

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: P399804

Luminaire Tested: **ARCH-L-PA3-190-760-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399804
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-PA3-190-760-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 810mA 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: 22086 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

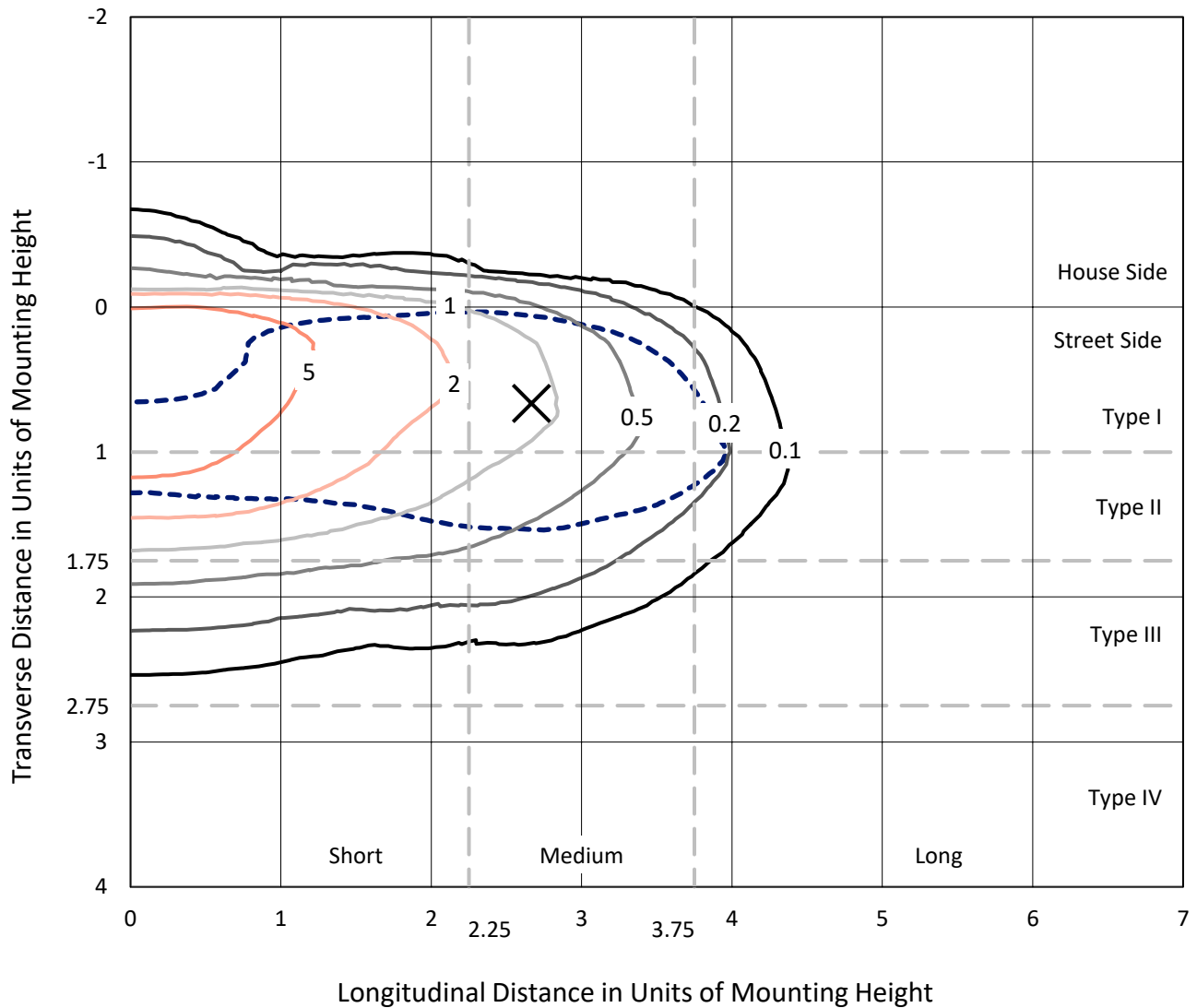
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

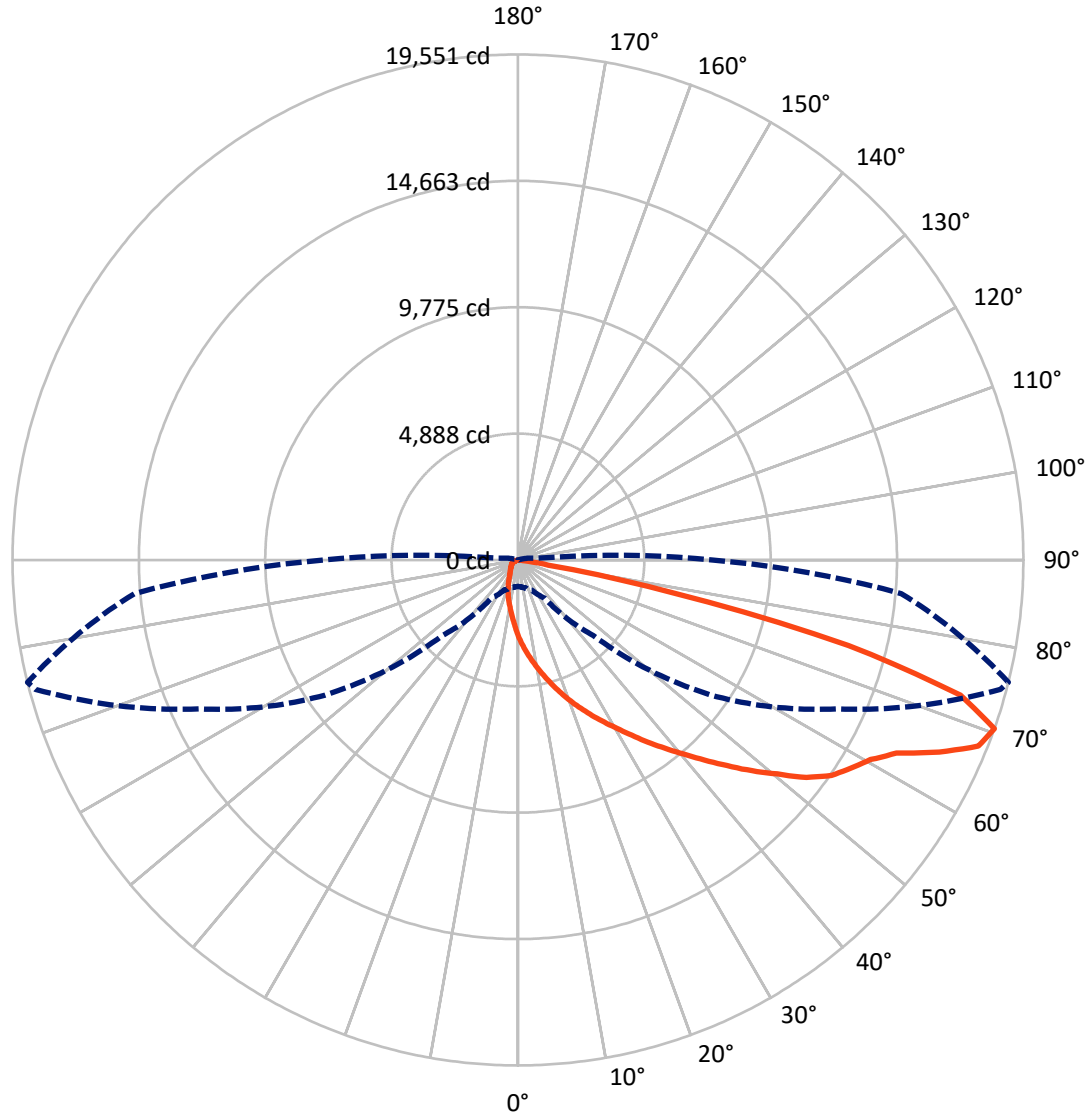
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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
House Side	Lumens	1041.7	0.0	1041.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	21044.4	0.0	21044.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	22086.0	0.0	22086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.5	1.3
10°-20°	898.9	4.1
20°-30°	1674.1	7.6
30°-40°	2961.0	13.4
40°-50°	4528.1	20.5
50°-60°	5133.8	23.2
60°-70°	4400.9	19.9
70°-80°	2131.6	9.7
80°-90°	79.1	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°	22086.0	100.0
0°-180°	22086.0	100.0

Coefficient of Utilization

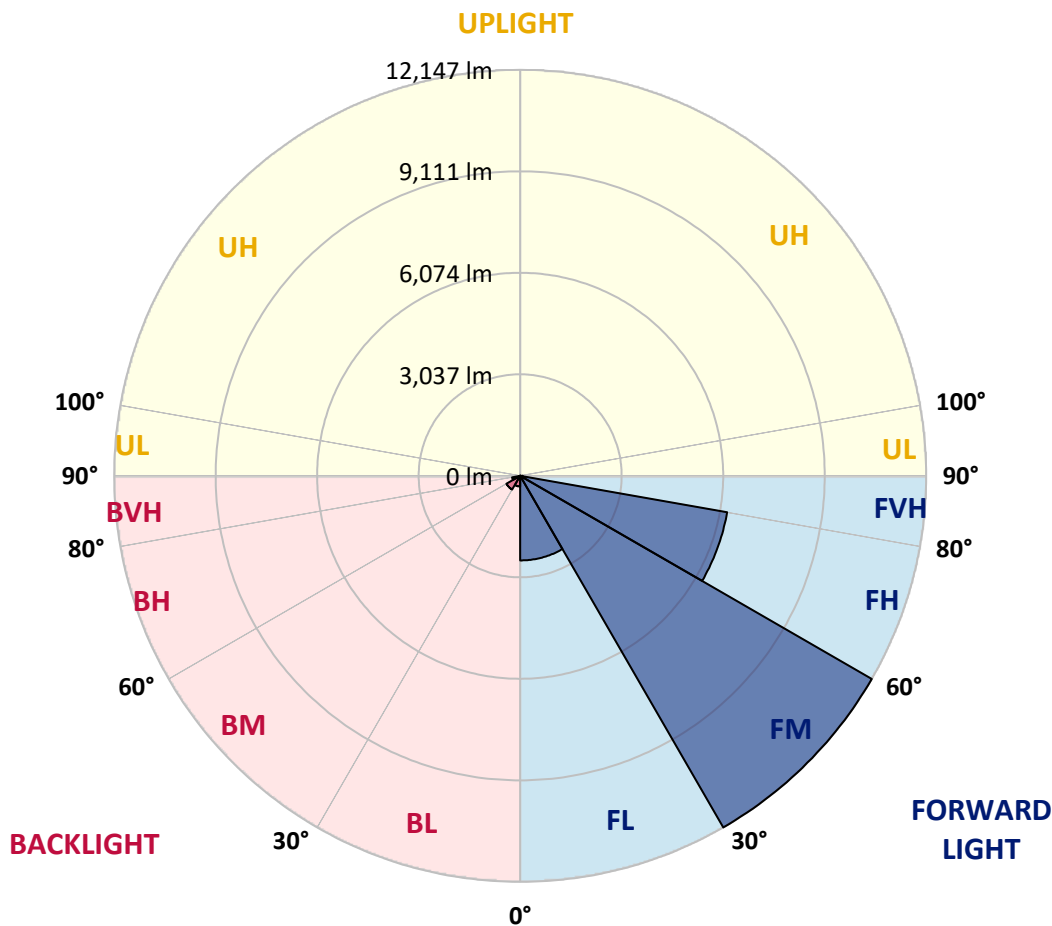


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2531.9	11.5			
FM (30°-60°)	12147.5	55.0			
FH (60°-80°)	6287.2	28.5			G3/7500
FVH (80°-90°)	77.7	0.4			G1/100
BL (0°-30°)	319.5	1.4	B1/500		
BM (30°-60°)	475.5	2.2	B1/1000		
