

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: P399786

Luminaire Tested: **ARCH-L-PA3-190-740-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399786
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-PA3-190-740-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 22087 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

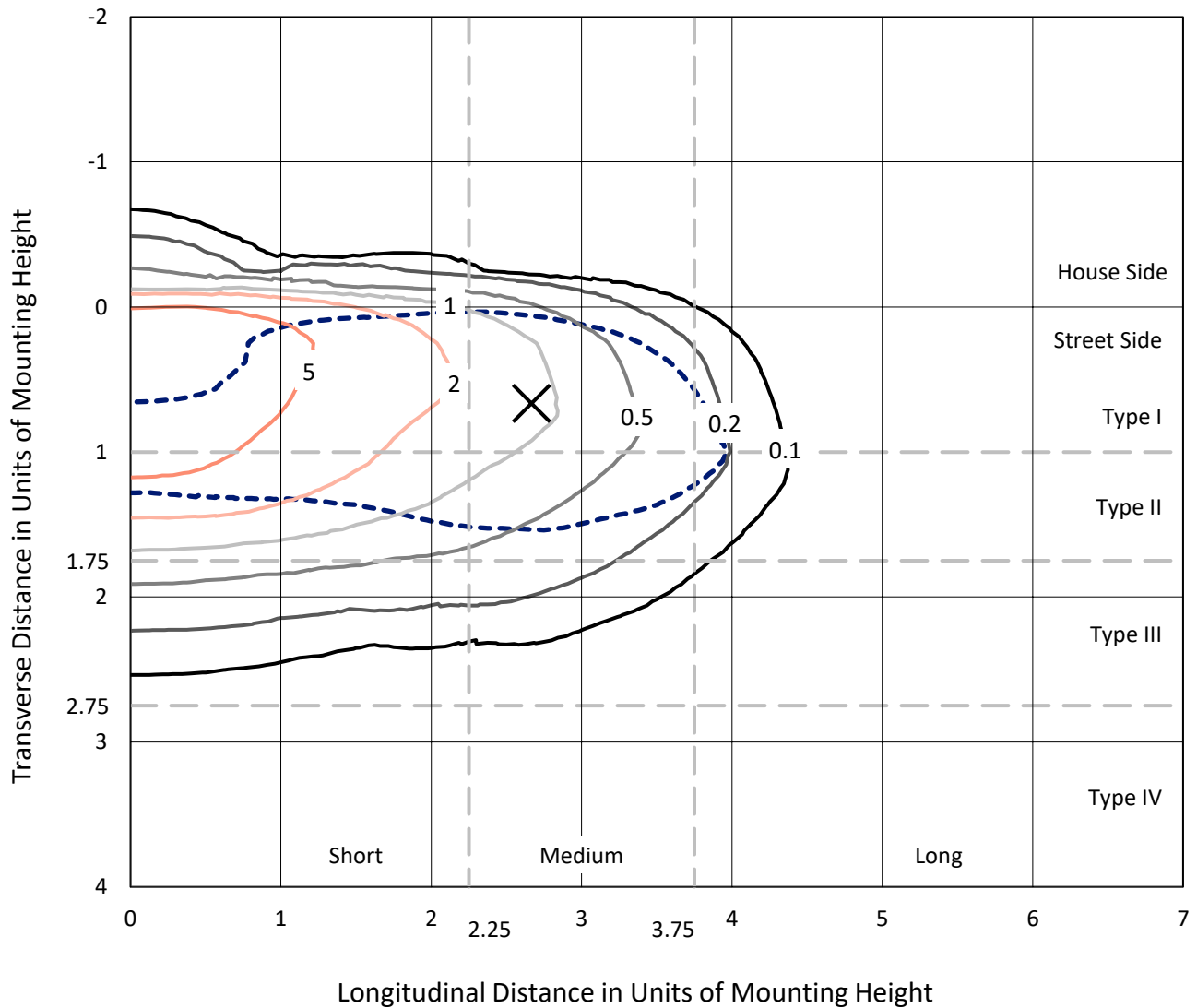
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

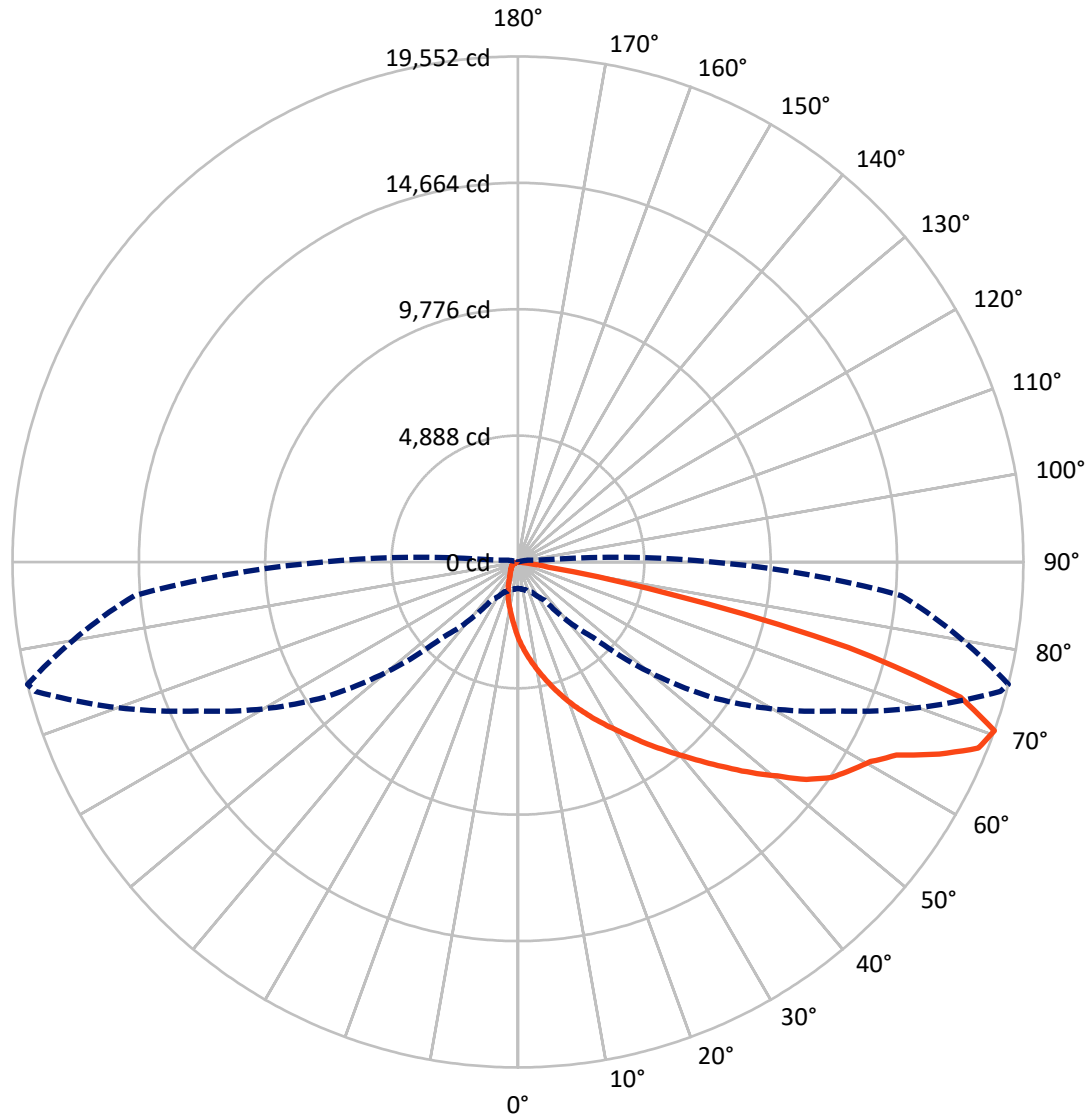
× Max cd
 - - - 1/2 Max cd



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	21045.3	0.0	21045.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	22087.0	0.0	22087.0
	% 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°	2961.2	13.4
40°-50°	4528.3	20.5
50°-60°	5134.0	23.2
60°-70°	4401.1	19.9
70°-80°	2131.7	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°	22087.0	100.0
0°-180°	22087.0	100.0

Coefficient of Utilization

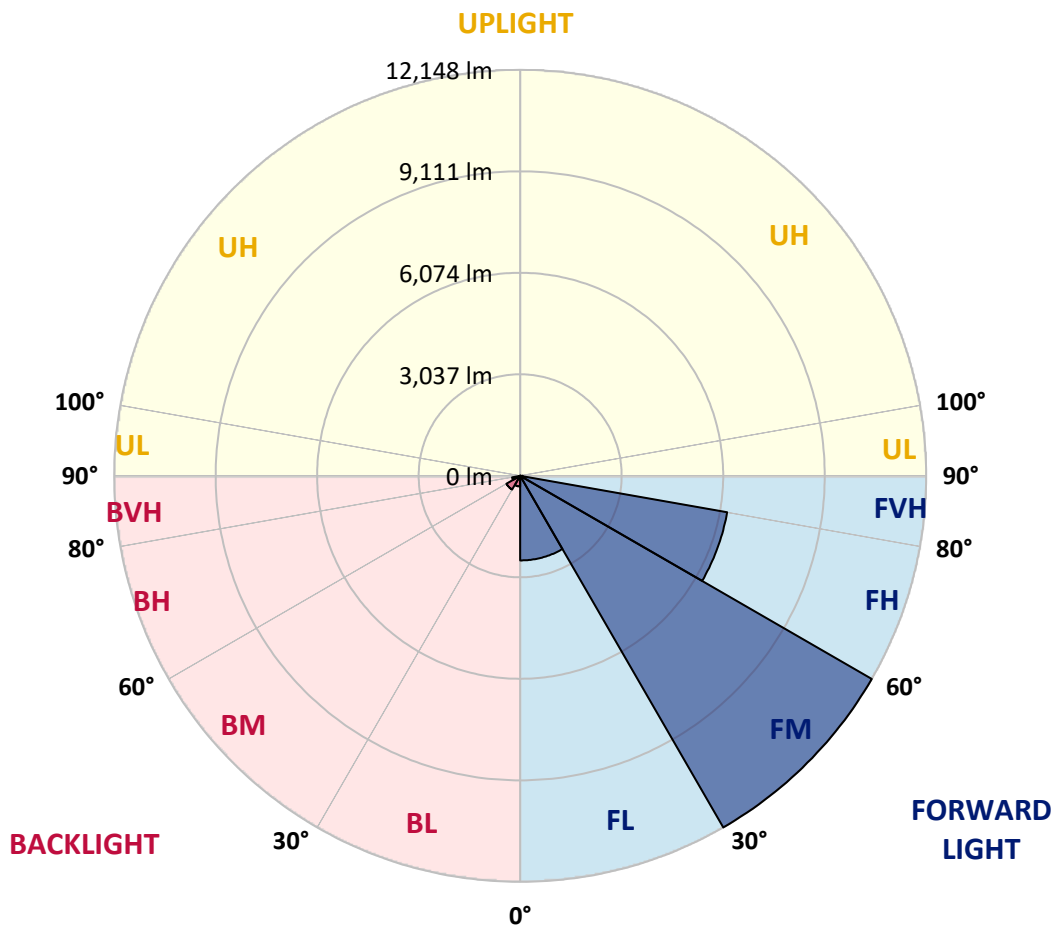


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2532.0	11.5			
FM (30°-60°)	12148.0	55.0			
FH (60°-80°)	6287.5	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°	2956.5	2956.5	2956.5	2956.5	2956.5	2956.5	2956.5	2956.5	2956.5	2956.5	2956.5
