

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: P399610

Luminaire Tested: **ARCH-L-PA3-160-830-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-160-830-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14463 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

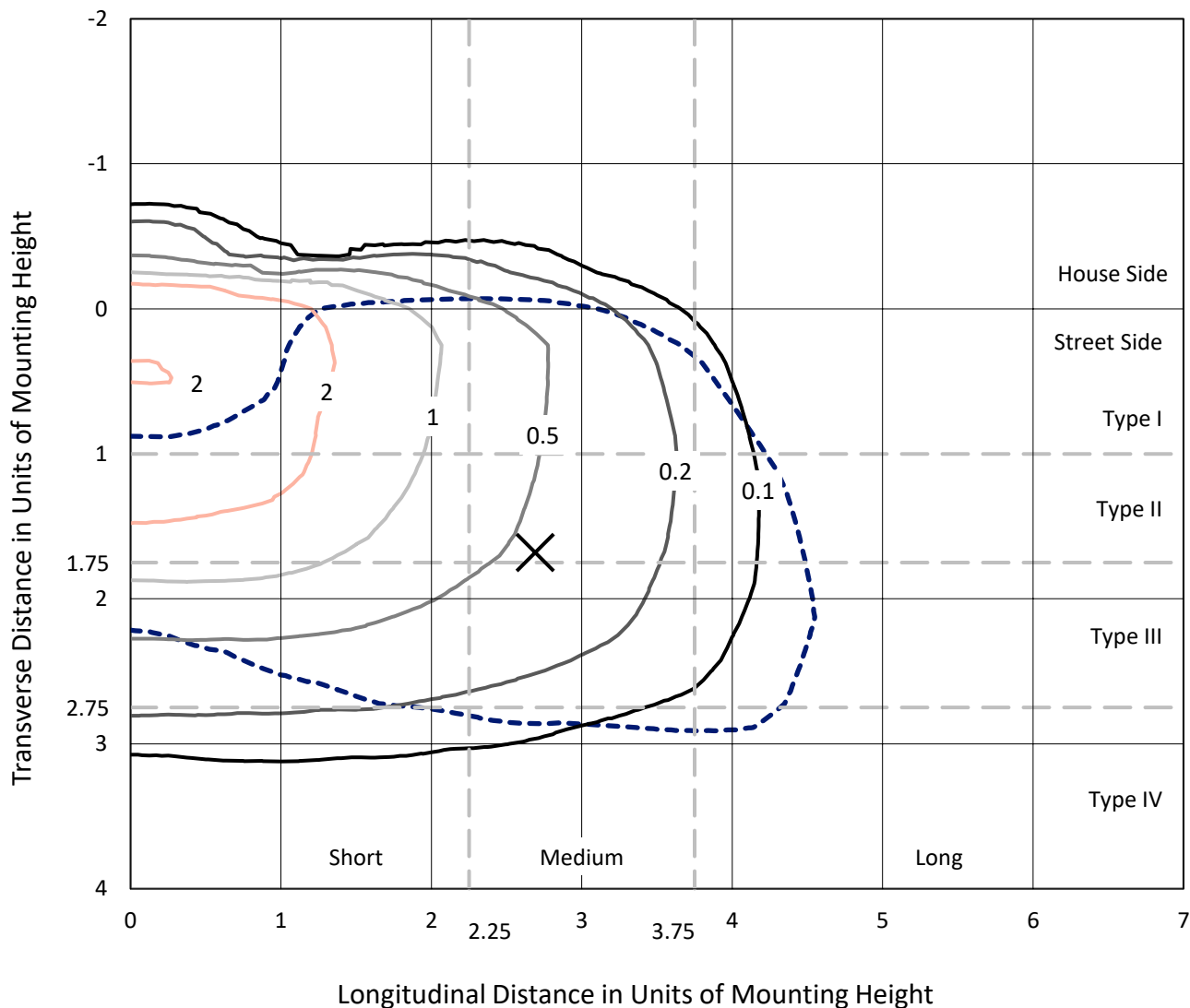
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

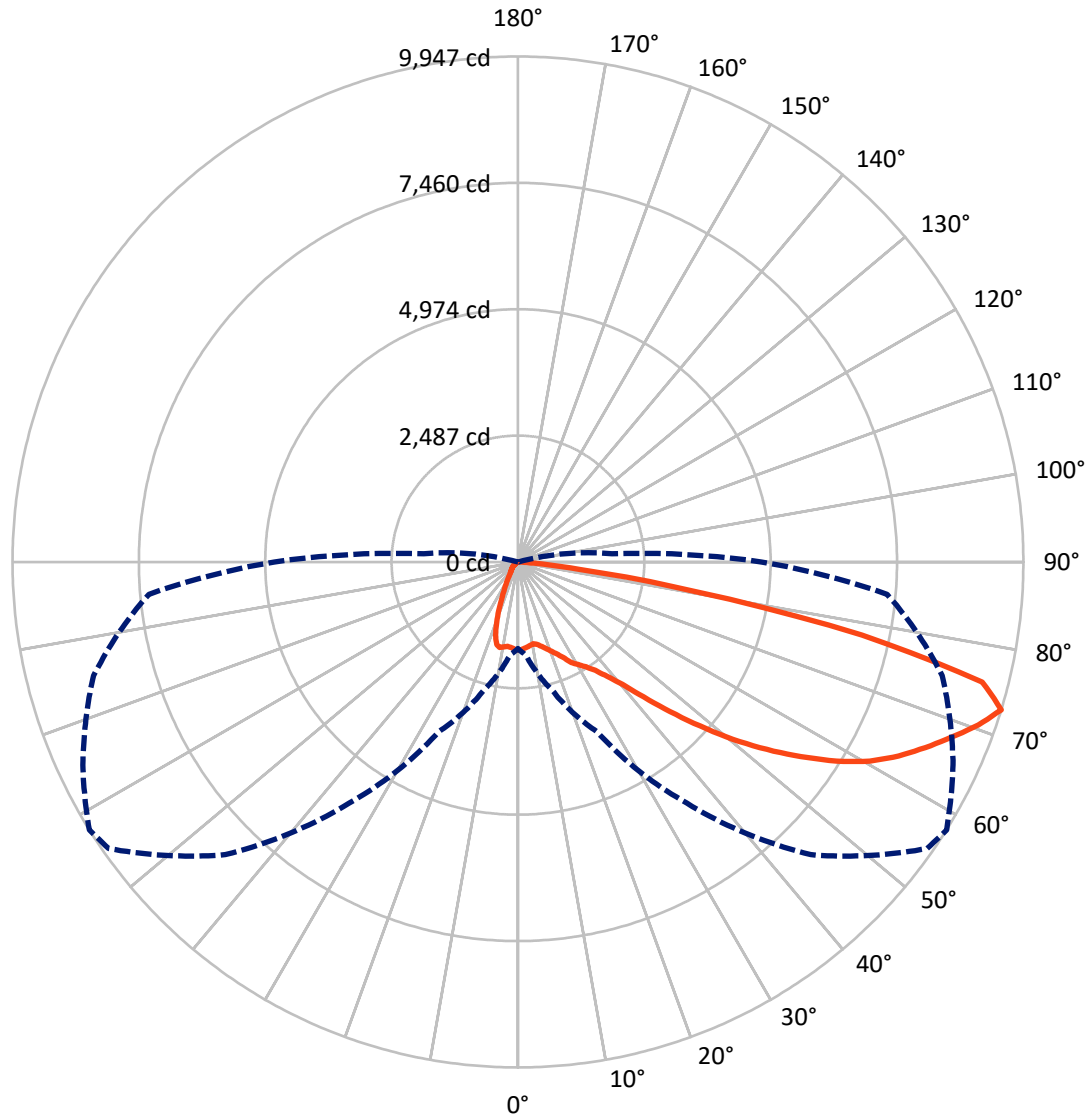
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1406.4	0.0	1406.4
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	13056.6	0.0	13056.6
	% Fixture	90.3	0.0	90.3
Total	Lumens	14463.0	0.0	14463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	1.1
10°-20°	414.8	2.9
20°-30°	651.7	4.5
30°-40°	1123.9	7.8
40°-50°	2138.3	14.8
50°-60°	3386.3	23.4
60°-70°	3951.5	27.3
70°-80°	2474.8	17.1
80°-90°	162.4	1.1
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°	14463.0	100.0
0°-180°	14463.0	100.0

Coefficient of Utilization



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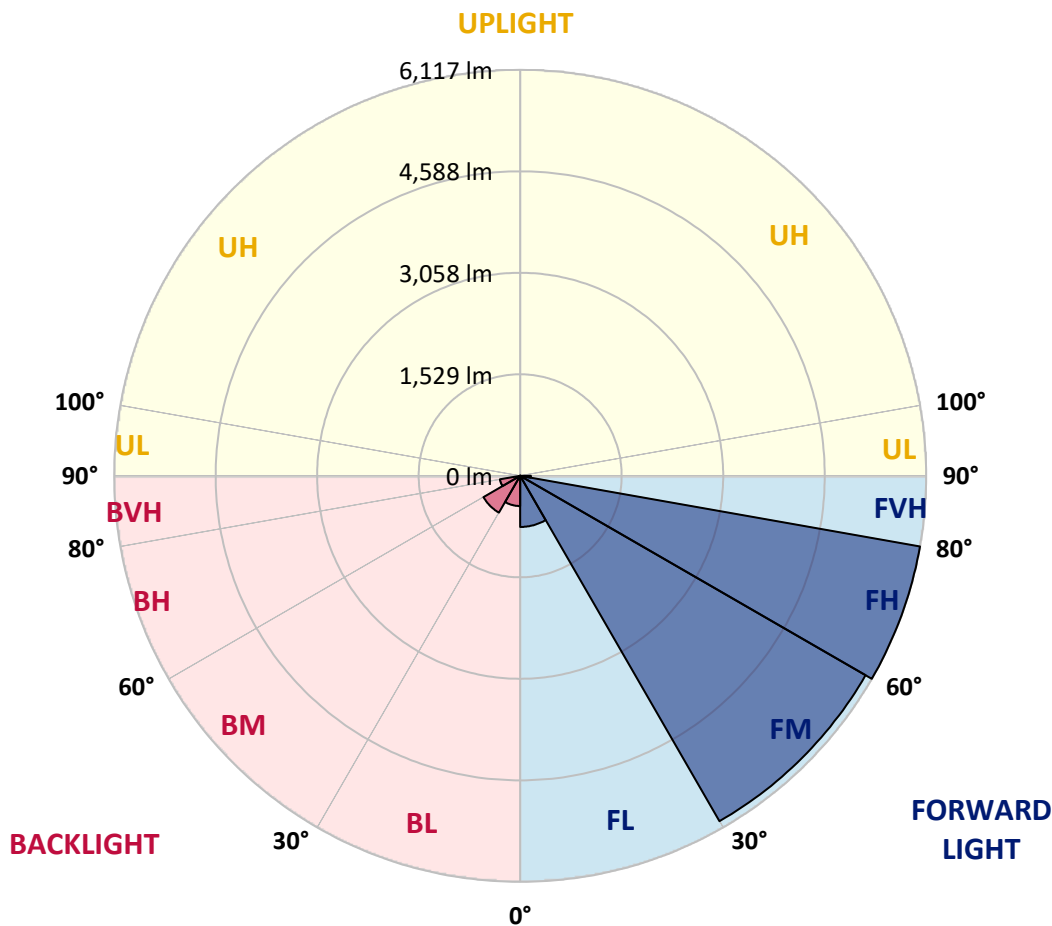
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	770.4	5.3			
FM (30°-60°)	6008.5	41.5			
FH (60°-80°)	6116.8	42.3			G3/7500
FVH (80°-90°)	160.9	1.1			G2/225
BL (0°-30°)	455.4	3.1	B1/500		
BM (30°-60°)	639.9	4.4	B1/1000		
BH (60°-80°)	309.5	2.1	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5
