

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: P588433

Luminaire Tested: **ARC-CA6-130-740-U-55-6-5-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588433  
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-CA6-130-740-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**

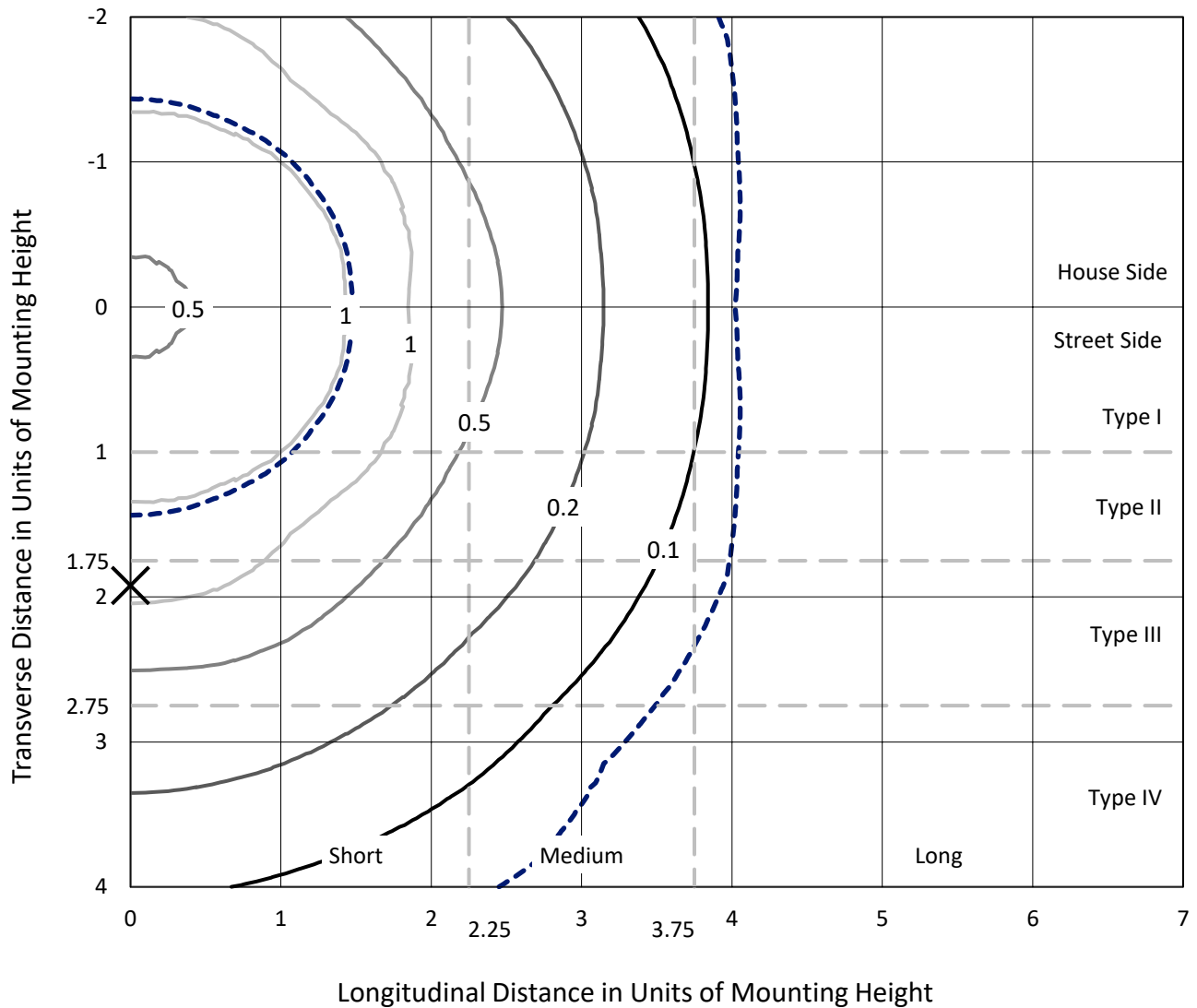
Lumens per Lamp: N/A  
Luminaire Lumens: 11540 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U3 - G3  
  
Input Watts (W): 124.3  
Input Voltage (V): 120  
Input 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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 CATALOG NUMBER: ARC-CA6-130-740-U-55-6-5-X

### Iso-Footcandle Lines of Horizontal Illumination

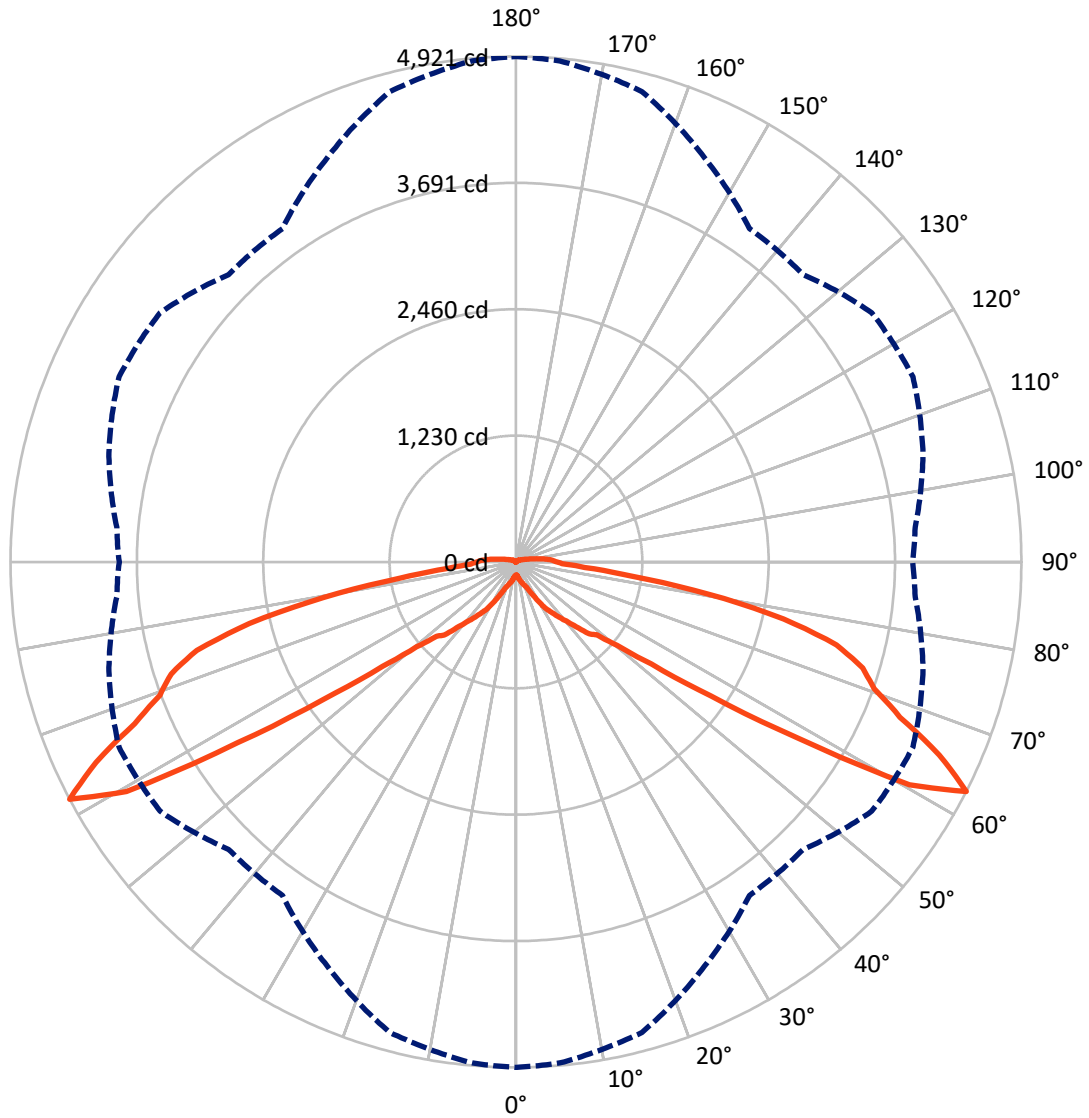
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.4 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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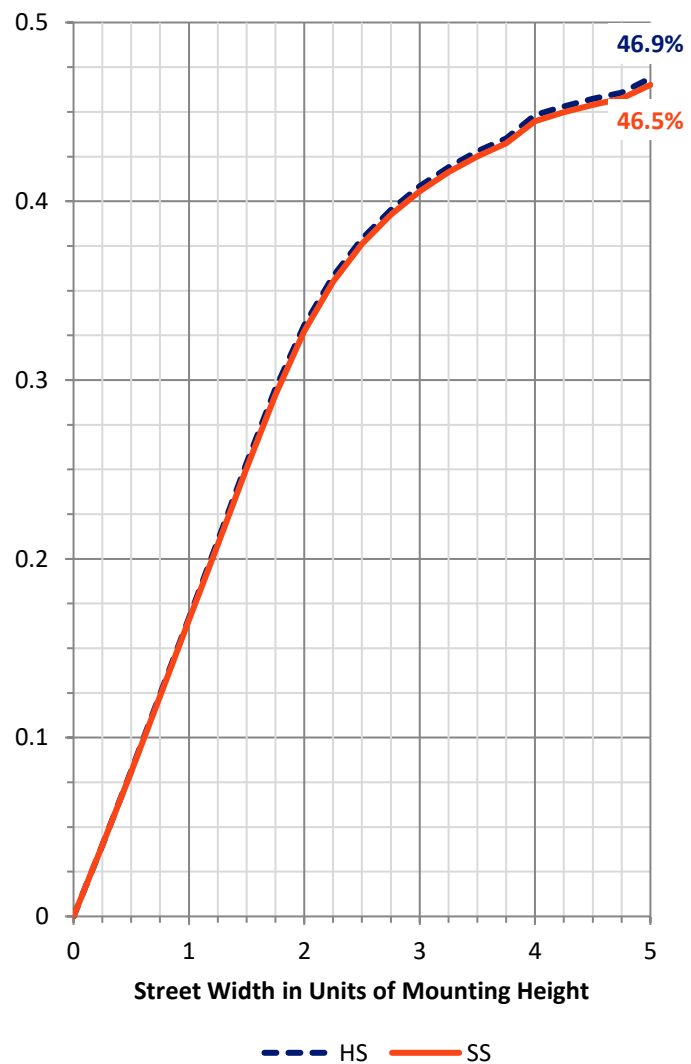
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5548.3	221.8	5770.0
	% Fixture	48.1	1.9	50.0
<b>Street Side</b>	Lumens	5548.3	221.8	5770.0
	% Fixture	48.1	1.9	50.0
<b>Total</b>	Lumens	11096.5	443.5	11540.0
	% Fixture	96.2	3.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.8	0.1
10°-20°	58.1	0.5
20°-30°	153.4	1.3
30°-40°	349.1	3.0
40°-50°	706.0	6.1
