

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: P399325

Luminaire Tested: **ARCH-L-PA3-120-830-U-T4W**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399325  
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-PA3-120-830-U-T4W  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15598 lumens  
Efficiency: N/A  
Efficacy: 126.8 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

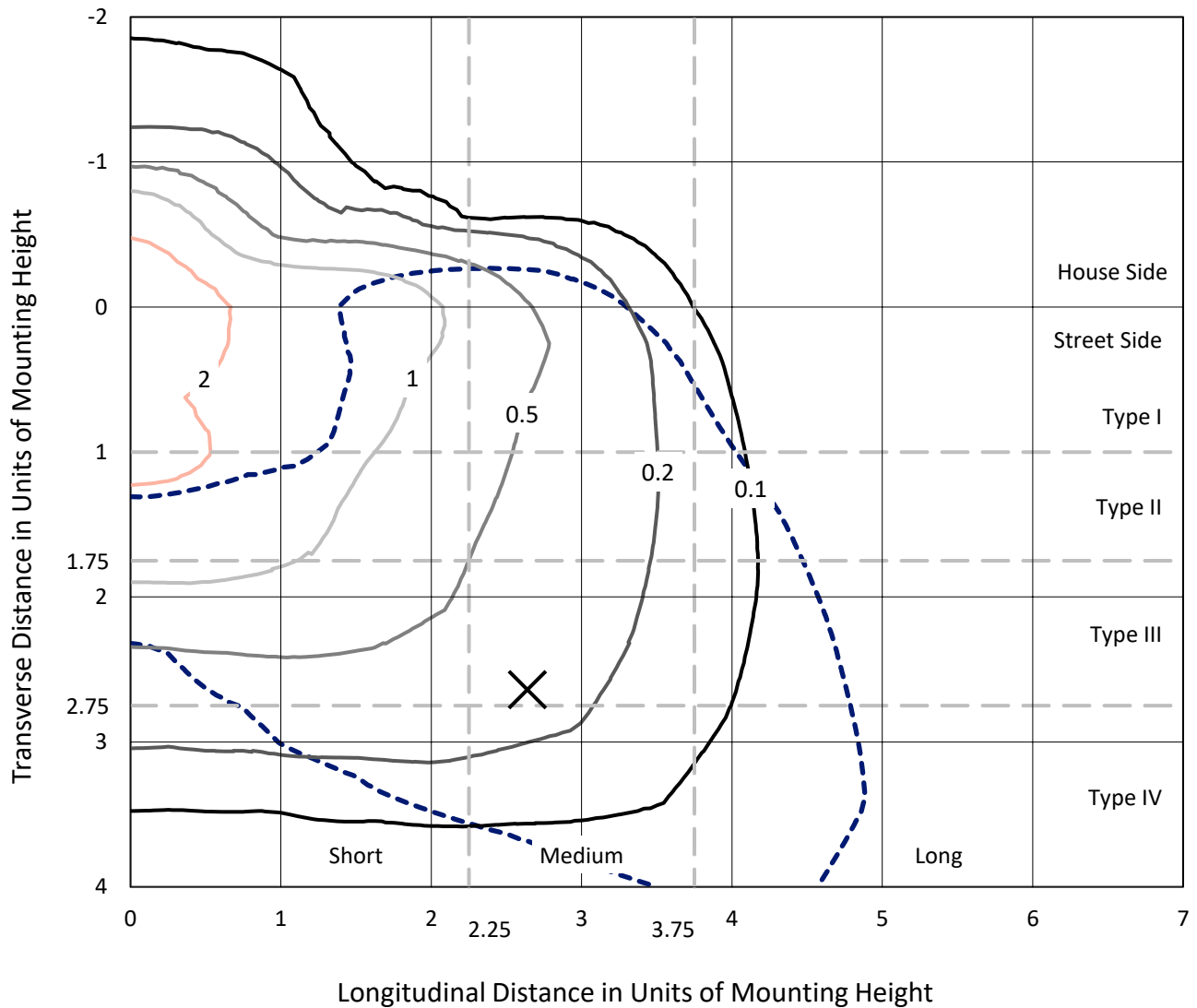
Input Watts (W): 123  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

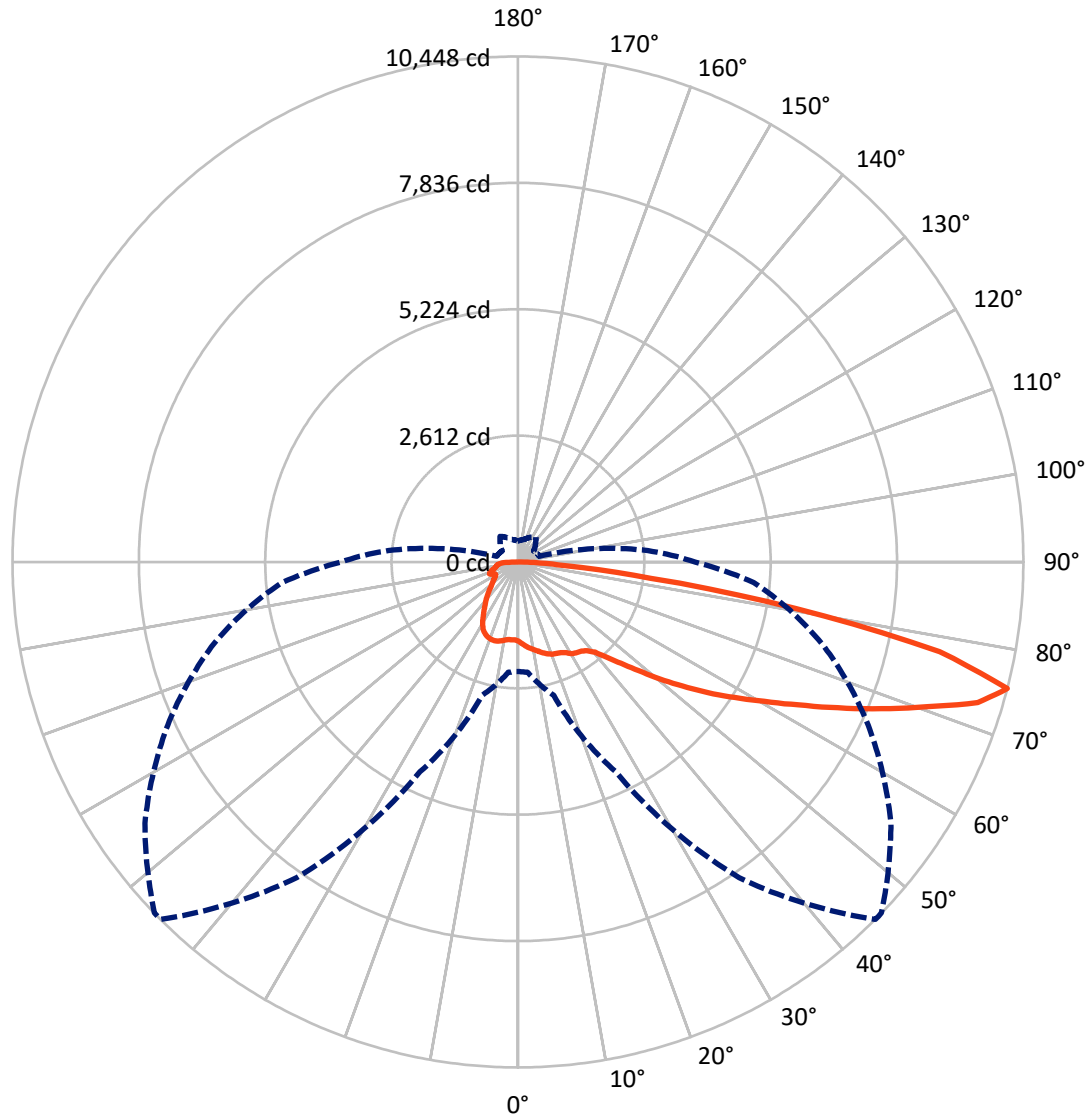
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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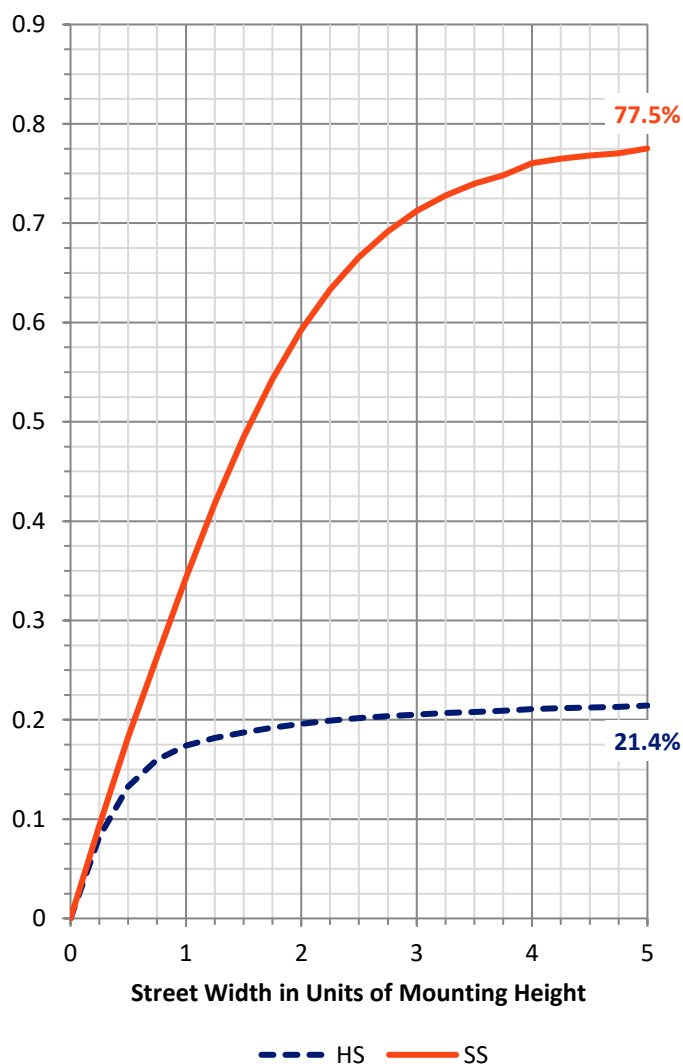
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3447.1	0.0	3447.1
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	12150.9	0.0	12150.9
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	15598.0	0.0	15598.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.1	1.0
10°-20°	515.6	3.3
20°-30°	879.0	5.6
30°-40°	1231.5	7.9
40°-50°	1809.3	11.6
50°-60°	2879.5	18.5
60°-70°	4096.1	26.3
70°-80°	3429.7	22.0
80°-90°	595.2	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°	15598.0	100.0
0°-180°	15598.0	100.0

