

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: P588477

Luminaire Tested: **ARC-CA6-60-730-U-55-6-5-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588477  
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-CA6-60-730-U-55-6-5-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR  
Light Source: (6) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

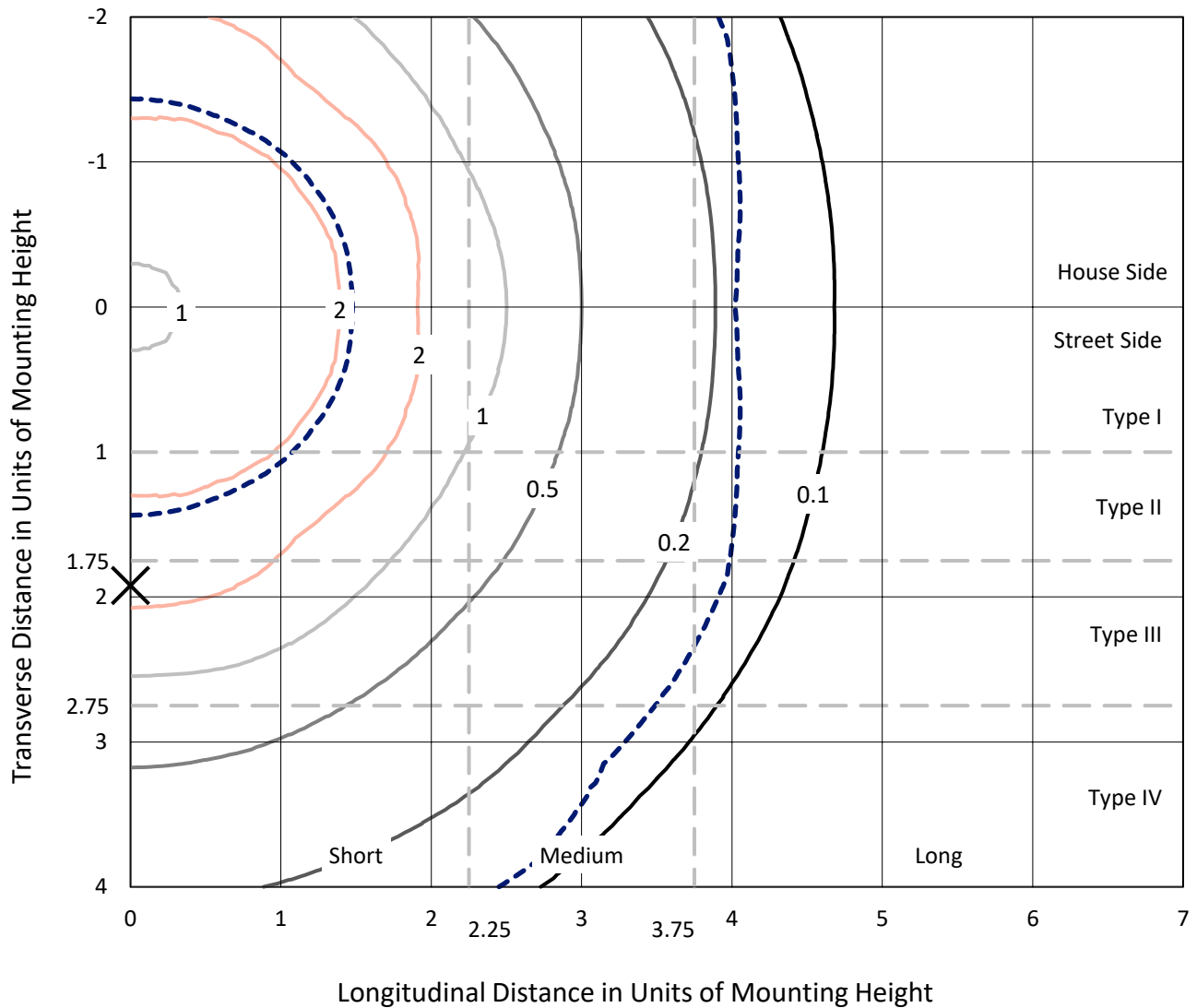
Lumens per Lamp: N/A  
Luminaire Lumens: 6045 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U3 - G3  
  
Input Watts (W): 64.3  
Input Voltage (V): 120  
Input Current (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

