

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: P400164

Luminaire Tested: **ARCH-L-PA3-240-760-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400164
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-PA3-240-760-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 1030mA 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: 26177 lumens
Efficiency: N/A
Efficacy: 108.2 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

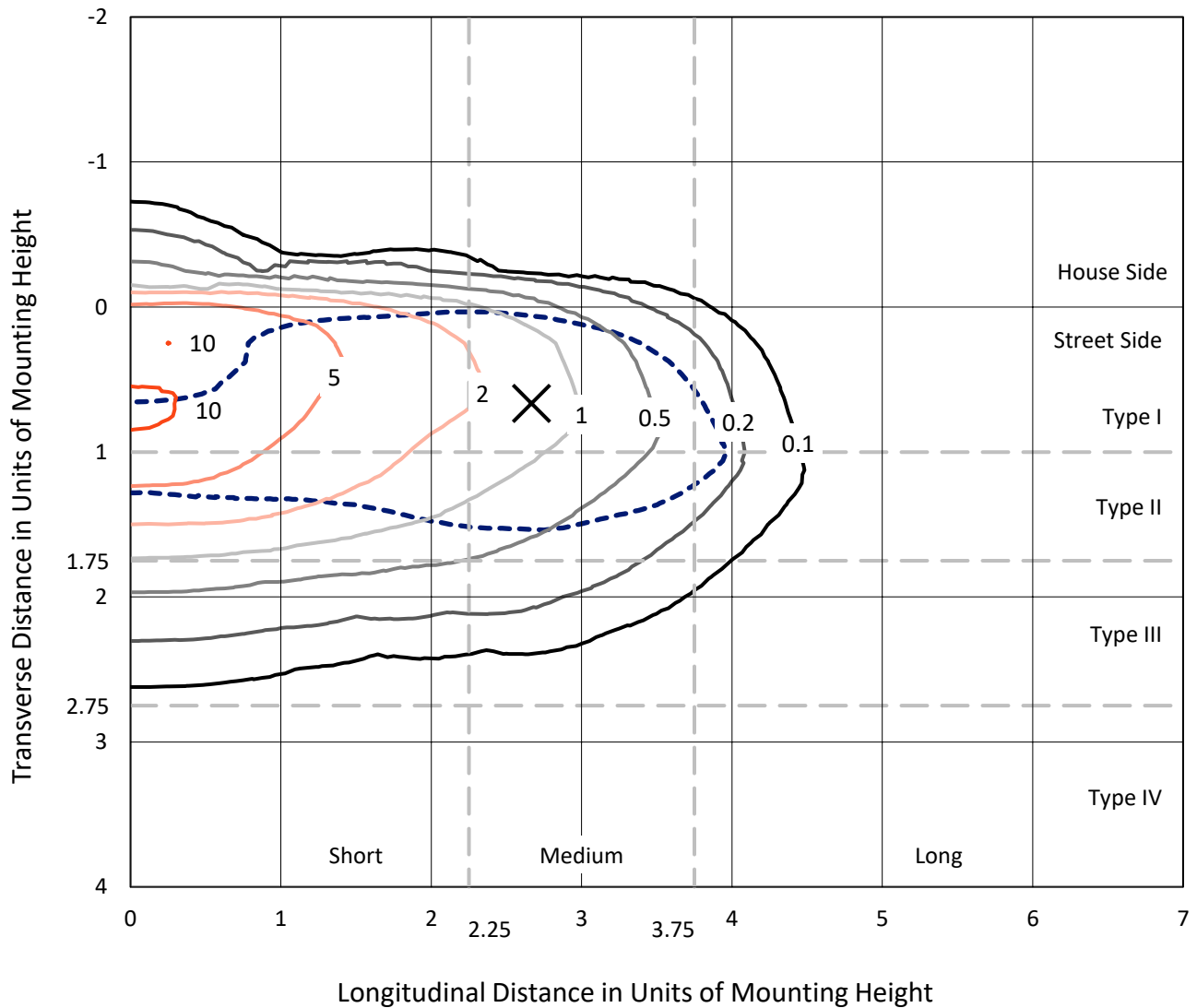
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

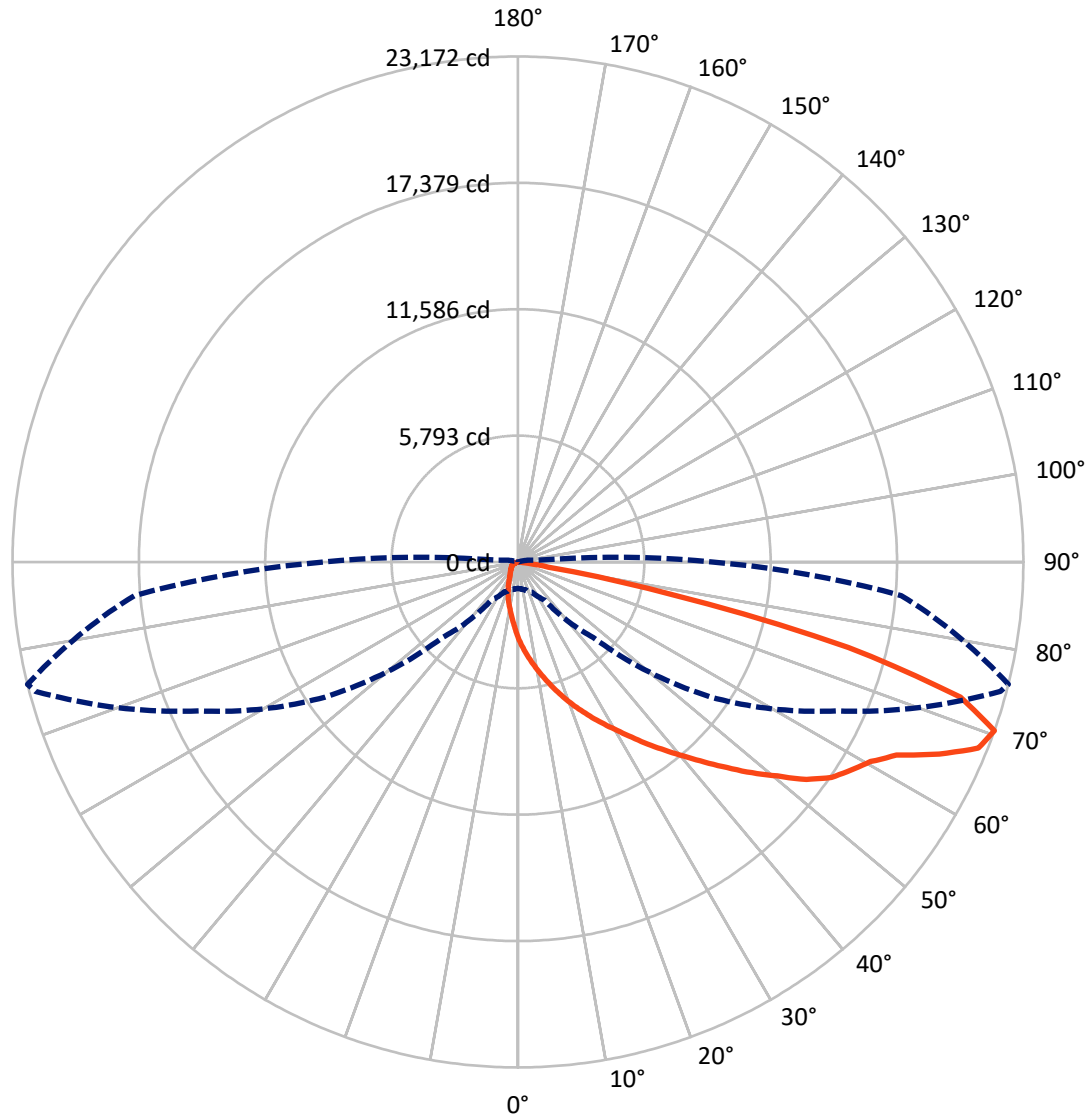
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	1234.6	0.0	1234.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	24942.4	0.0	24942.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	26177.0	0.0	26177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.1	1.3
10°-20°	1065.4	4.1
20°-30°	1984.1	7.6
30°-40°	3509.5	13.4
40°-50°	5366.9	20.5
50°-60°	6084.8	23.2
60°-70°	5216.1	19.9
70°-80°	2526.4	9.7
80°-90°	93.7	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°	26177.0	100.0
0°-180°	26177.0	100.0

Coefficient of Utilization



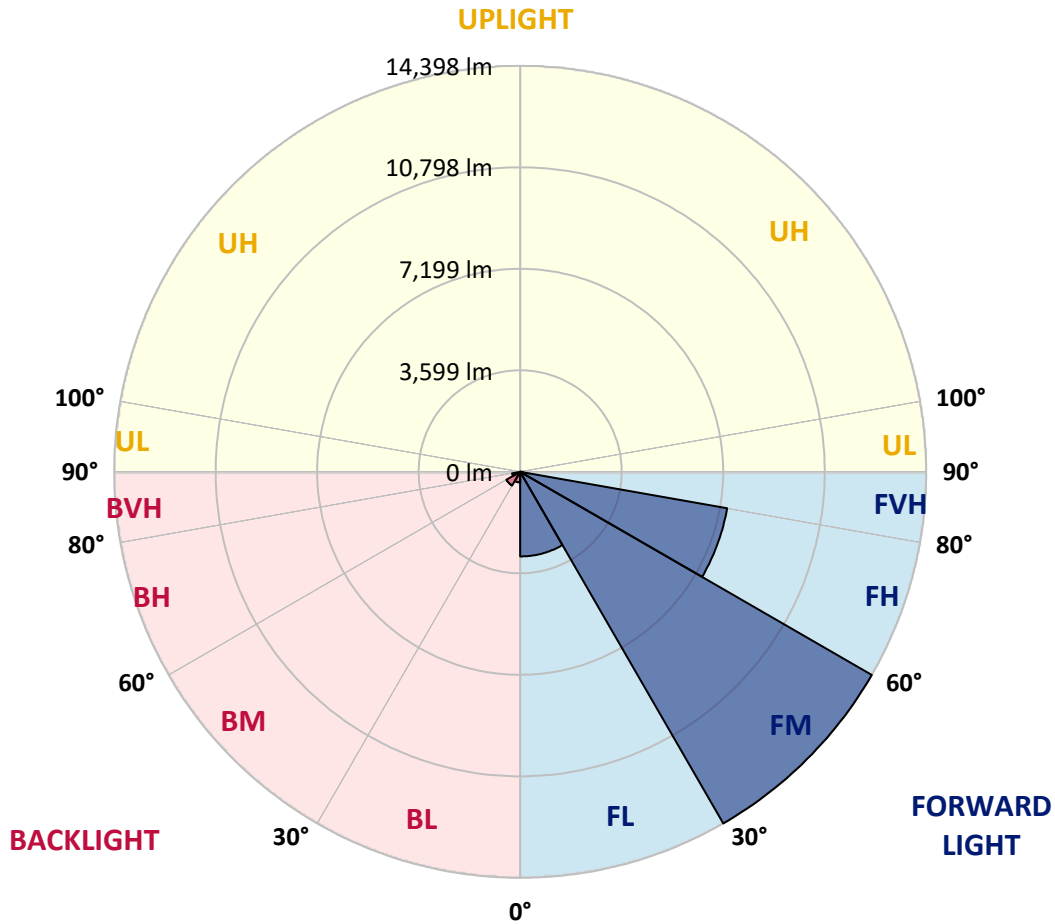
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3000.9	11.5			
FM (30°-60°)	14397.6	55.0			
FH (60°-80°)	7451.8	28.5			G3/7500
FVH (80°-90°)	92.1	0.4			G1/100
BL (0°-30°)	378.7	1.4	B1/500		
BM (30°-60°)	563.6	2.2	B1/1000		
