

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: P399295

Luminaire Tested: **ARCH-L-PA3-120-750-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399295  
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-PA3-120-750-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 530mA 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: 14392 lumens  
Efficiency: N/A  
Efficacy: 117.0 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

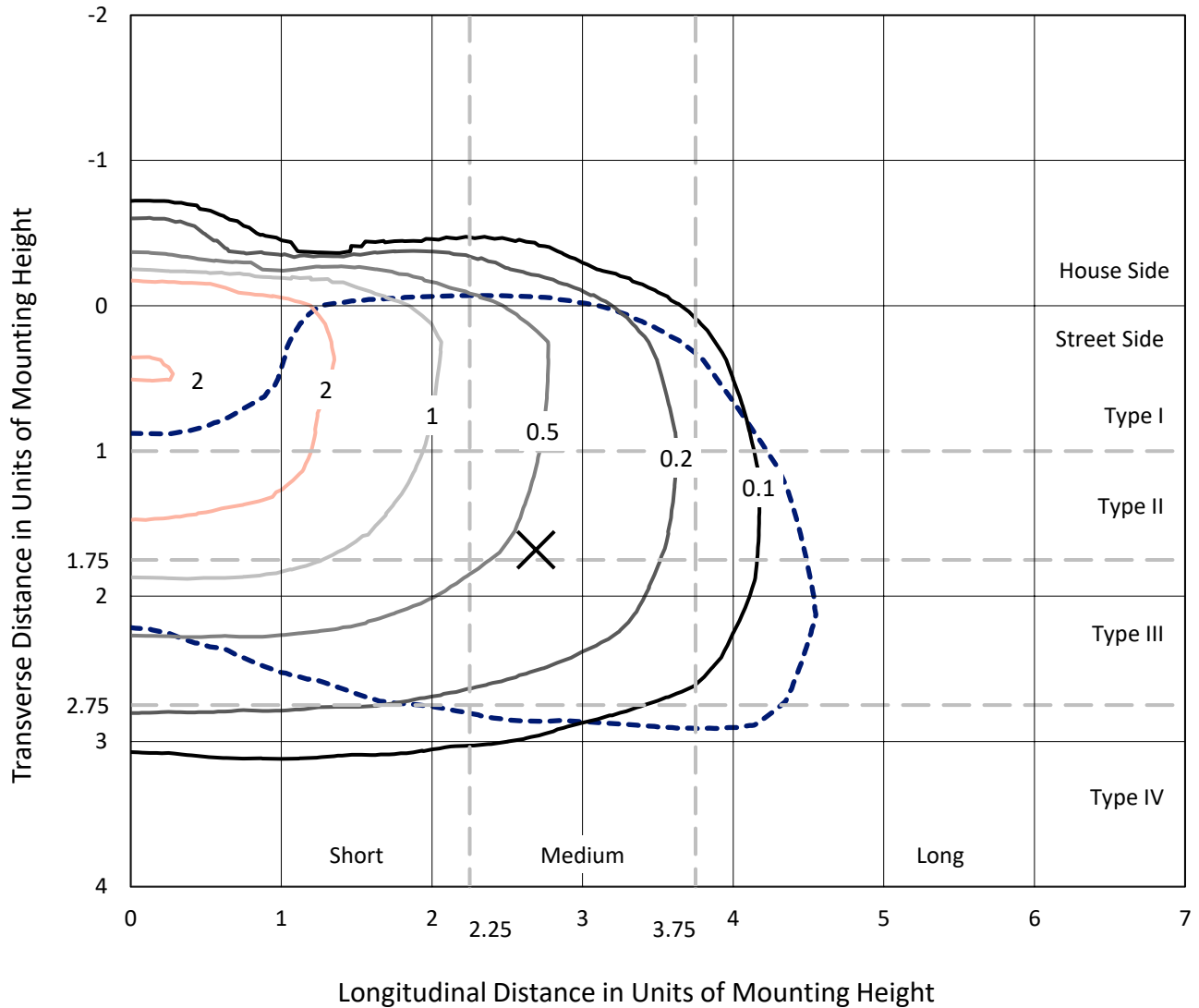
Input Watts (W): 123  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

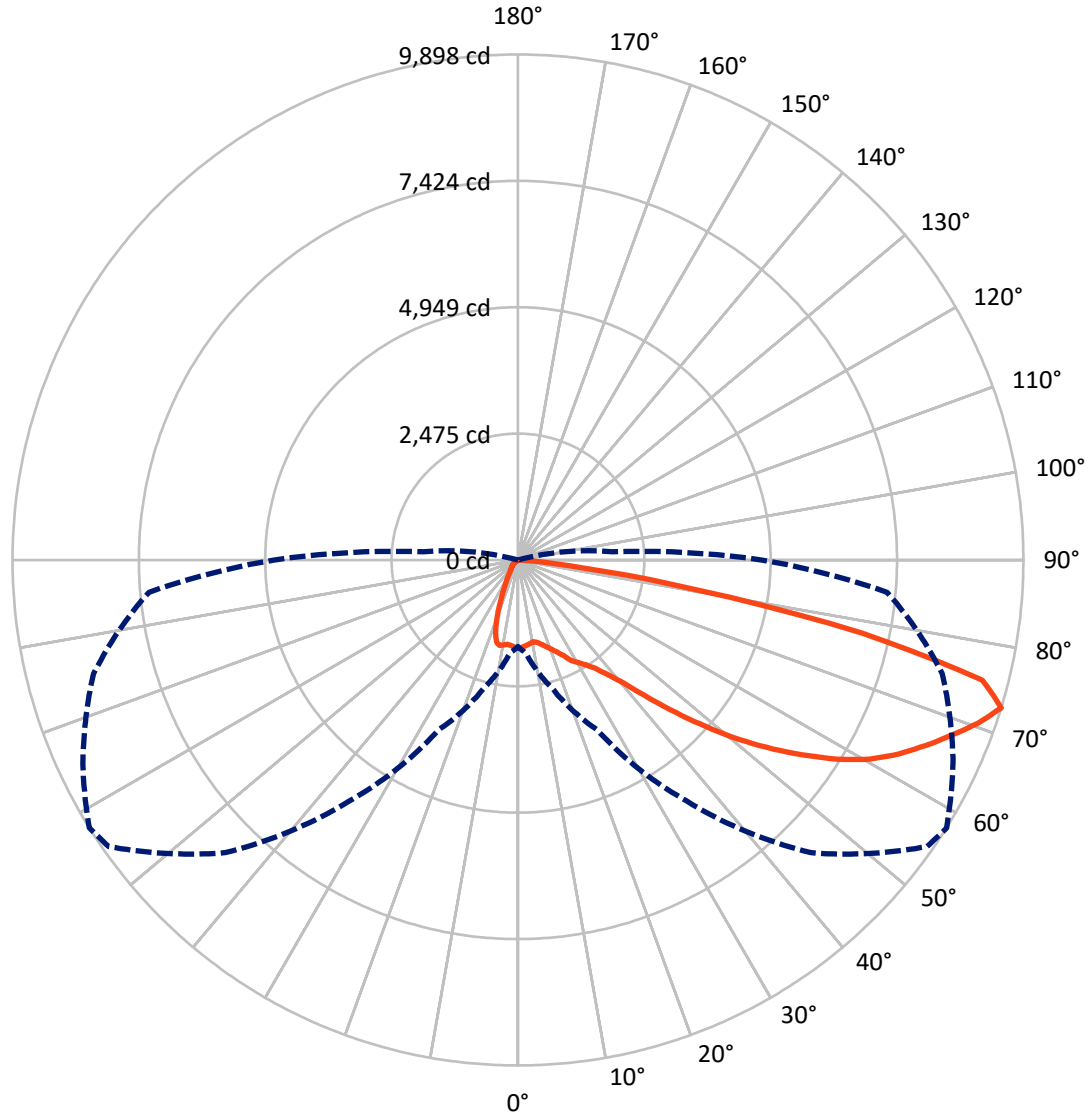
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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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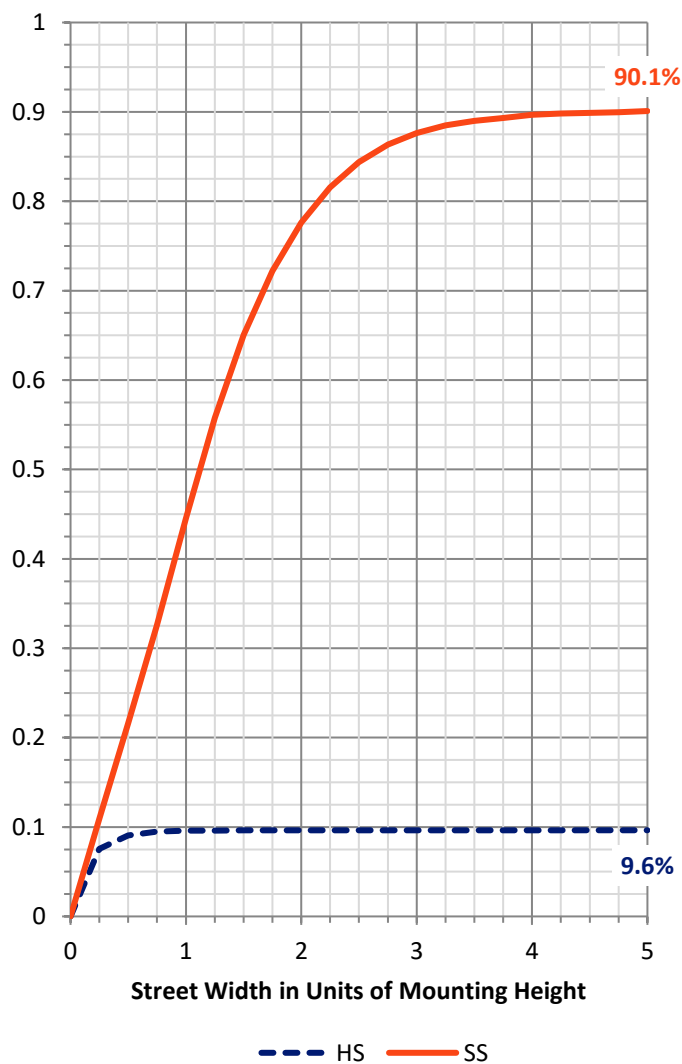
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1399.5	0.0	1399.5
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	12992.5	0.0	12992.5
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	14392.0	0.0	14392.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.5	1.1
10°-20°	412.8	2.9
20°-30°	648.5	4.5
30°-40°	1118.4	7.8
40°-50°	2127.8	14.8
50°-60°	3369.7	23.4
