

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: P588409

Luminaire Tested: **ARC-CA6-120-740-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588409
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-CA6-120-740-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: 11100 lumens
Efficiency: N/A
Efficacy: 93.0 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

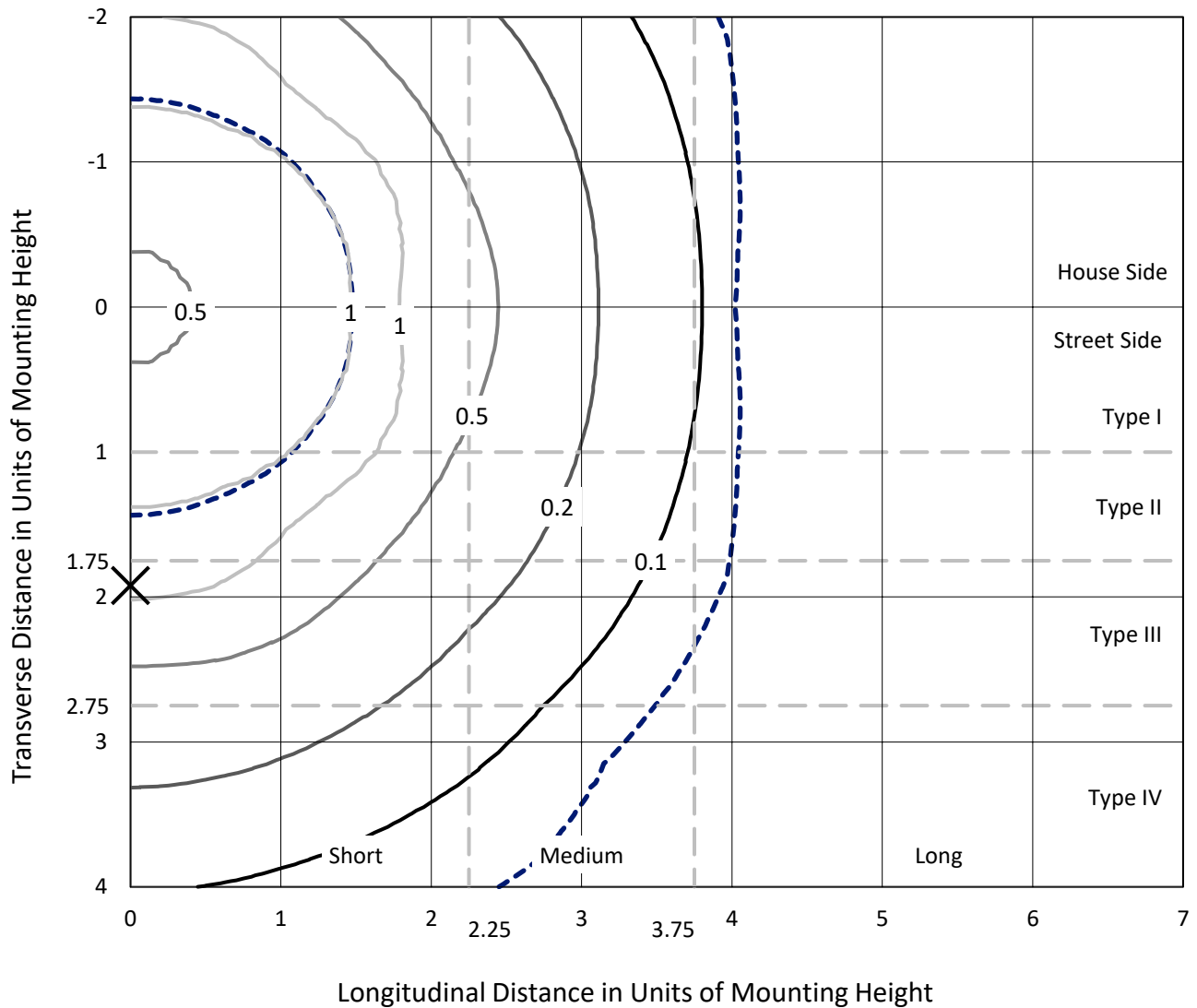
Input Watts (W): 119.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

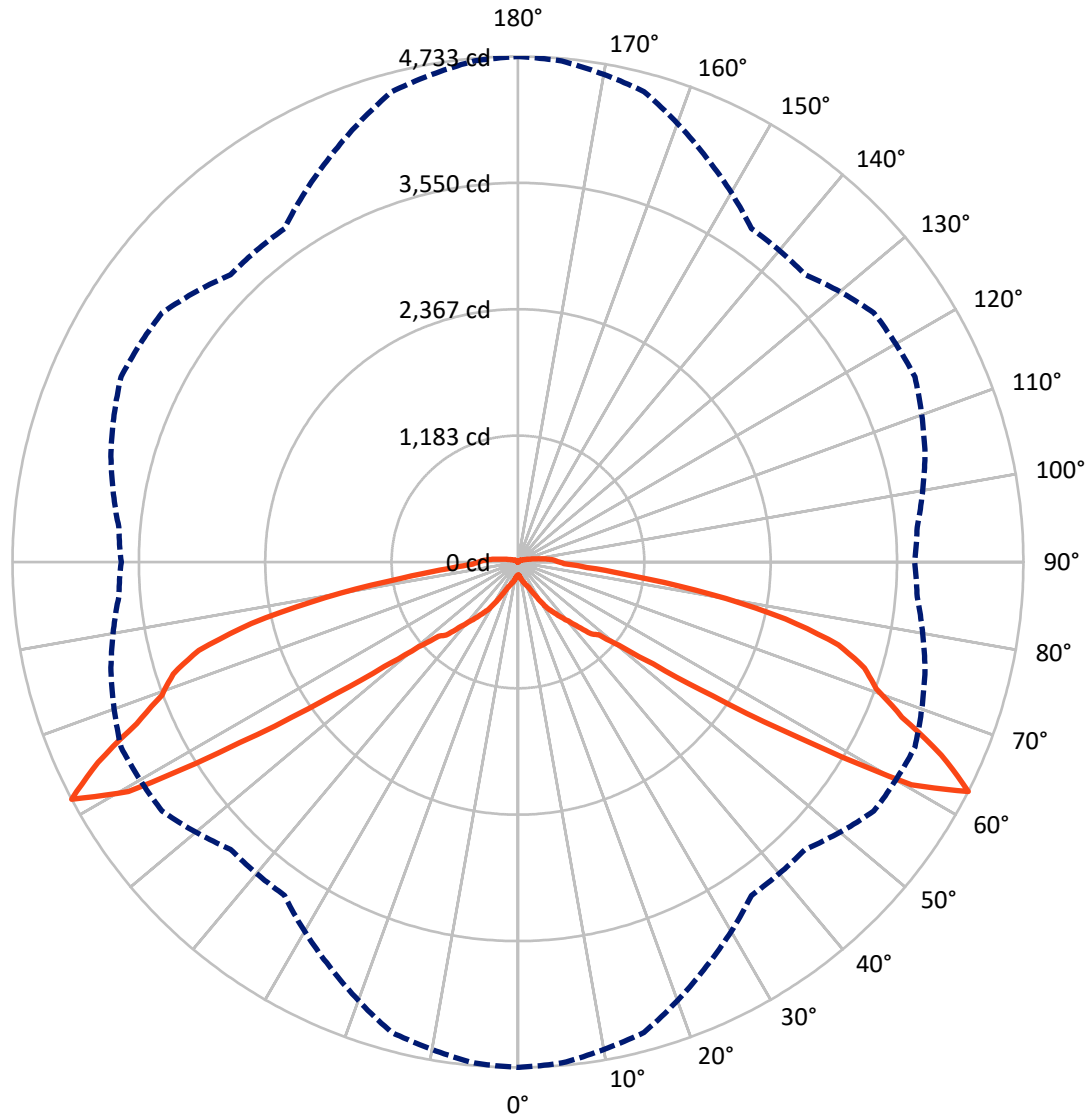
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.3 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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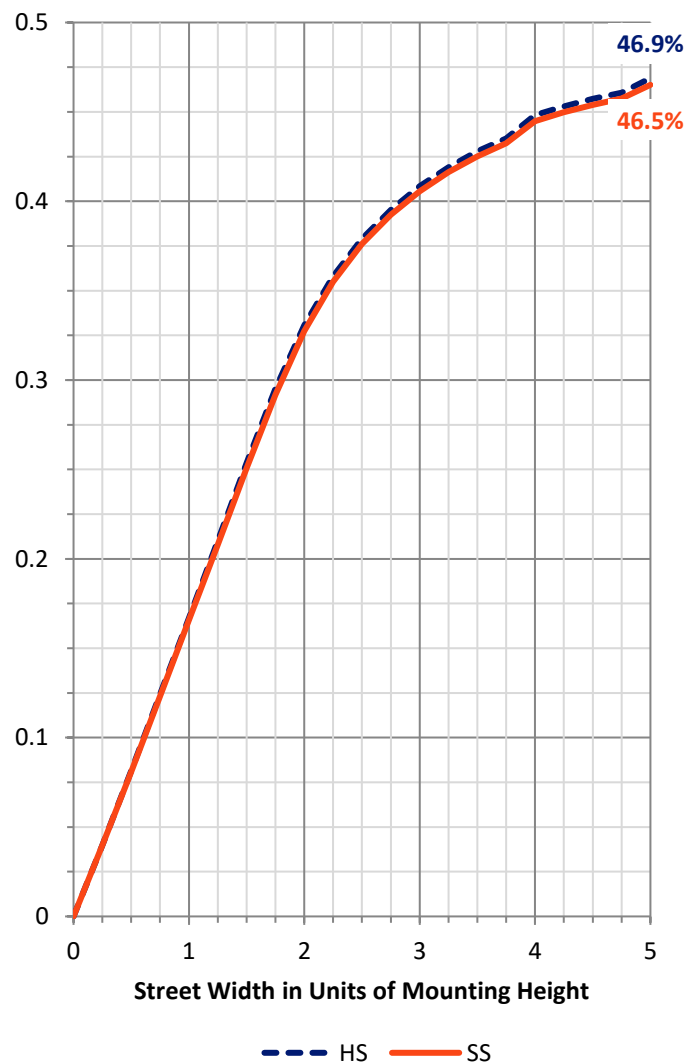
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5336.7	213.3	5550.0
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	5336.7	213.3	5550.0
	% Fixture	48.1	1.9	50.0
Total	Lumens	10673.4	426.6	11100.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	0.1
10°-20°	55.9	0.5
20°-30°	147.6	1.3
30°-40°	335.7	3.0
40°-50°	679.1	6.1
50°-60°	2010.3	18.1
60°-70°	3776.8	34.0
70°-80°	2807.3	25.3
80°-90°	847.5	7.6
90°-100°	275.0	2.5
100°-110°	96.4	0.9
110°-120°	37.3	0.3
120°-130°	14.7	0.1
