

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: P588405

Luminaire Tested: **ARC-CA6-120-730-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588405
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-CA6-120-730-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: 10845 lumens
Efficiency: N/A
Efficacy: 90.9 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

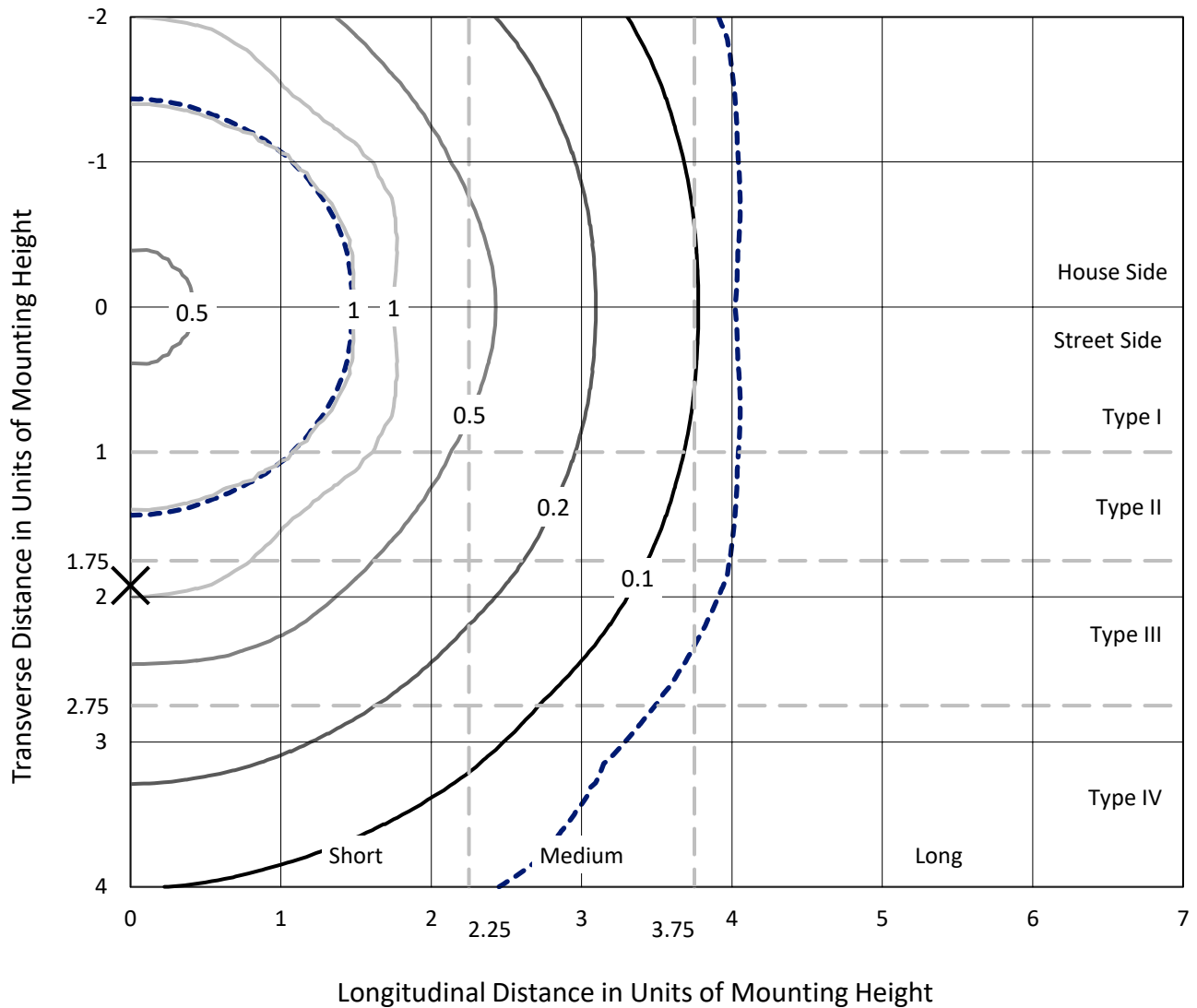
Input Watts (W): 119.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

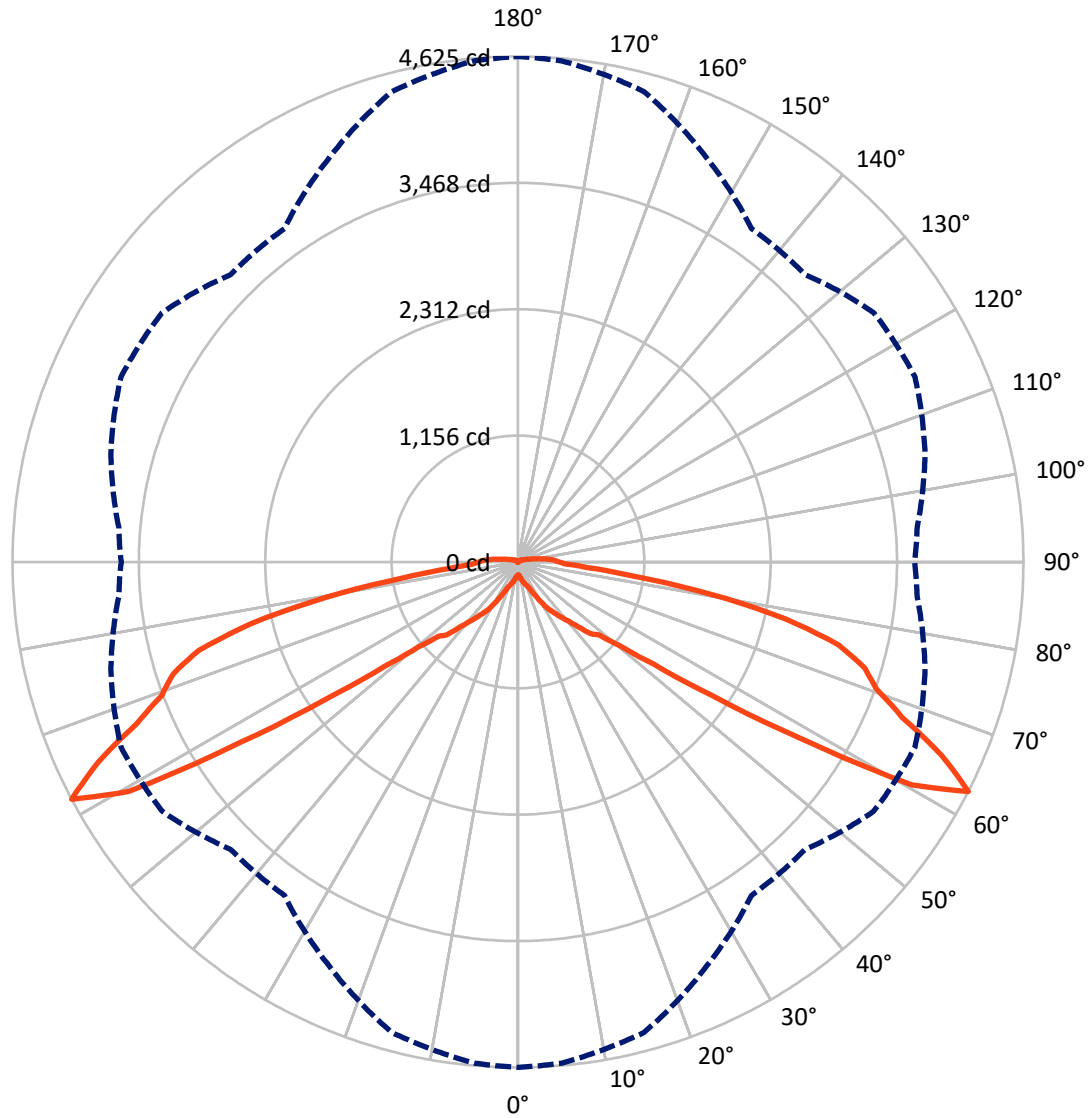
✕ Max cd
 - - - 1/2 Max cd



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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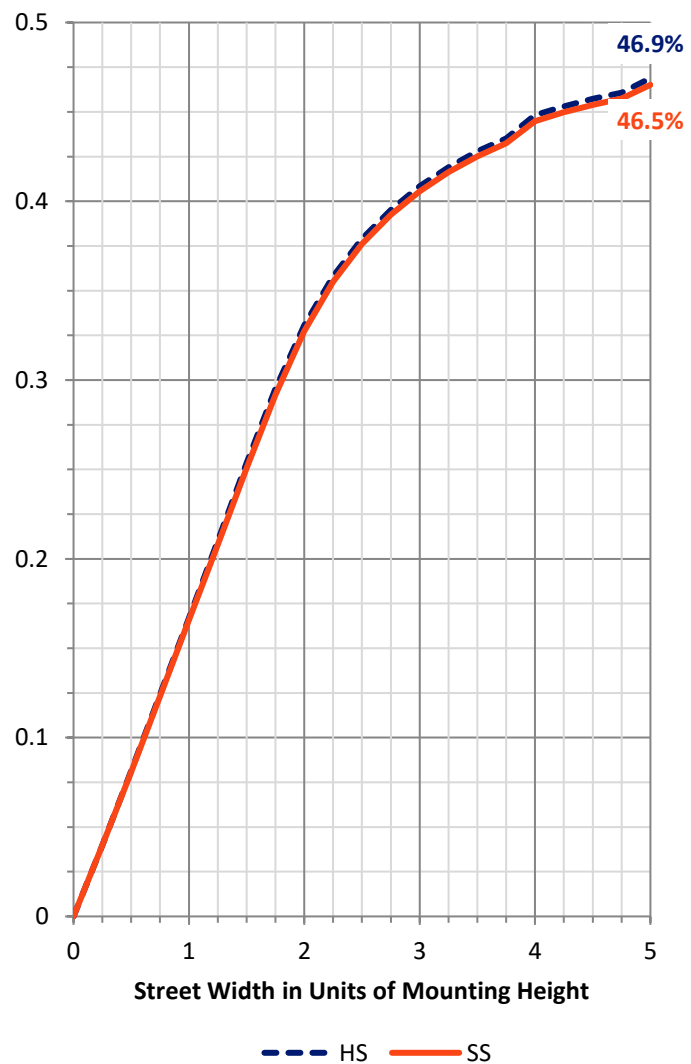
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5214.1	208.4	5422.5
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	5214.1	208.4	5422.5
	% Fixture	48.1	1.9	50.0
Total	Lumens	10428.2	416.8	10845.0
	% Fixture	96.2	3.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.9	0.1
10°-20°	54.6	0.5
20°-30°	144.2	1.3
30°-40°	328.0	3.0
40°-50°	663.5	6.1
50°-60°	1964.1	18.1
60°-70°	3690.0	34.0
70°-80°	2742.8	25.3
80°-90°	828.0	7.6
