

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: P399689

Luminaire Tested: **ARCH-L-PA3-180-722-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-180-722-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13585 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

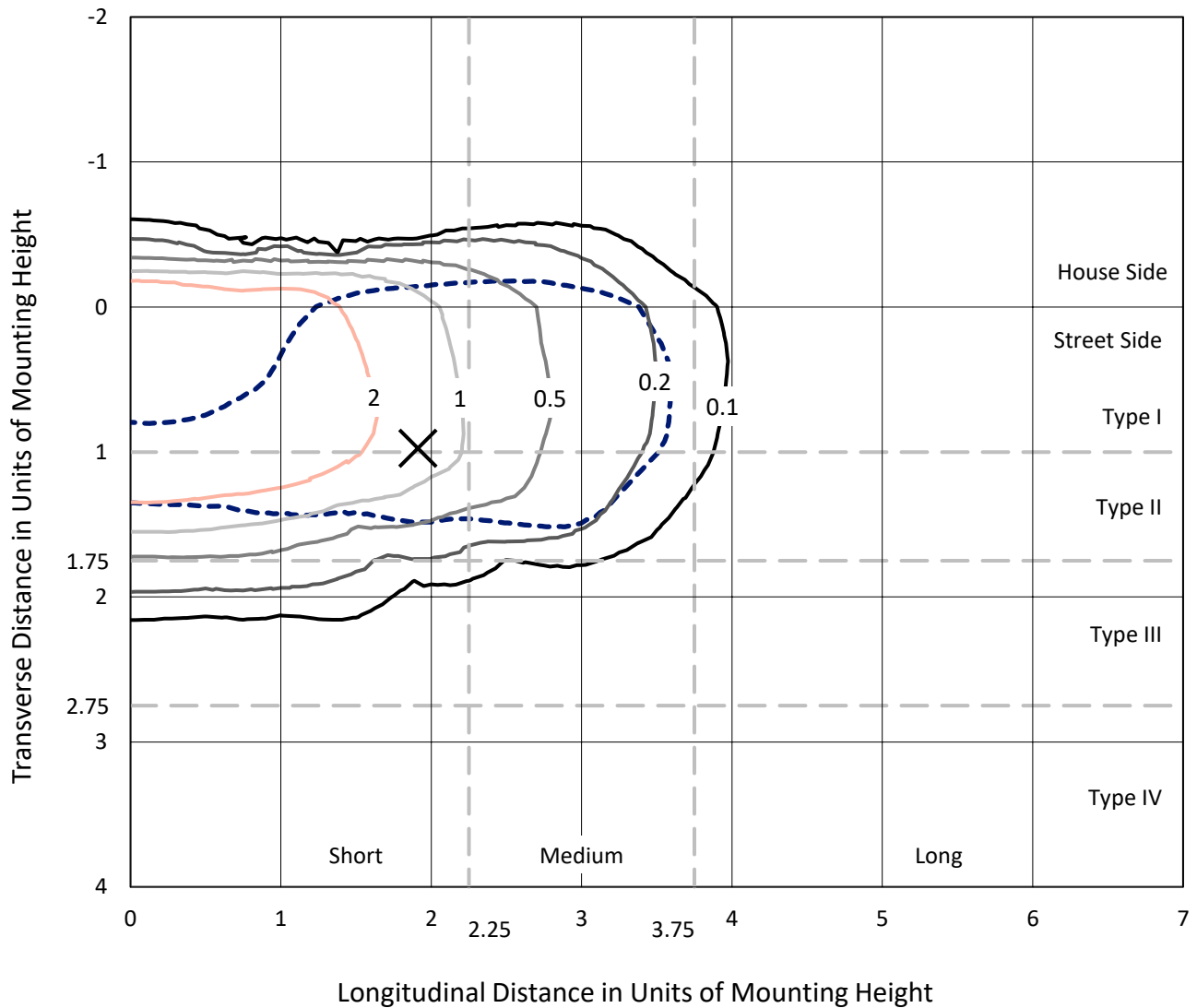
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

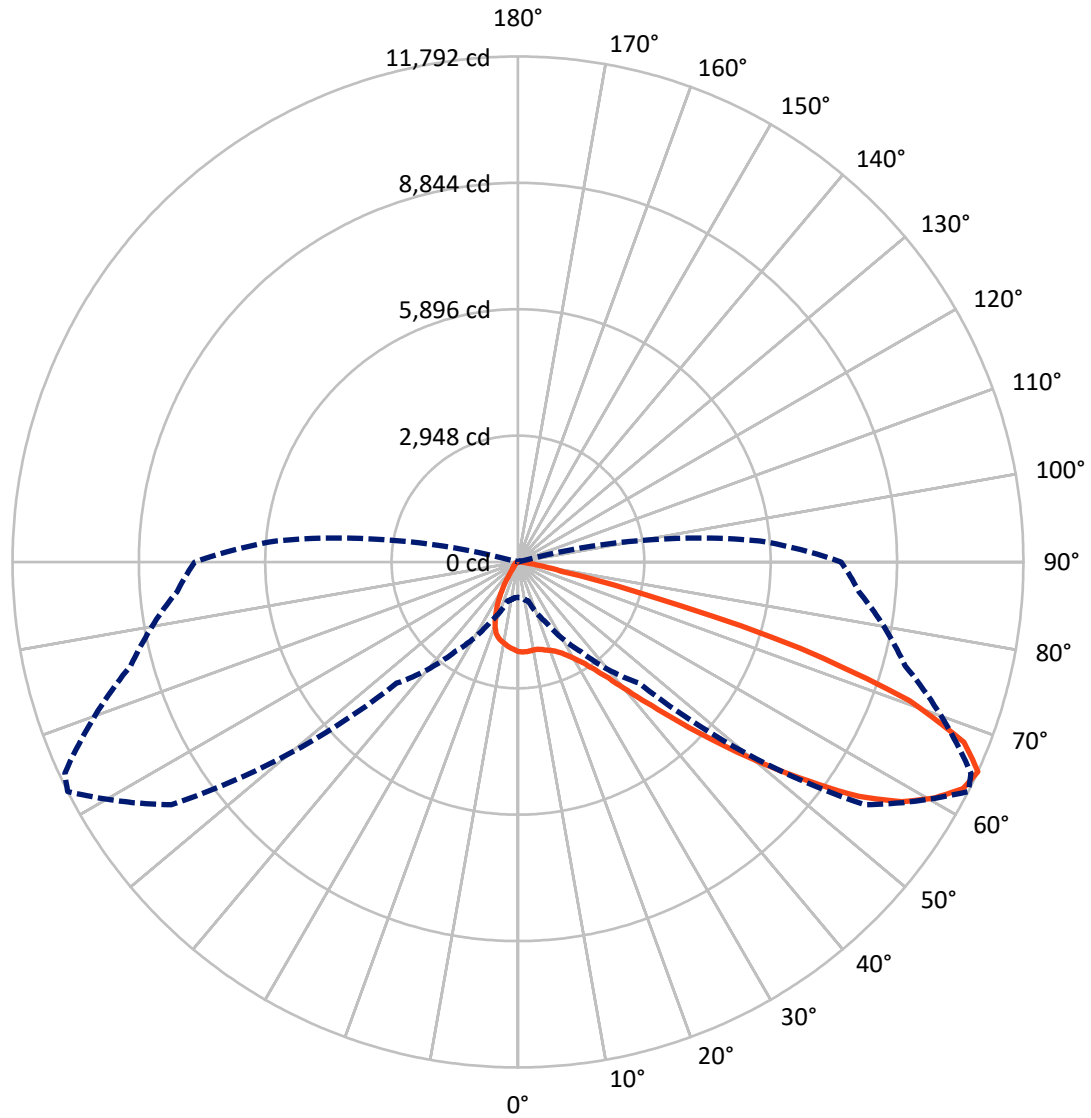
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1748.4	0.0	1748.4
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	11836.6	0.0	11836.6
	% Fixture	87.1	0.0	87.1
Total	Lumens	13585.0	0.0	13585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.0	1.4
10°-20°	471.1	3.5
20°-30°	698.2	5.1
30°-40°	1296.4	9.5
40°-50°	2746.4	20.2
50°-60°	3797.6	28.0
60°-70°	3040.1	22.4
70°-80°	1263.1	9.3
80°-90°	81.1	0.6
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°	13585.0	100.0
0°-180°	13585.0	100.0

Coefficient of Utilization

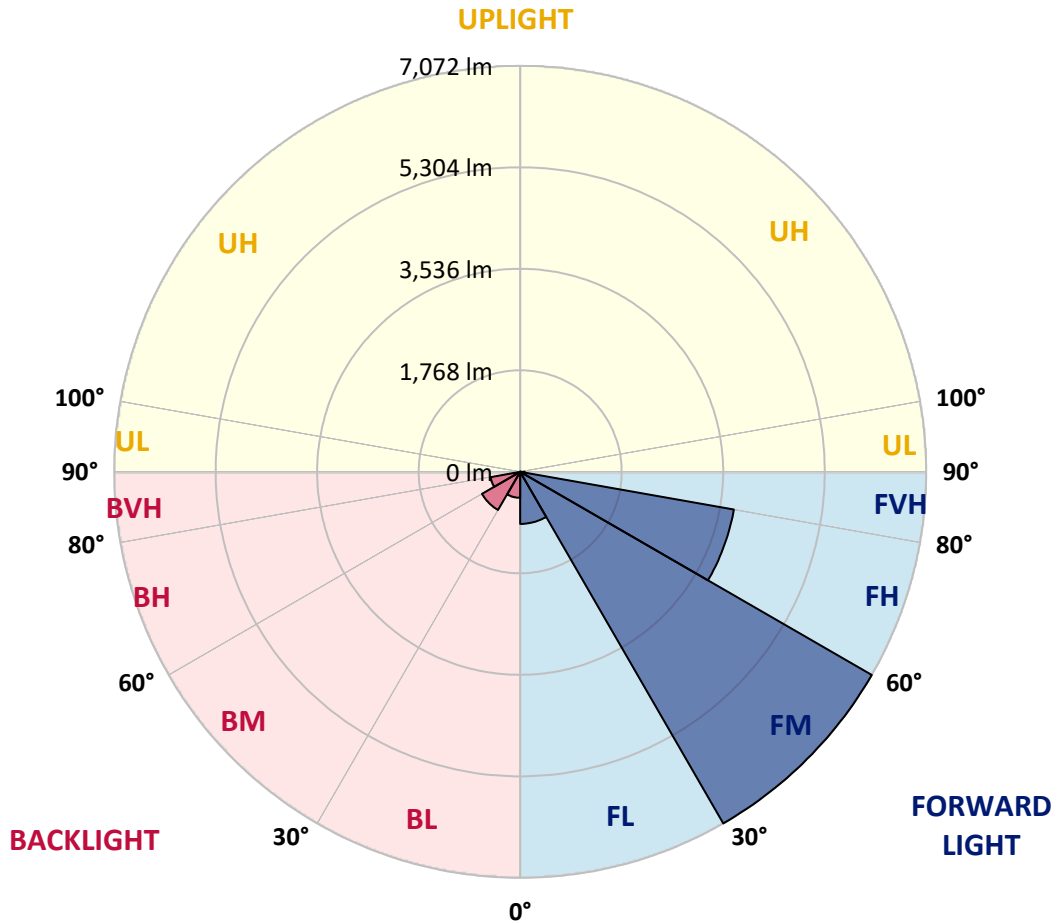


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	907.2	6.7			
FM (30°-60°)	7072.4	52.1			
FH (60°-80°)	3779.7	27.8			G2/5000
FVH (80°-90°)	77.4	0.6			G1/100
BL (0°-30°)	453.1	3.3	B1/500		
BM (30°-60°)	768.0	5.7	B1/1000		
BH (60°-80°)	523.5	3.9	B2/1000		G2/1000
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8