60°-70°	3932.1	27.3
70°-80°	2462.7	17.1
80°-90°	161.7	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°	14392.0	100.0
0°-180°	14392.0	100.0

**Coefficient of Utilization**

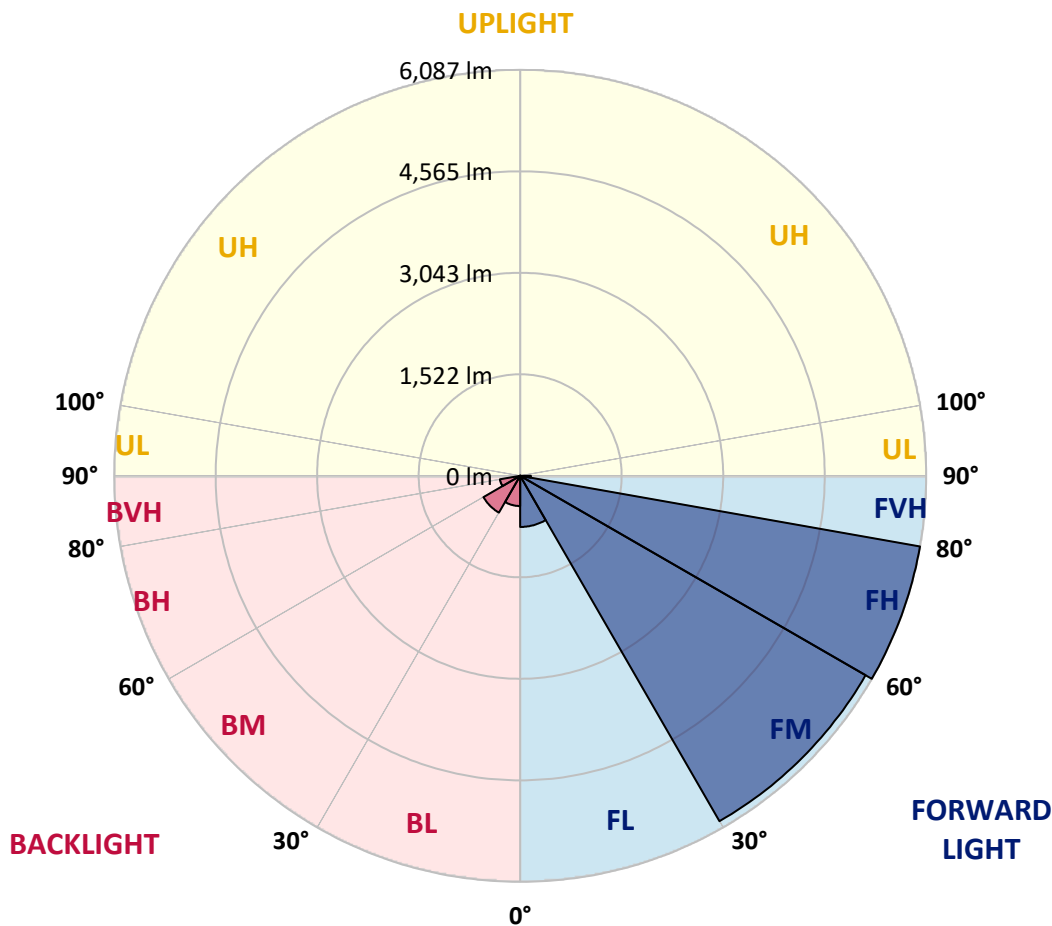


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.6	5.3			
FM (30°-60°)	5979.0	41.5			
FH (60°-80°)	6086.8	42.3			G3/7500
FVH (80°-90°)	160.1	1.1			G2/225
BL (0°-30°)	453.2	3.1	B1/500		
BM (30°-60°)	636.8	4.4	B1/1000		
BH (60°-80°)	308.0	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°	1727.0	1727.0	1727.0	1727.0	1727.0	1727.0	1727.0	1727.0	1727.0	1727.0	1727.0
2.5°	1719.2	1711.5	1708.9	1706.4	1708.9	1711.5	1703.8	1711.5	1706.4	1708.9	1714.1
5°	1657.5	1649.7	1647.2	1649.7	1657.5	1670.3	1675.5	1683.2	1683.2	1690.9	1693.5
7.5°	1588.0	1582.8	1580.3	1585.4	1600.8	1629.2	1644.6	1654.9	1665.2	1680.6	1696.1
10°	1549.4	1546.8	1544.2	1551.9	1567.4	1593.1	1613.7	1629.2	1667.8	1711.5	1739.8
12.5°	1523.6	1523.6	1528.8	1544.2	1564.8	1585.4	1634.3	1654.9	1714.1	1781.0	1819.6
15°	1503.0	1503.0	1510.8	1539.1	1567.4	1616.3	1688.3	1711.5	1781.0	1863.4	1914.8
17.5°	1487.6	1492.7	1497.9	1526.2	1580.3	1662.6	1747.5	1781.0	1865.9	1956.0	2012.6