90°-100°	268.7	2.5
100°-110°	94.1	0.9
110°-120°	36.4	0.3
120°-130°	14.4	0.1
130°-140°	2.9	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°	10428.2	96.2
0°-180°	10845.0	100.0



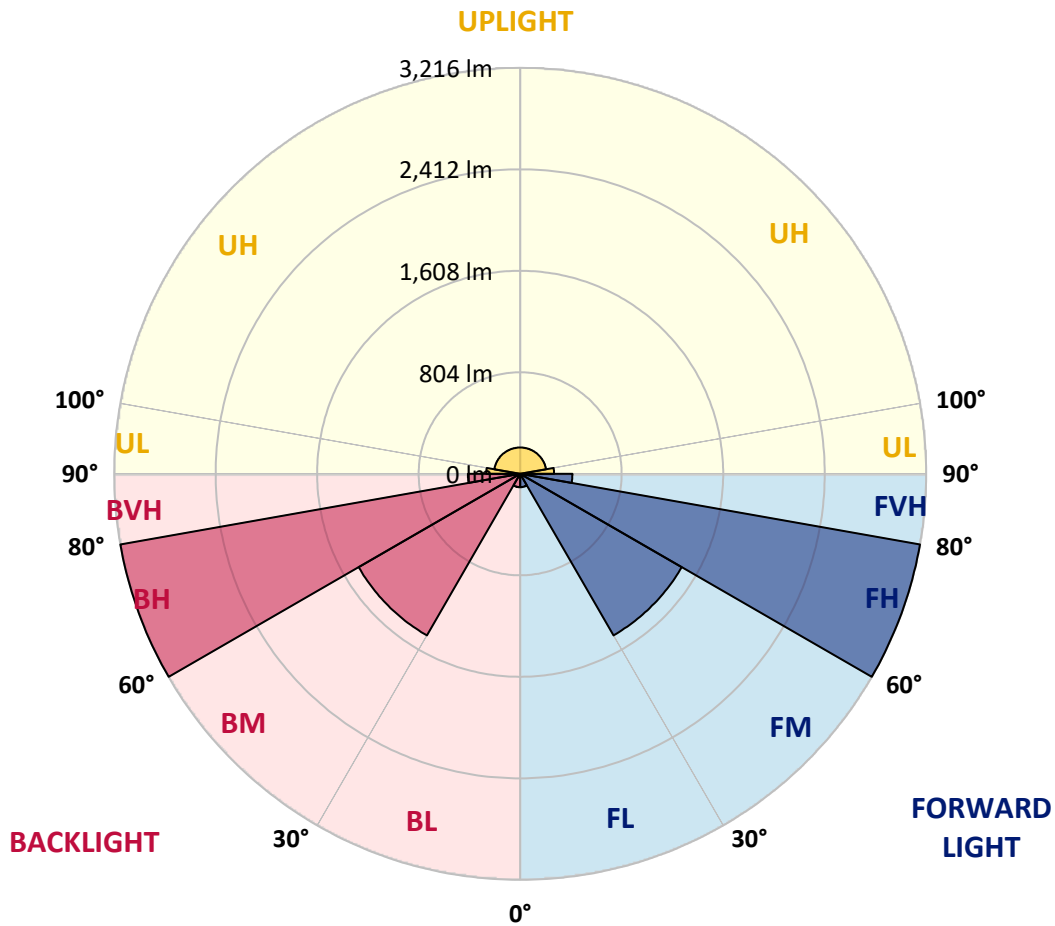
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	105.9	1.0			
FM (30°-60°)	1477.8	13.6			
FH (60°-80°)	3216.4	29.7			G2/5000
FVH (80°-90°)	414.0	3.8			G3/500
BL (0°-30°)	105.9	1.0	B0/110		
BM (30°-60°)	1477.8	13.6	B2/2500		
BH (60°-80°)	3216.4	29.7	B4/5000		G2/5000
BVH (80°-90°)	414.0	3.8			G3/500
UL (90°-100°)	268.7	2.5		U3/500	
UH (100°-180°)	208.4	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°	119.3	119.3	119.3	119.3	119.3	119.3	119.3	119.3	119.3	119.3	119.3
2.5°	121.3	121.3	121.3	119.3	117.2	117.2	117.2	117.2	115.2	115.2	115.2
5°	127.5	127.5	125.4	123.4	123.4	121.3	123.4	121.3	121.3	121.3	123.4
7.5°	141.9	141.9	139.8	139.8	139.8	137.8	137.8	137.8	137.8	135.7	137.8
10°	158.3	158.3	158.3	158.3	158.3	156.3	156.3	154.2	154.2	154.2	154.2
12.5°	176.8	174.8	174.8	176.8	174.8	172.7	172.7	172.7	170.7	170.7	170.7
15°	193.3	193.3	191.2	191.2	191.2	189.2	189.2	187.1	187.1	185.1	185.1
