

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: P399293

Luminaire Tested: **ARCH-L-PA3-120-750-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399293
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-PA3-120-750-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 530mA 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: 13619 lumens
Efficiency: N/A
Efficacy: 110.7 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

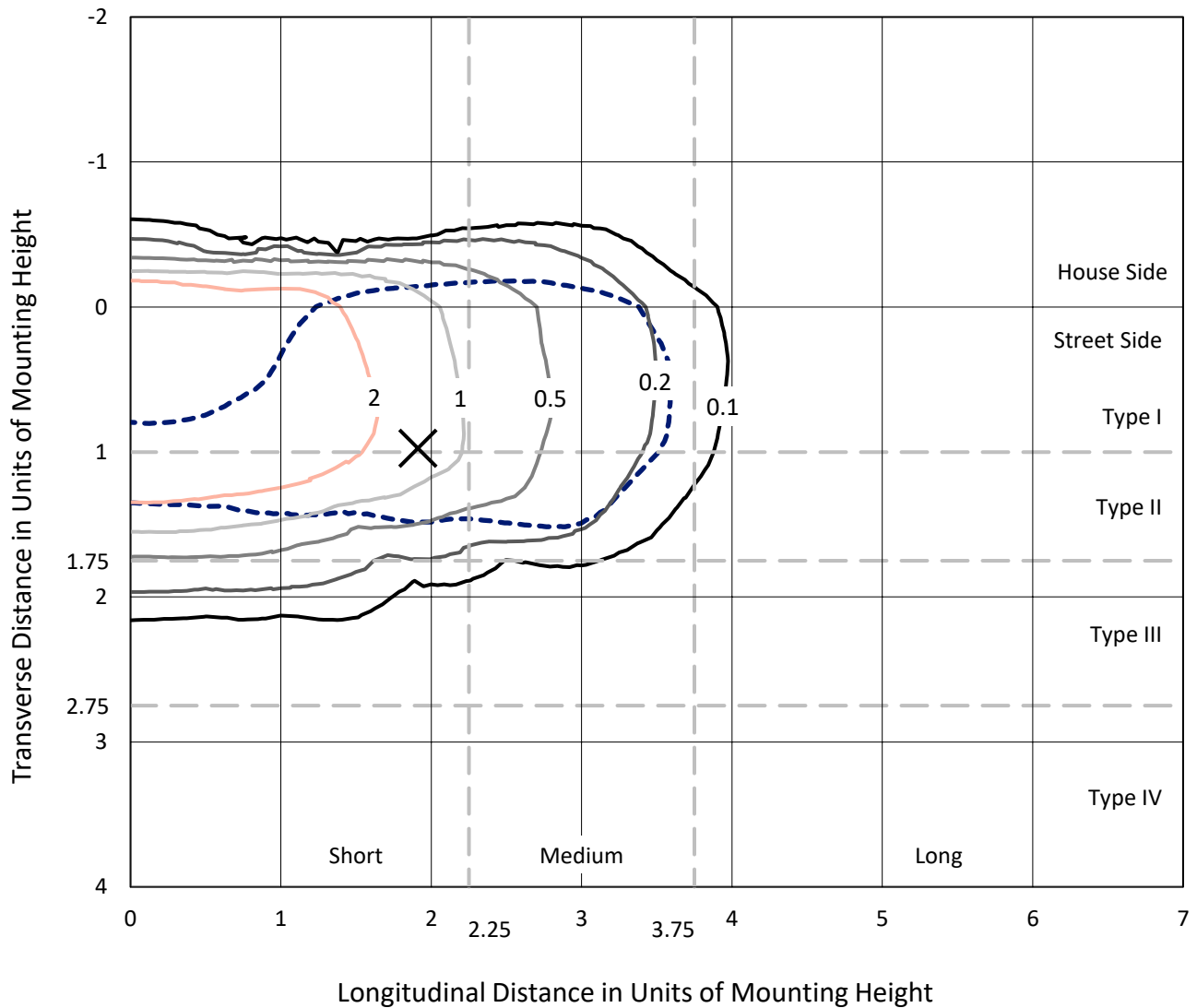
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

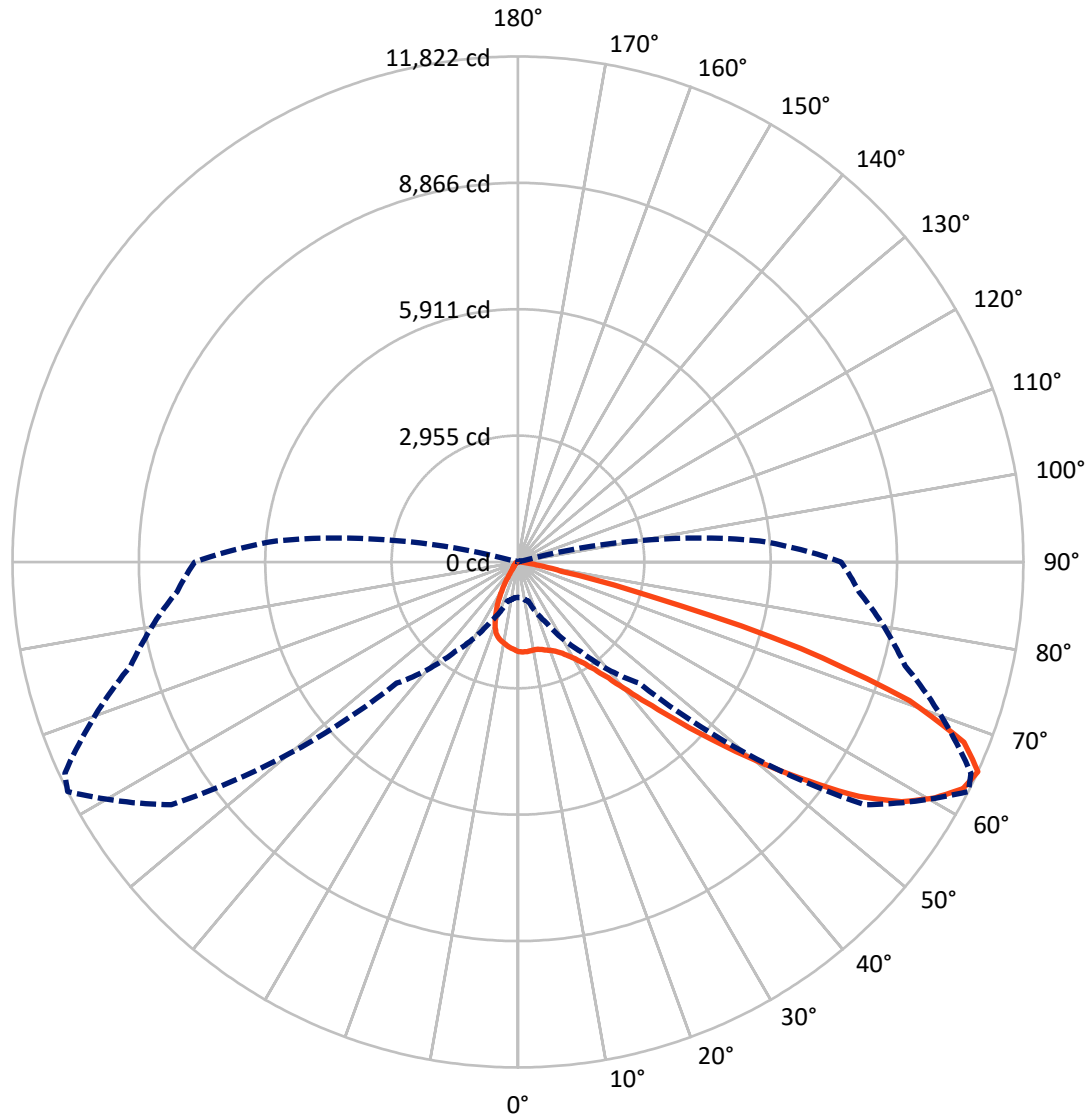
✕ Max cd
 - - - 1/2 Max cd



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	1752.7	0.0	1752.7
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	11866.3	0.0	11866.3
	% Fixture	87.1	0.0	87.1
Total	Lumens	13619.0	0.0	13619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	1.4
10°-20°	472.3	3.5
20°-30°	700.0	5.1
30°-40°	1299.7	9.5
40°-50°	2753.3	20.2
50°-60°	3807.1	28.0
60°-70°	3047.7	22.4
70°-80°	1266.2	9.3
80°-90°	81.3	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°	13619.0	100.0
0°-180°	13619.0	100.0

Coefficient of Utilization



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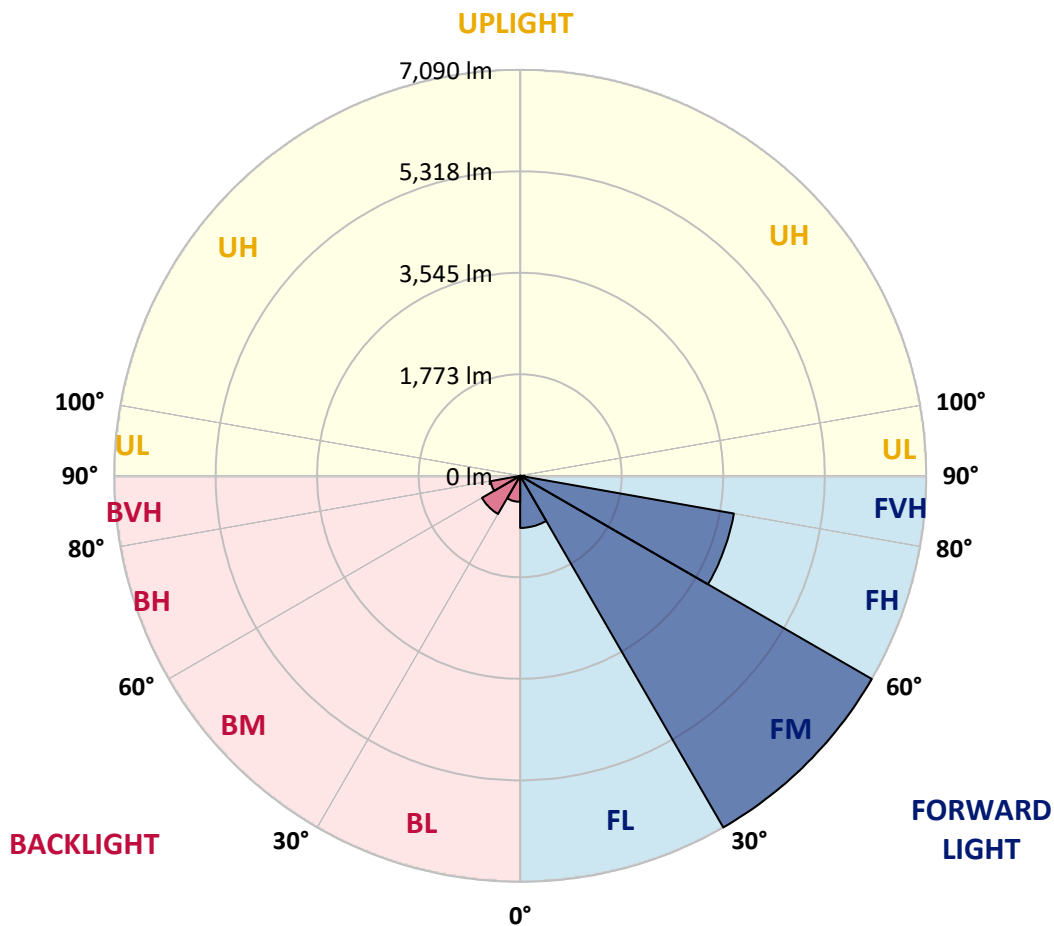
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	909.4	6.7			
FM (30°-60°)	7090.1	52.1			
FH (60°-80°)	3789.1	27.8			G2/5000
FVH (80°-90°)	77.6	0.6			G1/100
