

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: P399334

Luminaire Tested: **ARCH-L-PA3-130-722-U-T4W**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399334  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-130-722-U-T4W  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15465 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G3

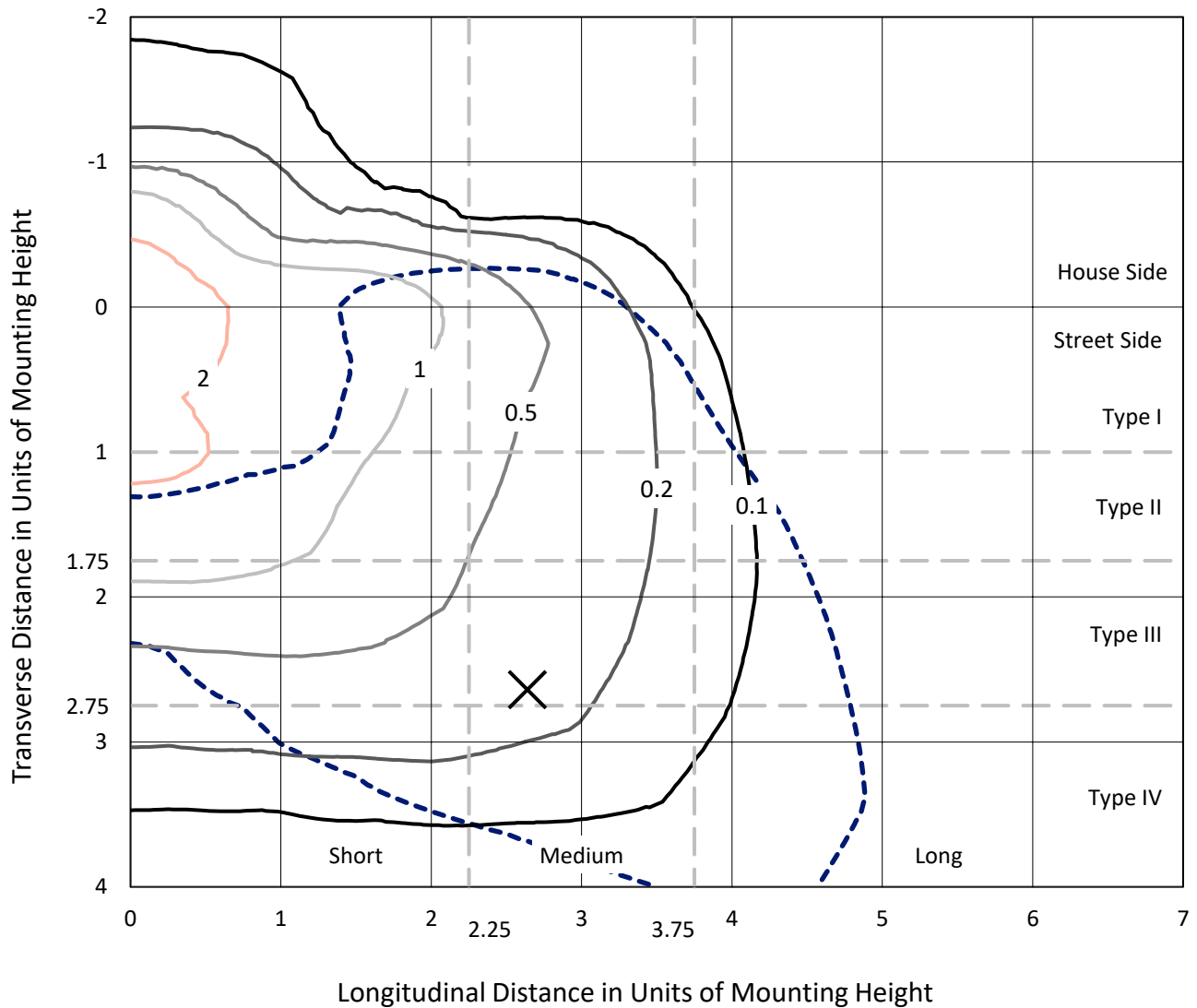
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

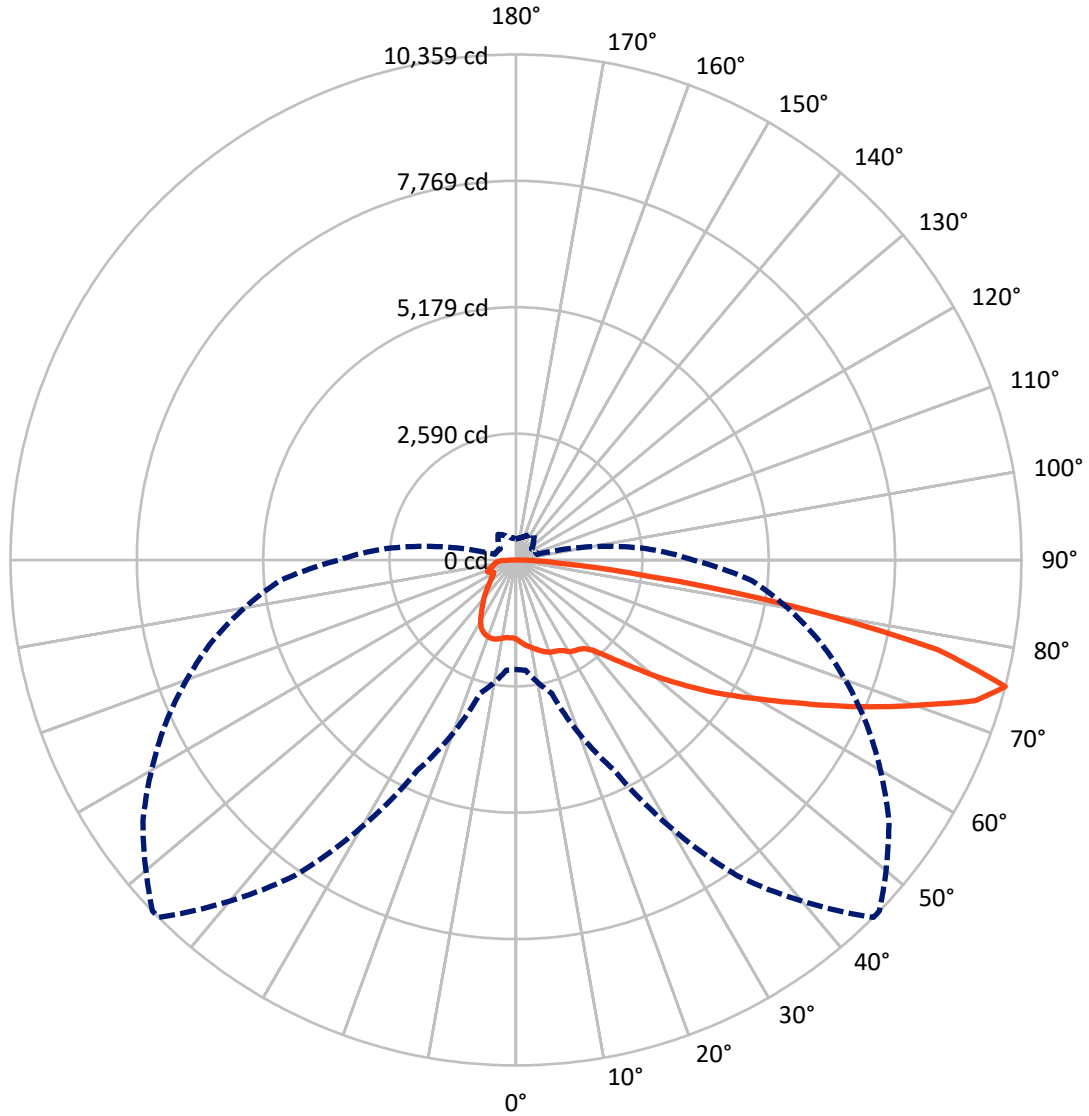
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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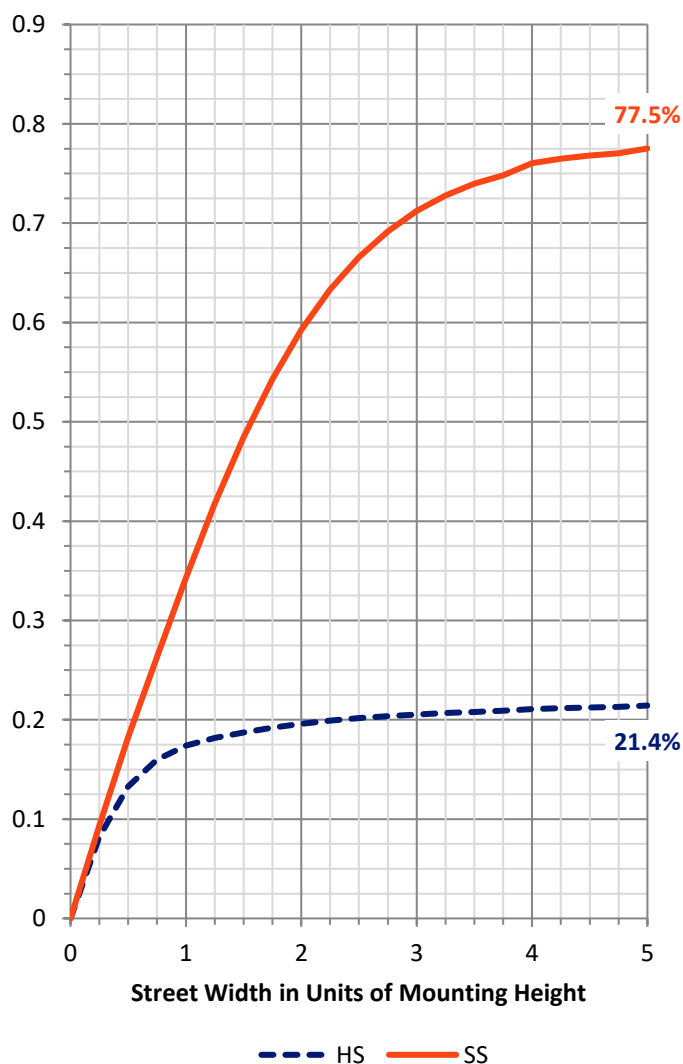
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3417.7	0.0	3417.7
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	12047.3	0.0	12047.3
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	15465.0	0.0	15465.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.7	1.0
10°-20°	511.2	3.3
20°-30°	871.5	5.6
30°-40°	1221.0	7.9
40°-50°	1793.9	11.6
50°-60°	2855.0	18.5
60°-70°	4061.2	26.3
70°-80°	3400.4	22.0
80°-90°	590.1	3.8
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°	15465.0	100.0
0°-180°	15465.0	100.0

**Coefficient of Utilization**



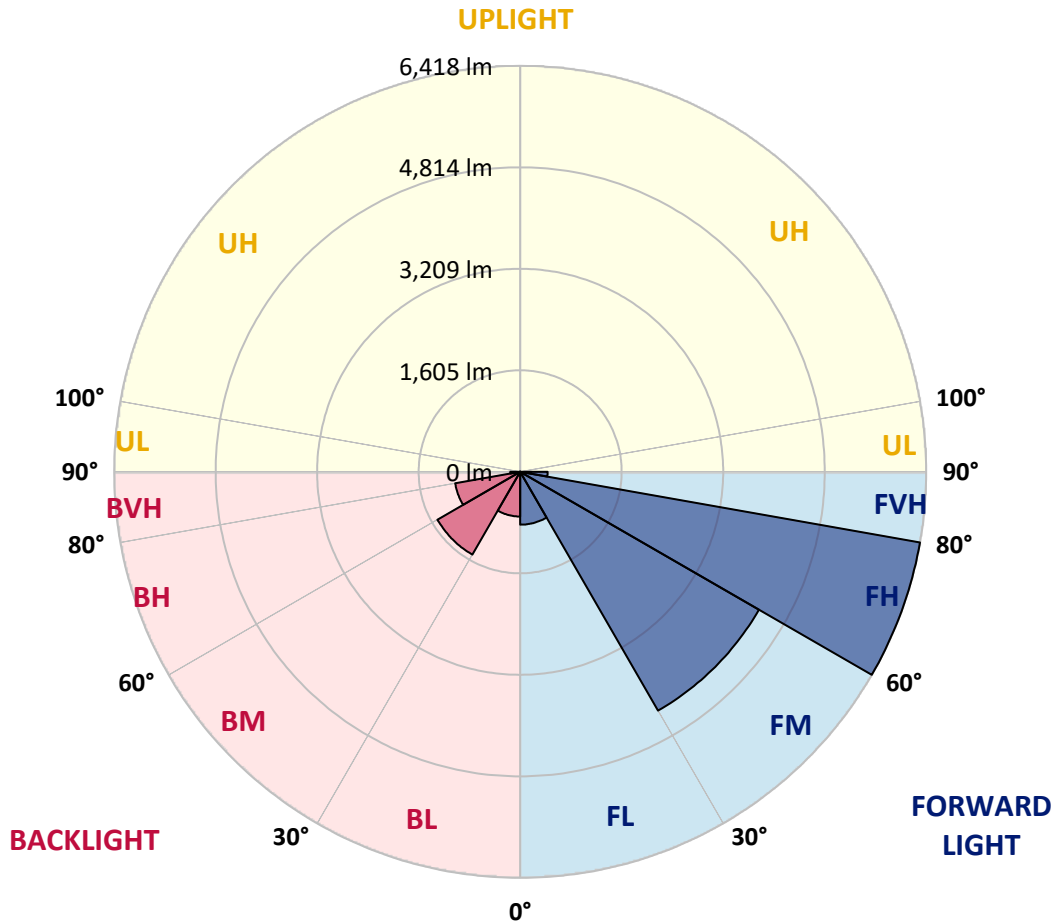
