

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: P588501

Luminaire Tested: **ARC-CA6-70-730-U-55-6-5-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588501  
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-CA6-70-730-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**

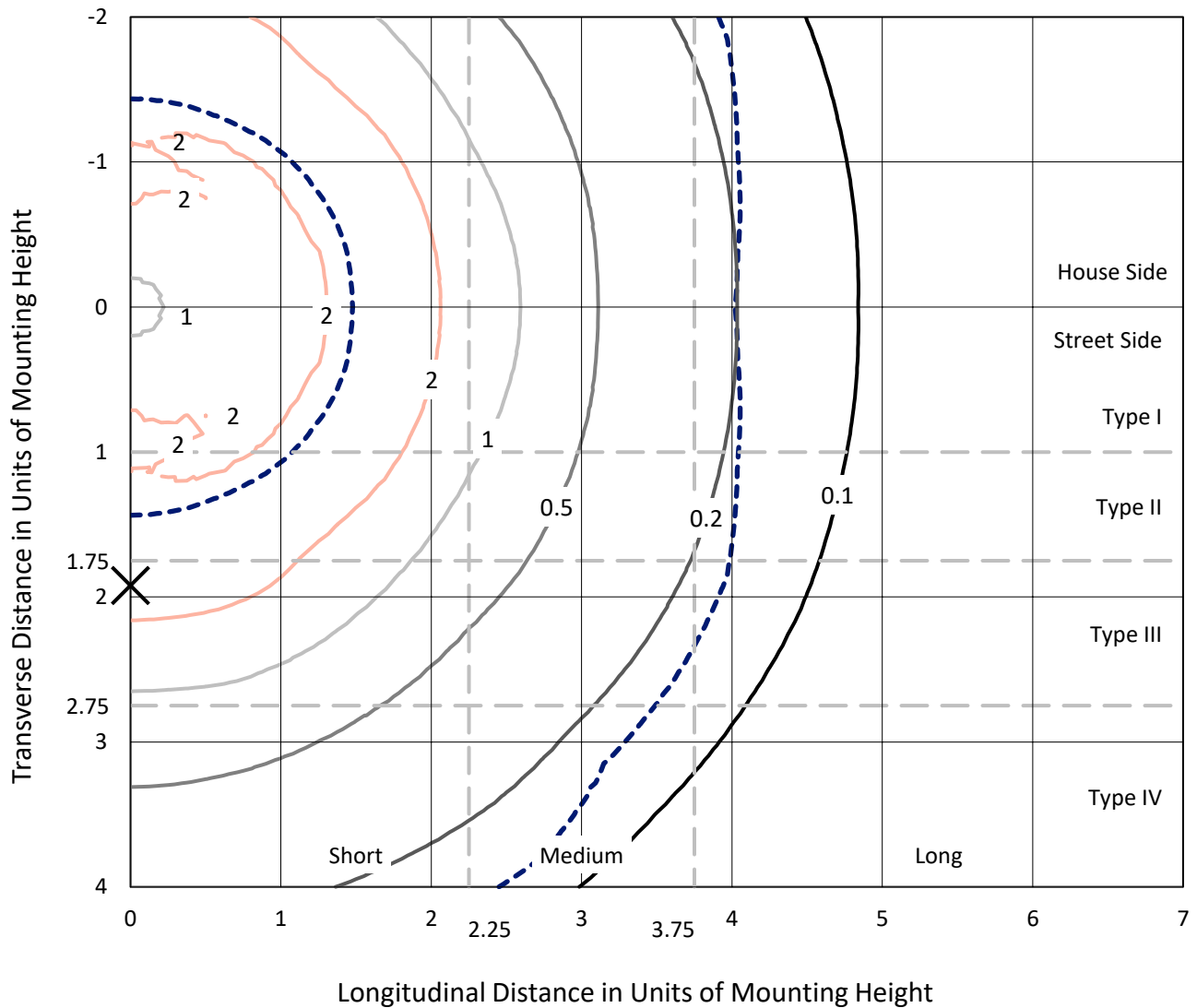
Lumens per Lamp: N/A  
Luminaire Lumens: 6912 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U3 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): 120  
Input Current (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



REPORT NUMBER: P588501  
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### Iso-Footcandle Lines of Horizontal Illumination

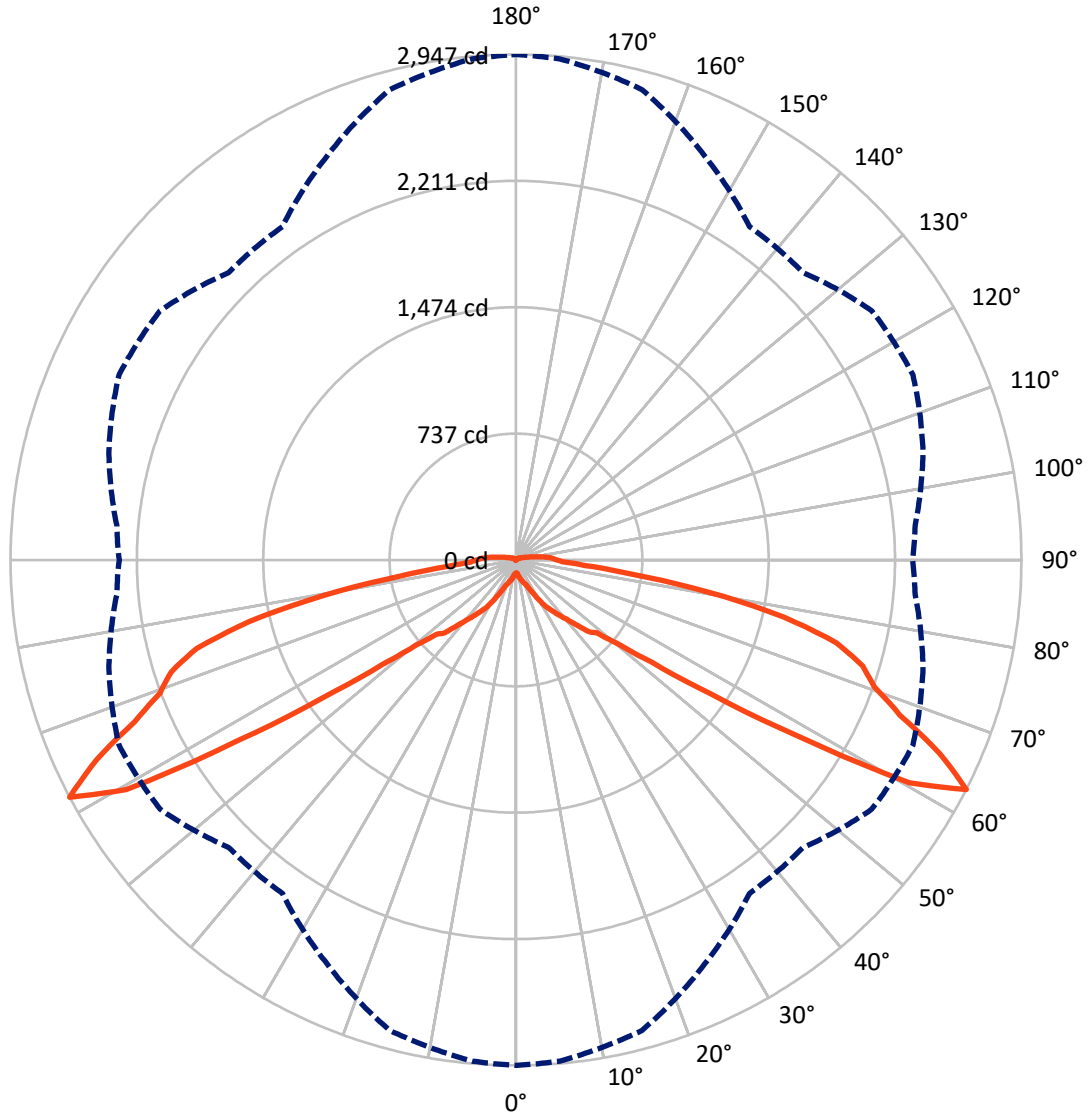
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 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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CATALOG NUMBER: ARC-CA6-70-730-U-55-6-5-X

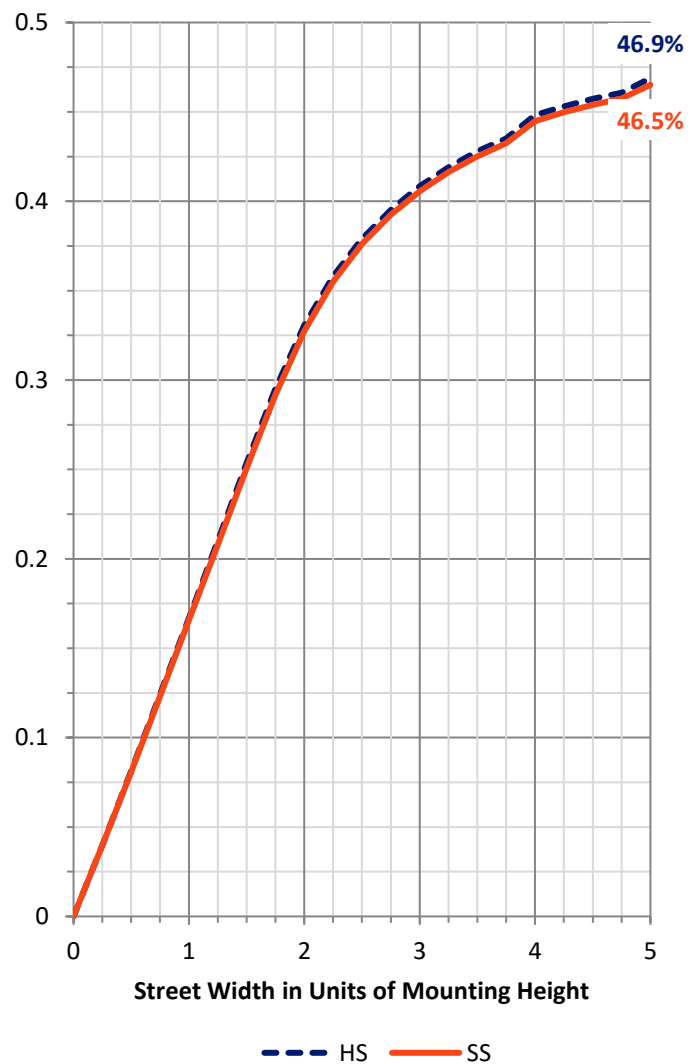
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3323.2	132.8	3456.0
	% Fixture	48.1	1.9	50.0
<b>Street Side</b>	Lumens	3323.2	132.8	3456.0
	% Fixture	48.1	1.9	50.0
<b>Total</b>	Lumens	6646.4	265.6	6912.0
	% Fixture	96.2	3.8	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.2	0.1