BL (0°-30°)	454.3	3.3	B1/500		
BM (30°-60°)	770.0	5.7	B1/1000		
BH (60°-80°)	524.8	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°	2098.0	2098.0	2098.0	2098.0	2098.0	2098.0	2098.0	2098.0	2098.0	2098.0	2098.0
2.5°	2134.0	2128.9	2123.7	2121.2	2121.2	2118.6	2108.3	2105.7	2100.6	2095.4	2090.3
5°	2113.4	2105.7	2103.2	2105.7	2108.3	2113.4	2108.3	2108.3	2103.2	2098.0	2087.7
7.5°	2062.0	2056.9	2059.4	2067.2	2069.7	2087.7	2090.3	2098.0	2098.0	2092.9	2085.2
10°	2000.3	1997.7	1997.7	2010.6	2023.5	2049.2	2067.2	2087.7	2090.3	2090.3	2077.4
12.5°	1954.0	1951.5	1959.2	1974.6	2000.3	2033.7	2064.6	2095.4	2100.6	2103.2	2082.6
15°	1925.8	1925.8	1936.0	1966.9	2002.9	2049.2	2085.2	2126.3	2131.4	2128.9	2100.6
17.5°	1900.0	1902.6	1923.2	1974.6	2015.7	2077.4	2121.2	2167.4	2170.0	2167.4	2121.2
20°	1889.8	1894.9	1925.8	1992.6	2038.9	2108.3	2164.9	2211.1	2213.7	2203.4	2141.7
22.5°	1918.0	1920.6	1959.2	2031.2	2074.9	2152.0	2224.0	2267.7	2270.3	2254.9	2172.6
25°	2015.7	2015.7	2049.2	2110.9	2149.4	2226.6	2303.7	2355.1	2355.1	2337.1	2242.0
27.5°	2244.6	2224.0	2216.3	2234.3	2247.1	2329.4	2411.7	2476.0	2473.4	2447.7	2332.0
30°	2686.8	2635.4	2553.1	2460.5	2414.3	2470.8	2548.0	2630.2	2627.7	2586.5	2442.5
32.5°	3429.8	3355.3	3159.9	2915.6	2717.6	2653.4	2725.4	2815.4	2817.9	2769.1	2619.9
35°	4471.1	4352.9	4003.2	3663.8	3211.3	2967.0	2987.6	3085.3	3116.2	3090.5	2918.2
