

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: P588425

Luminaire Tested: **ARC-CA6-130-727-U-55-6-5-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588425  
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-CA6-130-727-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**

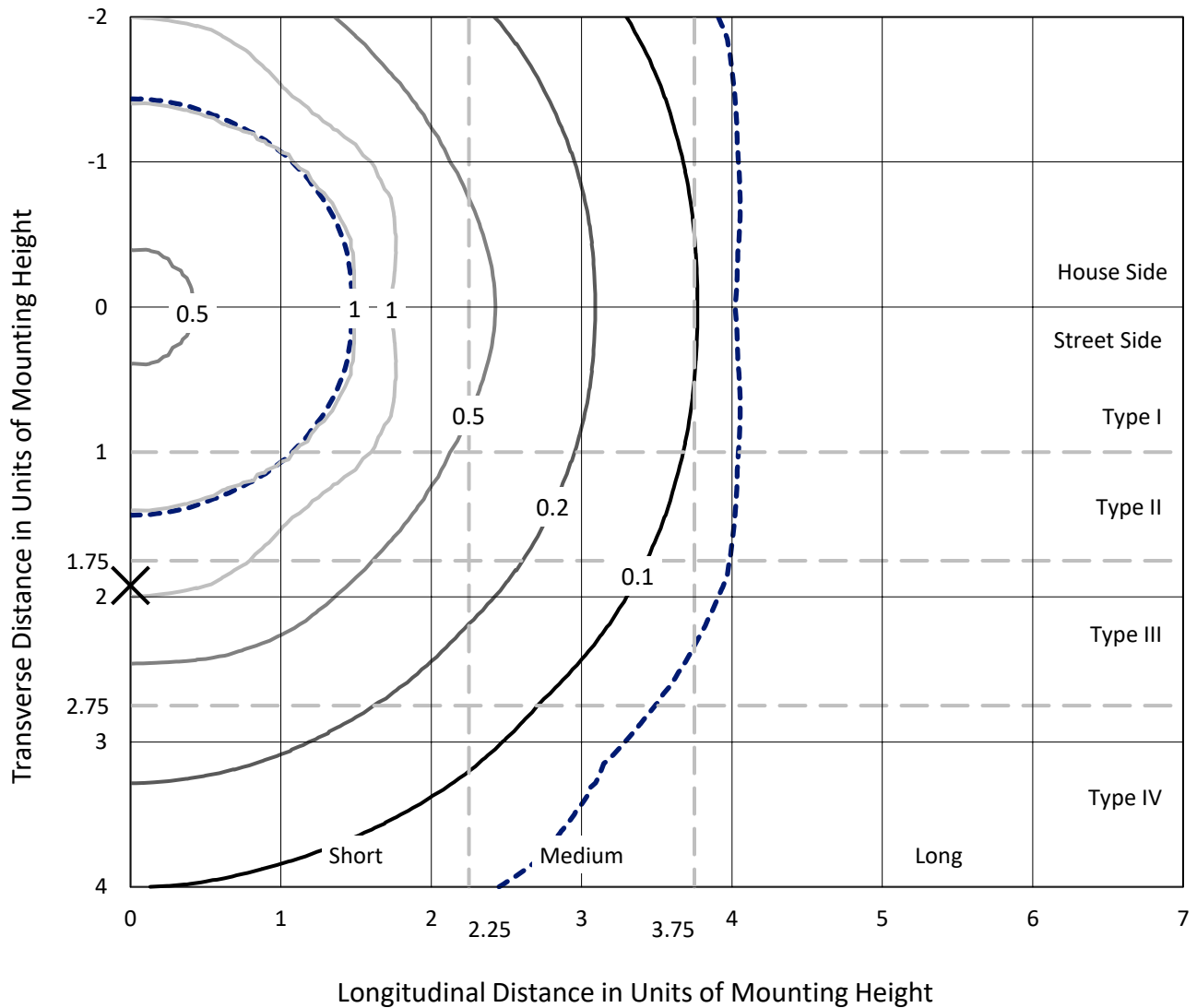
Lumens per Lamp: N/A  
Luminaire Lumens: 10789 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U3 - G3  
  
Input Watts (W): 124.3  
Input Voltage (V): 120  
Input 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

