

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: P399903

Luminaire Tested: **ARCH-L-PA3-210-722-U-T2R-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399903  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-210-722-U-T2R-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17544 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

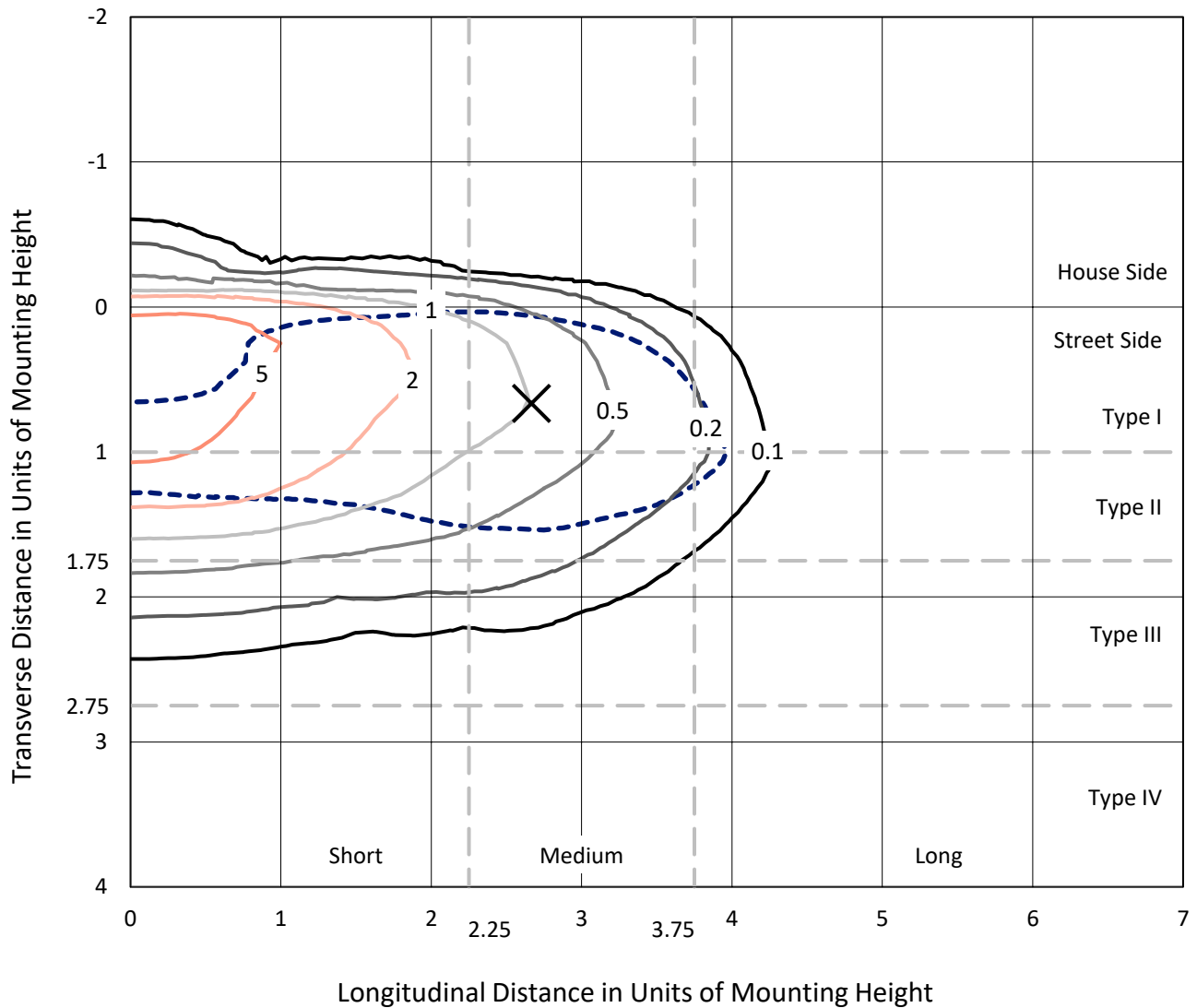
Input Watts (W): 211  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

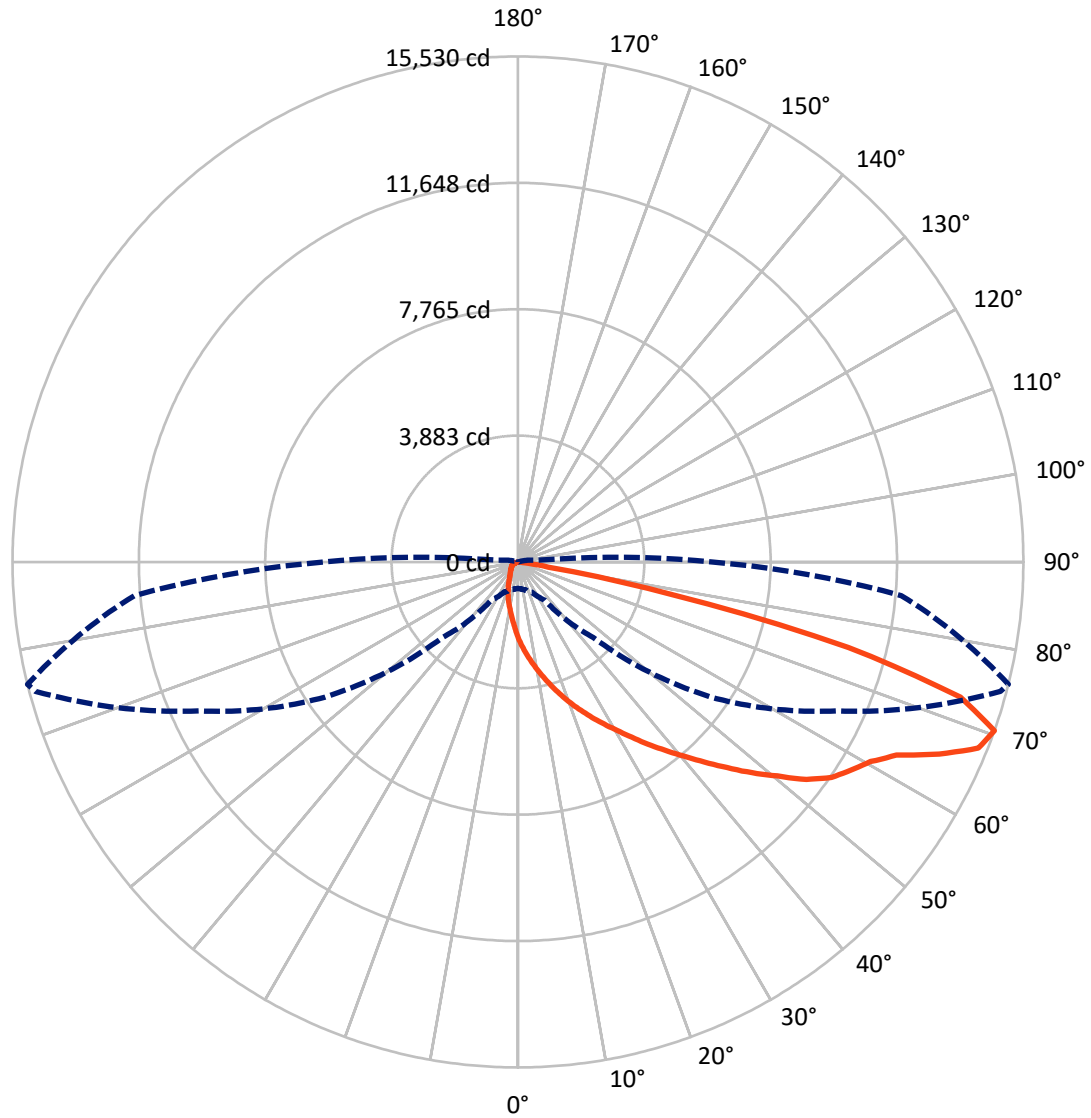
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	827.4	0.0	827.4
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	16716.6	0.0	16716.6
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	17544.0	0.0	17544.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.2	1.3
10°-20°	714.0	4.1
20°-30°	1329.8	7.6
30°-40°	2352.1	13.4
40°-50°	3596.9	20.5
50°-60°	4078.0	23.2
60°-70°	3495.9	19.9
70°-80°	1693.2	9.7
80°-90°	62.8	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	17544.0	100.0
0°-180°	17544.0	100.0

**Coefficient of Utilization**

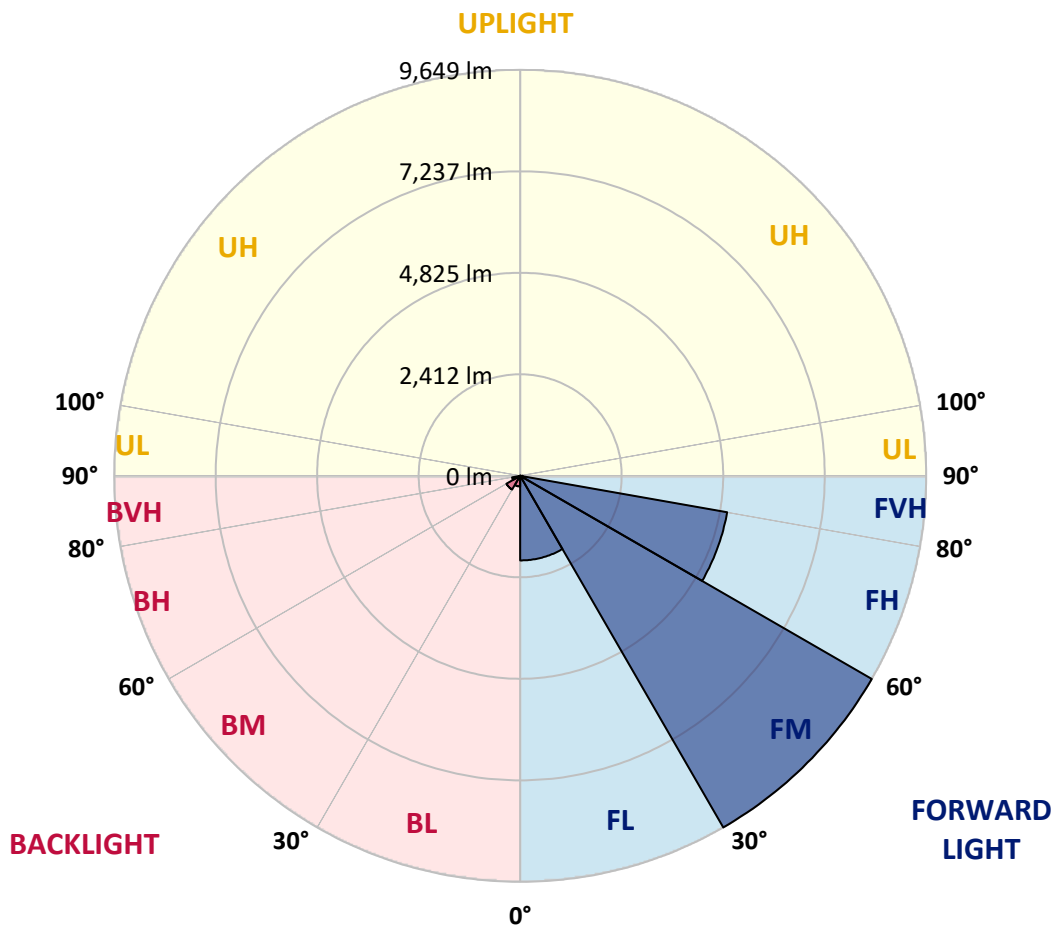


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2011.2	11.5			
FM (30°-60°)	9649.4	55.0			
FH (60°-80°)	4994.3	28.5			G2/5000
FVH (80°-90°)	61.7	0.4			G1/100
BL (0°-30°)	253.8	1.4	B1/500		