20°	1490.2	1495.3	1497.9	1526.2	1603.4	1716.7	1824.8	1863.4	1961.2	2056.4	2113.0
22.5°	1505.6	1513.3	1515.9	1554.5	1644.6	1773.3	1912.3	1956.0	2061.5	2161.9	2205.7
25°	1570.0	1575.1	1559.7	1593.1	1703.8	1860.8	2025.5	2071.8	2177.3	2270.0	2306.0
27.5°	1788.7	1793.9	1708.9	1670.3	1750.1	1932.8	2164.5	2228.8	2360.1	2421.9	2427.0
30°	2262.3	2267.4	2100.1	1917.4	1860.8	1994.6	2241.7	2331.8	2501.6	2571.1	2540.2
32.5°	2872.2	2867.1	2638.0	2367.8	2123.3	2102.7	2352.4	2447.6	2632.9	2699.8	2676.6
35°	3484.8	3492.5	3296.9	2890.3	2540.2	2306.0	2493.9	2604.6	2828.5	2923.7	2882.5
37.5°	3904.3	3955.8	3870.8	3430.7	3052.4	2681.8	2723.0	2841.4	3121.9	3250.6	3163.1
40°	4496.3	4483.4	4277.5	3953.2	3618.6	3237.7	3093.6	3150.2	3471.9	3644.4	3508.0
42.5°	5291.5	5265.8	4915.8	4599.2	4226.0	3914.6	3621.2	3610.9	3873.4	4074.2	3876.0
45°	6012.2	5973.6	5734.2	5427.9	5018.7	4661.0	4264.6	4174.5	4357.3	4527.1	4295.5
47.5°	6586.1	6521.8	6351.9	6189.7	6089.4	5533.5	4938.9	4802.5	4895.2	5021.3	4694.4
50°	7265.6	7088.0	6840.9	6743.1	6951.6	6521.8	5587.5	5456.2	5451.1	5523.2	5106.2
52.5°	7574.4	7252.7	7113.7	7196.1	7564.1	7440.6	6287.5	6099.7	6025.0	6032.8	5489.7
55°	7201.2	7165.2	7239.8	7497.2	7978.5	7906.4	6959.3	6727.7	6617.0	6478.0	5857.7