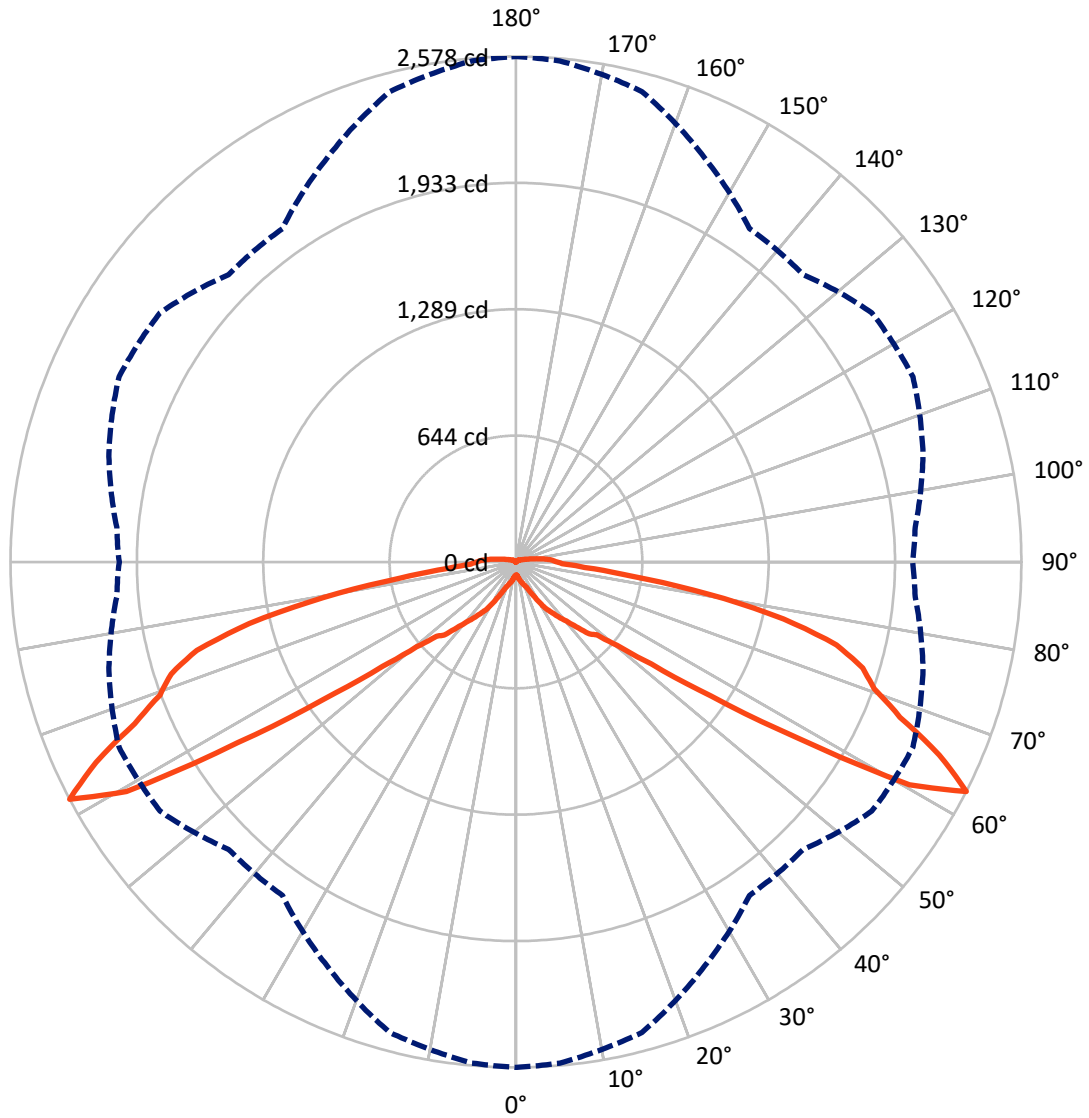
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.9 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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CATALOG NUMBER: ARC-CA6-60-730-U-55-6-5-X