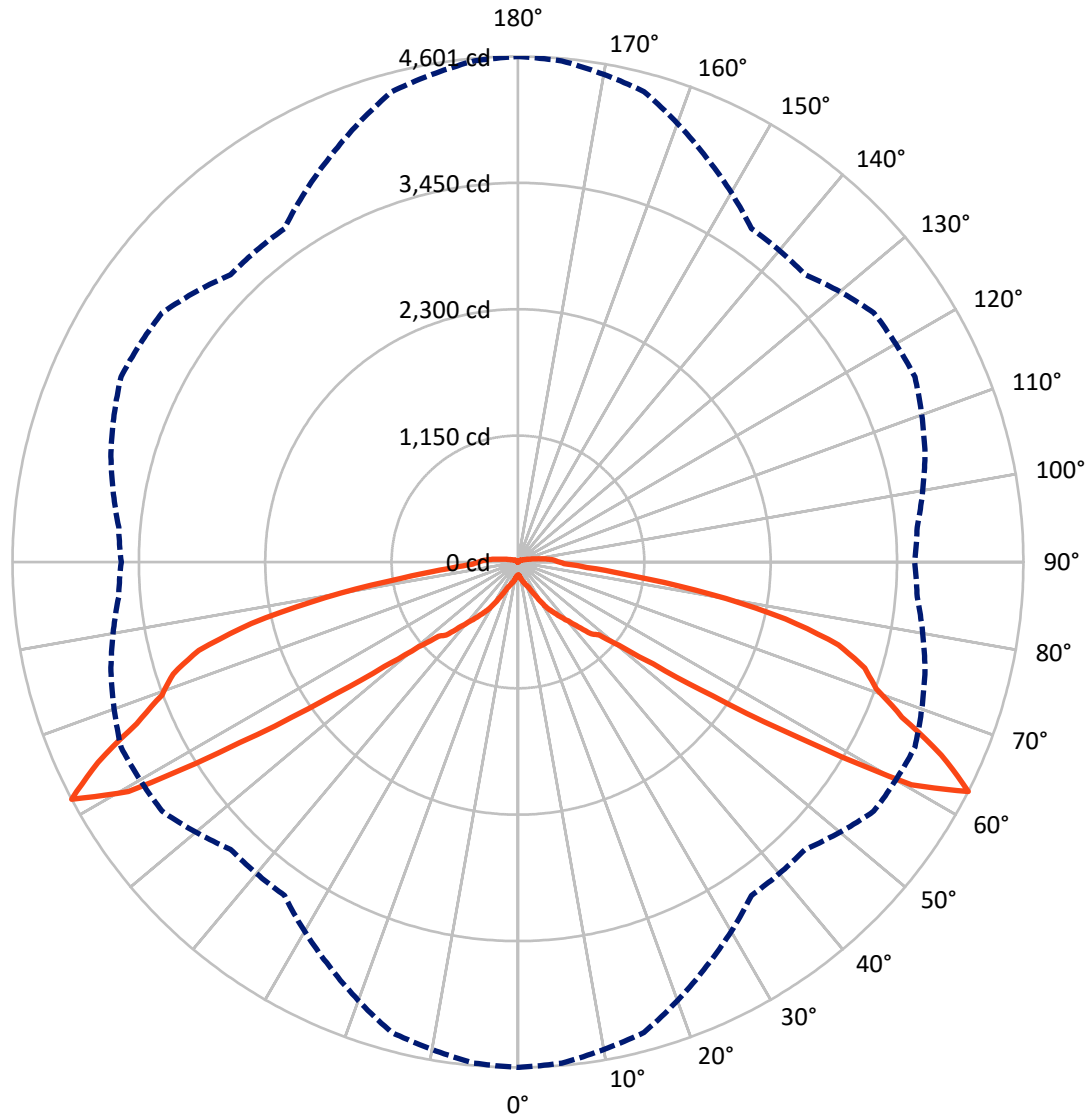
× Max cd  
 - - - 1/2 Max cd



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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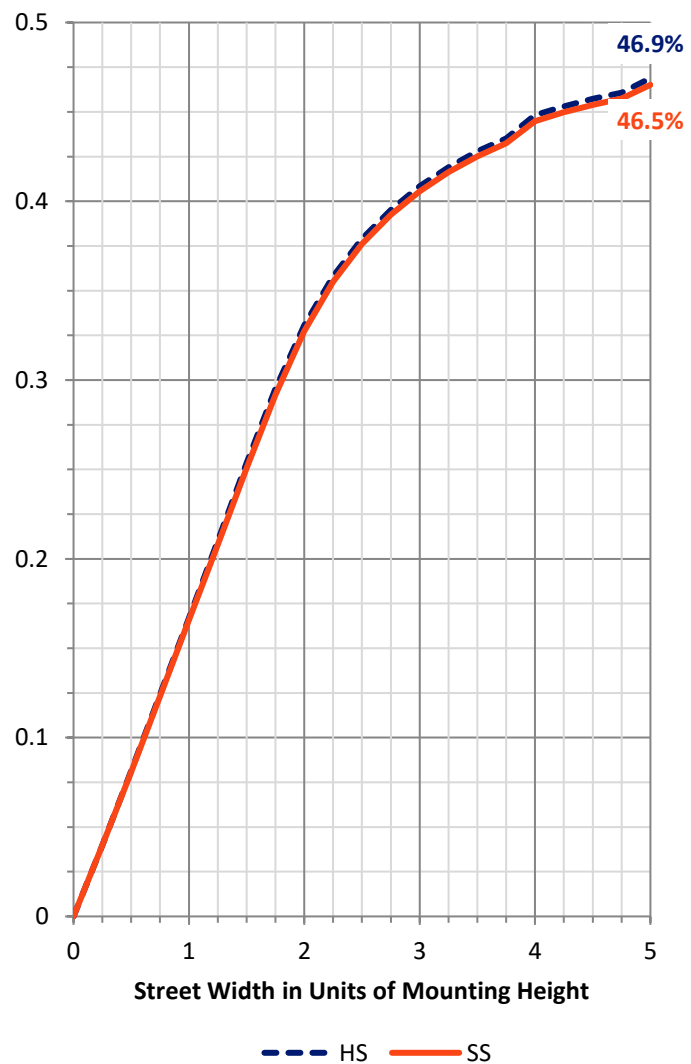
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5187.2	207.3	5394.5
	% Fixture	48.1	1.9	50.0
<b>Street Side</b>	Lumens	5187.2	207.3	5394.5
	% Fixture	48.1	1.9	50.0
<b>Total</b>	Lumens	10374.3	414.6	10789.0
	% Fixture	96.2	3.8	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.9	0.1
