

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: P399269

Luminaire Tested: **ARCH-L-PA3-120-727-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399269  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-120-727-U-T3  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16484 lumens  
Efficiency: N/A  
Efficacy: 134.0 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

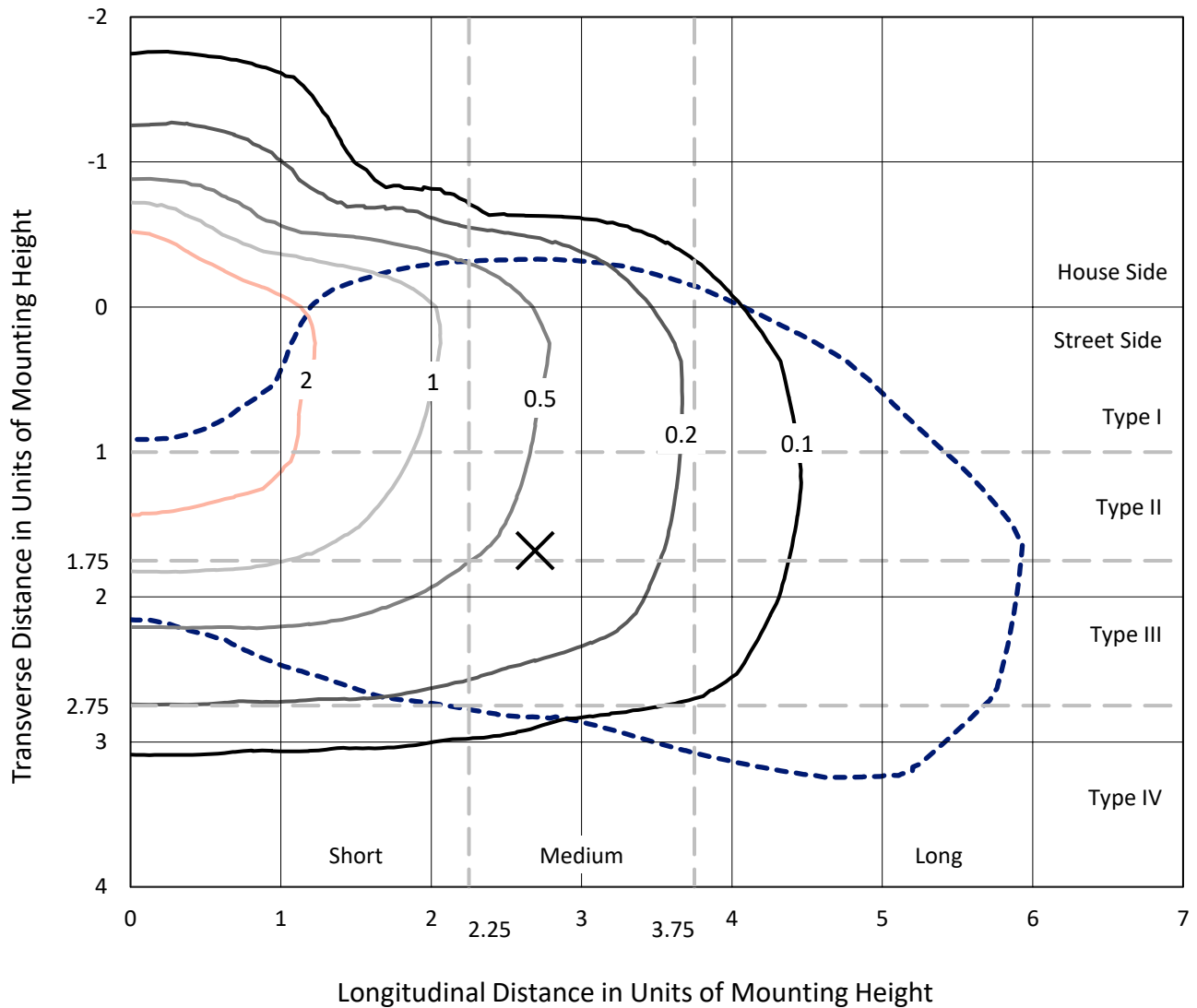
Input Watts (W): 123  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

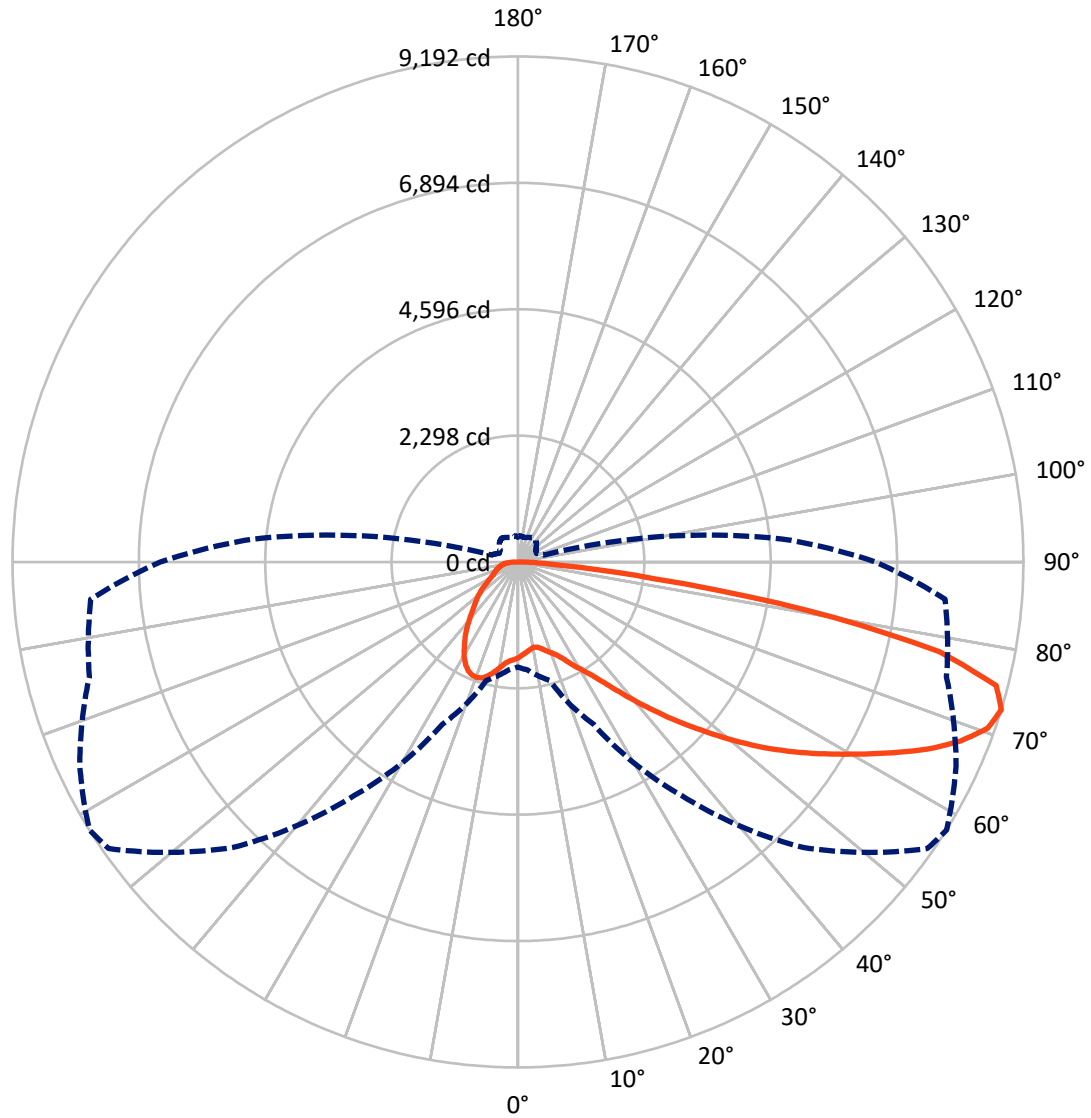
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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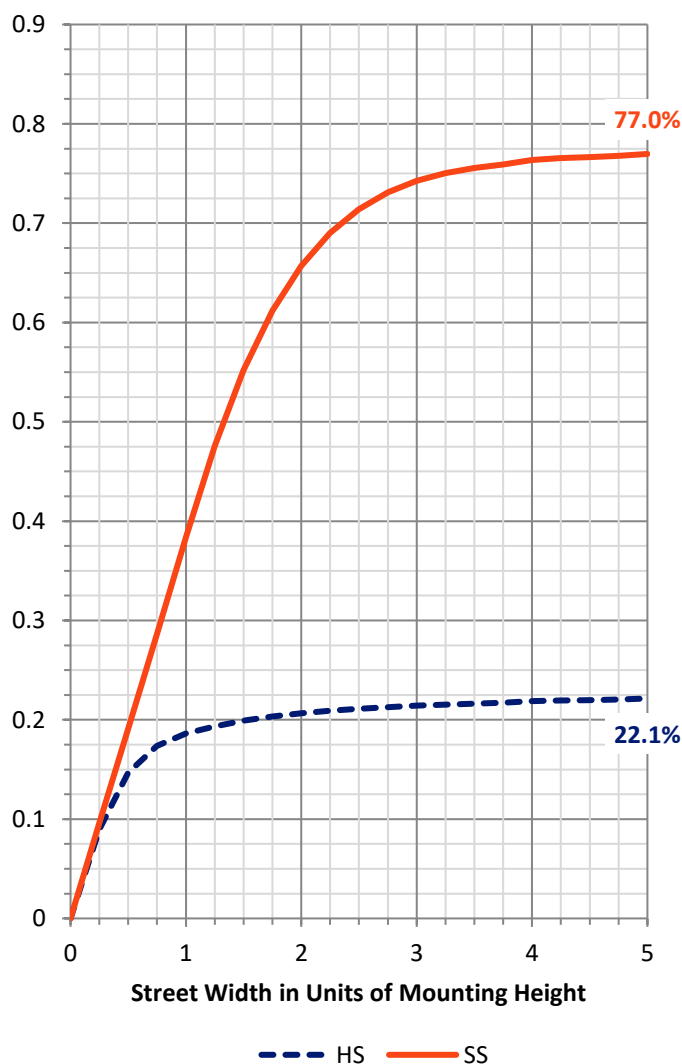
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3738.4	0.0	3738.4
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	12745.6	0.0	12745.6
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	16484.0	0.0	16484.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.5	1.0
10°-20°	531.9	3.2
20°-30°	952.8	5.8
30°-40°	1433.3	8.7
40°-50°	2321.1	14.1
50°-60°	3494.0	21.2
60°-70°	4112.0	24.9
70°-80°	2915.8	17.7
80°-90°	555.6	3.4
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°	16484.0	100.0
0°-180°	16484.0	100.0