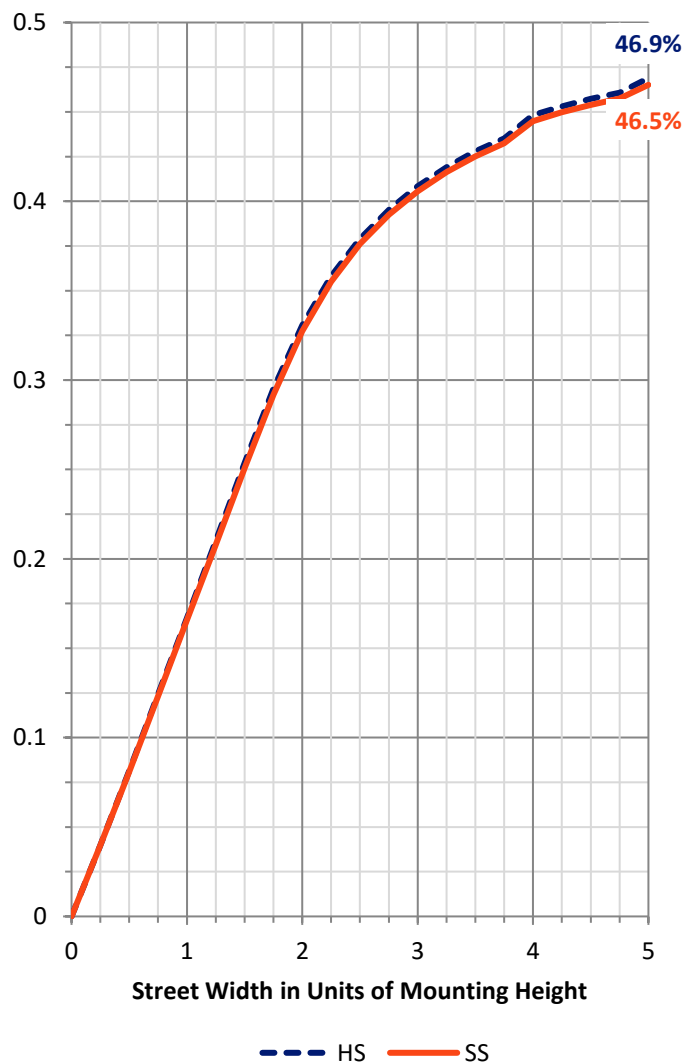
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2906.3	116.2	3022.5
	% Fixture	48.1	1.9	50.0
<b>Street Side</b>	Lumens	2906.3	116.2	3022.5
	% Fixture	48.1	1.9	50.0
<b>Total</b>	Lumens	5812.7	232.3	6045.0
	% Fixture	96.2	3.8	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.2	0.1
10°-20°	30.4	0.5
20°-30°	80.4	1.3
30°-40°	182.8	3.0
40°-50°	369.8	6.1
50°-60°	1094.8	18.1
60°-70°	2056.8	34.0
70°-80°	1528.8	25.3
80°-90°	461.5	7.6
90°-100°	149.8	2.5
100°-110°	52.5	0.9
110°-120°	20.3	0.3
120°-130°	8.0	0.1
130°-140°	1.6	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°	5812.7	96.2
0°-180°	6045.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P588477