**Coefficient of Utilization**

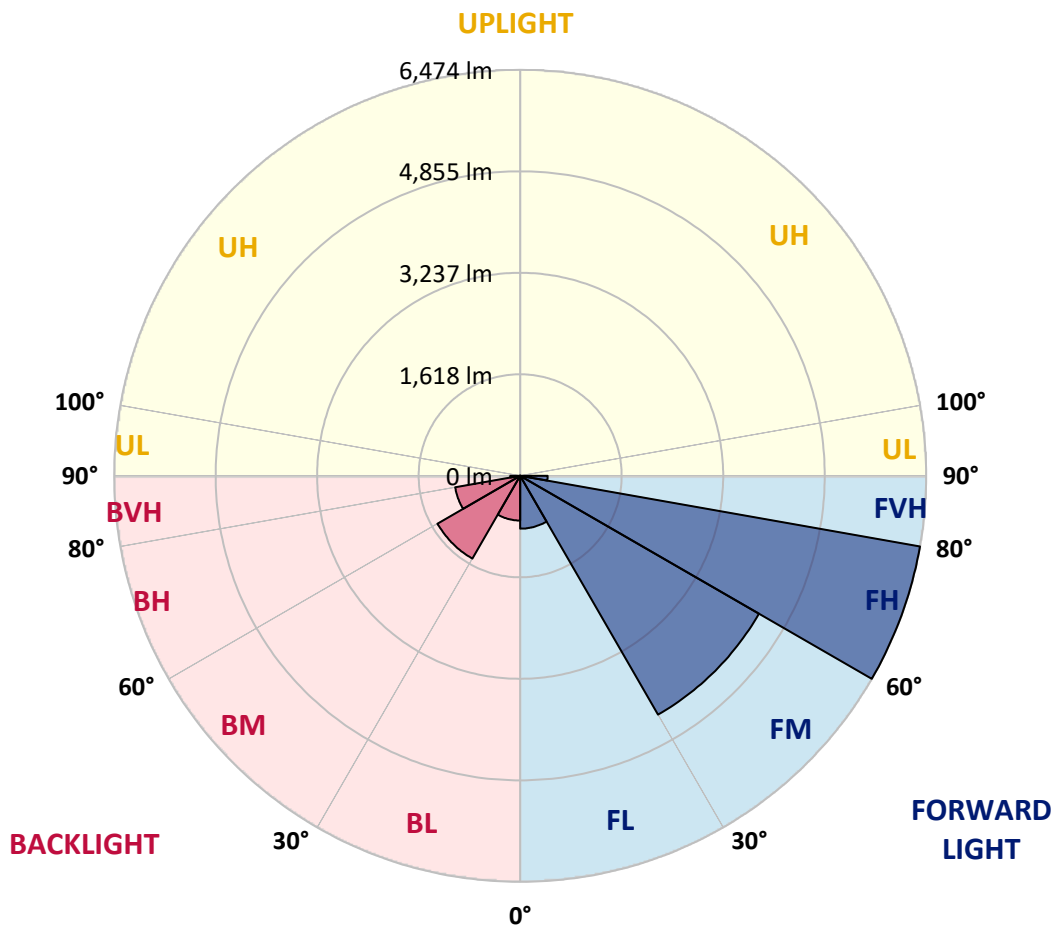


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	843.2	5.4			
FM (30°-60°)	4396.6	28.2			
FH (60°-80°)	6473.6	41.5			G3/7500
FVH (80°-90°)	437.6	2.8			G3/500
BL (0°-30°)	713.4	4.6	B2/1000		
BM (30°-60°)	1523.8	9.8	B2/2500		
BH (60°-80°)	1052.3	6.7	B3/2500		G3/2500
BVH (80°-90°)	157.6	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°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1731.9	1723.6	1719.4	1719.4	1702.7	1692.3	1690.2	1675.6	1663.1	1650.6	1640.2
5°	1832.0	1825.7	1813.2	1802.8	1779.9	1750.7	1746.5	1715.2	1684.0	1654.8	1629.8
7.5°	1923.7	1911.2	1896.6	1875.7	1838.2	1798.6	1792.4	1748.6	1704.8	1661.1	1627.7
10°	2000.8	1988.3	1967.4	1938.2	1890.3	1842.4	1836.1	1790.3	1744.4	1692.3	1644.4
12.5°	2073.7	2063.3	2032.0	1992.4	1936.2	1892.4	1886.1	1846.5	1798.6	1740.3	1677.7
15°	2136.2	2125.8	2092.5	2046.6	1982.0	1948.7	1940.3	1902.8	1854.9	1792.4	1727.7
17.5°	2167.5	2167.5	2132.1	2082.1	2021.6	1996.6	1990.4	1944.5	1900.7	1840.3	1775.7
20°	2177.9	2182.1	2157.1	2096.6	2044.5	2034.1	2027.9	1990.4	1940.3	1882.0	1821.5
22.5°	2184.2	2192.5	2171.7	2102.9	2059.1	2052.9	2048.7	2023.7	1984.1	1927.8	1867.4
