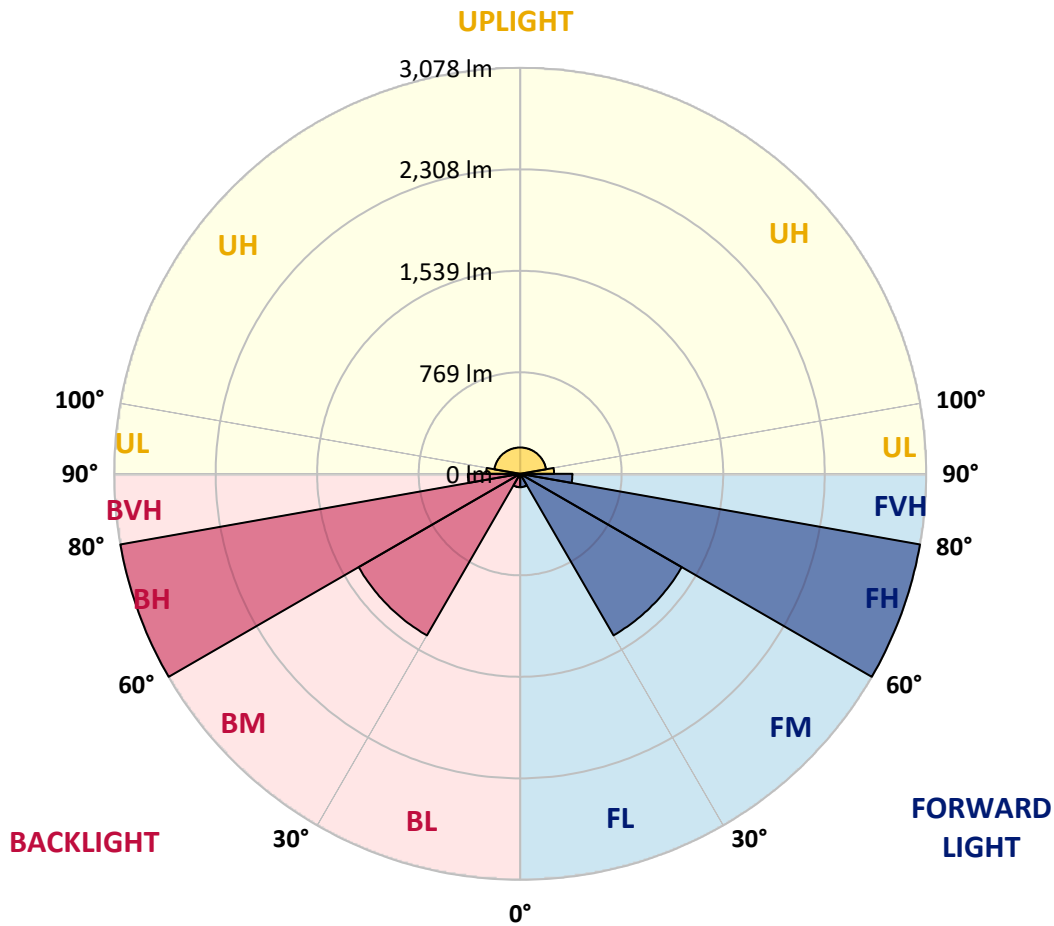
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	101.3	1.0			
FM (30°-60°)	1414.2	13.6			
FH (60°-80°)	3077.9	29.7			G2/5000
FVH (80°-90°)	396.2	3.8			G3/500
BL (0°-30°)	101.3	1.0	B0/110		
BM (30°-60°)	1414.2	13.6	B2/2500		
BH (60°-80°)	3077.9	29.7	B4/5000		G2/5000
BVH (80°-90°)	396.2	3.8			G3/500
UL (90°-100°)	257.1	2.5		U3/500	
UH (100°-180°)	199.4	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°	114.1	114.1	114.1	114.1	114.1	114.1	114.1	114.1	114.1	114.1	114.1
2.5°	116.1	116.1	116.1	114.1	112.2	112.2	112.2	112.2	110.2	110.2	110.2
5°	122.0	122.0	120.0	118.1	118.1	116.1	118.1	116.1	116.1	116.1	118.1
7.5°	135.8	135.8	133.8	133.8	133.8	131.8	131.8	131.8	131.8	129.9	131.8
10°	151.5	151.5	151.5	151.5	151.5	149.5	149.5	147.6	147.6	147.6	147.6
12.5°	169.2	167.3	167.3	169.2	167.3	165.3	165.3	165.3	163.3	163.3	163.3
15°	185.0	185.0	183.0	183.0	183.0	181.0	181.0	179.1	179.1	177.1	177.1
17.5°	200.7	200.7	198.7	196.8	196.8	196.8	194.8	194.8	192.8	192.8	192.8
20°	220.4	218.4	216.4	214.5	212.5	212.5	212.5	212.5	210.5	208.6	208.6
22.5°	242.0	240.1	238.1	236.1	236.1	234.2	234.2	232.2	232.2	230.2	228.3
25°	287.3	287.3	279.4	277.4	277.4	279.4	277.4	275.5	271.5	265.6	265.6
27.5°	348.3	350.3	352.2	362.1	360.1	346.3	338.4	334.5	332.5	332.5	334.5
30°	417.2	419.1	425.0	434.9	429.0	411.3	391.6	383.7	389.6	397.5	399.4
32.5°	490.0	490.0	478.2	464.4	450.6	438.8	432.9	429.0	427.0	421.1	421.1
35°	547.0	537.2	499.8	454.5	440.8	448.6	472.3	480.1	450.6	423.1	419.1
37.5°	612.0	610.0	580.5	547.0	521.4	517.5	543.1	551.0	519.5	501.8	499.8
40°	680.8	684.8	690.7	676.9	637.5	625.7	612.0	602.1	602.1	604.1	600.2
42.5°	773.3	779.2	779.2	781.2	749.7	722.2	694.6	678.9	676.9	692.6	698.5
45°	897.3	897.3	883.5	856.0	842.2	822.5	804.8	789.1	781.2	783.2	789.1
47.5°	952.4	956.3	944.5	905.1	895.3	875.6	850.1	844.1	848.1	854.0	856.0
50°	1145.2	1135.4	1054.7	972.1	942.5	962.2	999.6	1009.4	972.1	934.7	924.8
52.5°	1483.7	1481.7	1418.7	1357.7	1316.4	1304.6	1355.8	1359.7	1294.8	1267.2	1263.3
55°	2070.0	2048.4	2095.6	2125.1	2038.6	1942.1	1906.7	1857.5	1861.5	1916.6	1918.5
57.5°	2902.4	2914.2	2967.3	2890.6	2758.7	2687.9	2638.7	2546.2	2548.2	2597.4	2601.3