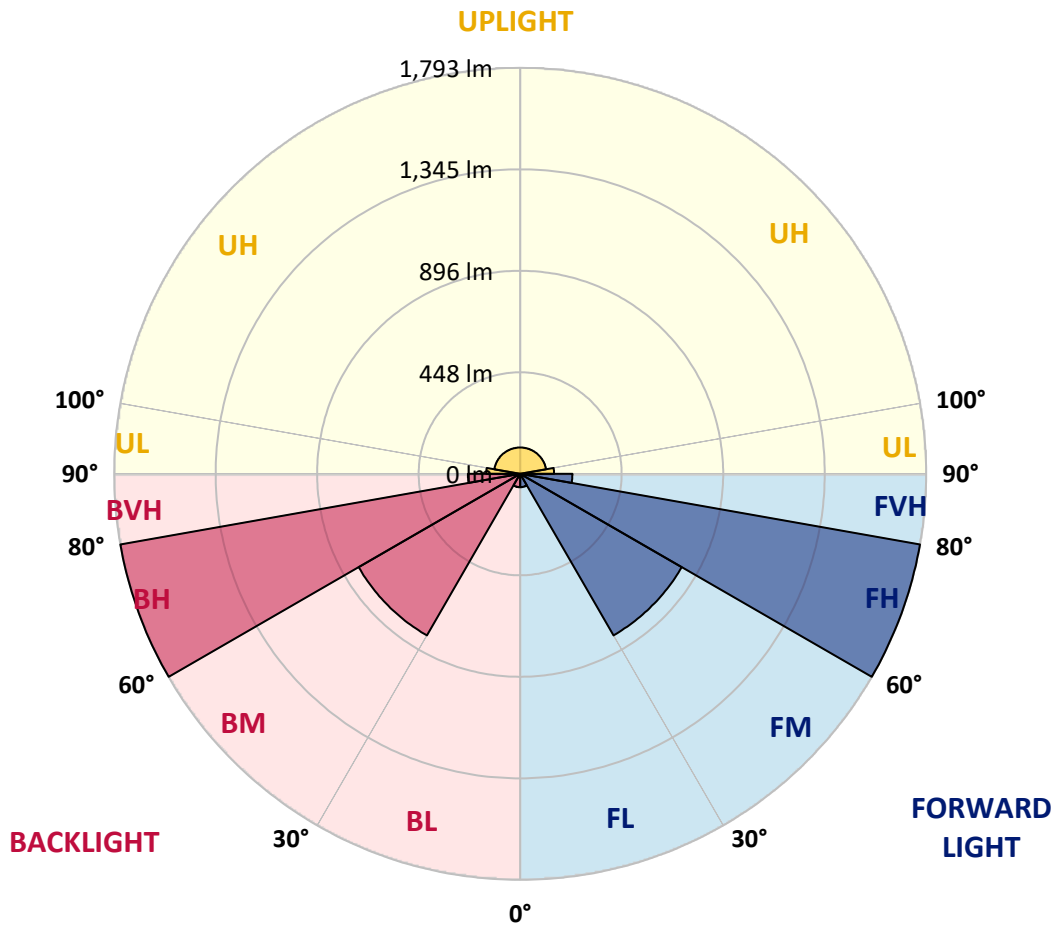
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	59.0	1.0			
FM (30°-60°)	823.7	13.6			
FH (60°-80°)	1792.8	29.7			G1/1800
FVH (80°-90°)	230.8	3.8			G3/500
BL (0°-30°)	59.0	1.0	B0/110		
BM (30°-60°)	823.7	13.6	B1/1000		
BH (60°-80°)	1792.8	29.7	B3/2500		G1/1800
BVH (80°-90°)	230.8	3.8			G3/500
UL (90°-100°)	149.8	2.5		U3/500	
UH (100°-180°)	116.2	1.9		U3/500	