2.5°	4041.3	4019.2	3997.1	3912.6	3835.3	3765.5	3633.1	3460.3	3305.8	3272.7	3092.5
5°	4747.3	4721.6	4688.5	4603.9	4504.6	4386.9	4192.0	3927.3	3655.2	3596.3	3261.7
7.5°	5225.3	5203.3	5155.5	5115.0	5015.7	4901.7	4684.8	4375.9	4000.8	3927.3	3456.6
10°	5552.6	5537.9	5530.5	5497.4	5423.9	5332.0	5115.0	4791.4	4350.2	4265.6	3662.5
12.5°	5670.3	5670.3	5707.0	5762.2	5773.2	5743.8	5545.3	5221.7	4717.9	4629.6	3905.2
15°	5512.2	5530.5	5611.4	5787.9	5971.8	6093.2	5968.1	5666.6	5122.4	5026.8	4192.0
17.5°	5468.0	5486.4	5541.6	5696.0	5942.4	6266.0	6328.5	6096.8	5504.8	5423.9	4486.2
20°	5593.1	5611.4	5659.2	5791.6	5979.2	6306.4	6567.5	6512.4	5909.3	5824.7	4784.1
22.5°	5890.9	5901.9	5901.9	6004.9	6170.4	6413.1	6718.3	6905.8	6324.8	6232.9	5078.2
25°	6530.7	6508.7	6420.4	6368.9	6475.6	6674.2	6909.5	7251.5	6788.2	6663.1	5394.5
27.5°	7369.2	7442.7	7229.4	6983.0	6902.1	7016.1	7177.9	7556.7	7236.8	7104.4	5681.3
30°	8505.4	8476.0	8196.5	7843.5	7494.2	7453.7	7508.9	7817.8	7685.4	7560.4	6001.2
32.5°	9439.4	9494.6	9200.4	8770.2	8248.0	8001.6	7942.8	8130.3	8163.4	8082.5	6380.0
35°	10399.2	10458.0	10171.2	9693.2	9071.7	8659.9	8490.7	8516.4	8755.5	8652.5	6777.1
37.5°	11259.7	11311.1	11028.0	10538.9	9917.5	9413.7	9171.0	8972.4	9329.1	9237.2	7196.3