37.5°	5473.9	5365.9	5031.6	4561.1	3946.6	3447.8	3360.4	3445.3	3481.3	3481.3	3298.7
40°	6484.3	6358.3	6062.6	5589.6	4941.6	4198.6	3884.9	3954.3	3992.9	4000.6	3761.5
42.5°	7294.2	7211.9	6985.7	6618.0	6011.2	5515.0	4640.8	4602.3	4638.3	4610.0	4298.9
45°	7854.7	7790.4	7633.6	7494.7	7199.1	6949.7	5651.3	5391.6	5414.7	5317.0	4903.1
47.5°	7970.4	7898.4	7865.0	8057.8	8268.6	8330.4	6893.1	6330.0	6306.9	6090.9	5530.4
50°	7466.5	7474.2	7597.6	8147.8	9027.1	9582.5	8332.9	7389.3	7304.5	6823.7	6114.1
52.5°	6378.9	6502.3	6813.4	7705.6	9258.5	10492.6	9772.7	8512.9	8381.8	7535.9	6551.2
55°	4990.5	5149.9	5661.6	6687.4	8775.2	10898.9	10986.3	9680.2	9381.9	8070.7	6890.5
57.5°	3710.1	3758.9	4355.4	5291.3	7631.0	10500.4	11608.5	10580.1	10197.0	8497.5	7227.4
60°	2311.4	2342.3	2972.2	4028.9	5779.8	9027.1	11608.5	11199.7	10834.6	8880.6	7535.9
62.5°	1437.2	1447.5	1684.1	2761.4	3928.6	6695.1	11127.7	11680.5	11387.4	9155.7	7800.7
65°	827.9	838.2	948.7	1560.7	2555.7	4008.3	9898.7	11821.9	11690.8	9374.2	8006.4
67.5°	604.2	609.3	653.1	876.7	1671.2	2059.4	7435.6	11253.7	11418.2	9482.2	8001.3
70°	524.5	532.2	588.8	683.9	1205.8	1265.0	3784.7	9718.7	10179.0	9327.9	7762.1
72.5°	403.7	413.9	498.8	642.8	884.5	910.2	1370.4	6916.2	7613.0	8363.8	7106.5
75°	277.7	288.0	372.8	529.6	730.2	681.3	753.3	3183.0	4016.1	5610.1	5409.6
77.5°	177.4	180.0	234.0	385.7	629.9	483.4	516.8	1038.7	1457.8	2537.7	2553.1
80°	118.3	120.8	144.0	249.4	431.9	447.4	318.8	480.8	527.1	740.5	514.2