2.5°	2128.7	2123.6	2118.4	2115.9	2115.9	2113.3	2103.0	2100.5	2095.3	2090.2	2085.1
5°	2108.2	2100.5	2097.9	2100.5	2103.0	2108.2	2103.0	2103.0	2097.9	2092.8	2082.5
7.5°	2056.9	2051.7	2054.3	2062.0	2064.6	2082.5	2085.1	2092.8	2092.8	2087.6	2080.0
10°	1995.3	1992.8	1992.8	2005.6	2018.4	2044.0	2062.0	2082.5	2085.1	2085.1	2072.3
12.5°	1949.2	1946.6	1954.3	1969.7	1995.3	2028.7	2059.4	2090.2	2095.3	2097.9	2077.4
15°	1920.9	1920.9	1931.2	1962.0	1997.9	2044.0	2080.0	2121.0	2126.1	2123.6	2095.3
17.5°	1895.3	1897.9	1918.4	1969.7	2010.7	2072.3	2115.9	2162.0	2164.6	2162.0	2115.9
20°	1885.0	1890.2	1920.9	1987.6	2033.8	2103.0	2159.5	2205.6	2208.2	2197.9	2136.4
22.5°	1913.2	1915.8	1954.3	2026.1	2069.7	2146.6	2218.4	2262.0	2264.6	2249.2	2167.2
25°	2010.7	2010.7	2044.0	2105.6	2144.1	2221.0	2298.0	2349.2	2349.2	2331.3	2236.4
27.5°	2239.0	2218.4	2210.8	2228.7	2241.5	2323.6	2405.7	2469.8	2467.2	2441.6	2326.2
30°	2680.1	2628.8	2546.7	2454.4	2408.2	2464.7	2541.6	2623.7	2621.1	2580.1	2436.4
32.5°	3421.3	3346.9	3152.0	2908.3	2710.9	2646.7	2718.6	2808.3	2810.9	2762.2	2613.4
35°	4460.0	4342.0	3993.2	3654.7	3203.3	2959.6	2980.2	3077.6	3108.4	3082.7	2910.9
37.5°	5460.2	5352.5	5019.1	4549.7	3936.8	3439.2	3352.0	3436.7	3472.6	3472.6	3290.5
40°	6468.1	6342.4	6047.5	5575.6	4929.3	4188.1	3875.2	3944.5	3982.9	3990.6	3752.1
42.5°	7276.0	7193.9	6968.2	6601.5	5996.2	5501.2	4629.2	4590.8	4626.7	4598.5	4288.1