**Coefficient of Utilization**



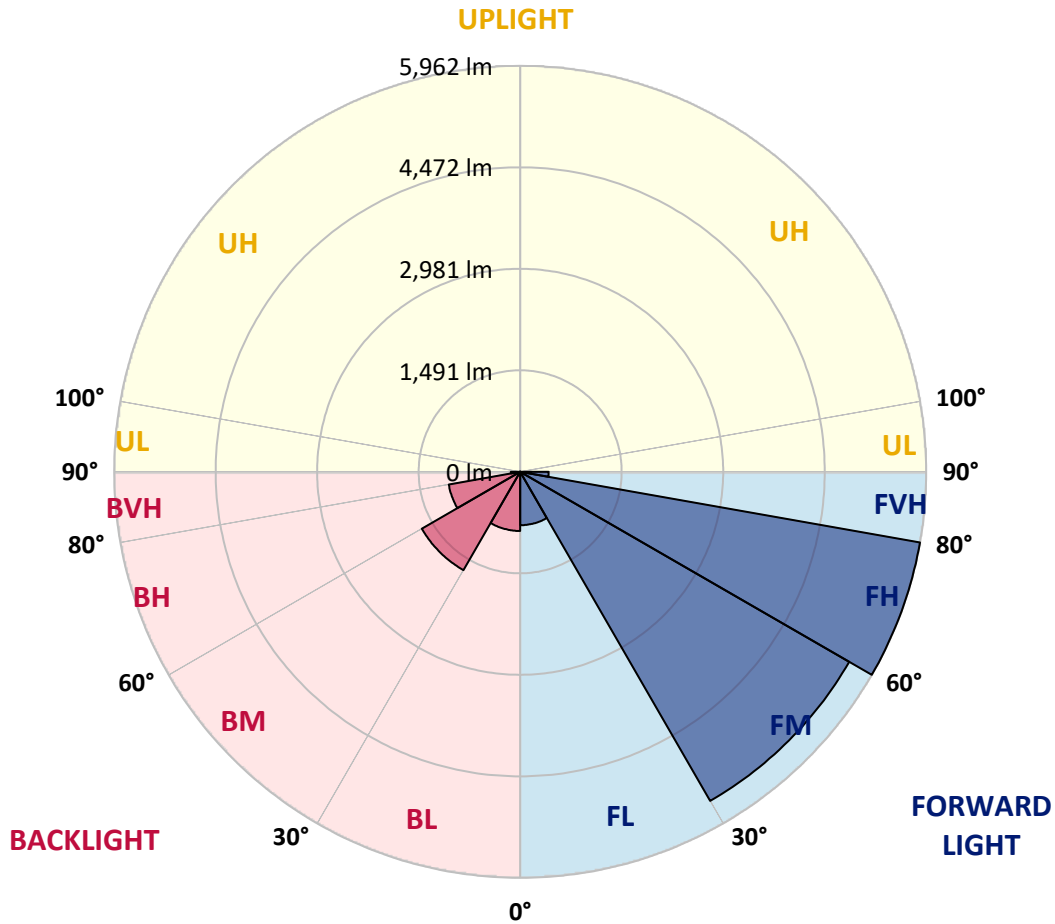
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	783.9	4.8			
FM (30°-60°)	5580.3	33.9			
FH (60°-80°)	5962.3	36.2			G3/7500
FVH (80°-90°)	419.1	2.5			G3/500
BL (0°-30°)	868.4	5.3	B2/1000		
BM (30°-60°)	1668.0	10.1	B2/2500		
BH (60°-80°)	1065.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	136.5	0.8			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°	55°	58°	65°	75°	85°
0°	1738.7	1738.7	1738.7	1738.7	1738.7	1738.7	1738.7	1738.7	1738.7	1738.7	1738.7
2.5°	1673.4	1664.7	1666.9	1666.9	1675.6	1680.0	1682.1	1688.7	1693.0	1703.9	1719.1
5°	1595.1	1588.6	1590.7	1592.9	1608.1	1623.4	1636.4	1645.1	1658.2	1675.6	1697.4
7.5°	1538.5	1534.2	1536.3	1540.7	1553.7	1571.2	1592.9	1606.0	1625.6	1658.2	1695.2
10°	1497.2	1497.2	1499.3	1508.0	1521.1	1542.9	1560.3	1575.5	1614.7	1673.4	1730.0
12.5°	1464.5	1464.5	1471.1	1488.5	1510.2	1532.0	1573.3	1590.7	1643.0	1723.5	1790.9
15°	1462.3	1464.5	1466.7	1481.9	1505.9	1553.7	1614.7	1640.8	1703.9	1799.6	1878.0
17.5°	1497.2	1499.3	1490.6	1495.0	1523.3	1590.7	1671.3	1701.7	1782.2	1886.7	1967.2
20°	1603.8	1603.8	1577.7	1553.7	1573.3	1647.3	1738.7	1769.2	1858.4	1973.7	2054.2
22.5°	1821.4	1832.3	1771.4	1719.1	1688.7	1730.0	1812.7	1845.3	1945.4	2069.5	2150.0
