

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: P399678

Luminaire Tested: **ARCH-L-PA3-170-830-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399678
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-PA3-170-830-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 750mA 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: 16564 lumens
Efficiency: N/A
Efficacy: 95.7 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

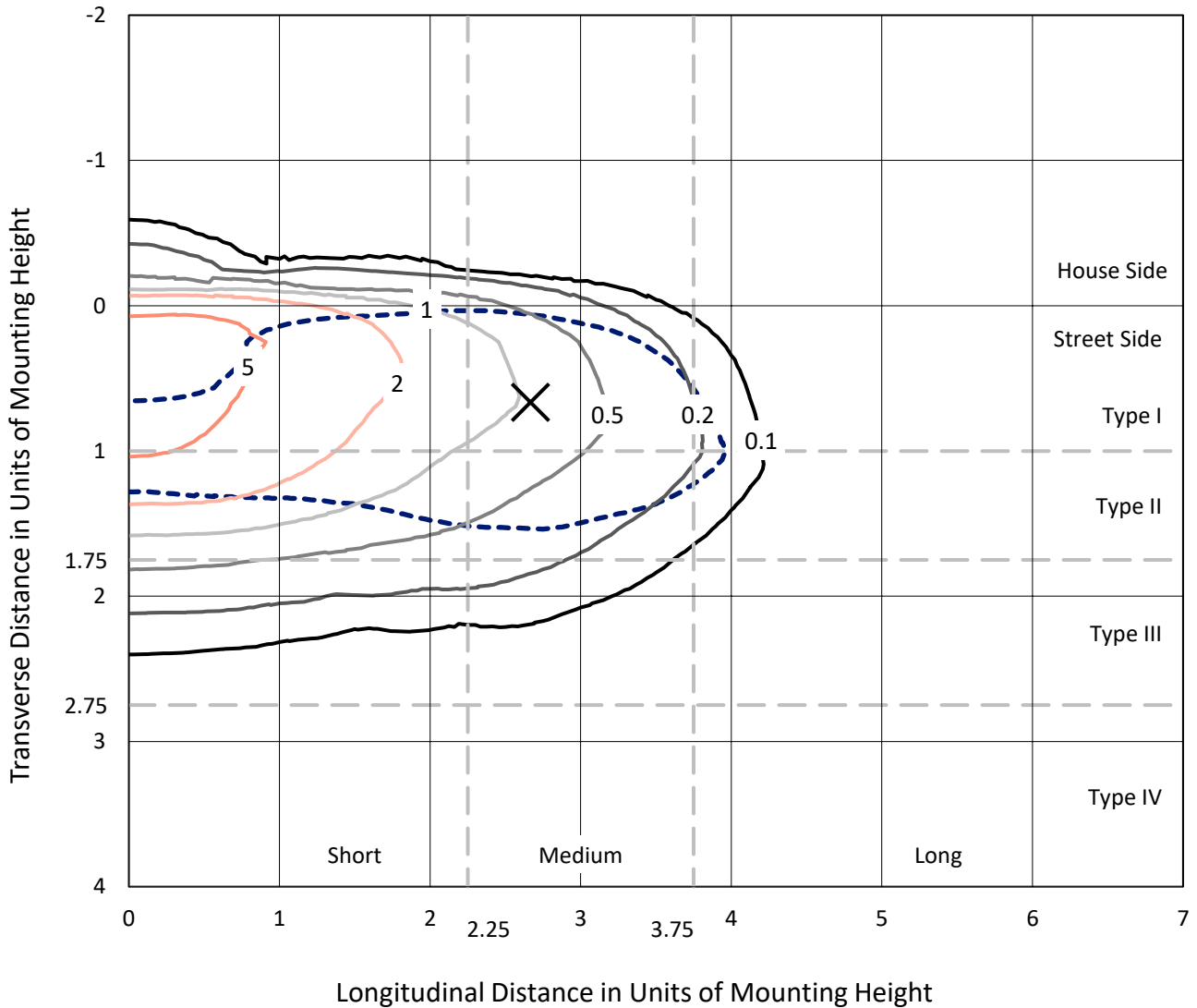
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399678
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Iso-Footcandle Lines of Horizontal Illumination