25°	2205.0	2205.0	2190.4	2113.3	2077.9	2075.8	2075.8	2061.2	2034.1	1986.2	1925.7
27.5°	2236.3	2234.2	2215.4	2136.2	2119.6	2125.8	2123.7	2121.7	2102.9	2055.0	1990.4
30°	2288.4	2288.4	2267.5	2182.1	2171.7	2198.8	2200.8	2205.0	2175.8	2100.8	2048.7
32.5°	2367.6	2359.2	2338.4	2227.9	2211.3	2236.3	2240.4	2238.4	2213.4	2142.5	2117.5
35°	2611.4	2592.7	2517.6	2330.1	2246.7	2261.3	2263.4	2273.8	2278.0	2221.7	2209.2
37.5°	3038.7	3013.7	2899.0	2571.8	2359.2	2323.8	2321.7	2348.8	2371.7	2321.7	2321.7
40°	3503.4	3482.6	3415.9	2988.7	2567.7	2450.9	2442.6	2467.6	2496.8	2461.4	2471.8
42.5°	3903.6	3920.3	3926.5	3430.5	2880.3	2688.5	2665.6	2630.2	2676.0	2644.8	2686.5
45°	4203.7	4195.4	4310.0	3882.7	3284.6	2986.6	2955.3	2859.4	2917.8	2915.7	3007.4
47.5°	4522.6	4508.0	4555.9	4307.9	3745.2	3351.3	3303.4	3161.6	3249.2	3309.6	3461.8
50°	4824.8	4828.9	4845.6	4643.5	4245.4	3795.2	3734.8	3545.1	3670.2	3797.3	4012.0
52.5°	5218.7	5189.5	5168.7	5035.3	4806.0	4257.9	4218.3	4001.5	4176.6	4326.7	4612.2
55°	5562.6	5543.8	5531.3	5525.0	5274.9	4768.5	4726.8	4501.7	4753.9	4860.2	5281.2
57.5°	5929.4	5918.9	5985.6	6091.9	5991.9	5287.5	5243.7	5026.9	5308.3	5383.3	6006.5
60°	6198.2	6204.5	6387.9	6658.8	6590.0	5850.2	5798.1	5606.3	5848.1	5914.8	6731.8