25°	2084.7	2095.6	2012.9	1938.9	1882.3	1875.8	1930.2	1965.0	2047.7	2176.1	2243.6
27.5°	2339.3	2319.7	2243.6	2173.9	2102.1	2043.4	2084.7	2115.2	2210.9	2308.9	2350.2
30°	2539.5	2524.3	2450.3	2400.2	2332.8	2256.6	2232.7	2265.3	2343.7	2435.1	2456.8
32.5°	2761.5	2750.6	2676.6	2611.3	2554.8	2482.9	2430.7	2445.9	2489.5	2554.8	2567.8
35°	3044.4	3068.3	2990.0	2857.2	2794.1	2724.5	2687.5	2691.8	2724.5	2765.8	2744.1
37.5°	3342.5	3370.8	3375.1	3166.2	3081.4	3018.3	2979.1	2994.3	3033.5	3061.8	2994.3
40°	3895.2	3866.9	3753.8	3599.3	3468.7	3407.8	3353.4	3351.2	3379.5	3429.5	3307.7
42.5°	4628.6	4602.5	4374.0	4173.8	3967.0	3897.4	3790.8	3745.1	3758.1	3821.2	3651.5
45°	5331.5	5320.6	5137.8	4905.0	4656.9	4522.0	4278.2	4167.2	4156.4	4206.4	4004.0
47.5°	5956.0	5908.1	5775.4	5594.8	5568.7	5216.1	4767.9	4617.7	4565.5	4593.8	4367.5
50°	6624.1	6460.9	6278.1	6167.1	6356.4	6027.8	5261.8	5105.2	4976.8	4996.3	4761.3
52.5°	6978.8	6704.6	6584.9	6617.5	6872.2	6745.9	5799.3	5607.8	5401.1	5429.4	5153.0
55°	6674.1	6672.0	6724.2	6926.6	7281.3	7135.5	6310.7	6095.3	5869.0	5875.5	5603.5
57.5°	6256.3	6341.2	6611.0	7057.1	7788.3	7544.6	6813.4	6584.9	6378.2	6345.5	6114.9
60°	5875.5	5969.1	6360.8	7035.4	7964.6	7918.9	7292.1	7091.9	6924.4	6828.6	6652.4