40°	11914.2	11921.6	11730.3	11292.7	10704.4	10182.2	9906.4	9516.7	9935.9	9873.3	7633.9
42.5°	12377.5	12392.2	12252.5	11877.4	11333.2	10847.8	10623.5	10160.2	10634.5	10579.4	8141.4
45°	12594.5	12620.2	12605.5	12259.9	11807.6	11388.4	11314.8	10844.1	11399.4	11347.9	8726.0
47.5°	12388.6	12388.6	12576.1	12528.3	12112.8	11833.3	11917.9	11557.5	12230.4	12182.6	9321.8
50°	11531.8	11542.8	11925.2	12473.1	12230.4	12167.9	12432.7	12256.2	12984.3	13013.7	10035.1
52.5°	9281.3	9262.9	10553.6	11605.3	12149.5	12318.7	12907.1	12969.6	13888.9	13977.1	10744.8
55°	6935.2	6924.2	8159.8	10068.2	11583.3	12241.5	13171.8	13605.7	14661.1	14716.2	11274.4
57.5°	5490.1	5460.7	6141.0	8115.6	10303.6	11895.8	13182.8	13727.1	15091.3	15186.9	11789.2
60°	4221.5	4195.7	4703.2	6038.0	8490.7	10976.5	12866.6	13734.4	15506.8	15676.0	12480.5
62.5°	3019.0	3048.4	3438.2	4331.8	6530.7	9678.4	12454.8	13837.4	16246.0	16437.2	13462.3
65°	2037.2	2022.5	2346.1	2949.1	4644.3	7931.8	11822.3	14054.3	17577.1	17911.8	14639.0
67.5°	1415.7	1426.8	1573.9	1919.5	2949.1	6089.5	10770.6	14175.7	18952.4	19213.5	15462.7
70°	1022.3	1037.0	1117.9	1290.7	1801.8	4129.5	9104.8	13620.4	19323.8	19551.8	14889.1
72.5°	672.9	702.3	823.7	915.6	1151.0	2585.1	6707.3	11734.0	17724.2	17893.4	12491.5