62.5°	6200.3	6262.8	6688.0	7173.6	7252.8	6498.3	6437.9	6229.5	6402.5	6402.5	7382.0
65°	5608.4	5679.3	6633.8	7300.7	7923.9	7269.5	7211.1	6883.9	6948.5	6861.0	7992.7
67.5°	5018.6	5102.0	6000.2	7311.2	8394.9	8094.8	8026.0	7538.3	7427.9	7206.9	8419.9
70°	4626.8	4685.1	5435.4	7175.7	8678.3	8957.6	8905.5	8159.4	7805.1	7496.6	8330.3
72.5°	3895.3	3874.4	4591.4	6531.7	8836.7	9937.2	9893.4	8834.7	8132.3	7359.1	7104.8
75°	2261.3	2286.3	2849.0	4785.2	7965.6	10447.8	10443.6	9412.0	7988.5	6500.4	4895.6
77.5°	652.3	671.1	935.8	2102.9	5037.4	8911.8	9197.3	8607.5	6752.6	4633.0	2538.5
80°	285.5	300.1	406.4	700.3	2169.6	5821.0	6071.1	5821.0	4072.4	2125.8	996.2
82.5°	168.8	179.2	264.7	433.5	1040.0	2769.8	3107.4	2713.5	1756.9	902.4	412.7
85°	95.9	100.0	152.1	275.1	654.4	969.1	1087.9	1019.1	856.6	512.7	216.8
87.5°	43.8	45.9	75.0	129.2	366.8	327.2	339.7	450.2	496.0	312.6	108.4
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°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1636.0	1629.8	1617.3	1613.1	1606.9	1609.0	1611.0	1611.0	1613.1	1606.9	1606.9
5°	1619.4	1609.0	1596.4	1596.4	1596.4	1613.1	1627.7	1636.0	1640.2	1640.2	1636.0
7.5°	1613.1	1600.6	1586.0	1590.2	1594.4	1615.2	1642.3	1669.4	1677.7	1677.7	1673.6
10°	1625.6	1613.1	1602.7	1609.0	1619.4	1636.0	1656.9	1681.9	1702.7	1704.8	1702.7