BH (60°-80°)	290.7	1.1	B1/500		G1/500
BVH (80°-90°)	1.6	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°	3504.0	3504.0	3504.0	3504.0	3504.0	3504.0	3504.0	3504.0	3504.0	3504.0	3504.0
2.5°	4789.6	4763.5	4737.3	4637.1	4545.6	4462.8	4305.9	4101.0	3918.0	3878.8	3665.2
5°	5626.4	5595.9	5556.7	5456.4	5338.7	5199.3	4968.3	4654.5	4332.0	4262.3	3865.7
7.5°	6192.9	6166.8	6110.1	6062.2	5944.5	5809.4	5552.3	5186.2	4741.7	4654.5	4096.7
10°	6580.8	6563.4	6554.7	6515.4	6428.3	6319.3	6062.2	5678.7	5155.7	5055.5	4340.7
12.5°	6720.3	6720.3	6763.9	6829.2	6842.3	6807.4	6572.1	6188.6	5591.5	5486.9	4628.4
15°	6532.9	6554.7	6650.6	6859.7	7077.6	7221.5	7073.3	6715.9	6070.9	5957.6	4968.3
17.5°	6480.6	6502.4	6567.7	6750.8	7042.8	7426.3	7500.4	7225.8	6524.2	6428.3	5317.0
20°	6628.8	6650.6	6707.2	6864.1	7086.4	7474.2	7783.7	7718.3	7003.6	6903.3	5670.0
22.5°	6981.8	6994.8	6994.8	7116.9	7313.0	7600.6	7962.4	8184.6	7496.0	7387.1	6018.6
25°	7740.1	7713.9	7609.3	7548.3	7674.7	7910.1	8189.0	8594.3	8045.2	7897.0	6393.4
27.5°	8733.7	8820.9	8568.1	8276.1	8180.3	8315.4	8507.1	8956.0	8576.9	8420.0	6733.4
30°	10080.4	10045.6	9714.3	9296.0	8881.9	8834.0	8899.4	9265.4	9108.6	8960.4	7112.5
32.5°	11187.4	11252.8	10904.1	10394.2	9775.3	9483.4	9413.6	9635.9	9675.1	9579.2	7561.4
35°	12324.9	12394.6	12054.7	11488.1	10751.6	10263.5	10063.0	10093.5	10376.8	10254.7	8032.1
37.5°	13344.7	13405.7	13070.1	12490.5	11754.0	11156.9	10869.2	10633.9	11056.6	10947.7	8528.9