50°-60°	2090.0	18.1
60°-70°	3926.5	34.0
70°-80°	2918.6	25.3
80°-90°	881.0	7.6
90°-100°	285.9	2.5
100°-110°	100.2	0.9
110°-120°	38.7	0.3
120°-130°	15.3	0.1
130°-140°	3.1	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.2	0.0
170°-180°	0.2	0.0
0°-90°	11096.5	96.2
0°-180°	11540.0	100.0



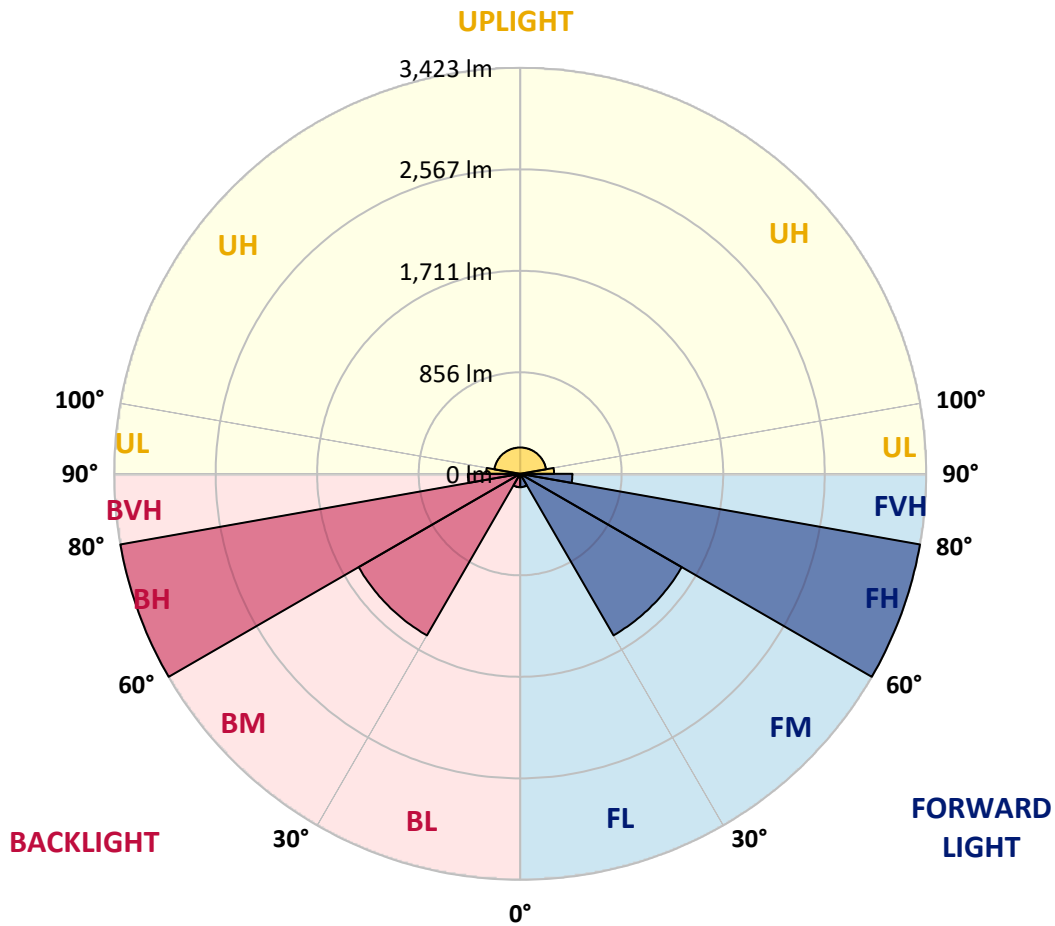
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 CATALOG NUMBER: ARC-CA6-130-740-U-55-6-5-X

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	112.6	1.0			
FM (30°-60°)	1572.5	13.6			
FH (60°-80°)	3422.5	29.7			G2/5000
FVH (80°-90°)	440.5	3.8			G3/500
BL (0°-30°)	112.6	1.0	B1/500		
BM (30°-60°)	1572.5	13.6	B2/2500		
BH (60°-80°)	3422.5	29.7	B4/5000		G2/5000
BVH (80°-90°)	440.5	3.8			G3/500
UL (90°-100°)	285.9	2.5		U3/500	
UH (100°-180°)	221.8	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°	126.9	126.9	126.9	126.9	126.9	126.9	126.9	126.9	126.9	126.9	126.9
2.5°	129.1	129.1	129.1	126.9	124.7	124.7	124.7	124.7	122.5	122.5	122.5
5°	135.7	135.7	133.5	131.3	131.3	129.1	131.3	129.1	129.1	129.1	131.3
7.5°	151.0	151.0	148.8	148.8	148.8	146.6	146.6	146.6	146.6	144.4	146.6
10°	168.5	168.5	168.5	168.5	168.5	166.3	166.3	164.1	164.1	164.1	164.1
12.5°	188.2	186.0	186.0	188.2	186.0	183.8	183.8	183.8	181.6	181.6	181.6
15°	205.7	205.7	203.5	203.5	203.5	201.3	201.3	199.1	199.1	196.9	196.9