82.5°	72.0	72.0	97.7	156.8	262.3	370.2	208.3	252.0	270.0	285.4	133.7
85°	28.3	28.3	59.1	102.8	164.6	172.3	131.1	146.6	154.3	167.1	61.7
87.5°	7.7	7.7	33.4	56.6	72.0	79.7	79.7	72.0	77.1	95.1	30.9
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°	2098.0	2098.0	2098.0	2098.0	2098.0	2098.0	2098.0	2098.0	2098.0	2098.0	2098.0
2.5°	2087.7	2080.0	2069.7	2059.4	2049.2	2041.5	2033.7	2033.7	2028.6	2020.9	2015.7
5°	2082.6	2069.7	2046.6	2028.6	2000.3	1979.7	1964.3	1951.5	1943.7	1925.8	1923.2
7.5°	2074.9	2059.4	2026.0	1990.0	1943.7	1907.8	1871.8	1846.0	1820.3	1799.8	1794.6
10°	2062.0	2044.0	1995.2	1943.7	1879.5	1812.6	1727.8	1630.1	1540.1	1488.7	1473.2
12.5°	2062.0	2038.9	1974.6	1905.2	1812.6	1648.1	1432.1	1216.1	1049.0	974.4	953.9
15°	2074.9	2044.0	1959.2	1864.0	1691.8	1357.5	1007.9	722.5	539.9	483.4	470.5
17.5°	2087.7	2044.0	1936.0	1807.5	1470.7	984.7	573.4	380.5	321.4	308.5	308.5
20°	2092.9	2038.9	1905.2	1702.1	1175.0	611.9	342.0	285.4	262.3	254.5	254.5
22.5°	2113.4	2041.5	1882.0	1550.4	853.6	360.0	270.0	239.1	216.0	208.3	208.3
25°	2164.9	2072.3	1887.2	1357.5	547.6	272.5	228.8	198.0	174.8	164.6	164.6
27.5°	2247.1	2141.7	1915.5	1133.9	344.5	234.0	192.8	159.4	141.4	131.1	131.1
30°	2339.7	2218.9	1928.3	876.7	257.1	198.0	156.8	126.0	113.1	105.4	102.8
32.5°	2501.7	2352.6	1918.0	601.6	210.8	167.1	126.0	100.3	90.0	87.4	87.4
35°	2761.4	2586.5	1897.5	378.0	174.8	133.7	100.3	82.3	74.6	72.0	69.4