62.5°	5296.7	5366.3	5921.2	6896.1	7816.6	8188.7	7777.4	7640.3	7514.1	7316.1	7231.2
65°	4615.5	4639.5	5224.8	6436.9	7631.6	8293.2	8260.5	8199.6	8077.7	7786.1	7803.5
67.5°	3877.8	3925.7	4439.3	5703.6	7226.9	8245.3	8634.8	8684.9	8541.2	8103.8	8169.1
70°	3092.3	3151.0	3540.5	4689.5	6539.2	8038.5	8980.8	9061.3	8785.0	8208.3	8236.6
72.5°	1912.8	1969.4	2230.5	3257.6	5183.5	7344.4	9087.4	9191.9	8791.5	8069.0	7797.0
75°	661.5	668.1	872.6	1562.4	3077.0	5544.7	8739.3	8985.2	8515.1	7562.0	6785.1
77.5°	302.5	313.4	387.3	644.1	1364.4	2992.2	7216.0	7831.8	7675.1	6769.9	5222.7
80°	208.9	213.3	267.7	385.2	787.8	1053.2	4554.6	5357.6	5631.8	5242.2	3346.9
82.5°	156.7	161.0	206.7	261.1	568.0	511.4	1734.4	2489.5	3094.4	3037.8	1399.2
85°	150.2	148.0	161.0	174.1	378.6	304.7	561.4	770.3	1207.7	1033.7	352.5
87.5°	65.3	71.8	165.4	97.9	198.0	141.4	243.7	285.1	367.8	319.9	126.2
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°	1738.7	1738.7	1738.7	1738.7	1738.7	1738.7	1738.7	1738.7	1738.7	1738.7	1738.7
2.5°	1725.7	1730.0	1743.1	1762.6	1773.5	1795.3	1810.5	1819.2	1825.8	1827.9	1827.9
5°	1710.4	1719.1	1747.4	1780.1	1810.5	1856.2	1897.6	1921.5	1938.9	1945.4	1947.6
7.5°	1714.8	1736.5	1777.9	1825.8	1864.9	1923.7	1973.7	2021.6	2060.8	2076.0	2076.0