BH (60°-80°)	245.3	1.1	B1/500		G1/500
BVH (80°-90°)	1.4	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-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2956.4	2956.4	2956.4	2956.4	2956.4	2956.4	2956.4	2956.4	2956.4	2956.4	2956.4
2.5°	4041.1	4019.0	3997.0	3912.4	3835.2	3765.3	3632.9	3460.1	3305.7	3272.6	3092.4
5°	4747.1	4721.3	4688.2	4603.7	4504.4	4386.7	4191.8	3927.1	3655.0	3596.2	3261.5
7.5°	5225.1	5203.0	5155.2	5114.8	5015.5	4901.5	4684.6	4375.7	4000.6	3927.1	3456.4
10°	5552.4	5537.6	5530.3	5497.2	5423.7	5331.7	5114.8	4791.2	4350.0	4265.4	3662.3
12.5°	5670.0	5670.0	5706.8	5761.9	5773.0	5743.6	5545.0	5221.4	4717.7	4629.4	3905.0
15°	5511.9	5530.3	5611.2	5787.7	5971.5	6092.9	5967.9	5666.3	5122.1	5026.5	4191.8
17.5°	5467.8	5486.2	5541.3	5695.8	5942.1	6265.7	6328.2	6096.6	5504.6	5423.7	4486.0
20°	5592.8	5611.2	5659.0	5791.4	5978.9	6306.2	6567.2	6512.1	5909.0	5824.5	4783.8
22.5°	5890.6	5901.7	5901.7	6004.6	6170.1	6412.8	6718.0	6905.5	6324.5	6232.6	5078.0
25°	6530.5	6508.4	6420.1	6368.7	6475.3	6673.9	6909.2	7251.2	6787.8	6662.8	5394.2
27.5°	7368.8	7442.4	7229.1	6982.7	6901.8	7015.8	7177.6	7556.3	7236.4	7104.1	5681.1
30°	8505.0	8475.6	8196.2	7843.2	7493.8	7453.4	7508.5	7817.4	7685.0	7560.0	6001.0
32.5°	9439.0	9494.2	9200.0	8769.8	8247.6	8001.3	7942.4	8130.0	8163.1	8082.2	6379.7
35°	10398.7	10457.5	10170.7	9692.7	9071.3	8659.5	8490.3	8516.1	8755.1	8652.1	6776.8