17.5°	223.2	223.2	221.0	218.8	218.8	218.8	216.6	216.6	214.4	214.4	214.4
20°	245.1	242.9	240.7	238.5	236.3	236.3	236.3	236.3	234.1	231.9	231.9
22.5°	269.1	266.9	264.8	262.6	262.6	260.4	260.4	258.2	258.2	256.0	253.8
25°	319.5	319.5	310.7	308.5	308.5	310.7	308.5	306.3	301.9	295.4	295.4
27.5°	387.3	389.5	391.7	402.6	400.4	385.1	376.3	372.0	369.8	369.8	372.0
30°	463.9	466.1	472.6	483.6	477.0	457.3	435.4	426.7	433.2	442.0	444.2
32.5°	544.8	544.8	531.7	516.4	501.1	487.9	481.4	477.0	474.8	468.2	468.2
35°	608.3	597.3	555.8	505.4	490.1	498.9	525.1	533.9	501.1	470.4	466.1
37.5°	680.5	678.3	645.5	608.3	579.8	575.5	603.9	612.6	577.6	557.9	555.8
40°	757.1	761.4	768.0	752.7	708.9	695.8	680.5	669.5	669.5	671.7	667.4
42.5°	859.9	866.5	866.5	868.6	833.6	803.0	772.4	754.9	752.7	770.2	776.8
45°	997.7	997.7	982.4	951.8	936.5	914.6	894.9	877.4	868.6	870.8	877.4
47.5°	1059.0	1063.4	1050.3	1006.5	995.6	973.7	945.2	938.7	943.0	949.6	951.8
50°	1273.4	1262.5	1172.8	1080.9	1048.1	1069.9	1111.5	1122.5	1080.9	1039.3	1028.4
52.5°	1649.8	1647.6	1577.6	1509.7	1463.8	1450.7	1507.6	1511.9	1439.7	1409.1	1404.7
55°	2301.8	2277.7	2330.3	2363.1	2266.8	2159.6	2120.2	2065.5	2069.9	2131.1	2133.3
57.5°	3227.4	3240.5	3299.6	3214.2	3067.6	2988.9	2934.2	2831.3	2833.5	2888.2	2892.6
60°	4402.3	4400.1	4212.0	3883.8	3658.4	3673.7	3824.7	3846.6	3612.4	3461.5	3444.0