57.5°	6776.6	6887.2	7183.2	7674.8	8503.5	8392.8	7620.7	7358.2	7154.9	6835.7	6267.0
60°	6385.3	6498.6	6987.6	7716.0	8791.8	8861.2	8171.5	7921.8	7620.7	7201.2	6717.4
62.5°	5790.8	5878.3	6565.5	7656.8	8665.6	9134.1	8555.0	8367.1	8086.6	7548.7	7234.7
65°	5121.7	5178.3	5857.7	7183.2	8418.6	9103.2	8871.5	8766.0	8493.2	7911.6	7746.8
67.5°	4388.2	4455.1	5021.3	6331.3	7934.7	8959.0	9170.1	9159.8	8848.4	8313.0	8117.4
70°	3544.0	3549.1	4017.5	5250.3	7090.5	8670.8	9540.7	9563.9	9188.1	8614.2	8132.9
72.5°	1696.1	1835.0	2604.6	3664.9	5762.5	8104.6	9782.6	9898.4	9401.7	8603.9	7255.3
75°	388.6	401.5	759.2	1742.4	3379.3	6220.6	9177.8	9394.0	8881.8	7440.6	5111.4
77.5°	141.6	149.3	213.6	509.6	1299.7	3214.6	6568.1	6884.6	6565.5	4810.2	2416.7
80°	95.2	92.7	110.7	226.5	597.1	911.1	3358.7	3546.6	3237.7	1642.0	579.1
82.5°	48.9	51.5	77.2	126.1	401.5	316.6	1122.1	1219.9	1003.7	329.4	108.1
85°	23.2	23.2	43.8	79.8	169.9	110.7	249.6	301.1	270.2	144.1	36.0
87.5°	23.2	23.2	41.2	51.5	87.5	46.3	61.8	77.2	72.1	77.2	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°	1727.0	1727.0	1727.0	1727.0	1727.0	1727.0	1727.0	1727.0	1727.0	1727.0	1727.0
2.5°	1714.1	1711.5	1708.9	1714.1	1711.5	1716.7	1716.7	1721.8	1721.8	1716.7	1714.1