2.5°	1727.7	1720.0	1717.4	1714.8	1717.4	1720.0	1712.2	1720.0	1714.8	1717.4	1722.5
5°	1665.6	1657.9	1655.3	1657.9	1665.6	1678.6	1683.7	1691.5	1691.5	1699.3	1701.8
7.5°	1595.8	1590.6	1588.0	1593.2	1608.7	1637.2	1652.7	1663.1	1673.4	1688.9	1704.4
10°	1557.0	1554.4	1551.8	1559.6	1575.1	1601.0	1621.7	1637.2	1676.0	1720.0	1748.4
12.5°	1531.1	1531.1	1536.3	1551.8	1572.5	1593.2	1642.4	1663.1	1722.5	1789.8	1828.6
15°	1510.5	1510.5	1518.2	1546.7	1575.1	1624.3	1696.7	1720.0	1789.8	1872.6	1924.3
17.5°	1494.9	1500.1	1505.3	1533.7	1588.0	1670.8	1756.2	1789.8	1875.1	1965.7	2022.6
20°	1497.5	1502.7	1505.3	1533.7	1611.3	1725.1	1833.8	1872.6	1970.8	2066.5	2123.4
22.5°	1513.0	1520.8	1523.4	1562.2	1652.7	1782.0	1921.7	1965.7	2071.7	2172.6	2216.5
25°	1577.7	1582.9	1567.4	1601.0	1712.2	1870.0	2035.5	2082.0	2188.1	2281.2	2317.4
27.5°	1797.5	1802.7	1717.4	1678.6	1758.7	1942.4	2175.2	2239.8	2371.7	2433.8	2439.0
30°	2273.4	2278.6	2110.5	1926.9	1870.0	2004.5	2252.8	2343.3	2514.0	2583.8	2552.8
32.5°	2886.4	2881.2	2651.1	2379.5	2133.8	2113.1	2364.0	2459.7	2645.9	2713.1	2689.9
35°	3502.0	3509.7	3313.2	2904.5	2552.8	2317.4	2506.2	2617.4	2842.4	2938.1	2896.8
37.5°	3923.6	3975.3	3889.9	3447.7	3067.5	2695.0	2736.4	2855.4	3137.3	3266.6	3178.7
40°	4518.4	4505.5	4298.6	3972.7	3636.5	3253.7	3108.8	3165.7	3489.0	3662.3	3525.3