10°-20°	54.3	0.5
20°-30°	143.4	1.3
30°-40°	326.3	3.0
40°-50°	660.1	6.1
50°-60°	1954.0	18.1
60°-70°	3670.9	34.0
70°-80°	2728.6	25.3
80°-90°	823.7	7.6
90°-100°	267.3	2.5
100°-110°	93.7	0.9
110°-120°	36.2	0.3
120°-130°	14.3	0.1
130°-140°	2.9	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°	10374.3	96.2
0°-180°	10789.0	100.0

**Coefficient of Utilization**



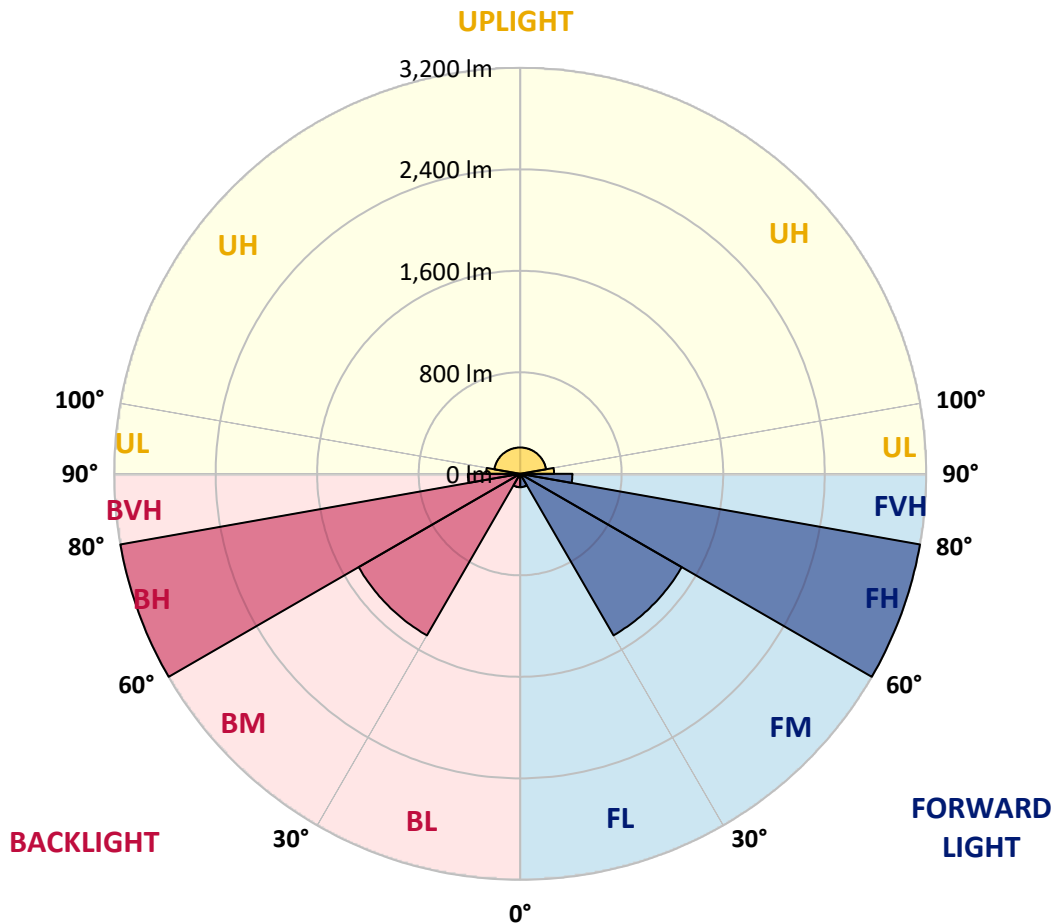
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 CATALOG NUMBER: ARC-CA6-130-727-U-55-6-5-X