10°-20°	34.8	0.5
20°-30°	91.9	1.3
30°-40°	209.1	3.0
40°-50°	422.9	6.1
50°-60°	1251.8	18.1
60°-70°	2351.8	34.0
70°-80°	1748.1	25.3
80°-90°	527.7	7.6
90°-100°	171.2	2.5
100°-110°	60.0	0.9
110°-120°	23.2	0.3
120°-130°	9.2	0.1
130°-140°	1.8	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°	6646.4	96.2
0°-180°	6912.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P588501

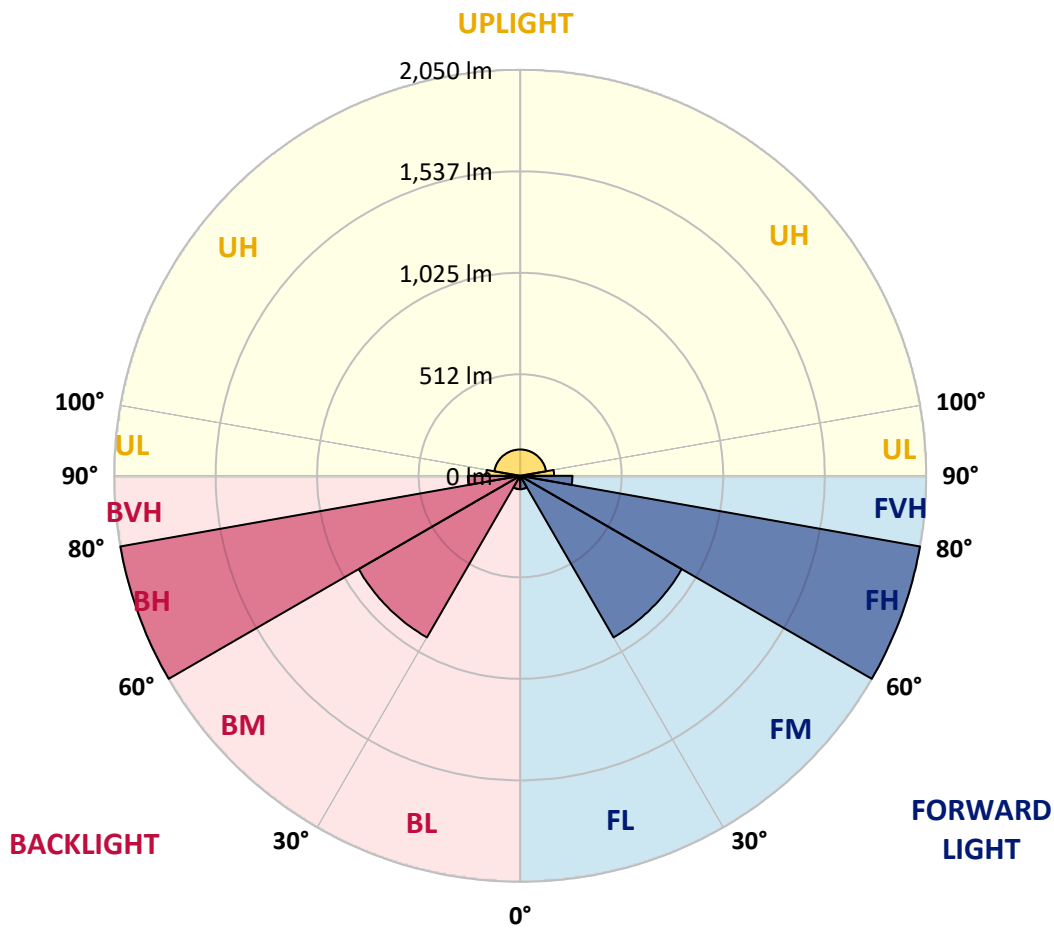
CATALOG NUMBER: ARC-CA6-70-730-U-55-6-5-X

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	67.5	1.0			
FM (30°-60°)	941.9	13.6			
FH (60°-80°)	2050.0	29.7			G2/5000
FVH (80°-90°)	263.9	3.8			G3/500
BL (0°-30°)	67.5	1.0	B0/110		
BM (30°-60°)	941.9	13.6	B1/1000		
BH (60°-80°)	2050.0	29.7	B3/2500		G2/5000
BVH (80°-90°)	263.9	3.8			G3/500
UL (90°-100°)	171.2	2.5		U3/500	
UH (100°-180°)	132.8	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°	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
2.5°	77.3	77.3	77.3	76.0	74.7	74.7	74.7	74.7	73.4	73.4	73.4
5°	81.3	81.3	79.9	78.6	78.6	77.3	78.6	77.3	77.3	77.3	78.6
7.5°	90.4	90.4	89.1	89.1	89.1	87.8	87.8	87.8	87.8	86.5	87.8
10°	100.9	100.9	100.9	100.9	100.9	99.6	99.6	98.3	98.3	98.3	98.3
12.5°	112.7	111.4	111.4	112.7	111.4	110.1	110.1	110.1	108.8	108.8	108.8
15°	123.2	123.2	121.9	121.9	121.9	120.6	120.6	119.3	119.3	117.9	117.9