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	836.0	5.4			
FM (30°-60°)	4359.1	28.2			
FH (60°-80°)	6418.4	41.5			G3/7500
FVH (80°-90°)	433.9	2.8			G3/500
BL (0°-30°)	707.3	4.6	B2/1000		
BM (30°-60°)	1510.8	9.8	B2/2500		
BH (60°-80°)	1043.3	6.7	B3/2500		G3/2500
BVH (80°-90°)	156.3	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2
2.5°	1717.1	1708.9	1704.8	1704.8	1688.2	1677.9	1675.8	1661.4	1649.0	1636.6	1626.2
5°	1816.3	1810.1	1797.7	1787.4	1764.7	1735.7	1731.6	1700.6	1669.6	1640.7	1615.9
7.5°	1907.3	1894.9	1880.4	1859.7	1822.5	1783.3	1777.1	1733.7	1690.3	1646.9	1613.8
10°	1983.7	1971.3	1950.6	1921.7	1874.2	1826.7	1820.5	1775.0	1729.5	1677.9	1630.4
12.5°	2056.0	2045.7	2014.7	1975.4	1919.7	1876.3	1870.1	1830.8	1783.3	1725.4	1663.4
15°	2118.0	2107.7	2074.6	2029.2	1965.1	1932.1	1923.8	1886.6	1839.1	1777.1	1713.0
17.5°	2149.0	2149.0	2113.9	2064.3	2004.4	1979.6	1973.4	1927.9	1884.5	1824.6	1760.5
20°	2159.4	2163.5	2138.7	2078.8	2027.1	2016.8	2010.6	1973.4	1923.8	1865.9	1806.0
22.5°	2165.6	2173.8	2153.2	2085.0	2041.6	2035.4	2031.2	2006.4	1967.2	1911.4	1851.5
25°	2186.2	2186.2	2171.8	2095.3	2060.2	2058.1	2058.1	2043.6	2016.8	1969.2	1909.3