130°-140°	3.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-90°	10673.4	96.2
0°-180°	11100.0	100.0

Coefficient of Utilization



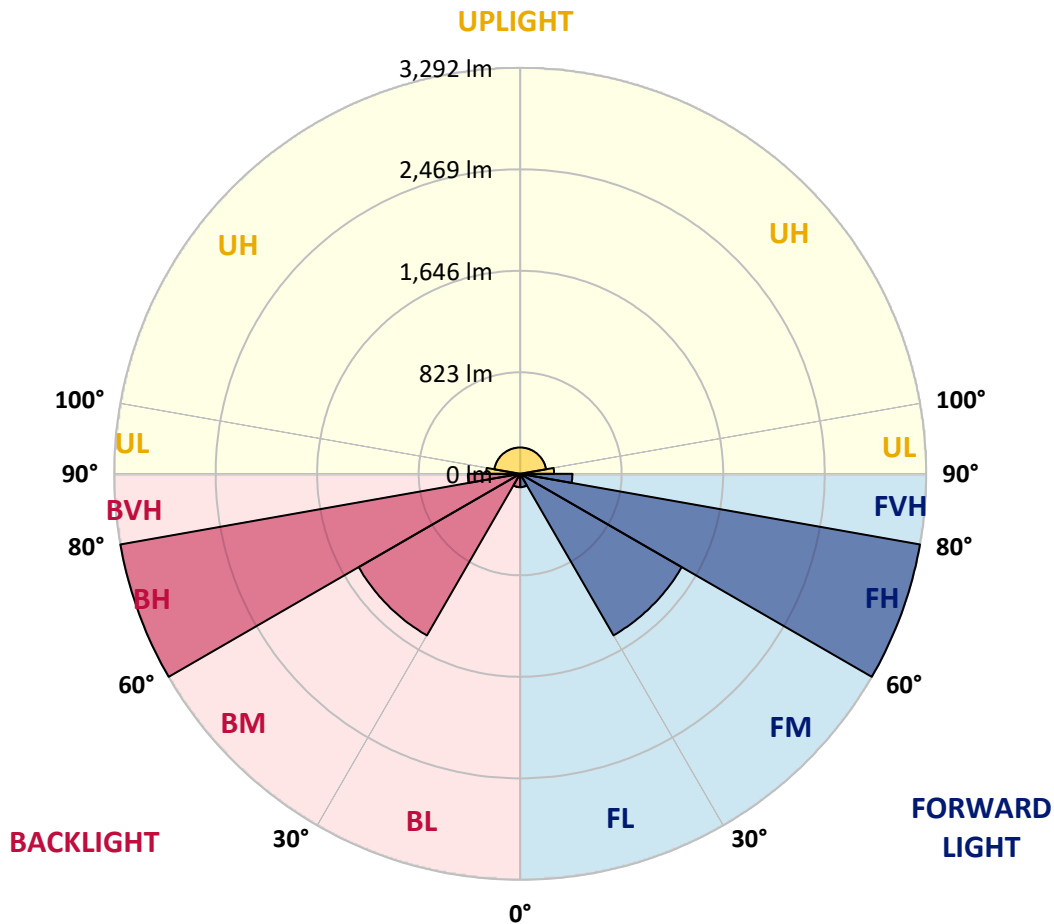
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	108.4	1.0			
FM (30°-60°)	1512.6	13.6			
FH (60°-80°)	3292.0	29.7			G2/5000
FVH (80°-90°)	423.7	3.8			G3/500
BL (0°-30°)	108.4	1.0	B0/110		
BM (30°-60°)	1512.6	13.6	B2/2500		
BH (60°-80°)	3292.0	29.7	B4/5000		G2/5000
BVH (80°-90°)	423.7	3.8			G3/500
UL (90°-100°)	275.0	2.5		U3/500	
UH (100°-180°)	213.3	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°	122.1	122.1	122.1	122.1	122.1	122.1	122.1	122.1	122.1	122.1	122.1
2.5°	124.2	124.2	124.2	122.1	120.0	120.0	120.0	120.0	117.9	117.9	117.9
5°	130.5	130.5	128.4	126.3	126.3	124.2	126.3	124.2	124.2	124.2	126.3
7.5°	145.2	145.2	143.1	143.1	143.1	141.0	141.0	141.0	141.0	138.9	141.0
10°	162.1	162.1	162.1	162.1	162.1	160.0	160.0	157.8	157.8	157.8	157.8
12.5°	181.0	178.9	178.9	181.0	178.9	176.8	176.8	176.8	174.7	174.7	174.7
15°	197.8	197.8	195.7	195.7	195.7	193.6	193.6	191.5	191.5	189.4	189.4
17.5°	214.7	214.7	212.6	210.5	210.5	210.5	208.4	208.4	206.3	206.3	206.3
20°	235.7	233.6	231.5	229.4	227.3	227.3	227.3	227.3	225.2	223.1	223.1
22.5°	258.9	256.8	254.7	252.6	252.6	250.4	250.4	248.3	248.3	246.2	244.1