62.5°	4920.9	4896.8	4741.5	4343.2	3962.5	3956.0	4229.5	4264.5	4102.6	3901.3	3861.9
65°	4529.2	4509.5	4575.2	4439.5	3938.5	3809.4	3892.5	3883.8	3986.6	4078.5	4089.4
67.5°	4032.5	4036.9	4194.5	4152.9	3805.0	3586.2	3481.2	3468.0	3660.6	3875.0	3903.5
70°	3700.0	3700.0	3811.6	3643.1	3476.8	3334.6	3225.2	3157.3	3282.1	3317.1	3314.9
72.5°	3529.3	3514.0	3435.2	3273.3	3146.4	3021.7	3054.5	3004.2	2945.1	2853.2	2844.4
75°	3225.2	3207.7	3098.3	3021.7	2929.8	2774.4	2802.9	2752.5	2654.1	2570.9	2557.8
77.5°	2665.0	2665.0	2595.0	2538.1	2511.9	2378.4	2365.3	2341.2	2242.7	2196.8	2179.3
80°	1908.0	1903.6	1875.1	1855.5	1888.3	1809.5	1774.5	1774.5	1735.1	1693.5	1673.8
82.5°	1135.6	1120.3	1120.3	1126.8	1107.1	1056.8	1065.6	1115.9	1111.5	1087.5	1069.9
85°	671.7	663.0	656.4	647.7	630.2	595.1	595.1	599.5	603.9	606.1	597.3
87.5°	448.5	446.4	446.4	446.4	426.7	402.6	413.5	420.1	415.7	413.5	411.4
90°	391.7	393.8	391.7	382.9	365.4	343.5	347.9	356.6	352.3	352.3	350.1
92.5°	352.3	352.3	347.9	339.1	321.6	301.9	304.1	308.5	306.3	304.1	301.9
95°	288.8	288.8	284.4	277.9	262.6	245.1	247.2	251.6	247.2	247.2	245.1
97.5°	225.4	225.4	223.2	218.8	205.7	192.5	194.7	196.9	194.7	194.7	192.5
100°	170.7	170.7	168.5	161.9	155.4	144.4	146.6	151.0	148.8	148.8	146.6
102.5°	126.9	126.9	124.7	122.5	113.8	107.2	109.4	109.4	109.4	107.2	107.2