**BUG Rating: B3-U3-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
2.5°	67.6	67.6	67.6	66.5	65.3	65.3	65.3	65.3	64.2	64.2	64.2
5°	71.1	71.1	69.9	68.8	68.8	67.6	68.8	67.6	67.6	67.6	68.8
7.5°	79.1	79.1	77.9	77.9	77.9	76.8	76.8	76.8	76.8	75.6	76.8
10°	88.3	88.3	88.3	88.3	88.3	87.1	87.1	86.0	86.0	86.0	86.0
12.5°	98.6	97.4	97.4	98.6	97.4	96.3	96.3	96.3	95.1	95.1	95.1
15°	107.7	107.7	106.6	106.6	106.6	105.4	105.4	104.3	104.3	103.2	103.2
17.5°	116.9	116.9	115.8	114.6	114.6	114.6	113.5	113.5	112.3	112.3	112.3
20°	128.4	127.2	126.1	124.9	123.8	123.8	123.8	123.8	122.6	121.5	121.5
22.5°	141.0	139.8	138.7	137.5	137.5	136.4	136.4	135.2	135.2	134.1	133.0
25°	167.3	167.3	162.8	161.6	161.6	162.8	161.6	160.5	158.2	154.7	154.7
27.5°	202.9	204.0	205.2	210.9	209.7	201.7	197.1	194.8	193.7	193.7	194.8
30°	243.0	244.1	247.6	253.3	249.9	239.5	228.1	223.5	226.9	231.5	232.7
32.5°	285.4	285.4	278.5	270.5	262.5	255.6	252.2	249.9	248.7	245.3	245.3
35°	318.6	312.9	291.1	264.8	256.7	261.3	275.1	279.7	262.5	246.4	244.1
37.5°	356.5	355.3	338.1	318.6	303.7	301.4	316.3	320.9	302.6	292.3	291.1
40°	396.6	398.9	402.3	394.3	371.4	364.5	356.5	350.7	350.7	351.9	349.6
42.5°	450.4	453.9	453.9	455.0	436.7	420.6	404.6	395.4	394.3	403.4	406.9
45°	522.6	522.6	514.6	498.6	490.6	479.1	468.8	459.6	455.0	456.2	459.6
47.5°	554.7	557.0	550.2	527.2	521.5	510.0	495.1	491.7	494.0	497.4	498.6
50°	667.1	661.3	614.3	566.2	549.0	560.5	582.2	588.0	566.2	544.4	538.7
52.5°	864.2	863.1	826.4	790.8	766.8	759.9	789.7	792.0	754.2	738.1	735.8
55°	1205.8	1193.2	1220.7	1237.9	1187.4	1131.3	1110.6	1082.0	1084.3	1116.4	1117.5
57.5°	1690.6	1697.5	1728.4	1683.7	1606.9	1565.7	1537.0	1483.1	1484.3	1512.9	1515.2
60°	2306.1	2304.9	2206.4	2034.4	1916.4	1924.4	2003.5	2014.9	1892.3	1813.2	1804.1
62.5°	2577.7	2565.1	2483.7	2275.1	2075.7	2072.3	2215.5	2233.9	2149.0	2043.6	2023.0
65°	2372.5	2362.2	2396.6	2325.6	2063.1	1995.5	2039.0	2034.4	2088.3	2136.4	2142.2
67.5°	2112.4	2114.7	2197.2	2175.4	1993.2	1878.6	1823.5	1816.7	1917.5	2029.8	2044.7
70°	1938.2	1938.2	1996.6	1908.4	1821.2	1746.7	1689.4	1653.9	1719.2	1737.6	1736.4
72.5°	1848.8	1840.7	1799.5	1714.7	1648.2	1582.8	1600.0	1573.7	1542.7	1494.6	1490.0
75°	1689.4	1680.3	1623.0	1582.8	1534.7	1453.3	1468.2	1441.9	1390.3	1346.7	1339.9
77.5°	1396.0	1396.0	1359.3	1329.5	1315.8	1245.9	1239.0	1226.4	1174.8	1150.7	1141.6
80°	999.5	997.2	982.3	971.9	989.1	947.9	929.5	929.5	908.9	887.1	876.8
82.5°	594.9	586.8	586.8	590.3	580.0	553.6	558.2	584.5	582.2	569.6	560.5
85°	351.9	347.3	343.8	339.3	330.1	311.8	311.8	314.0	316.3	317.5	312.9
87.5°	235.0	233.8	233.8	233.8	223.5	210.9	216.6	220.1	217.8	216.6	215.5
90°	205.2	206.3	205.2	200.6	191.4	179.9	182.2	186.8	184.5	184.5	183.4
92.5°	184.5	184.5	182.2	177.7	168.5	158.2	159.3	161.6	160.5	159.3	158.2
95°	151.3	151.3	149.0	145.6	137.5	128.4	129.5	131.8	129.5	129.5	128.4
97.5°	118.1	118.1	116.9	114.6	107.7	100.9	102.0	103.2	102.0	102.0	100.9
100°	89.4	89.4	88.3	84.8	81.4	75.6	76.8	79.1	77.9	77.9	76.8
102.5°	66.5	66.5	65.3	64.2	59.6	56.2	57.3	57.3	57.3	56.2	56.2
105°	51.6	51.6	51.6	49.3	47.0	43.6	43.6	43.6	43.6	42.4	42.4
107.5°	41.3	40.1	40.1	39.0	36.7	34.4	34.4	34.4	34.4	34.4	34.4
110°	33.2	32.1	30.9	30.9	28.7	27.5	26.4	27.5	27.5	27.5	27.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	28.7	27.5	25.2	25.2	24.1	21.8	21.8	21.8	24.1	22.9	22.9
115°	25.2	24.1	20.6	20.6	19.5	18.3	18.3	18.3	20.6	18.3	18.3
117.5°	21.8	20.6	17.2	17.2	16.0	14.9	14.9	14.9	17.2	14.9	14.9
120°	16.0	16.0	13.8	13.8	13.8	12.6	12.6	12.6	13.8	12.6	12.6
122.5°	12.6	12.6	11.5	11.5	11.5	10.3	10.3	10.3	10.3	9.2	9.2
125°	12.6	14.9	9.2	9.2	8.0	8.0	8.0	6.9	8.0	6.9	6.9
127.5°	13.8	12.6	6.9	6.9	6.9	5.7	5.7	5.7	5.7	5.7	5.7
130°	4.6	6.9	4.6	4.6	4.6	4.6	4.6	4.6	3.4	3.4	3.4
132.5°	3.4	3.4	3.4	3.4	3.4	3.4	2.3	2.3	2.3	2.3	2.3
135°	2.3	2.3	2.3	2.3	2.3	2.3	1.1	1.1	1.1	1.1	1.1
137.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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	1.1	1.1	1.1	1.1	1.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
170°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
172.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
175°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
177.5°	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
180°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

(END OF REPORT)