

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: P237306

Luminaire Tested: **ARCH-L-AF72-130-D-U-T4W-7030**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P237306  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 8/23/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-130-D-U-T4W-7030  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 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: 17123.1 lumens  
Efficiency: N/A  
Efficacy: 128.7 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

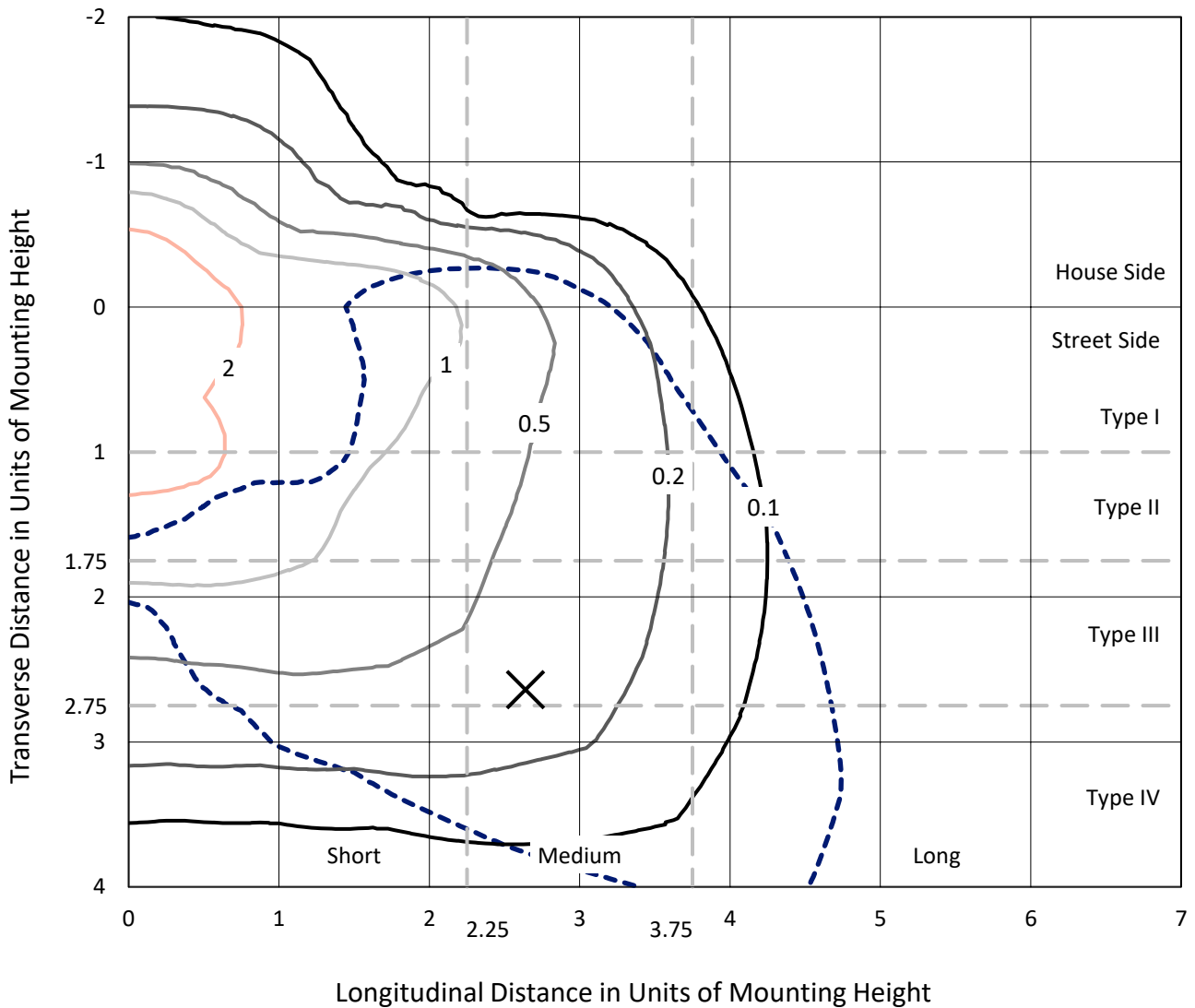
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

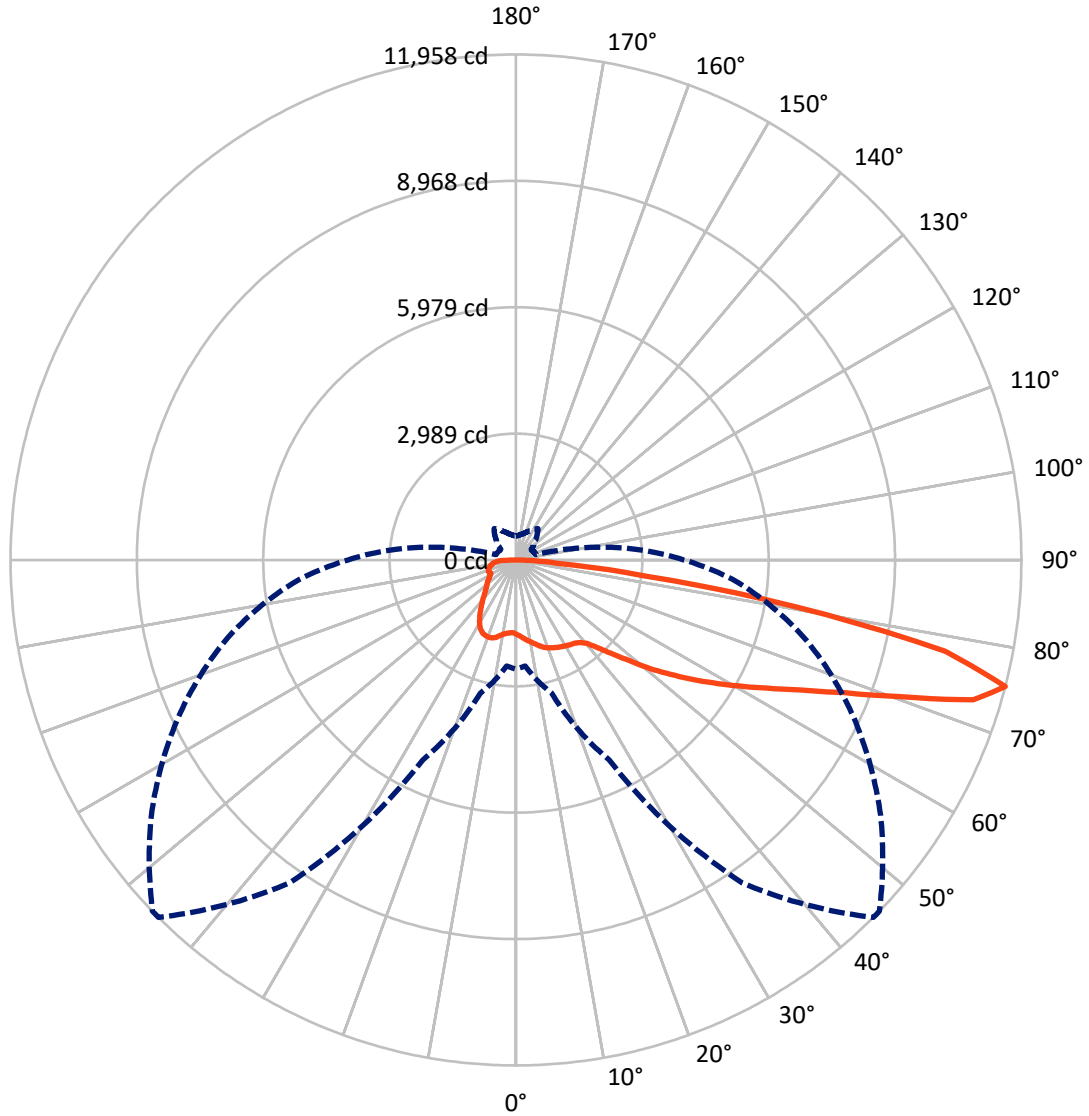
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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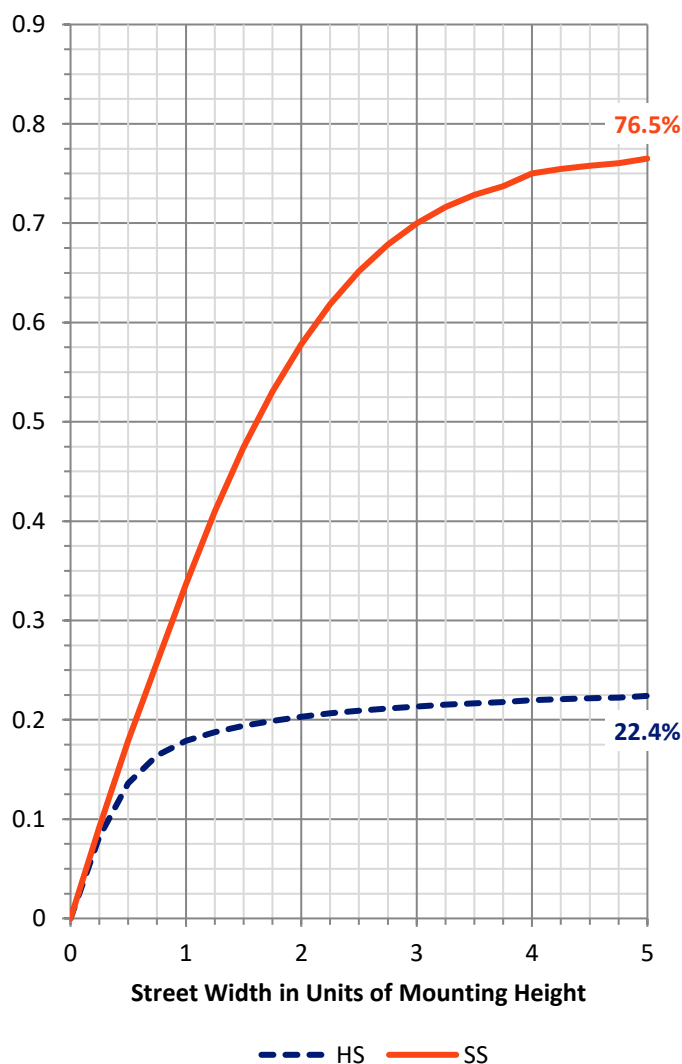
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3966.7	0.0	3966.7
	% Fixture	23.2	0.0	23.2
<b>Street Side</b>	Lumens	13156.4	0.0	13156.4
	% Fixture	76.8	0.0	76.8
<b>Total</b>	Lumens	17123.1	0.0	17123.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.0	1.0
10°-20°	563.7	3.3
20°-30°	967.3	5.6
30°-40°	1352.9	7.9
40°-50°	1984.6	11.6
50°-60°	3091.5	18.1
60°-70°	4448.4	26.0
70°-80°	3875.1	22.6
80°-90°	665.5	3.9
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°	17123.1	100.0