27.5°	2217.2	2215.1	2196.5	2118.0	2101.5	2107.7	2105.6	2103.6	2085.0	2037.4	1973.4
30°	2268.9	2268.9	2248.2	2163.5	2153.2	2180.0	2182.1	2186.2	2157.3	2082.9	2031.2
32.5°	2347.4	2339.1	2318.5	2208.9	2192.4	2217.2	2221.3	2219.3	2194.5	2124.2	2099.4
35°	2589.2	2570.6	2496.2	2310.2	2227.5	2242.0	2244.1	2254.4	2258.5	2202.7	2190.3
37.5°	3012.8	2988.0	2874.3	2549.9	2339.1	2304.0	2301.9	2328.8	2351.5	2301.9	2301.9
40°	3473.6	3452.9	3386.8	2963.2	2545.8	2430.0	2421.8	2446.6	2475.5	2440.4	2450.7
42.5°	3870.3	3886.8	3893.0	3401.2	2855.7	2665.6	2642.9	2607.8	2653.2	2622.2	2663.5
45°	4167.9	4159.6	4273.2	3849.6	3256.6	2961.1	2930.1	2835.1	2892.9	2890.8	2981.8
47.5°	4484.0	4469.5	4517.1	4271.2	3713.3	3322.7	3275.2	3134.7	3221.5	3281.4	3432.2
50°	4783.6	4787.8	4804.3	4603.9	4209.2	3762.9	3702.9	3514.9	3638.9	3764.9	3977.8
52.5°	5174.2	5145.3	5124.6	4992.3	4765.0	4221.6	4182.3	3967.4	4141.0	4289.8	4572.9
55°	5515.1	5496.5	5484.1	5477.9	5230.0	4727.8	4686.5	4463.3	4713.4	4818.8	5236.2
57.5°	5878.8	5868.5	5934.6	6040.0	5940.8	5242.4	5199.0	4984.1	5263.0	5337.4	5955.3
60°	6145.4	6151.6	6333.4	6602.0	6533.8	5800.3	5748.6	5558.5	5798.2	5864.3	6674.4
62.5°	6147.4	6209.4	6631.0	7112.4	7191.0	6442.9	6383.0	6176.4	6347.9	6347.9	7319.1