45°	7835.1	7771.0	7614.5	7476.0	7181.1	6932.3	5637.2	5378.1	5401.2	5303.8	4890.8
47.5°	7950.5	7878.7	7845.3	8037.7	8248.0	8309.6	6875.9	6314.2	6291.2	6075.7	5516.6
50°	7447.8	7455.5	7578.6	8127.5	9004.6	9558.6	8312.1	7370.9	7286.2	6806.7	6098.8
52.5°	6363.0	6486.1	6796.4	7686.3	9235.4	10466.4	9748.3	8491.6	8360.8	7517.1	6534.8
55°	4978.0	5137.0	5647.4	6670.7	8753.2	10871.7	10958.9	9656.0	9358.5	8050.5	6873.3
57.5°	3700.8	3749.6	4344.6	5278.1	7612.0	10474.1	11579.5	10553.6	10171.5	8476.3	7209.3
60°	2305.6	2336.4	2964.8	4018.8	5765.4	9004.6	11579.5	11171.7	10807.5	8858.4	7517.1
62.5°	1433.7	1443.9	1679.9	2754.5	3918.8	6678.4	11099.9	11651.3	11359.0	9132.8	7781.2
65°	825.8	836.1	946.4	1556.8	2549.3	3998.3	9874.0	11792.4	11661.6	9350.8	7986.4
67.5°	602.7	607.8	651.4	874.6	1667.0	2054.3	7417.0	11225.6	11389.7	9458.5	7981.3
70°	523.2	530.9	587.3	682.2	1202.8	1261.8	3775.2	9694.5	10153.6	9304.6	7742.8
72.5°	402.7	412.9	497.5	641.2	882.2	907.9	1367.0	6899.0	7594.0	8342.9	7088.8
75°	277.0	287.2	371.9	528.3	728.4	679.6	751.5	3175.1	4006.0	5596.1	5396.1
77.5°	177.0	179.5	233.4	384.7	628.3	482.2	515.5	1036.1	1454.2	2531.3	2546.7
80°	118.0	120.5	143.6	248.8	430.9	446.3	318.0	479.6	525.8	738.6	512.9
82.5°	71.8	71.8	97.5	156.4	261.6	369.3	207.7	251.3	269.3	284.7	133.4