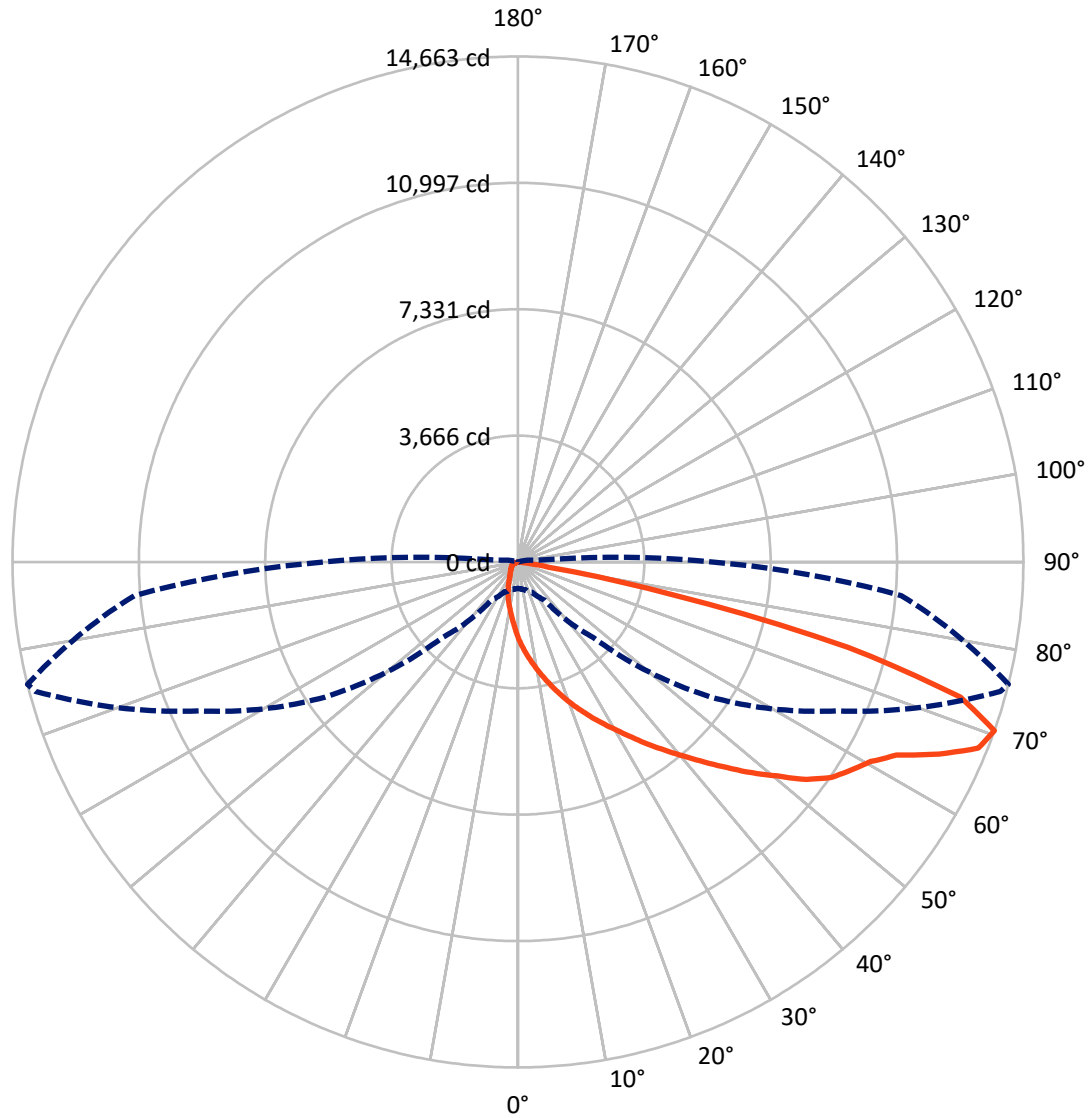
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P399678
CATALOG NUMBER: ARCH-L-PA3-170-830-U-T2R-HSS

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	781.2	0.0	781.2
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	15782.8	0.0	15782.8
	% Fixture	95.3	0.0	95.3
Total	Lumens	16564.0	0.0	16564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.9	1.3
10°-20°	674.1	4.1
20°-30°	1255.5	7.6
30°-40°	2220.7	13.4
40°-50°	3396.0	20.5
50°-60°	3850.2	23.2
60°-70°	3300.6	19.9
70°-80°	1598.6	9.7
80°-90°	59.3	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°	16564.0	100.0
0°-180°	16564.0	100.0