65°	5560.6	5630.8	6577.2	7238.5	7856.3	7207.5	7149.6	6825.2	6889.3	6802.5	7924.5
67.5°	4975.8	5058.5	5949.1	7248.8	8323.3	8025.8	7957.6	7474.0	7364.5	7145.5	8348.1
70°	4587.3	4645.2	5389.1	7114.5	8604.3	8881.2	8829.6	8089.8	7738.5	7432.7	8259.3
72.5°	3862.0	3841.4	4552.2	6476.0	8761.4	9852.4	9809.0	8759.3	8063.0	7296.3	7044.2
75°	2242.0	2266.8	2824.7	4744.4	7897.6	10358.7	10354.6	9331.7	7920.4	6445.0	4853.9
77.5°	646.8	665.4	927.8	2085.0	4994.4	8835.8	9118.9	8534.1	6695.0	4593.5	2516.8
80°	283.1	297.6	402.9	694.3	2151.1	5771.4	6019.3	5771.4	4037.7	2107.7	987.7
82.5°	167.4	177.7	262.4	429.8	1031.1	2746.2	3081.0	2690.4	1741.9	894.7	409.1
85°	95.1	99.2	150.8	272.8	648.8	960.9	1078.6	1010.5	849.3	508.3	214.9
87.5°	43.4	45.5	74.4	128.1	363.7	324.4	336.8	446.3	491.8	310.0	107.5
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°	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2
2.5°	1622.1	1615.9	1603.5	1599.4	1593.2	1595.2	1597.3	1597.3	1599.4	1593.2	1593.2
5°	1605.6	1595.2	1582.8	1582.8	1582.8	1599.4	1613.8	1622.1	1626.2	1626.2	1622.1
7.5°	1599.4	1587.0	1572.5	1576.6	1580.8	1601.4	1628.3	1655.2	1663.4	1663.4	1659.3
10°	1611.8	1599.4	1589.0	1595.2	1605.6	1622.1	1642.8	1667.6	1688.2	1690.3	1688.2