85°	28.2	28.2	59.0	102.6	164.1	171.8	130.8	146.2	153.9	166.7	61.6
87.5°	7.7	7.7	33.3	56.4	71.8	79.5	79.5	71.8	76.9	94.9	30.8
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°	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8
2.5°	2082.5	2074.8	2064.6	2054.3	2044.0	2036.4	2028.7	2028.7	2023.5	2015.8	2010.7
5°	2077.4	2064.6	2041.5	2023.5	1995.3	1974.8	1959.4	1946.6	1938.9	1920.9	1918.4
7.5°	2069.7	2054.3	2021.0	1985.1	1938.9	1903.0	1867.1	1841.4	1815.8	1795.3	1790.1
10°	2056.9	2038.9	1990.2	1938.9	1874.8	1808.1	1723.5	1626.0	1536.2	1484.9	1469.6
12.5°	2056.9	2033.8	1969.7	1900.4	1808.1	1644.0	1428.5	1213.1	1046.4	972.0	951.5
15°	2069.7	2038.9	1954.3	1859.4	1687.6	1354.1	1005.4	720.7	538.6	482.2	469.3
17.5°	2082.5	2038.9	1931.2	1803.0	1467.0	982.3	571.9	379.6	320.6	307.8	307.8
20°	2087.6	2033.8	1900.4	1697.8	1172.1	610.4	341.1	284.7	261.6	253.9	253.9
22.5°	2108.2	2036.4	1877.3	1546.5	851.5	359.1	269.3	238.5	215.4	207.7	207.7
25°	2159.5	2067.1	1882.5	1354.1	546.3	271.9	228.3	197.5	174.4	164.1	164.1
27.5°	2241.5	2136.4	1910.7	1131.0	343.7	233.4	192.4	159.0	141.1	130.8	130.8
30°	2333.9	2213.3	1923.5	874.6	256.5	197.5	156.4	125.7	112.8	105.2	102.6
32.5°	2495.4	2346.7	1913.2	600.1	210.3	166.7	125.7	100.0	89.8	87.2	87.2
35°	2754.5	2580.1	1892.7	377.0	174.4	133.4	100.0	82.1	74.4	71.8	69.2
37.5°	3105.8	2921.2	1831.2	248.8	143.6	105.2	82.1	69.2	61.6	59.0	59.0