17.5°	209.7	209.7	207.7	205.6	205.6	205.6	203.6	203.6	201.5	201.5	201.5
20°	230.3	228.2	226.2	224.1	222.1	222.1	222.1	222.1	220.0	218.0	218.0
22.5°	252.9	250.9	248.8	246.8	246.8	244.7	244.7	242.6	242.6	240.6	238.5
25°	300.2	300.2	292.0	289.9	289.9	292.0	289.9	287.9	283.8	277.6	277.6
27.5°	364.0	366.0	368.1	378.4	376.3	361.9	353.7	349.6	347.5	347.5	349.6
30°	435.9	438.0	444.2	454.4	448.3	429.8	409.2	401.0	407.1	415.4	417.4
32.5°	512.0	512.0	499.7	485.3	470.9	458.5	452.4	448.3	446.2	440.0	440.0
35°	571.6	561.4	522.3	475.0	460.6	468.8	493.5	501.7	470.9	442.1	438.0
37.5°	639.5	637.4	606.6	571.6	544.9	540.8	567.5	575.8	542.9	524.3	522.3
40°	711.5	715.6	721.7	707.4	666.2	653.9	639.5	629.2	629.2	631.3	627.2
42.5°	808.1	814.3	814.3	816.3	783.4	754.6	725.9	709.4	707.4	723.8	730.0
45°	937.7	937.7	923.3	894.5	880.1	859.5	841.0	824.6	816.3	818.4	824.6
47.5°	995.2	999.3	987.0	945.9	935.6	915.0	888.3	882.1	886.2	892.4	894.5
50°	1196.7	1186.5	1102.2	1015.8	984.9	1005.5	1044.6	1054.9	1015.8	976.7	966.4
52.5°	1550.4	1548.4	1482.6	1418.8	1375.6	1363.3	1416.8	1420.9	1353.0	1324.2	1320.1
55°	2163.2	2140.6	2189.9	2220.8	2130.3	2029.5	1992.5	1941.1	1945.2	2002.8	2004.9