40°	14120.4	14129.2	13902.5	13383.9	12686.6	12067.7	11740.9	11278.9	11775.7	11701.7	9047.5
42.5°	14669.6	14687.0	14521.4	14076.9	13431.8	12856.6	12590.7	12041.6	12603.8	12538.4	9649.0
45°	14926.7	14957.2	14939.8	14530.1	13994.0	13497.2	13410.1	12852.2	13510.3	13449.3	10341.9
47.5°	14682.6	14682.6	14904.9	14848.2	14355.8	14024.6	14124.8	13697.7	14495.2	14438.6	11047.9
50°	13667.2	13680.3	14133.5	14782.9	14495.2	14421.1	14734.9	14525.7	15388.7	15423.5	11893.4
52.5°	11000.0	10978.2	12507.9	13754.3	14399.4	14599.8	15297.1	15371.2	16460.8	16565.4	12734.5
55°	8219.5	8206.4	9670.8	11932.6	13728.2	14508.3	15610.9	16125.2	17376.0	17441.4	13362.1
57.5°	6506.7	6471.9	7278.1	9618.5	12211.6	14098.6	15624.0	16269.0	17885.9	17999.2	13972.3
60°	5003.2	4972.7	5574.1	7156.1	10063.0	13009.1	15249.2	16277.7	18378.4	18578.8	14791.6
62.5°	3578.0	3612.9	4074.9	5133.9	7740.1	11470.7	14761.1	16399.8	19254.3	19481.0	15955.2
65°	2414.4	2397.0	2780.5	3495.2	5504.4	9400.5	14011.5	16656.9	20832.0	21228.6	17349.8
67.5°	1677.9	1691.0	1865.3	2275.0	3495.2	7217.1	12765.0	16800.7	22461.9	22771.4	18326.1
70°	1211.6	1229.0	1324.9	1529.7	2135.5	4894.2	10790.8	16142.6	22902.1	23172.3	17646.2
72.5°	797.5	832.4	976.2	1085.2	1364.1	3063.8	7949.3	13906.9	21006.3	21206.8	14804.7
75°	431.5	440.2	627.6	810.6	971.9	1908.9	4741.7	9378.8	15715.5	15650.1	9762.3
77.5°	335.6	348.7	387.9	579.6	653.7	1050.3	1874.0	4236.1	7443.7	7243.3	3329.6