10°	1756.1	1786.6	1843.2	1906.3	1956.3	2017.3	2069.5	2110.8	2156.5	2182.6	2187.0
12.5°	1819.2	1856.2	1930.2	1999.8	2056.4	2104.3	2152.2	2182.6	2204.4	2224.0	2228.3
15°	1908.4	1954.1	2028.1	2099.9	2150.0	2180.5	2193.5	2193.5	2191.3	2193.5	2197.9
17.5°	1997.7	2041.2	2115.2	2187.0	2210.9	2193.5	2178.3	2173.9	2171.8	2167.4	2169.6
20°	2084.7	2126.1	2189.2	2243.6	2224.0	2163.1	2143.5	2141.3	2134.8	2130.4	2126.1
22.5°	2171.8	2202.2	2254.4	2274.0	2195.7	2108.7	2084.7	2071.7	2063.0	2052.1	2041.2
25°	2271.9	2280.6	2319.7	2289.3	2126.1	2008.5	1973.7	1954.1	1945.4	1934.6	1925.9
27.5°	2365.4	2365.4	2372.0	2265.3	2023.8	1875.8	1823.6	1788.8	1786.6	1784.4	1782.2
30°	2450.3	2439.4	2417.7	2193.5	1891.0	1712.6	1634.3	1599.4	1612.5	1623.4	1625.6
32.5°	2550.4	2528.6	2467.7	2095.6	1732.2	1529.8	1434.1	1418.8	1434.1	1447.1	1438.4
35°	2707.1	2667.9	2519.9	1982.4	1579.9	1362.2	1270.8	1249.1	1244.7	1242.6	1225.1
37.5°	2931.2	2863.8	2561.3	1860.6	1429.7	1214.3	1146.8	1101.1	1059.8	1016.2	1009.7
40°	3205.4	3090.1	2589.6	1721.3	1270.8	1090.2	1018.4	959.7	890.0	813.9	805.2
42.5°	3505.7	3333.8	2602.6	1566.8	1131.6	988.0	898.7	824.7	746.4	687.7	676.8
45°	3830.0	3597.1	2591.7	1418.8	1018.4	900.9	800.8	720.3	657.2	615.8	607.1
47.5°	4145.5	3899.6	2561.3	1301.3	931.4	826.9	724.6	650.7	602.8	557.1	546.2