57.5°	3033.0	3045.3	3100.8	3020.6	2882.9	2808.9	2757.4	2660.8	2662.9	2714.3	2718.4
60°	4137.2	4135.1	3958.3	3649.9	3438.1	3452.5	3594.3	3614.9	3394.9	3253.0	3236.6
62.5°	4624.5	4601.9	4455.9	4081.7	3723.9	3717.7	3974.8	4007.7	3855.5	3666.3	3629.3
65°	4256.5	4238.0	4299.6	4172.2	3701.3	3579.9	3658.1	3649.9	3746.5	3832.9	3843.1
67.5°	3789.7	3793.8	3941.9	3902.8	3575.8	3370.2	3271.5	3259.2	3440.1	3641.6	3668.4
70°	3477.1	3477.1	3582.0	3423.7	3267.4	3133.7	3030.9	2967.2	3084.4	3117.3	3115.2
72.5°	3316.7	3302.4	3228.3	3076.2	2956.9	2839.7	2870.5	2823.2	2767.7	2681.4	2673.1
75°	3030.9	3014.5	2911.7	2839.7	2753.3	2607.3	2634.1	2586.8	2494.2	2416.1	2403.8
77.5°	2504.5	2504.5	2438.7	2385.3	2360.6	2235.2	2222.8	2200.2	2107.7	2064.5	2048.0
80°	1793.1	1788.9	1762.2	1743.7	1774.6	1700.5	1667.6	1667.6	1630.6	1591.5	1573.0
82.5°	1067.2	1052.8	1052.8	1059.0	1040.5	993.2	1001.4	1048.7	1044.6	1022.0	1005.5
85°	631.3	623.0	616.9	608.7	592.2	559.3	559.3	563.4	567.5	569.6	561.4
87.5°	421.5	419.5	419.5	419.5	401.0	378.4	388.6	394.8	390.7	388.6	386.6
90°	368.1	370.1	368.1	359.8	343.4	322.8	326.9	335.2	331.1	331.1	329.0
92.5°	331.1	331.1	326.9	318.7	302.3	283.8	285.8	289.9	287.9	285.8	283.8