75°	364.0	371.4	529.5	684.0	820.0	1610.6	4000.8	7913.4	13260.1	13204.9	8237.0
77.5°	283.1	294.2	327.3	489.1	551.6	886.2	1581.2	3574.3	6280.7	6111.5	2809.4
80°	172.8	180.2	228.0	290.5	386.1	514.8	463.3	970.8	1276.0	1195.1	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	169.2	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°	2956.5	2956.5	2956.5	2956.5	2956.5	2956.5	2956.5	2956.5	2956.5	2956.5	2956.5
2.5°	2982.2	2857.2	2599.8	2375.5	2151.2	1985.7	1860.7	1732.0	1687.8	1632.7	1603.3
5°	3033.7	2787.3	2276.2	1868.0	1522.4	1257.6	1088.5	985.5	919.3	871.5	860.5
7.5°	3110.9	2732.2	2015.1	1463.5	1084.8	820.0	680.3	610.4	573.6	551.6	544.2
10°	3202.9	2684.4	1757.7	1139.9	764.9	577.3	500.1	470.7	456.0	448.6	444.9
12.5°	3331.6	2666.0	1540.8	878.9	577.3	474.4	433.9	415.5	404.5	393.5	389.8
15°	3500.7	2673.3	1342.2	680.3	478.0	422.9	389.8	371.4	356.7	345.7	345.7
17.5°	3677.2	2684.4	1147.3	551.6	433.9	386.1	349.3	323.6	312.6	301.5	297.9
20°	3842.7	2680.7	959.8	470.7	393.5	345.7	308.9	283.1	264.8	253.7	253.7
22.5°	4000.8	2658.6	783.2	422.9	360.4	305.2	264.8	239.0	224.3	213.3	213.3
25°	4170.0	2614.5	639.8	386.1	319.9	268.4	228.0	202.2	191.2	180.2	180.2
27.5°	4302.4	2541.0	522.2	353.0	283.1	231.7	194.9	172.8	161.8	154.4	154.4