25°	307.3	307.3	298.9	296.7	296.7	298.9	296.7	294.6	290.4	284.1	284.1
27.5°	372.5	374.6	376.7	387.2	385.1	370.4	362.0	357.8	355.7	355.7	357.8
30°	446.2	448.3	454.6	465.1	458.8	439.9	418.8	410.4	416.7	425.1	427.2
32.5°	524.0	524.0	511.4	496.7	482.0	469.3	463.0	458.8	456.7	450.4	450.4
35°	585.1	574.6	534.6	486.2	471.4	479.9	505.1	513.5	482.0	452.5	448.3
37.5°	654.5	652.4	620.9	585.1	557.7	553.5	580.9	589.3	555.6	536.7	534.6
40°	728.2	732.4	738.7	724.0	681.9	669.3	654.5	644.0	644.0	646.1	641.9
42.5°	827.1	833.4	833.4	835.5	801.9	772.4	742.9	726.1	724.0	740.8	747.1
45°	959.7	959.7	945.0	915.5	900.8	879.7	860.8	843.9	835.5	837.6	843.9
47.5°	1018.6	1022.8	1010.2	968.1	957.6	936.6	909.2	902.9	907.1	913.4	915.5
50°	1224.9	1214.4	1128.1	1039.7	1008.1	1029.2	1069.1	1079.7	1039.7	999.7	989.2
52.5°	1586.9	1584.8	1517.4	1452.2	1408.0	1395.4	1450.1	1454.3	1384.8	1355.4	1351.2
55°	2214.0	2190.9	2241.4	2273.0	2180.4	2077.2	2039.4	1986.8	1991.0	2049.9	2052.0
57.5°	3104.3	3116.9	3173.8	3091.7	2950.7	2874.9	2822.3	2723.4	2725.5	2778.1	2782.3
60°	4234.5	4232.4	4051.4	3735.7	3518.9	3533.6	3678.9	3699.9	3474.7	3329.5	3312.7
62.5°	4733.3	4710.1	4560.7	4177.6	3811.4	3805.1	4068.2	4101.9	3946.1	3752.5	3714.6