17.5°	133.7	133.7	132.4	131.1	131.1	131.1	129.7	129.7	128.4	128.4	128.4
20°	146.8	145.5	144.2	142.8	141.5	141.5	141.5	141.5	140.2	138.9	138.9
22.5°	161.2	159.9	158.6	157.3	157.3	156.0	156.0	154.6	154.6	153.3	152.0
25°	191.3	191.3	186.1	184.8	184.8	186.1	184.8	183.5	180.9	176.9	176.9
27.5°	232.0	233.3	234.6	241.1	239.8	230.7	225.4	222.8	221.5	221.5	222.8
30°	277.8	279.1	283.1	289.6	285.7	273.9	260.8	255.6	259.5	264.7	266.0
32.5°	326.3	326.3	318.5	309.3	300.1	292.3	288.3	285.7	284.4	280.5	280.5
35°	364.3	357.8	332.9	302.7	293.6	298.8	314.5	319.8	300.1	281.8	279.1
37.5°	407.6	406.3	386.6	364.3	347.3	344.7	361.7	367.0	346.0	334.2	332.9
40°	453.4	456.1	460.0	450.8	424.6	416.8	407.6	401.0	401.0	402.3	399.7
42.5°	515.0	519.0	519.0	520.3	499.3	481.0	462.6	452.1	450.8	461.3	465.2
45°	597.6	597.6	588.4	570.1	560.9	547.8	536.0	525.5	520.3	521.6	525.5
47.5°	634.3	636.9	629.1	602.9	596.3	583.2	566.2	562.2	564.8	568.8	570.1
50°	762.7	756.2	702.5	647.4	627.8	640.9	665.8	672.3	647.4	622.5	616.0
52.5°	988.2	986.8	944.9	904.3	876.8	868.9	903.0	905.6	862.3	844.0	841.4
55°	1378.7	1364.3	1395.7	1415.4	1357.7	1293.5	1269.9	1237.2	1239.8	1276.5	1277.8
57.5°	1933.1	1940.9	1976.3	1925.2	1837.4	1790.2	1757.4	1695.8	1697.2	1729.9	1732.5