60°	3959.0	3957.1	3787.9	3492.7	3290.0	3303.8	3439.6	3459.2	3248.7	3112.9	3097.2
62.5°	4425.4	4403.7	4264.0	3905.9	3563.5	3557.6	3803.6	3835.1	3689.5	3508.4	3473.0
65°	4073.2	4055.5	4114.5	3992.5	3541.9	3425.8	3500.6	3492.7	3585.2	3667.8	3677.7
67.5°	3626.5	3630.4	3772.1	3734.7	3421.9	3225.1	3130.6	3118.8	3292.0	3484.8	3510.4
70°	3327.4	3327.4	3427.8	3276.2	3126.7	2998.8	2900.4	2839.4	2951.6	2983.1	2981.1
72.5°	3173.9	3160.1	3089.3	2943.7	2829.6	2717.4	2746.9	2701.7	2648.5	2565.9	2558.0
75°	2900.4	2884.7	2786.3	2717.4	2634.8	2495.1	2520.6	2475.4	2386.8	2312.1	2300.3
77.5°	2396.7	2396.7	2333.7	2282.5	2258.9	2138.9	2127.1	2105.5	2016.9	1975.6	1959.8
80°	1715.8	1711.9	1686.3	1668.6	1698.1	1627.3	1595.8	1595.8	1560.4	1523.0	1505.3
82.5°	1021.2	1007.5	1007.5	1013.4	995.7	950.4	958.3	1003.5	999.6	978.0	962.2
85°	604.1	596.2	590.3	582.4	566.7	535.2	535.2	539.2	543.1	545.1	537.2
87.5°	403.4	401.4	401.4	401.4	383.7	362.1	371.9	377.8	373.9	371.9	369.9
90°	352.2	354.2	352.2	344.4	328.6	308.9	312.9	320.7	316.8	316.8	314.8
92.5°	316.8	316.8	312.9	305.0	289.3	271.5	273.5	277.4	275.5	273.5	271.5
95°	259.7	259.7	255.8	249.9	236.1	220.4	222.4	226.3	222.4	222.4	220.4
97.5°	202.7	202.7	200.7	196.8	185.0	173.2	175.1	177.1	175.1	175.1	173.2
100°	153.5	153.5	151.5	145.6	139.7	129.9	131.8	135.8	133.8	133.8	131.8
102.5°	114.1	114.1	112.2	110.2	102.3	96.4	98.4	98.4	98.4	96.4	96.4
105°	88.5	88.5	88.5	84.6	80.7	74.8	74.8	74.8	74.8	72.8	72.8
107.5°	70.8	68.9	68.9	66.9	63.0	59.0	59.0	59.0	59.0	59.0	59.0
110°	57.1	55.1	53.1	53.1	49.2	47.2	45.3	47.2	47.2	47.2	47.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	49.2	47.2	43.3	43.3	41.3	37.4	37.4	37.4	41.3	39.4	39.4
115°	43.3	41.3	35.4	35.4	33.5	31.5	31.5	31.5	35.4	31.5	31.5
117.5°	37.4	35.4	29.5	29.5	27.5	25.6	25.6	25.6	29.5	25.6	25.6
120°	27.5	27.5	23.6	23.6	23.6	21.6	21.6	21.6	23.6	21.6	21.6
122.5°	21.6	21.6	19.7	19.7	19.7	17.7	17.7	17.7	17.7	15.7	15.7
125°	21.6	25.6	15.7	15.7	13.8	13.8	13.8	11.8	13.8	11.8	11.8
127.5°	23.6	21.6	11.8	11.8	11.8	9.8	9.8	9.8	9.8	9.8	9.8
130°	7.9	11.8	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	3.9	3.9	3.9	3.9	3.9
135°	3.9	3.9	3.9	3.9	3.9	3.9	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)