12.5°	1640.7	1626.2	1615.9	1628.3	1640.7	1651.0	1661.4	1671.7	1698.6	1702.7	1702.7
15°	1688.2	1673.8	1661.4	1671.7	1675.8	1675.8	1675.8	1675.8	1702.7	1706.8	1706.8
17.5°	1735.7	1723.3	1711.0	1713.0	1700.6	1684.1	1677.9	1675.8	1690.3	1702.7	1704.8
20°	1781.2	1770.9	1758.5	1737.8	1706.8	1675.8	1665.5	1665.5	1673.8	1692.4	1692.4
22.5°	1830.8	1818.4	1797.7	1750.2	1698.6	1655.2	1644.8	1651.0	1661.4	1686.2	1684.1
25°	1886.6	1870.1	1834.9	1746.1	1671.7	1620.0	1622.1	1640.7	1659.3	1686.2	1686.2
27.5°	1948.6	1925.9	1855.6	1713.0	1611.8	1562.2	1580.8	1624.2	1651.0	1680.0	1684.1
30°	2016.8	1996.1	1872.1	1655.2	1514.6	1469.2	1514.6	1584.9	1626.2	1653.1	1659.3
32.5°	2099.4	2082.9	1886.6	1580.8	1388.6	1349.3	1415.5	1502.2	1568.4	1599.4	1605.6
35°	2202.7	2186.2	1905.2	1496.0	1270.8	1229.5	1289.4	1378.3	1465.1	1504.3	1516.7
37.5°	2337.1	2312.3	1921.7	1405.1	1171.6	1124.1	1153.0	1233.6	1312.1	1365.9	1380.3
40°	2508.6	2469.3	1936.2	1301.8	1084.8	1031.1	1041.4	1080.7	1126.2	1173.7	1192.3
42.5°	2750.3	2671.8	1938.3	1192.3	996.0	946.4	942.3	954.7	954.7	954.7	960.9
45°	3087.2	2938.4	1942.4	1089.0	905.1	853.4	841.0	836.9	805.9	746.0	741.8
47.5°	3512.8	3287.6	1961.0	1002.2	810.0	764.6	748.0	731.5	673.6	611.6	599.2