BM (30°-60°)	377.7	2.2	B1/1000		
BH (60°-80°)	194.8	1.1	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4
2.5°	3210.0	3192.5	3175.0	3107.8	3046.5	2991.0	2885.8	2748.5	2625.9	2599.6	2456.4
5°	3770.8	3750.4	3724.1	3656.9	3578.1	3484.6	3329.8	3119.5	2903.3	2856.6	2590.8
7.5°	4150.6	4133.0	4095.1	4062.9	3984.1	3893.5	3721.2	3475.8	3177.9	3119.5	2745.6
10°	4410.5	4398.8	4393.0	4366.7	4308.3	4235.3	4062.9	3805.9	3455.4	3388.2	2909.2
12.5°	4504.0	4504.0	4533.2	4577.0	4585.8	4562.4	4404.7	4147.6	3747.5	3677.4	3102.0
15°	4378.4	4393.0	4457.2	4597.4	4743.5	4839.9	4740.6	4501.1	4068.8	3992.8	3329.8
17.5°	4343.3	4357.9	4401.7	4524.4	4720.1	4977.2	5026.8	4842.8	4372.5	4308.3	3563.5
20°	4442.6	4457.2	4495.2	4600.4	4749.3	5009.3	5216.7	5172.9	4693.8	4626.7	3800.0
22.5°	4679.2	4688.0	4688.0	4769.8	4901.2	5094.0	5336.4	5485.4	5023.9	4950.9	4033.7
25°	5187.5	5169.9	5099.8	5058.9	5143.6	5301.4	5488.3	5759.9	5391.9	5292.6	4284.9
27.5°	5853.4	5911.8	5742.4	5546.7	5482.5	5573.0	5701.5	6002.4	5748.3	5643.1	4512.7
30°	6756.0	6732.6	6510.6	6230.2	5952.7	5920.6	5964.4	6209.8	6104.6	6005.3	4766.9
32.5°	7497.9	7541.7	7308.0	6966.3	6551.5	6355.8	6309.1	6458.0	6484.3	6420.1	5067.7
35°	8260.2	8306.9	8079.1	7699.4	7205.8	6878.6	6744.3	6764.7	6954.6	6872.8	5383.2
37.5°	8943.7	8984.6	8759.7	8371.2	7877.6	7477.4	7284.6	7126.9	7410.2	7337.2	5716.1