0°-180°	17123.1	100.0

**Coefficient of Utilization**

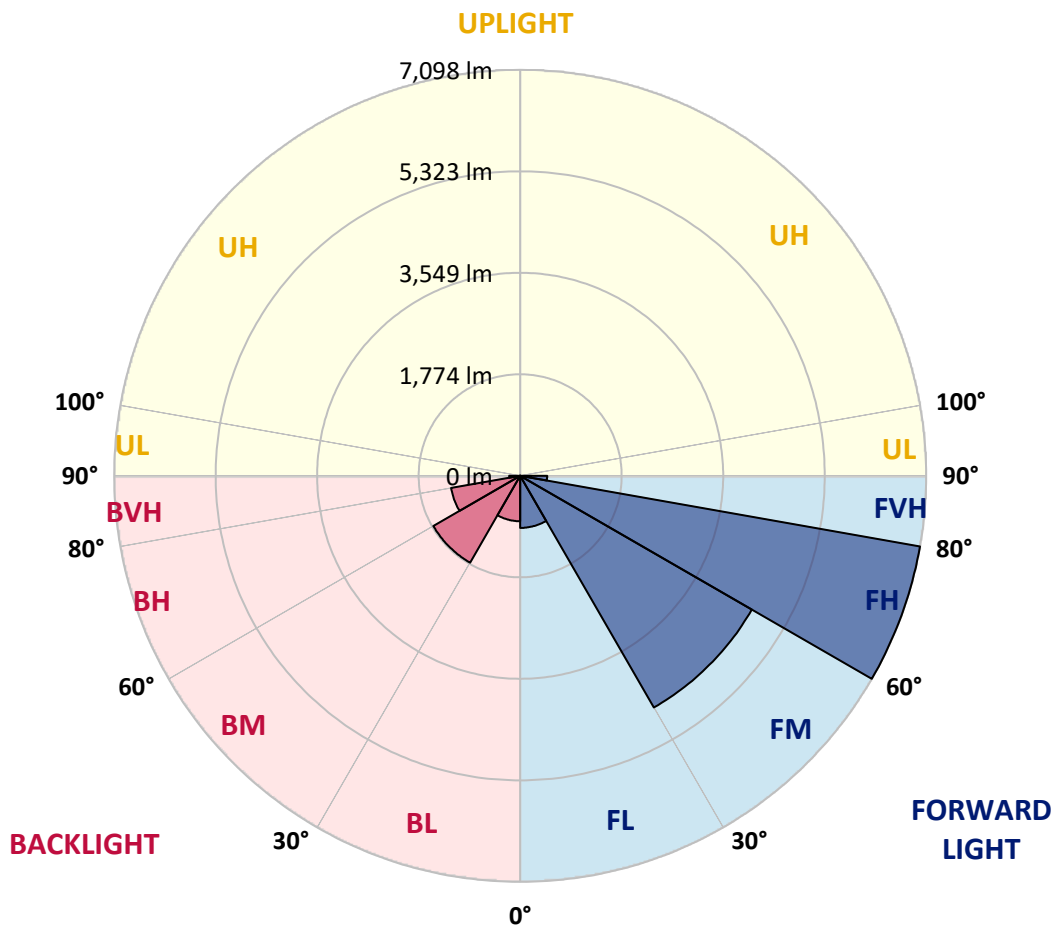


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	910.5	5.3			
FM (30°-60°)	4676.0	27.3			
FH (60°-80°)	7097.7	41.5			G3/7500
FVH (80°-90°)	472.2	2.8			G3/500
BL (0°-30°)	794.5	4.6	B2/1000		
BM (30°-60°)	1753.1	10.2	B2/2500		
BH (60°-80°)	1225.8	7.2	B3/2500		G3/2500
BVH (80°-90°)	193.3	1.1			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°	1755.4	1755.4	1755.4	1755.4	1755.4	1755.4	1755.4	1755.4	1755.4	1755.4	1755.4
2.5°	1842.0	1828.7	1828.7	1818.6	1818.6	1802.0	1795.3	1792.0	1775.4	1765.3	1755.4
5°	1948.5	1931.9	1928.5	1905.3	1895.2	1858.6	1855.3	1832.0	1802.0	1771.9	1748.7
7.5°	2045.2	2035.2	2018.4	1995.2	1965.2	1918.6	1915.2	1878.6	1828.7	1788.7	1755.4
10°	2115.0	2108.4	2085.1	2055.1	2021.9	1975.2	1971.9	1931.9	1871.9	1825.2	1778.6
12.5°	2198.4	2188.4	2158.4	2118.4	2081.8	2038.4	2035.2	2001.8	1935.2	1875.3	1815.4
15°	2278.3	2265.0	2228.4	2188.4	2148.4	2111.8	2111.8	2075.2	2005.1	1935.2	1865.3
17.5°	2318.3	2311.6	2275.0	2231.6	2198.4	2171.7	2168.4	2135.0	2065.1	1991.9	1915.2
20°	2331.6	2335.0	2301.6	2255.0	2231.6	2218.4	2215.0	2191.7	2115.0	2045.2	1971.9
22.5°	2328.4	2338.2	2311.6	2261.6	2255.0	2255.0	2255.0	2228.4	2168.4	2098.5	2025.1