Coefficient of Utilization

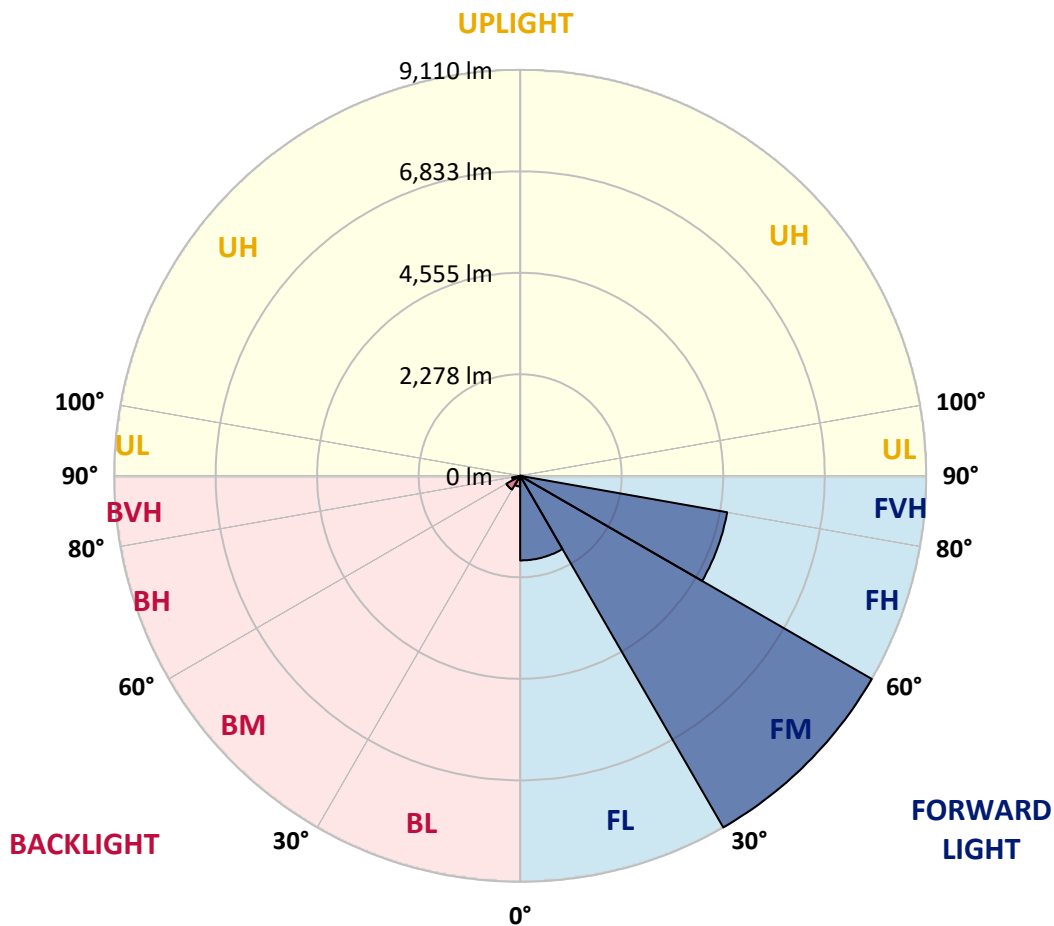


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1898.9	11.5			
FM (30°-60°)	9110.3	55.0			
FH (60°-80°)	4715.3	28.5			G2/5000
FVH (80°-90°)	58.3	0.4			G1/100
BL (0°-30°)	239.6	1.4	B1/500		
BM (30°-60°)	356.6	2.2	B1/1000		
BH (60°-80°)	183.9	1.1	B1/500		G1/500
BVH (80°-90°)	1.0	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