12.5°	1654.8	1640.2	1629.8	1642.3	1654.8	1665.2	1675.6	1686.1	1713.2	1717.3	1717.3
15°	1702.7	1688.2	1675.6	1686.1	1690.2	1690.2	1690.2	1690.2	1717.3	1721.5	1721.5
17.5°	1750.7	1738.2	1725.7	1727.7	1715.2	1698.6	1692.3	1690.2	1704.8	1717.3	1719.4
20°	1796.5	1786.1	1773.6	1752.8	1721.5	1690.2	1679.8	1679.8	1688.2	1706.9	1706.9
22.5°	1846.5	1834.0	1813.2	1765.3	1713.2	1669.4	1659.0	1665.2	1675.6	1700.7	1698.6
25°	1902.8	1886.1	1850.7	1761.1	1686.1	1634.0	1636.0	1654.8	1673.6	1700.7	1700.7
27.5°	1965.3	1942.4	1871.6	1727.7	1625.6	1575.6	1594.4	1638.1	1665.2	1694.4	1698.6
30°	2034.1	2013.3	1888.2	1669.4	1527.7	1481.8	1527.7	1598.5	1640.2	1667.3	1673.6
32.5°	2117.5	2100.8	1902.8	1594.4	1400.5	1360.9	1427.6	1515.2	1581.9	1613.1	1619.4
35°	2221.7	2205.0	1921.6	1508.9	1281.7	1240.1	1300.5	1390.1	1477.7	1517.3	1529.8
37.5°	2357.2	2332.1	1938.2	1417.2	1181.7	1133.8	1162.9	1244.2	1323.4	1377.6	1392.2
40°	2530.1	2490.5	1952.8	1313.0	1094.2	1040.0	1050.4	1090.0	1135.9	1183.8	1202.5
42.5°	2774.0	2694.8	1954.9	1202.5	1004.6	954.5	950.4	962.9	962.9	962.9	969.1
45°	3113.7	2963.6	1959.1	1098.3	912.9	860.7	848.2	844.1	812.8	752.4	748.2
47.5°	3543.0	3315.9	1977.8	1010.8	817.0	771.1	754.5	737.8	679.4	616.9	604.4