25°	2341.7	2354.9	2335.0	2275.0	2275.0	2288.3	2288.3	2275.0	2221.7	2161.7	2088.5
27.5°	2388.2	2398.2	2381.6	2298.3	2301.6	2321.6	2318.3	2321.6	2288.3	2231.6	2158.4
30°	2444.9	2458.3	2438.2	2335.0	2331.6	2351.6	2351.6	2368.2	2344.9	2284.9	2225.1
32.5°	2598.0	2594.7	2531.4	2374.9	2364.9	2384.9	2384.9	2401.5	2388.2	2341.7	2284.9
35°	3054.4	3004.4	2864.6	2504.8	2404.9	2414.8	2414.8	2444.9	2451.6	2414.8	2364.9
37.5°	3520.8	3504.1	3397.5	2851.2	2551.4	2478.1	2474.8	2518.1	2548.2	2518.1	2484.8
40°	3990.3	3977.0	3953.8	3314.2	2857.9	2591.4	2581.5	2618.1	2671.4	2651.4	2631.4
42.5°	4426.7	4420.1	4443.3	3770.5	3247.6	2834.5	2804.5	2761.3	2837.9	2831.2	2831.2
45°	4769.8	4786.4	4799.8	4196.8	3670.6	3147.6	3111.0	2964.4	3067.7	3094.3	3114.3
47.5°	4963.0	4976.3	5022.9	4613.3	4093.6	3510.7	3484.1	3244.2	3380.8	3460.8	3517.4
50°	5239.4	5202.8	5242.8	5019.6	4603.2	3983.7	3910.4	3620.7	3793.8	3933.8	4066.9
52.5°	5505.9	5445.9	5479.3	5489.3	5182.8	4446.8	4370.1	4063.7	4280.1	4500.0	4736.5
55°	5745.7	5742.4	5775.7	5945.6	5742.4	4943.0	4856.3	4553.3	4866.4	5102.9	5502.7
57.5°	5938.9	5972.2	6118.7	6475.1	6388.6	5482.6	5386.1	5122.8	5492.6	5729.1	6391.8
60°	6165.4	6218.7	6461.8	6924.9	6978.2	6048.8	5948.9	5759.0	6135.5	6375.3	7421.1