50°	4550.2	4189.0	2524.3	1209.9	835.6	752.9	676.8	598.4	544.0	522.3	517.9
52.5°	4998.5	4478.4	2480.8	1094.6	742.1	694.2	646.3	576.7	559.3	517.9	511.4
55°	5483.8	4822.3	2472.1	948.8	659.4	652.8	615.8	596.3	600.6	517.9	507.0
57.5°	5995.2	5190.0	2491.6	803.0	591.9	615.8	628.9	613.7	607.1	528.8	507.0
60°	6528.3	5544.7	2432.9	668.1	539.7	585.4	644.1	605.0	557.1	524.4	509.2
62.5°	7046.2	5842.9	2178.3	572.3	500.5	576.7	635.4	572.3	517.9	517.9	511.4
65°	7422.7	5975.6	1703.9	502.7	474.4	565.8	620.2	550.6	507.0	522.3	513.6
67.5°	7466.2	5838.5	1144.6	448.3	452.6	546.2	585.4	531.0	496.2	535.3	522.3
70°	7198.6	5481.6	700.7	406.9	424.3	511.4	554.9	511.4	480.9	524.4	504.9
72.5°	6504.4	4815.7	494.0	372.1	393.9	478.7	526.6	494.0	459.2	474.4	454.8
75°	5335.8	3732.0	391.7	339.5	363.4	448.3	502.7	467.9	433.0	426.5	413.5
77.5°	3779.9	2391.5	315.5	313.4	330.8	411.3	470.0	437.4	402.6	389.5	380.8
80°	2173.9	1172.9	272.0	282.9	300.3	374.3	430.9	402.6	369.9	350.4	337.3
82.5°	831.3	409.1	239.4	245.9	265.5	335.1	391.7	367.8	335.1	352.5	296.0
85°	269.8	224.1	195.8	202.4	222.0	278.5	346.0	326.4	289.4	256.8	237.2
87.5°	119.7	121.9	104.5	115.3	139.3	185.0	252.4	239.4	211.1	176.3	169.7
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)