42.5°	5317.6	5291.8	4940.0	4621.9	4246.9	3933.9	3639.1	3628.7	3892.5	4094.3	3895.1
45°	6041.8	6003.0	5762.5	5454.7	5043.5	4684.0	4285.7	4195.1	4378.8	4549.5	4316.7
47.5°	6618.6	6553.9	6383.2	6220.3	6119.4	5560.8	4963.3	4826.2	4919.3	5046.1	4717.6
50°	7301.4	7122.9	6874.6	6776.4	6985.9	6553.9	5615.1	5483.2	5478.0	5550.4	5131.4
52.5°	7611.8	7288.5	7148.8	7231.6	7601.4	7477.3	6318.6	6129.8	6054.8	6062.5	5516.8
55°	7236.7	7200.5	7275.5	7534.2	8017.8	7945.4	6993.6	6760.8	6649.6	6510.0	5886.6
57.5°	6810.0	6921.2	7218.6	7712.6	8545.5	8434.2	7658.3	7394.5	7190.2	6869.5	6297.9
60°	6416.8	6530.7	7022.1	7754.0	8835.1	8905.0	8211.8	7960.9	7658.3	7236.7	6750.5
62.5°	5819.4	5907.3	6597.9	7694.5	8708.4	9179.1	8597.2	8408.4	8126.5	7585.9	7270.4
65°	5146.9	5203.8	5886.6	7218.6	8460.1	9148.1	8915.3	8809.3	8535.1	7950.6	7785.1
67.5°	4409.8	4477.1	5046.1	6362.5	7973.9	9003.2	9215.3	9205.0	8892.0	8354.1	8157.5
70°	3561.5	3566.6	4037.4	5276.2	7125.5	8713.6	9587.8	9611.0	9233.4	8656.7	8173.0
72.5°	1704.4	1844.1	2617.4	3683.0	5790.9	8144.6	9830.9	9947.3	9448.1	8646.3	7291.1
75°	390.5	403.5	763.0	1751.0	3395.9	6251.3	9223.1	9440.3	8925.7	7477.3	5136.6
77.5°	142.3	150.0	214.7	512.1	1306.1	3230.4	6600.5	6918.6	6597.9	4834.0	2428.6
80°	95.7	93.1	111.2	227.6	600.0	915.6	3375.2	3564.1	3253.7	1650.1	581.9