62.5°	6242.0	6318.7	6818.3	7397.8	7594.4	6668.4	6578.4	6451.9	6811.6	7028.1	8447.1
65°	5732.4	5878.9	7014.8	7640.9	8257.2	7414.5	7337.9	7227.9	7484.5	7627.7	9143.3
67.5°	5592.6	5659.1	6631.7	7990.6	8880.0	8373.7	8297.1	8107.2	8113.9	8054.0	9369.7
70°	5396.0	5469.3	6238.7	8253.9	9772.7	9686.2	9592.9	9033.3	8690.2	8327.2	8923.3
72.5°	4596.5	4573.3	5376.0	7544.4	10202.4	11311.6	11201.7	10029.2	9116.6	8090.6	7531.0
75°	2581.5	2514.8	3261.0	5219.5	9316.4	11957.8	11954.5	10532.1	8816.7	7048.1	5126.2
77.5°	749.4	729.5	1075.8	2188.4	6272.0	10388.9	10515.5	9499.6	7357.8	5062.8	2814.6
80°	353.0	359.7	463.0	722.8	2678.1	6705.0	7068.1	6255.3	4396.7	2335.0	1162.5
82.5°	223.2	226.5	316.5	466.3	1132.5	3044.4	3344.2	2814.6	1742.0	1009.2	513.0
85°	139.9	139.9	209.9	306.5	676.2	972.6	1055.9	959.3	746.1	549.6	279.8
87.5°	76.6	76.6	126.5	176.6	369.8	313.1	323.1	383.1	466.3	336.4	139.9
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°	1755.4	1755.4	1755.4	1755.4	1755.4	1755.4	1755.4	1755.4	1755.4	1755.4	1755.4
2.5°	1752.1	1745.4	1735.4	1732.1	1728.7	1725.4	1728.7	1735.4	1728.7	1728.7	1732.1
5°	1742.0	1735.4	1722.0	1722.0	1725.4	1728.7	1745.4	1755.4	1758.7	1758.7	1758.7
7.5°	1742.0	1732.1	1722.0	1725.4	1732.1	1745.4	1771.9	1788.7	1802.0	1805.3	1805.3