40°	9463.6	9469.5	9317.6	8970.0	8502.6	8087.9	7868.8	7559.2	7892.2	7842.5	6063.7
42.5°	9831.6	9843.3	9732.3	9434.4	9002.1	8616.6	8438.4	8070.4	8447.1	8403.3	6466.8
45°	10004.0	10024.4	10012.7	9738.2	9378.9	9045.9	8987.5	8613.6	9054.7	9013.8	6931.2
47.5°	9840.4	9840.4	9989.4	9951.4	9621.3	9399.4	9466.5	9180.3	9714.8	9676.8	7404.4
50°	9159.8	9168.6	9472.4	9907.6	9714.8	9665.1	9875.5	9735.2	10313.6	10336.9	7971.0
52.5°	7372.3	7357.7	8382.9	9218.3	9650.5	9784.9	10252.2	10301.9	11032.1	11102.2	8534.8
55°	5508.8	5500.0	6481.4	7997.3	9200.7	9723.6	10462.5	10807.2	11645.5	11689.3	8955.4
57.5°	4360.9	4337.5	4877.8	6446.4	8184.3	9449.0	10471.3	10903.6	11987.2	12063.2	9364.3
60°	3353.2	3332.7	3735.8	4796.1	6744.3	8718.8	10220.1	10909.4	12317.3	12451.7	9913.4
62.5°	2398.0	2421.4	2731.0	3440.8	5187.5	7687.7	9893.0	10991.2	12904.4	13056.3	10693.3
65°	1618.2	1606.5	1863.5	2342.5	3689.1	6300.3	9390.6	11163.6	13961.7	14227.5	11628.0
67.5°	1124.5	1133.3	1250.1	1524.7	2342.5	4837.0	8555.2	11259.9	15054.1	15261.5	12282.2
70°	812.0	823.7	887.9	1025.2	1431.2	3280.1	7232.1	10818.9	15349.2	15530.2	11826.6
72.5°	534.5	557.9	654.3	727.3	914.2	2053.4	5327.7	9320.5	14078.6	14212.9	9922.2
75°	289.2	295.0	420.6	543.3	651.4	1279.3	3177.9	6285.7	10532.6	10488.8	6542.7