50°	4058.3	3692.6	1998.2	919.5	729.4	698.4	677.8	638.5	574.4	526.9	514.5
52.5°	4686.5	4174.1	2033.3	832.7	669.5	648.8	624.0	576.5	508.3	479.4	475.3
55°	5407.7	4711.3	2103.6	756.3	617.8	603.4	580.6	535.2	483.5	462.9	460.8
57.5°	6145.4	5312.6	2202.7	688.1	568.3	560.0	560.0	520.7	487.7	479.4	479.4
60°	6856.2	5829.2	2126.3	624.0	522.8	526.9	566.2	555.9	531.1	541.4	547.6
62.5°	7407.9	6133.0	1725.4	572.4	489.7	526.9	628.2	628.2	599.2	595.1	595.1
65°	7643.5	6128.8	1213.0	533.1	477.3	578.6	700.5	667.4	591.0	562.1	555.9
67.5°	7583.6	5860.2	836.9	506.3	473.2	632.3	733.6	640.6	553.8	529.0	510.4
70°	7056.6	5292.0	644.7	481.5	467.0	609.6	723.2	609.6	524.9	502.1	485.6
72.5°	5692.8	4244.3	535.2	456.7	442.2	564.1	688.1	580.6	502.1	477.3	460.8
75°	3630.6	2669.7	452.5	423.6	394.7	506.3	640.6	551.7	477.3	444.3	431.9
77.5°	1746.1	1151.0	394.7	384.3	355.4	469.1	593.0	514.5	444.3	417.4	409.1
80°	706.7	526.9	343.0	345.1	326.5	446.3	560.0	479.4	411.2	382.3	367.8
82.5°	367.8	305.8	289.3	297.6	297.6	425.7	535.2	450.5	382.3	369.9	322.4
85°	198.4	190.1	223.2	239.7	258.3	384.3	498.0	419.5	349.2	299.6	289.3
87.5°	97.1	124.0	126.0	144.6	179.8	307.9	419.5	351.3	291.4	241.8	237.6
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)