10°	1758.7	1745.4	1738.8	1745.4	1765.3	1775.4	1802.0	1828.7	1845.3	1852.0	1852.0
12.5°	1788.7	1775.4	1775.4	1788.7	1815.4	1828.7	1852.0	1871.9	1892.0	1901.8	1901.8
15°	1838.7	1822.0	1825.2	1848.6	1878.6	1892.0	1908.5	1915.2	1931.9	1945.3	1945.3
17.5°	1885.3	1868.7	1875.3	1901.8	1921.9	1928.5	1938.6	1935.2	1941.9	1951.9	1955.2
20°	1938.6	1921.9	1925.2	1941.9	1945.3	1938.6	1938.6	1928.5	1925.2	1941.9	1948.5
22.5°	1991.9	1975.2	1971.9	1961.9	1945.3	1928.5	1918.6	1908.5	1901.8	1918.6	1925.2
25°	2055.1	2031.7	2015.2	1971.9	1928.5	1898.6	1885.3	1878.6	1875.3	1892.0	1898.6
27.5°	2125.1	2101.8	2051.8	1958.6	1888.5	1838.7	1828.7	1828.7	1835.3	1845.3	1852.0
30°	2191.7	2168.4	2078.4	1928.5	1818.6	1745.4	1735.4	1745.4	1762.1	1771.9	1782.0
32.5°	2258.3	2235.0	2095.1	1881.9	1715.4	1622.2	1615.5	1632.2	1658.8	1665.4	1672.1
35°	2348.2	2324.9	2115.0	1815.4	1585.5	1485.6	1479.0	1488.8	1512.2	1522.2	1532.2
37.5°	2474.8	2461.5	2145.1	1742.0	1465.6	1355.7	1335.7	1329.0	1342.4	1339.0	1352.3
40°	2641.4	2651.4	2198.4	1645.5	1349.1	1235.7	1192.4	1172.5	1159.1	1132.5	1145.8
42.5°	2884.6	2891.2	2258.3	1535.5	1249.1	1122.5	1065.9	1029.2	1002.6	959.3	966.0
45°	3240.9	3184.3	2328.4	1419.0	1159.1	1032.6	966.0	922.7	886.0	849.4	852.7
47.5°	3713.9	3540.6	2404.9	1322.4	1069.2	959.3	899.3	849.4	806.2	776.1	779.4