77.5°	224.9	233.7	260.0	388.5	438.1	703.9	1256.0	2839.1	4988.8	4854.5	2231.5
80°	137.3	143.1	181.1	230.7	306.7	408.9	368.0	771.1	1013.5	949.3	327.1
82.5°	81.8	87.6	108.1	192.8	242.4	192.8	128.5	186.9	189.9	186.9	81.8
85°	14.6	14.6	75.9	134.4	128.5	55.5	75.9	61.3	55.5	58.4	17.5
87.5°	0.0	0.0	29.2	40.9	58.4	20.4	29.2	14.6	14.6	14.6	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4
2.5°	2368.8	2269.5	2065.1	1886.9	1708.7	1577.3	1478.0	1375.7	1340.7	1296.9	1273.5
5°	2409.7	2214.0	1808.0	1483.8	1209.2	998.9	864.6	782.8	730.2	692.2	683.5
7.5°	2471.1	2170.2	1600.6	1162.5	861.7	651.4	540.4	484.9	455.7	438.1	432.3
10°	2544.1	2132.2	1396.2	905.5	607.5	458.6	397.2	373.9	362.2	356.3	353.4
12.5°	2646.3	2117.6	1223.8	698.1	458.6	376.8	344.7	330.1	321.3	312.5	309.6
15°	2780.7	2123.5	1066.1	540.4	379.7	335.9	309.6	295.0	283.3	274.6	274.6
17.5°	2920.9	2132.2	911.3	438.1	344.7	306.7	277.5	257.0	248.3	239.5	236.6
20°	3052.3	2129.3	762.3	373.9	312.5	274.6	245.4	224.9	210.3	201.5	201.5
22.5°	3177.9	2111.8	622.1	335.9	286.2	242.4	210.3	189.9	178.2	169.4	169.4
25°	3312.3	2076.7	508.2	306.7	254.1	213.2	181.1	160.6	151.9	143.1	143.1
27.5°	3417.4	2018.3	414.8	280.4	224.9	184.0	154.8	137.3	128.5	122.7	122.7
30°	3531.3	1933.6	344.7	251.2	195.7	157.7	131.4	116.8	108.1	105.2	105.2
32.5°	3656.9	1840.1	295.0	222.0	166.5	134.4	111.0	102.2	93.5	90.5	90.5