65°	4356.5	4337.6	4400.7	4270.3	3788.3	3664.1	3744.1	3735.7	3834.6	3923.0	3933.5
67.5°	3878.8	3883.0	4034.5	3994.5	3659.9	3449.5	3348.4	3335.8	3521.0	3727.3	3754.6
70°	3558.9	3558.9	3666.2	3504.2	3344.2	3207.4	3102.2	3037.0	3156.9	3190.6	3188.5
72.5°	3394.7	3380.0	3304.2	3148.5	3026.4	2906.5	2938.0	2889.6	2832.8	2744.4	2736.0
75°	3102.2	3085.4	2980.1	2906.5	2818.1	2668.6	2696.0	2647.6	2552.9	2472.9	2460.3
77.5°	2563.4	2563.4	2496.1	2441.3	2416.1	2287.7	2275.1	2251.9	2157.2	2113.0	2096.2
80°	1835.2	1831.0	1803.7	1784.7	1816.3	1740.5	1706.8	1706.8	1669.0	1629.0	1610.0
82.5°	1092.3	1077.6	1077.6	1083.9	1064.9	1016.5	1024.9	1073.4	1069.1	1046.0	1029.2
85°	646.1	637.7	631.4	623.0	606.1	572.5	572.5	576.7	580.9	583.0	574.6
87.5°	431.4	429.3	429.3	429.3	410.4	387.2	397.8	404.1	399.9	397.8	395.7
90°	376.7	378.8	376.7	368.3	351.5	330.4	334.6	343.1	338.8	338.8	336.7
92.5°	338.8	338.8	334.6	326.2	309.4	290.4	292.5	296.7	294.6	292.5	290.4
95°	277.8	277.8	273.6	267.3	252.6	235.7	237.8	242.0	237.8	237.8	235.7
97.5°	216.8	216.8	214.7	210.5	197.8	185.2	187.3	189.4	187.3	187.3	185.2
100°	164.2	164.2	162.1	155.7	149.4	138.9	141.0	145.2	143.1	143.1	141.0
102.5°	122.1	122.1	120.0	117.9	109.4	103.1	105.2	105.2	105.2	103.1	103.1
105°	94.7	94.7	94.7	90.5	86.3	80.0	80.0	80.0	80.0	77.9	77.9