50°	4296.8	3983.7	2481.5	1232.5	979.3	902.7	849.4	796.1	752.8	722.8	719.5
52.5°	5066.3	4516.7	2531.4	1132.5	889.4	852.7	806.2	756.1	702.9	666.2	662.8
55°	5865.7	5136.2	2574.8	1012.7	802.7	796.1	772.8	716.0	652.9	606.2	599.5
57.5°	6745.0	5799.1	2608.0	896.0	736.1	749.4	742.8	676.2	606.2	562.9	559.6
60°	7544.4	6485.2	2501.5	792.7	676.2	702.9	709.4	652.9	616.2	626.2	629.6
62.5°	8350.4	7014.8	2095.1	716.0	636.2	672.8	729.5	726.1	709.4	726.1	729.5
65°	8640.2	7124.7	1485.6	652.9	596.2	686.1	792.7	786.1	709.4	679.5	672.8
67.5°	8477.0	6798.3	999.2	602.9	566.3	702.9	859.4	786.1	682.9	642.9	629.6
70°	7700.9	5995.5	732.8	553.0	539.6	699.5	896.0	782.8	669.5	626.2	609.5
72.5°	6142.1	4626.6	589.6	506.3	499.7	682.9	916.0	776.1	656.2	609.5	589.6
75°	3977.0	2877.9	496.2	459.7	439.7	656.2	906.0	756.1	639.5	579.6	566.3
77.5°	1845.3	1239.1	423.1	406.3	383.1	616.2	876.0	716.0	602.9	546.3	529.6
80°	859.4	586.2	356.4	353.0	343.1	582.9	836.1	669.5	559.6	513.0	486.3
82.5°	459.7	353.0	289.7	289.7	299.8	542.9	786.1	612.8	502.9	479.6	409.7
85°	243.1	203.2	209.9	226.5	256.4	479.6	719.5	553.0	439.7	366.3	356.4
87.5°	123.3	129.9	129.9	153.2	196.5	389.7	592.8	456.3	373.0	299.8	293.2
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)