5°	1690.9	1685.8	1680.6	1680.6	1678.1	1683.2	1698.6	1711.5	1714.1	1706.4	1703.8
7.5°	1693.5	1693.5	1688.3	1678.1	1660.0	1660.0	1660.0	1675.5	1683.2	1678.1	1675.5
10°	1739.8	1742.4	1729.5	1706.4	1675.5	1647.2	1593.1	1513.3	1438.7	1418.1	1410.4
12.5°	1819.6	1822.2	1796.4	1755.3	1690.9	1523.6	1317.7	1127.3	980.6	939.4	931.7
15°	1914.8	1917.4	1871.1	1804.2	1608.6	1219.9	913.7	697.5	568.8	537.9	535.3
17.5°	2012.6	2007.5	1938.0	1809.3	1364.1	864.8	555.9	445.2	411.8	404.1	406.6
20°	2107.9	2092.4	1997.2	1714.1	1050.1	566.2	406.6	380.9	373.2	368.0	368.0
22.5°	2195.4	2164.5	2046.1	1526.2	736.1	406.6	362.9	357.7	347.4	339.7	337.2
25°	2282.9	2239.1	2077.0	1281.7	494.2	355.2	342.3	332.0	319.1	308.8	306.3
27.5°	2388.4	2326.6	2061.5	972.9	370.6	329.4	319.1	303.7	285.7	270.2	265.1
30°	2488.8	2419.3	1974.0	671.7	316.6	303.7	288.3	265.1	241.9	223.9	218.8
32.5°	2614.9	2535.1	1817.0	440.1	275.4	265.1	249.6	221.3	190.5	169.9	164.7
35°	2795.0	2705.0	1616.3	308.8	241.9	223.9	203.3	172.4	139.0	123.5	121.0
37.5°	3047.3	2926.3	1364.1	249.6	213.6	187.9	157.0	126.1	102.9	90.1	87.5
40°	3356.1	3170.8	1083.5	221.3	190.5	157.0	118.4	90.1	74.6	64.3	64.3