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	105.3	1.0			
FM (30°-60°)	1470.2	13.6			
FH (60°-80°)	3199.8	29.7			G2/5000
FVH (80°-90°)	411.9	3.8			G3/500
BL (0°-30°)	105.3	1.0	B0/110		
BM (30°-60°)	1470.2	13.6	B2/2500		
BH (60°-80°)	3199.8	29.7	B4/5000		G2/5000
BVH (80°-90°)	411.9	3.8			G3/500
UL (90°-100°)	267.3	2.5		U3/500	
UH (100°-180°)	207.3	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°	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6
2.5°	120.7	120.7	120.7	118.6	116.6	116.6	116.6	116.6	114.6	114.6	114.6
5°	126.8	126.8	124.8	122.7	122.7	120.7	122.7	120.7	120.7	120.7	122.7
7.5°	141.1	141.1	139.1	139.1	139.1	137.1	137.1	137.1	137.1	135.0	137.1
10°	157.5	157.5	157.5	157.5	157.5	155.5	155.5	153.4	153.4	153.4	153.4
12.5°	175.9	173.9	173.9	175.9	173.9	171.8	171.8	171.8	169.8	169.8	169.8
15°	192.3	192.3	190.2	190.2	190.2	188.2	188.2	186.2	186.2	184.1	184.1
17.5°	208.7	208.7	206.6	204.6	204.6	204.6	202.5	202.5	200.5	200.5	200.5
20°	229.1	227.1	225.0	223.0	220.9	220.9	220.9	220.9	218.9	216.8	216.8
22.5°	251.6	249.6	247.5	245.5	245.5	243.4	243.4	241.4	241.4	239.3	237.3
25°	298.7	298.7	290.5	288.4	288.4	290.5	288.4	286.4	282.3	276.2	276.2
27.5°	362.1	364.1	366.2	376.4	374.4	360.0	351.9	347.8	345.7	345.7	347.8
30°	433.7	435.7	441.9	452.1	445.9	427.5	407.1	398.9	405.0	413.2	415.3
32.5°	509.4	509.4	497.1	482.8	468.5	456.2	450.0	445.9	443.9	437.8	437.8
35°	568.7	558.5	519.6	472.5	458.2	466.4	491.0	499.1	468.5	439.8	435.7
37.5°	636.2	634.1	603.5	568.7	542.1	538.0	564.6	572.8	540.0	521.6	519.6
40°	707.8	711.9	718.0	703.7	662.8	650.5	636.2	626.0	626.0	628.0	623.9
42.5°	803.9	810.1	810.1	812.1	779.4	750.8	722.1	705.7	703.7	720.1	726.2
45°	932.8	932.8	918.5	889.9	875.5	855.1	836.7	820.3	812.1	814.2	820.3
47.5°	990.1	994.2	981.9	941.0	930.8	910.3	883.7	877.6	881.7	887.8	889.9
50°	1190.6	1180.3	1096.5	1010.5	979.9	1000.3	1039.2	1049.4	1010.5	971.7	961.5
52.5°	1542.4	1540.4	1474.9	1411.5	1368.5	1356.3	1409.4	1413.5	1346.0	1317.4	1313.3
55°	2152.0	2129.5	2178.6	2209.3	2119.3	2019.0	1982.2	1931.1	1935.2	1992.5	1994.5
57.5°	3017.3	3029.6	3084.8	3005.0	2868.0	2794.3	2743.2	2647.1	2649.1	2700.2	2704.3
60°	4115.8	4113.8	3937.9	3631.0	3420.3	3434.6	3575.8	3596.2	3377.4	3236.2	3219.8