60°	2636.8	2635.5	2522.8	2326.2	2191.2	2200.4	2290.8	2303.9	2163.7	2073.3	2062.8
62.5°	2947.4	2933.0	2840.0	2601.4	2373.4	2369.5	2533.3	2554.3	2457.3	2336.7	2313.1
65°	2712.8	2701.0	2740.4	2659.1	2359.0	2281.7	2331.5	2326.2	2387.8	2442.9	2449.4
67.5°	2415.3	2418.0	2512.3	2487.4	2279.0	2148.0	2085.1	2077.2	2192.5	2321.0	2338.0
70°	2216.1	2216.1	2283.0	2182.1	2082.5	1997.3	1931.7	1891.1	1965.8	1986.8	1985.5
72.5°	2113.9	2104.7	2057.6	1960.6	1884.6	1809.9	1829.5	1799.4	1764.0	1709.0	1703.7
75°	1931.7	1921.3	1855.7	1809.9	1754.8	1661.8	1678.8	1648.7	1589.7	1539.9	1532.0
77.5°	1596.2	1596.2	1554.3	1520.2	1504.5	1424.6	1416.7	1402.3	1343.3	1315.8	1305.3
80°	1142.8	1140.2	1123.1	1111.3	1131.0	1083.8	1062.9	1062.9	1039.3	1014.4	1002.6
82.5°	680.2	671.0	671.0	674.9	663.1	633.0	638.2	668.4	665.8	651.3	640.9
85°	402.3	397.1	393.2	387.9	377.4	356.5	356.5	359.1	361.7	363.0	357.8
87.5°	268.7	267.4	267.4	267.4	255.6	241.1	247.7	251.6	249.0	247.7	246.4
90°	234.6	235.9	234.6	229.3	218.9	205.8	208.4	213.6	211.0	211.0	209.7
92.5°	211.0	211.0	208.4	203.1	192.7	180.9	182.2	184.8	183.5	182.2	180.9
95°	173.0	173.0	170.4	166.4	157.3	146.8	148.1	150.7	148.1	148.1	146.8
97.5°	135.0	135.0	133.7	131.1	123.2	115.3	116.6	117.9	116.6	116.6	115.3
100°	102.2	102.2	100.9	97.0	93.0	86.5	87.8	90.4	89.1	89.1	87.8