REPORT NUMBER: P399678

CATALOG NUMBER: ARCH-L-PA3-170-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2
2.5°	3030.7	3014.2	2997.6	2934.2	2876.3	2823.9	2724.6	2595.0	2479.2	2454.4	2319.2
5°	3560.2	3540.9	3516.1	3452.7	3378.2	3289.9	3143.8	2945.2	2741.2	2697.0	2446.1
7.5°	3918.7	3902.2	3866.3	3836.0	3761.5	3676.0	3513.3	3281.7	3000.4	2945.2	2592.2
10°	4164.1	4153.1	4147.6	4122.8	4067.6	3998.7	3836.0	3593.3	3262.4	3198.9	2746.7
12.5°	4252.4	4252.4	4280.0	4321.3	4329.6	4307.5	4158.6	3915.9	3538.1	3472.0	2928.7
15°	4133.8	4147.6	4208.3	4340.6	4478.5	4569.5	4475.8	4249.6	3841.5	3769.8	3143.8
17.5°	4100.7	4114.5	4155.9	4271.7	4456.5	4699.1	4746.0	4572.3	4128.3	4067.6	3364.4
20°	4194.5	4208.3	4244.1	4343.4	4484.0	4729.5	4925.3	4883.9	4431.6	4368.2	3587.8
22.5°	4417.8	4426.1	4426.1	4503.3	4627.4	4809.4	5038.3	5179.0	4743.3	4674.3	3808.4
25°	4897.7	4881.1	4815.0	4776.4	4856.3	5005.2	5181.7	5438.2	5090.7	4997.0	4045.6
27.5°	5526.4	5581.6	5421.7	5236.9	5176.2	5261.7	5383.0	5667.1	5427.2	5327.9	4260.7
30°	6378.6	6356.5	6146.9	5882.2	5620.2	5589.9	5631.2	5862.9	5763.6	5669.8	4500.6
32.5°	7079.0	7120.4	6899.8	6577.1	6185.5	6000.8	5956.7	6097.3	6122.1	6061.4	4784.6
35°	7798.8	7842.9	7627.8	7269.3	6803.3	6494.4	6367.5	6386.9	6566.1	6488.9	5082.5
37.5°	8444.1	8482.7	8270.4	7903.6	7437.5	7059.7	6877.7	6728.8	6996.3	6927.4	5396.8
40°	8935.0	8940.5	8797.1	8468.9	8027.7	7636.1	7429.3	7137.0	7451.3	7404.4	5725.0
42.5°	9282.4	9293.5	9188.7	8907.4	8499.3	8135.2	7967.0	7619.5	7975.3	7933.9	6105.6
45°	9445.2	9464.5	9453.4	9194.2	8855.0	8540.6	8485.5	8132.5	8548.9	8510.3	6544.0
47.5°	9290.7	9290.7	9431.4	9395.5	9083.9	8874.3	8937.7	8667.5	9172.1	9136.3	6990.8
50°	8648.2	8656.4	8943.2	9354.1	9172.1	9125.3	9323.8	9191.4	9737.5	9759.5	7525.8
52.5°	6960.5	6946.7	7914.6	8703.3	9111.5	9238.3	9679.6	9726.4	10415.9	10482.1	8058.0
55°	5201.0	5192.8	6119.4	7550.6	8686.8	9180.4	9878.1	10203.5	10995.0	11036.4	8455.1
57.5°	4117.3	4095.2	4605.4	6086.3	7727.1	8921.2	9886.4	10294.5	11317.6	11389.3	8841.2
60°	3165.8	3146.5	3527.1	4528.2	6367.5	8231.8	9649.2	10300.0	11629.3	11756.1	9359.7
62.5°	2264.1	2286.1	2578.5	3248.6	4897.7	7258.3	9340.4	10377.3	12183.6	12327.0	10096.0
65°	1527.8	1516.7	1759.4	2211.7	3483.0	5948.4	8866.0	10540.0	13181.8	13432.8	10978.4
67.5°	1061.7	1070.0	1180.3	1439.5	2211.7	4566.8	8077.3	10631.0	14213.2	14409.0	11596.2
70°	766.6	777.7	838.3	968.0	1351.3	3096.9	6828.1	10214.6	14491.8	14662.7	11166.0
72.5°	504.7	526.7	617.7	686.7	863.2	1938.7	5030.1	8799.8	13292.2	13419.0	9367.9
75°	273.0	278.5	397.1	512.9	615.0	1207.9	3000.4	5934.6	9944.3	9902.9	6177.3
77.5°	212.3	220.6	245.4	366.8	413.7	664.6	1185.8	2680.5	4710.2	4583.3	2106.9