30°	4445.8	2434.3	433.9	316.2	246.4	198.6	165.5	147.1	136.1	132.4	132.4
32.5°	4603.9	2316.7	371.4	279.5	209.6	169.2	139.7	128.7	117.7	114.0	114.0
35°	4787.7	2213.7	334.6	242.7	183.9	143.4	121.3	110.3	103.0	103.0	103.0
37.5°	4997.3	2107.0	301.5	213.3	158.1	121.3	103.0	99.3	95.6	91.9	91.9
40°	5225.3	1993.1	272.1	187.5	136.1	103.0	88.3	88.3	84.6	84.6	84.6
42.5°	5482.7	1893.8	246.4	165.5	117.7	88.3	77.2	77.2	73.5	73.5	73.5
45°	5762.2	1801.8	224.3	147.1	103.0	77.2	69.9	66.2	62.5	62.5	62.5
47.5°	6093.2	1750.4	205.9	128.7	88.3	66.2	58.8	55.2	51.5	47.8	47.8
50°	6516.0	1772.4	187.5	106.6	77.2	55.2	47.8	44.1	40.4	36.8	36.8
52.5°	6850.7	1761.4	161.8	91.9	62.5	44.1	36.8	33.1	29.4	25.7	25.7
55°	7093.4	1717.3	139.7	77.2	47.8	36.8	29.4	22.1	18.4	18.4	18.4
57.5°	7332.4	1673.1	117.7	62.5	36.8	25.7	18.4	14.7	14.7	14.7	14.7
60°	7703.8	1610.6	103.0	51.5	29.4	18.4	11.0	11.0	7.4	7.4	7.4
62.5°	8156.1	1533.4	84.6	44.1	22.1	14.7	7.4	7.4	0.0	0.0	0.0
65°	8652.5	1397.3	69.9	33.1	18.4	11.0	7.4	0.0	0.0	0.0	0.0
67.5°	8538.5	1121.6	58.8	22.1	14.7	7.4	3.7	0.0	0.0	0.0	0.0
70°	7553.0	757.5	47.8	18.4	11.0	7.4	3.7	0.0	0.0	0.0	0.0
72.5°	5916.7	448.6	33.1	14.7	7.4	3.7	0.0	0.0	0.0	0.0	0.0
75°	3787.5	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)