107.5°	75.8	73.7	73.7	71.6	67.3	63.1	63.1	63.1	63.1	63.1	63.1
110°	61.0	58.9	56.8	56.8	52.6	50.5	48.4	50.5	50.5	50.5	50.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	52.6	50.5	46.3	46.3	44.2	40.0	40.0	40.0	44.2	42.1	42.1
115°	46.3	44.2	37.9	37.9	35.8	33.7	33.7	33.7	37.9	33.7	33.7
117.5°	40.0	37.9	31.6	31.6	29.5	27.4	27.4	27.4	31.6	27.4	27.4
120°	29.5	29.5	25.3	25.3	25.3	23.2	23.2	23.2	25.3	23.2	23.2
122.5°	23.2	23.2	21.0	21.0	21.0	18.9	18.9	18.9	18.9	16.8	16.8
125°	23.2	27.4	16.8	16.8	14.7	14.7	14.7	12.6	14.7	12.6	12.6
127.5°	25.3	23.2	12.6	12.6	12.6	10.5	10.5	10.5	10.5	10.5	10.5
130°	8.4	12.6	8.4	8.4	8.4	8.4	8.4	8.4	6.3	6.3	6.3
132.5°	6.3	6.3	6.3	6.3	6.3	6.3	4.2	4.2	4.2	4.2	4.2
135°	4.2	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	2.1
137.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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	2.1	2.1	2.1	2.1	2.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1
170°	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1
172.5°	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
175°	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1
177.5°	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
180°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)