80°	129.6	135.1	171.0	217.9	289.6	386.1	347.5	728.0	956.9	896.3	308.9
82.5°	77.2	82.7	102.0	182.0	228.9	182.0	121.3	176.5	179.3	176.5	77.2
85°	13.8	13.8	71.7	126.9	121.3	52.4	71.7	57.9	52.4	55.2	16.5
87.5°	0.0	0.0	27.6	38.6	55.2	19.3	27.6	13.8	13.8	13.8	8.3
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°	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2
2.5°	2236.5	2142.7	1949.7	1781.5	1613.3	1489.2	1395.4	1298.9	1265.8	1224.4	1202.4
5°	2275.1	2090.3	1707.0	1400.9	1141.7	943.1	816.3	739.1	689.4	653.6	645.3
7.5°	2333.0	2049.0	1511.2	1097.6	813.5	615.0	510.2	457.8	430.2	413.7	408.1
10°	2402.0	2013.1	1318.2	854.9	573.6	433.0	375.0	353.0	342.0	336.4	333.7
12.5°	2498.5	1999.3	1155.5	659.1	433.0	355.7	325.4	311.6	303.3	295.1	292.3
15°	2625.3	2004.9	1006.6	510.2	358.5	317.1	292.3	278.5	267.5	259.2	259.2
17.5°	2757.7	2013.1	860.4	413.7	325.4	289.6	262.0	242.7	234.4	226.1	223.4
20°	2881.8	2010.4	719.8	353.0	295.1	259.2	231.6	212.3	198.6	190.3	190.3
22.5°	3000.4	1993.8	587.4	317.1	270.3	228.9	198.6	179.3	168.2	159.9	159.9
25°	3127.2	1960.7	479.8	289.6	239.9	201.3	171.0	151.7	143.4	135.1	135.1
27.5°	3226.5	1905.6	391.6	264.7	212.3	173.7	146.2	129.6	121.3	115.8	115.8
30°	3334.1	1825.6	325.4	237.2	184.8	148.9	124.1	110.3	102.0	99.3	99.3
32.5°	3452.7	1737.4	278.5	209.6	157.2	126.9	104.8	96.5	88.2	85.5	85.5
35°	3590.5	1660.1	251.0	182.0	137.9	107.6	91.0	82.7	77.2	77.2	77.2
37.5°	3747.7	1580.2	226.1	159.9	118.6	91.0	77.2	74.5	71.7	68.9	68.9
40°	3918.7	1494.7	204.1	140.6	102.0	77.2	66.2	66.2	63.4	63.4	63.4
42.5°	4111.7	1420.2	184.8	124.1	88.2	66.2	57.9	57.9	55.2	55.2	55.2
45°	4321.3	1351.3	168.2	110.3	77.2	57.9	52.4	49.6	46.9	46.9	46.9
47.5°	4569.5	1312.7	154.4	96.5	66.2	49.6	44.1	41.4	38.6	35.9	35.9
50°	4886.7	1329.2	140.6	80.0	57.9	41.4	35.9	33.1	30.3	27.6	27.6
52.5°	5137.6	1320.9	121.3	68.9	46.9	33.1	27.6	24.8	22.1	19.3	19.3
55°	5319.6	1287.8	104.8	57.9	35.9	27.6	22.1	16.5	13.8	13.8	13.8
57.5°	5498.9	1254.8	88.2	46.9	27.6	19.3	13.8	11.0	11.0	11.0	11.0
60°	5777.4	1207.9	77.2	38.6	22.1	13.8	8.3	8.3	5.5	5.5	5.5
62.5°	6116.6	1150.0	63.4	33.1	16.5	11.0	5.5	5.5	0.0	0.0	0.0
65°	6488.9	1047.9	52.4	24.8	13.8	8.3	5.5	0.0	0.0	0.0	0.0
67.5°	6403.4	841.1	44.1	16.5	11.0	5.5	2.8	0.0	0.0	0.0	0.0
70°	5664.3	568.1	35.9	13.8	8.3	5.5	2.8	0.0	0.0	0.0	0.0
72.5°	4437.2	336.4	24.8	11.0	5.5	2.8	0.0	0.0	0.0	0.0	0.0
75°	2840.4	168.2	16.5	8.3	5.5	2.8	0.0	0.0	0.0	0.0	0.0
77.5°	951.4	82.7	11.0	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	135.1	27.6	5.5	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.3	11.0	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.0	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	2.8	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)