80°	204.8	213.5	270.2	344.3	457.6	610.1	549.1	1150.6	1512.3	1416.4	488.1
82.5°	122.0	130.7	161.3	287.6	361.7	287.6	191.8	278.9	283.3	278.9	122.0
85°	21.8	21.8	113.3	200.5	191.8	82.8	113.3	91.5	82.8	87.2	26.1
87.5°	0.0	0.0	43.6	61.0	87.2	30.5	43.6	21.8	21.8	21.8	13.1
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°	3504.0	3504.0	3504.0	3504.0	3504.0	3504.0	3504.0	3504.0	3504.0	3504.0	3504.0
2.5°	3534.5	3386.3	3081.2	2815.4	2549.5	2353.4	2205.2	2052.7	2000.4	1935.0	1900.2
5°	3595.5	3303.5	2697.7	2213.9	1804.3	1490.5	1290.0	1168.0	1089.5	1032.9	1019.8
7.5°	3687.0	3238.1	2388.3	1734.5	1285.7	971.9	806.3	723.5	679.9	653.7	645.0
10°	3796.0	3181.5	2083.2	1351.0	906.5	684.2	592.7	557.8	540.4	531.7	527.3
12.5°	3948.5	3159.7	1826.1	1041.6	684.2	562.2	514.3	492.5	479.4	466.3	462.0
15°	4149.0	3168.4	1590.7	806.3	566.6	501.2	462.0	440.2	422.7	409.7	409.7
17.5°	4358.2	3181.5	1359.7	653.7	514.3	457.6	414.0	383.5	370.4	357.4	353.0
20°	4554.3	3177.1	1137.5	557.8	466.3	409.7	366.1	335.6	313.8	300.7	300.7
22.5°	4741.7	3150.9	928.3	501.2	427.1	361.7	313.8	283.3	265.8	252.8	252.8
25°	4942.2	3098.7	758.3	457.6	379.2	318.1	270.2	239.7	226.6	213.5	213.5
27.5°	5099.0	3011.5	618.9	418.4	335.6	274.6	231.0	204.8	191.8	183.0	183.0
30°	5269.0	2885.1	514.3	374.8	292.0	235.3	196.1	174.3	161.3	156.9	156.9
32.5°	5456.4	2745.6	440.2	331.2	248.4	200.5	165.6	152.5	139.5	135.1	135.1