50°	4093.2	3724.4	2015.4	927.4	735.7	704.4	683.6	644.0	579.4	531.5	518.9
52.5°	4726.8	4210.0	2050.8	839.9	675.3	654.4	629.4	581.5	512.7	483.5	479.4
55°	5454.2	4751.8	2121.7	762.8	623.2	608.6	585.6	539.8	487.7	466.8	464.8
57.5°	6198.2	5358.3	2221.7	694.0	573.1	564.8	564.8	525.2	491.9	483.5	483.5
60°	6915.2	5879.3	2144.6	629.4	527.3	531.5	571.1	560.6	535.6	546.0	552.3
62.5°	7471.6	6185.7	1740.3	577.3	493.9	531.5	633.6	633.6	604.4	600.2	600.2
65°	7709.2	6181.5	1223.4	537.7	481.4	583.6	706.5	673.2	596.1	566.9	560.6
67.5°	7648.8	5910.6	844.1	510.6	477.3	637.7	739.9	646.1	558.5	533.5	514.8
70°	7117.3	5337.5	650.3	485.6	471.0	614.8	729.4	614.8	529.4	506.4	489.8
72.5°	5741.8	4280.8	539.8	460.6	446.0	569.0	694.0	585.6	506.4	481.4	464.8
75°	3661.8	2692.7	456.4	427.2	398.1	510.6	646.1	556.5	481.4	448.1	435.6
77.5°	1761.1	1160.9	398.1	387.6	358.5	473.1	598.1	518.9	448.1	421.0	412.7
80°	712.8	531.5	346.0	348.1	329.3	450.2	564.8	483.5	414.7	385.6	371.0
82.5°	371.0	308.5	291.8	300.1	300.1	429.3	539.8	454.3	385.6	373.1	325.1
85°	200.1	191.7	225.1	241.8	260.5	387.6	502.3	423.1	352.2	302.2	291.8
87.5°	98.0	125.0	127.1	145.9	181.3	310.5	423.1	354.3	293.9	243.8	239.7
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)