37.5°	3113.6	2928.5	1835.8	249.4	144.0	105.4	82.3	69.4	61.7	59.1	59.1
40°	3543.0	3319.3	1717.5	190.3	123.4	84.8	69.4	59.1	54.0	51.4	51.4
42.5°	4034.0	3753.8	1529.8	164.6	102.8	72.0	59.1	48.9	46.3	43.7	43.7
45°	4571.4	4208.9	1270.1	146.6	87.4	59.1	48.9	43.7	38.6	38.6	36.0
47.5°	5142.2	4666.5	977.0	128.6	74.6	51.4	43.7	36.0	33.4	30.9	30.9
50°	5692.4	5075.3	686.5	110.6	61.7	43.7	36.0	30.9	28.3	25.7	25.7
52.5°	6080.6	5322.2	485.9	95.1	51.4	38.6	28.3	23.1	20.6	20.6	20.6
55°	6391.7	5476.4	339.4	79.7	43.7	33.4	23.1	18.0	18.0	15.4	15.4
57.5°	6684.8	5576.7	249.4	66.8	36.0	25.7	18.0	12.9	12.9	10.3	10.3
60°	6988.2	5630.7	190.3	54.0	30.9	20.6	12.9	10.3	7.7	7.7	7.7
62.5°	7294.2	5664.1	146.6	43.7	25.7	15.4	10.3	7.7	5.1	2.6	2.6
65°	7561.6	5674.4	113.1	33.4	20.6	10.3	7.7	2.6	0.0	0.0	0.0
67.5°	7641.3	5556.1	87.4	25.7	15.4	7.7	5.1	0.0	0.0	0.0	0.0
70°	7425.3	5242.5	66.8	20.6	12.9	5.1	2.6	0.0	0.0	0.0	0.0
72.5°	6589.7	4396.6	51.4	12.9	10.3	5.1	2.6	0.0	0.0	0.0	0.0
75°	4715.4	2344.8	36.0	10.3	7.7	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	2170.0	907.6	25.7	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0
80°	424.2	226.3	10.3	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	97.7	38.6	5.1	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.4	12.9	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	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)