40°	3534.1	3311.0	1713.2	189.8	123.1	84.6	69.2	59.0	53.9	51.3	51.3
42.5°	4024.0	3744.4	1526.0	164.1	102.6	71.8	59.0	48.7	46.2	43.6	43.6
45°	4560.0	4198.4	1267.0	146.2	87.2	59.0	48.7	43.6	38.5	38.5	35.9
47.5°	5129.4	4654.9	974.6	128.2	74.4	51.3	43.6	35.9	33.3	30.8	30.8
50°	5678.2	5062.7	684.8	110.3	61.6	43.6	35.9	30.8	28.2	25.6	25.6
52.5°	6065.5	5308.9	484.7	94.9	51.3	38.5	28.2	23.1	20.5	20.5	20.5
55°	6375.8	5462.8	338.5	79.5	43.6	33.3	23.1	18.0	18.0	15.4	15.4
57.5°	6668.2	5562.8	248.8	66.7	35.9	25.6	18.0	12.8	12.8	10.3	10.3
60°	6970.8	5616.6	189.8	53.9	30.8	20.5	12.8	10.3	7.7	7.7	7.7
62.5°	7276.0	5650.0	146.2	43.6	25.6	15.4	10.3	7.7	5.1	2.6	2.6
65°	7542.7	5660.2	112.8	33.3	20.5	10.3	7.7	2.6	0.0	0.0	0.0
67.5°	7622.2	5542.3	87.2	25.6	15.4	7.7	5.1	0.0	0.0	0.0	0.0
70°	7406.8	5229.4	66.7	20.5	12.8	5.1	2.6	0.0	0.0	0.0	0.0
72.5°	6573.3	4385.6	51.3	12.8	10.3	5.1	2.6	0.0	0.0	0.0	0.0
75°	4703.6	2339.0	35.9	10.3	7.7	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	2164.6	905.3	25.6	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0
80°	423.2	225.7	10.3	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	97.5	38.5	5.1	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.3	12.8	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	5.1	2.6	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)