37.5°	11259.1	11310.6	11027.5	10538.4	9917.0	9413.3	9170.6	8972.0	9328.7	9236.8	7196.0
40°	11913.7	11921.0	11729.8	11292.2	10703.9	10181.8	9906.0	9516.2	9935.4	9872.9	7633.6
42.5°	12377.0	12391.7	12252.0	11876.9	11332.7	10847.3	10623.0	10159.7	10634.0	10578.9	8141.0
45°	12593.9	12619.7	12604.9	12259.3	11807.0	11387.8	11314.3	10843.6	11398.9	11347.4	8725.7
47.5°	12388.0	12388.0	12575.5	12527.7	12112.2	11832.8	11917.3	11557.0	12229.9	12182.1	9321.3
50°	11531.2	11542.3	11924.7	12472.6	12229.9	12167.4	12432.1	12255.6	12983.7	13013.1	10034.7
52.5°	9280.9	9262.5	10553.2	11604.8	12149.0	12318.1	12906.5	12969.0	13888.2	13976.5	10744.4
55°	6934.9	6923.9	8159.4	10067.8	11582.7	12240.9	13171.2	13605.1	14660.4	14715.6	11273.9
57.5°	5489.8	5460.4	6140.7	8115.3	10303.1	11895.3	13182.2	13726.4	15090.6	15186.2	11788.6
60°	4221.3	4195.5	4703.0	6037.7	8490.3	10976.0	12866.0	13733.8	15506.1	15675.3	12479.9
62.5°	3018.9	3048.3	3438.0	4331.6	6530.5	9678.0	12454.2	13836.8	16245.2	16436.4	13461.7
65°	2037.1	2022.4	2346.0	2949.0	4644.1	7931.4	11821.7	14053.7	17576.3	17910.9	14638.4
67.5°	1415.7	1426.7	1573.8	1919.4	2949.0	6089.2	10770.1	14175.1	18951.5	19212.6	15462.0
70°	1022.2	1036.9	1117.8	1290.6	1801.8	4129.3	9104.4	13619.8	19322.9	19550.9	14888.4
72.5°	672.9	702.3	823.7	915.6	1150.9	2585.0	6706.9	11733.5	17723.4	17892.6	12491.0
75°	364.0	371.4	529.5	683.9	820.0	1610.6	4000.6	7913.0	13259.5	13204.3	8236.6