82.5°	49.1	51.7	77.6	126.7	403.5	318.1	1127.7	1226.0	1008.7	331.1	108.6
85°	23.3	23.3	44.0	80.2	170.7	111.2	250.9	302.6	271.6	144.8	36.2
87.5°	23.3	23.3	41.4	51.7	87.9	46.6	62.1	77.6	72.4	77.6	12.9
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°	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5
2.5°	1722.5	1720.0	1717.4	1722.5	1720.0	1725.1	1725.1	1730.3	1730.3	1725.1	1722.5
5°	1699.3	1694.1	1688.9	1688.9	1686.3	1691.5	1707.0	1720.0	1722.5	1714.8	1712.2
7.5°	1701.8	1701.8	1696.7	1686.3	1668.2	1668.2	1668.2	1683.7	1691.5	1686.3	1683.7
10°	1748.4	1751.0	1738.1	1714.8	1683.7	1655.3	1601.0	1520.8	1445.8	1425.1	1417.3
12.5°	1828.6	1831.2	1805.3	1763.9	1699.3	1531.1	1324.2	1132.8	985.4	944.0	936.3
15°	1924.3	1926.9	1880.3	1813.1	1616.5	1226.0	918.2	700.9	571.6	540.6	538.0
17.5°	2022.6	2017.4	1947.6	1818.2	1370.8	869.0	558.7	447.4	413.8	406.1	408.7
20°	2118.3	2102.7	2007.0	1722.5	1055.2	569.0	408.7	382.8	375.0	369.9	369.9
22.5°	2206.2	2175.2	2056.2	1533.7	739.7	408.7	364.7	359.5	349.2	341.4	338.8
25°	2294.1	2250.2	2087.2	1288.0	496.6	356.9	344.0	333.6	320.7	310.4	307.8
27.5°	2400.2	2338.1	2071.7	977.7	372.4	331.1	320.7	305.2	287.1	271.6	266.4
30°	2501.0	2431.2	1983.8	675.0	318.1	305.2	289.7	266.4	243.1	225.0	219.8
32.5°	2627.8	2547.6	1826.0	442.3	276.7	266.4	250.9	222.4	191.4	170.7	165.5
35°	2808.8	2718.3	1624.3	310.4	243.1	225.0	204.3	173.3	139.7	124.1	121.6