105°	98.5	98.5	98.5	94.1	89.7	83.1	83.1	83.1	83.1	81.0	81.0
107.5°	78.8	76.6	76.6	74.4	70.0	65.6	65.6	65.6	65.6	65.6	65.6
110°	63.5	61.3	59.1	59.1	54.7	52.5	50.3	52.5	52.5	52.5	52.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	54.7	52.5	48.1	48.1	45.9	41.6	41.6	41.6	45.9	43.8	43.8
115°	48.1	45.9	39.4	39.4	37.2	35.0	35.0	35.0	39.4	35.0	35.0
117.5°	41.6	39.4	32.8	32.8	30.6	28.4	28.4	28.4	32.8	28.4	28.4
120°	30.6	30.6	26.3	26.3	26.3	24.1	24.1	24.1	26.3	24.1	24.1
122.5°	24.1	24.1	21.9	21.9	21.9	19.7	19.7	19.7	19.7	17.5	17.5
125°	24.1	28.4	17.5	17.5	15.3	15.3	15.3	13.1	15.3	13.1	13.1
127.5°	26.3	24.1	13.1	13.1	13.1	10.9	10.9	10.9	10.9	10.9	10.9
130°	8.8	13.1	8.8	8.8	8.8	8.8	8.8	8.8	6.6	6.6	6.6
132.5°	6.6	6.6	6.6	6.6	6.6	6.6	4.4	4.4	4.4	4.4	4.4
135°	4.4	4.4	4.4	4.4	4.4	4.4	2.2	2.2	2.2	2.2	2.2
137.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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	2.2	2.2	2.2	2.2	2.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2
170°	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
172.5°	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
175°	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2
177.5°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
180°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)