35°	3803.0	1758.4	265.8	192.8	146.0	113.9	96.4	87.6	81.8	81.8	81.8
37.5°	3969.5	1673.7	239.5	169.4	125.6	96.4	81.8	78.9	75.9	73.0	73.0
40°	4150.6	1583.1	216.1	149.0	108.1	81.8	70.1	70.1	67.2	67.2	67.2
42.5°	4355.0	1504.2	195.7	131.4	93.5	70.1	61.3	61.3	58.4	58.4	58.4
45°	4577.0	1431.2	178.2	116.8	81.8	61.3	55.5	52.6	49.7	49.7	49.7
47.5°	4839.9	1390.3	163.6	102.2	70.1	52.6	46.7	43.8	40.9	38.0	38.0
50°	5175.8	1407.9	149.0	84.7	61.3	43.8	38.0	35.1	32.1	29.2	29.2
52.5°	5441.6	1399.1	128.5	73.0	49.7	35.1	29.2	26.3	23.4	20.4	20.4
55°	5634.4	1364.0	111.0	61.3	38.0	29.2	23.4	17.5	14.6	14.6	14.6
57.5°	5824.2	1329.0	93.5	49.7	29.2	20.4	14.6	11.7	11.7	11.7	11.7
60°	6119.2	1279.3	81.8	40.9	23.4	14.6	8.8	8.8	5.8	5.8	5.8
62.5°	6478.5	1218.0	67.2	35.1	17.5	11.7	5.8	5.8	0.0	0.0	0.0
65°	6872.8	1109.9	55.5	26.3	14.6	8.8	5.8	0.0	0.0	0.0	0.0
67.5°	6782.3	890.9	46.7	17.5	11.7	5.8	2.9	0.0	0.0	0.0	0.0
70°	5999.5	601.7	38.0	14.6	8.8	5.8	2.9	0.0	0.0	0.0	0.0
72.5°	4699.7	356.3	26.3	11.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0
75°	3008.5	178.2	17.5	8.8	5.8	2.9	0.0	0.0	0.0	0.0	0.0
77.5°	1007.7	87.6	11.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	143.1	29.2	5.8	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.1	11.7	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)