95°	271.4	271.4	267.3	261.1	246.8	230.3	232.4	236.5	232.4	232.4	230.3
97.5°	211.8	211.8	209.7	205.6	193.3	181.0	183.0	185.1	183.0	183.0	181.0
100°	160.4	160.4	158.3	152.2	146.0	135.7	137.8	141.9	139.8	139.8	137.8
102.5°	119.3	119.3	117.2	115.2	106.9	100.8	102.8	102.8	102.8	100.8	100.8
105°	92.5	92.5	92.5	88.4	84.3	78.1	78.1	78.1	78.1	76.1	76.1
107.5°	74.0	72.0	72.0	69.9	65.8	61.7	61.7	61.7	61.7	61.7	61.7
110°	59.6	57.6	55.5	55.5	51.4	49.4	47.3	49.4	49.4	49.4	49.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	51.4	49.4	45.2	45.2	43.2	39.1	39.1	39.1	43.2	41.1	41.1
115°	45.2	43.2	37.0	37.0	35.0	32.9	32.9	32.9	37.0	32.9	32.9
117.5°	39.1	37.0	30.8	30.8	28.8	26.7	26.7	26.7	30.8	26.7	26.7
120°	28.8	28.8	24.7	24.7	24.7	22.6	22.6	22.6	24.7	22.6	22.6
122.5°	22.6	22.6	20.6	20.6	20.6	18.5	18.5	18.5	18.5	16.5	16.5
125°	22.6	26.7	16.5	16.5	14.4	14.4	14.4	12.3	14.4	12.3	12.3
127.5°	24.7	22.6	12.3	12.3	12.3	10.3	10.3	10.3	10.3	10.3	10.3
130°	8.2	12.3	8.2	8.2	8.2	8.2	8.2	8.2	6.2	6.2	6.2
132.5°	6.2	6.2	6.2	6.2	6.2	6.2	4.1	4.1	4.1	4.1	4.1
135°	4.1	4.1	4.1	4.1	4.1	4.1	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)