42.5°	3690.7	3399.9	797.8	203.3	167.3	128.7	87.5	64.3	54.0	48.9	46.3
45°	4035.6	3603.2	537.9	187.9	146.7	97.8	61.8	43.8	36.0	36.0	33.5
47.5°	4393.3	3739.6	347.4	169.9	123.5	72.1	41.2	30.9	25.7	25.7	25.7
50°	4748.5	3811.6	247.1	154.4	100.4	48.9	30.9	23.2	20.6	20.6	20.6
52.5°	5005.8	3765.3	198.2	133.8	77.2	36.0	23.2	18.0	15.4	15.4	15.4
55°	5229.8	3685.5	172.4	115.8	56.6	25.7	18.0	15.4	12.9	12.9	12.9
57.5°	5458.8	3582.6	154.4	97.8	41.2	18.0	12.9	10.3	10.3	10.3	10.3
60°	5667.3	3407.6	133.8	77.2	28.3	12.9	10.3	7.7	7.7	7.7	7.7
62.5°	5870.6	3258.3	115.8	59.2	20.6	10.3	5.1	5.1	2.6	2.6	2.6
65°	5986.4	3057.6	92.7	38.6	12.9	7.7	2.6	2.6	0.0	0.0	0.0
67.5°	5950.4	2818.2	64.3	23.2	7.7	5.1	2.6	0.0	0.0	0.0	0.0
70°	5700.7	2496.5	38.6	12.9	7.7	5.1	2.6	0.0	0.0	0.0	0.0
72.5°	4774.2	1847.9	23.2	10.3	5.1	2.6	0.0	0.0	0.0	0.0	0.0
75°	3188.8	849.3	12.9	7.7	2.6	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	1459.3	254.8	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	293.4	66.9	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	61.8	12.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.9	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	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)