77.5°	283.1	294.2	327.3	489.0	551.6	886.2	1581.1	3574.1	6280.4	6111.3	2809.3
80°	172.8	180.2	228.0	290.5	386.1	514.8	463.3	970.7	1275.9	1195.0	411.8
82.5°	103.0	110.3	136.1	242.7	305.2	242.7	161.8	235.3	239.0	235.3	103.0
85°	18.4	18.4	95.6	169.1	161.8	69.9	95.6	77.2	69.9	73.5	22.1
87.5°	0.0	0.0	36.8	51.5	73.5	25.7	36.8	18.4	18.4	18.4	11.0
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°	2956.4	2956.4	2956.4	2956.4	2956.4	2956.4	2956.4	2956.4	2956.4	2956.4	2956.4
2.5°	2982.1	2857.1	2599.7	2375.4	2151.1	1985.6	1860.6	1731.9	1687.8	1632.6	1603.2
5°	3033.6	2787.2	2276.1	1867.9	1522.3	1257.6	1088.4	985.5	919.3	871.5	860.4
7.5°	3110.8	2732.1	2015.0	1463.5	1084.7	820.0	680.3	610.4	573.6	551.6	544.2
10°	3202.7	2684.3	1757.6	1139.9	764.8	577.3	500.1	470.7	456.0	448.6	444.9
12.5°	3331.4	2665.9	1540.7	878.8	577.3	474.3	433.9	415.5	404.5	393.4	389.8
15°	3500.6	2673.2	1342.1	680.3	478.0	422.9	389.8	371.4	356.7	345.6	345.6
17.5°	3677.1	2684.3	1147.2	551.6	433.9	386.1	349.3	323.6	312.5	301.5	297.8
20°	3842.5	2680.6	959.7	470.7	393.4	345.6	308.9	283.1	264.7	253.7	253.7
22.5°	4000.6	2658.5	783.2	422.9	360.4	305.2	264.7	239.0	224.3	213.3	213.3
25°	4169.8	2614.4	639.8	386.1	319.9	268.4	228.0	202.2	191.2	180.2	180.2
27.5°	4302.2	2540.8	522.1	353.0	283.1	231.7	194.9	172.8	161.8	154.4	154.4
30°	4445.6	2434.2	433.9	316.2	246.4	198.6	165.5	147.1	136.1	132.4	132.4
32.5°	4603.7	2316.5	371.4	279.5	209.6	169.1	139.7	128.7	117.7	114.0	114.0