35°	5674.3	2623.6	396.6	287.6	217.9	170.0	143.8	130.7	122.0	122.0	122.0
37.5°	5922.7	2497.2	357.4	252.8	187.4	143.8	122.0	117.7	113.3	109.0	109.0
40°	6192.9	2362.1	322.5	222.3	161.3	122.0	104.6	104.6	100.2	100.2	100.2
42.5°	6498.0	2244.5	292.0	196.1	139.5	104.6	91.5	91.5	87.2	87.2	87.2
45°	6829.2	2135.5	265.8	174.3	122.0	91.5	82.8	78.4	74.1	74.1	74.1
47.5°	7221.5	2074.5	244.1	152.5	104.6	78.4	69.7	65.4	61.0	56.7	56.7
50°	7722.7	2100.6	222.3	126.4	91.5	65.4	56.7	52.3	47.9	43.6	43.6
52.5°	8119.2	2087.6	191.8	109.0	74.1	52.3	43.6	39.2	34.9	30.5	30.5
55°	8406.9	2035.3	165.6	91.5	56.7	43.6	34.9	26.1	21.8	21.8	21.8
57.5°	8690.2	1983.0	139.5	74.1	43.6	30.5	21.8	17.4	17.4	17.4	17.4
60°	9130.3	1908.9	122.0	61.0	34.9	21.8	13.1	13.1	8.7	8.7	8.7
62.5°	9666.4	1817.4	100.2	52.3	26.1	17.4	8.7	8.7	0.0	0.0	0.0
65°	10254.7	1656.1	82.8	39.2	21.8	13.1	8.7	0.0	0.0	0.0	0.0
67.5°	10119.6	1329.2	69.7	26.1	17.4	8.7	4.4	0.0	0.0	0.0	0.0
70°	8951.7	897.8	56.7	21.8	13.1	8.7	4.4	0.0	0.0	0.0	0.0
72.5°	7012.3	531.7	39.2	17.4	8.7	4.4	0.0	0.0	0.0	0.0	0.0
75°	4488.9	265.8	26.1	13.1	8.7	4.4	0.0	0.0	0.0	0.0	0.0
77.5°	1503.6	130.7	17.4	8.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	213.5	43.6	8.7	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	47.9	17.4	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.4	8.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	4.4	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)