37.5°	3062.3	2940.7	1370.8	250.9	214.7	188.8	157.8	126.7	103.5	90.5	87.9
40°	3372.7	3186.4	1088.9	222.4	191.4	157.8	119.0	90.5	75.0	64.7	64.7
42.5°	3708.9	3416.6	801.8	204.3	168.1	129.3	87.9	64.7	54.3	49.1	46.6
45°	4055.5	3621.0	540.6	188.8	147.4	98.3	62.1	44.0	36.2	36.2	33.6
47.5°	4415.0	3758.0	349.2	170.7	124.1	72.4	41.4	31.0	25.9	25.9	25.9
50°	4771.9	3830.5	248.3	155.2	100.9	49.1	31.0	23.3	20.7	20.7	20.7
52.5°	5030.5	3783.9	199.2	134.5	77.6	36.2	23.3	18.1	15.5	15.5	15.5
55°	5255.6	3703.7	173.3	116.4	56.9	25.9	18.1	15.5	12.9	12.9	12.9
57.5°	5485.7	3600.3	155.2	98.3	41.4	18.1	12.9	10.3	10.3	10.3	10.3
60°	5695.2	3424.4	134.5	77.6	28.5	12.9	10.3	7.8	7.8	7.8	7.8
62.5°	5899.6	3274.4	116.4	59.5	20.7	10.3	5.2	5.2	2.6	2.6	2.6
65°	6016.0	3072.6	93.1	38.8	12.9	7.8	2.6	2.6	0.0	0.0	0.0
67.5°	5979.7	2832.1	64.7	23.3	7.8	5.2	2.6	0.0	0.0	0.0	0.0
70°	5728.9	2508.8	38.8	12.9	7.8	5.2	2.6	0.0	0.0	0.0	0.0
72.5°	4797.8	1857.0	23.3	10.3	5.2	2.6	0.0	0.0	0.0	0.0	0.0
75°	3204.5	853.5	12.9	7.8	2.6	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	1466.5	256.1	7.8	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	294.8	67.2	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.1	12.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	2.6	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)