102.5°	76.0	76.0	74.7	73.4	68.1	64.2	65.5	65.5	65.5	64.2	64.2
105°	59.0	59.0	59.0	56.4	53.7	49.8	49.8	49.8	49.8	48.5	48.5
107.5°	47.2	45.9	45.9	44.6	41.9	39.3	39.3	39.3	39.3	39.3	39.3
110°	38.0	36.7	35.4	35.4	32.8	31.5	30.1	31.5	31.5	31.5	31.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	32.8	31.5	28.8	28.8	27.5	24.9	24.9	24.9	27.5	26.2	26.2
115°	28.8	27.5	23.6	23.6	22.3	21.0	21.0	21.0	23.6	21.0	21.0
117.5°	24.9	23.6	19.7	19.7	18.3	17.0	17.0	17.0	19.7	17.0	17.0
120°	18.3	18.3	15.7	15.7	15.7	14.4	14.4	14.4	15.7	14.4	14.4
122.5°	14.4	14.4	13.1	13.1	13.1	11.8	11.8	11.8	11.8	10.5	10.5
125°	14.4	17.0	10.5	10.5	9.2	9.2	9.2	7.9	9.2	7.9	7.9
127.5°	15.7	14.4	7.9	7.9	7.9	6.6	6.6	6.6	6.6	6.6	6.6
130°	5.2	7.9	5.2	5.2	5.2	5.2	5.2	5.2	3.9	3.9	3.9
132.5°	3.9	3.9	3.9	3.9	3.9	3.9	2.6	2.6	2.6	2.6	2.6
135°	2.6	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3
137.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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	1.3	1.3	1.3	1.3	1.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3
170°	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3
172.5°	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
175°	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
177.5°	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)