62.5°	4600.6	4578.1	4432.9	4060.6	3704.7	3698.5	3954.2	3987.0	3835.6	3647.4	3610.6
65°	4234.5	4216.1	4277.4	4150.6	3682.2	3561.5	3639.2	3631.0	3727.2	3813.1	3823.3
67.5°	3770.1	3774.2	3921.5	3882.6	3557.4	3352.8	3254.6	3242.3	3422.4	3622.8	3649.4
70°	3459.2	3459.2	3563.5	3406.0	3250.5	3117.6	3015.3	2951.9	3068.5	3101.2	3099.1
72.5°	3299.6	3285.3	3211.7	3060.3	2941.6	2825.0	2855.7	2808.7	2753.4	2667.5	2659.3
75°	3015.3	2998.9	2896.6	2825.0	2739.1	2593.9	2620.5	2573.4	2481.4	2403.6	2391.4
77.5°	2491.6	2491.6	2426.1	2372.9	2348.4	2223.6	2211.3	2188.8	2096.8	2053.8	2037.5
80°	1783.8	1779.7	1753.1	1734.7	1765.4	1691.7	1659.0	1659.0	1622.2	1583.3	1564.9
82.5°	1061.7	1047.4	1047.4	1053.5	1035.1	988.0	996.2	1043.3	1039.2	1016.7	1000.3
85°	628.0	619.8	613.7	605.5	589.1	556.4	556.4	560.5	564.6	566.6	558.5
87.5°	419.4	417.3	417.3	417.3	398.9	376.4	386.6	392.8	388.7	386.6	384.6
90°	366.2	368.2	366.2	358.0	341.6	321.2	325.3	333.4	329.3	329.3	327.3
92.5°	329.3	329.3	325.3	317.1	300.7	282.3	284.3	288.4	286.4	284.3	282.3
95°	270.0	270.0	265.9	259.8	245.5	229.1	231.2	235.2	231.2	231.2	229.1
97.5°	210.7	210.7	208.7	204.6	192.3	180.0	182.1	184.1	182.1	182.1	180.0
100°	159.6	159.6	157.5	151.4	145.2	135.0	137.1	141.1	139.1	139.1	137.1
102.5°	118.6	118.6	116.6	114.6	106.4	100.2	102.3	102.3	102.3	100.2	100.2
105°	92.1	92.1	92.1	88.0	83.9	77.7	77.7	77.7	77.7	75.7	75.7
107.5°	73.6	71.6	71.6	69.6	65.5	61.4	61.4	61.4	61.4	61.4	61.4
110°	59.3	57.3	55.2	55.2	51.1	49.1	47.0	49.1	49.1	49.1	49.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	51.1	49.1	45.0	45.0	43.0	38.9	38.9	38.9	43.0	40.9	40.9
115°	45.0	43.0	36.8	36.8	34.8	32.7	32.7	32.7	36.8	32.7	32.7
117.5°	38.9	36.8	30.7	30.7	28.6	26.6	26.6	26.6	30.7	26.6	26.6
120°	28.6	28.6	24.5	24.5	24.5	22.5	22.5	22.5	24.5	22.5	22.5
122.5°	22.5	22.5	20.5	20.5	20.5	18.4	18.4	18.4	18.4	16.4	16.4
125°	22.5	26.6	16.4	16.4	14.3	14.3	14.3	12.3	14.3	12.3	12.3
127.5°	24.5	22.5	12.3	12.3	12.3	10.2	10.2	10.2	10.2	10.2	10.2
130°	8.2	12.3	8.2	8.2	8.2	8.2	8.2	8.2	6.1	6.1	6.1
132.5°	6.1	6.1	6.1	6.1	6.1	6.1	4.1	4.1	4.1	4.1	4.1
135°	4.1	4.1	4.1	4.1	4.1	4.1	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)