35°	4787.5	2213.6	334.6	242.7	183.9	143.4	121.3	110.3	103.0	103.0	103.0
37.5°	4997.1	2107.0	301.5	213.3	158.1	121.3	103.0	99.3	95.6	91.9	91.9
40°	5225.1	1993.0	272.1	187.5	136.1	103.0	88.2	88.2	84.6	84.6	84.6
42.5°	5482.5	1893.7	246.4	165.5	117.7	88.2	77.2	77.2	73.5	73.5	73.5
45°	5761.9	1801.8	224.3	147.1	103.0	77.2	69.9	66.2	62.5	62.5	62.5
47.5°	6092.9	1750.3	205.9	128.7	88.2	66.2	58.8	55.2	51.5	47.8	47.8
50°	6515.7	1772.3	187.5	106.6	77.2	55.2	47.8	44.1	40.4	36.8	36.8
52.5°	6850.4	1761.3	161.8	91.9	62.5	44.1	36.8	33.1	29.4	25.7	25.7
55°	7093.0	1717.2	139.7	77.2	47.8	36.8	29.4	22.1	18.4	18.4	18.4
57.5°	7332.0	1673.1	117.7	62.5	36.8	25.7	18.4	14.7	14.7	14.7	14.7
60°	7703.4	1610.6	103.0	51.5	29.4	18.4	11.0	11.0	7.4	7.4	7.4
62.5°	8155.7	1533.3	84.6	44.1	22.1	14.7	7.4	7.4	0.0	0.0	0.0
65°	8652.1	1397.3	69.9	33.1	18.4	11.0	7.4	0.0	0.0	0.0	0.0
67.5°	8538.1	1121.5	58.8	22.1	14.7	7.4	3.7	0.0	0.0	0.0	0.0
70°	7552.7	757.5	47.8	18.4	11.0	7.4	3.7	0.0	0.0	0.0	0.0
72.5°	5916.4	448.6	33.1	14.7	7.4	3.7	0.0	0.0	0.0	0.0	0.0
75°	3787.4	224.3	22.1	11.0	7.4	3.7	0.0	0.0	0.0	0.0	0.0
77.5°	1268.6	110.3	14.7	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	180.2	36.8	7.4	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.4	14.7	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.7	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	3.7	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)