

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: P237346

Luminaire Tested: **ARCH-L-AF72-130-D-U-T4W-7050**

Issue Date: 2/14/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P237346  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 2/14/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-130-D-U-T4W-7050  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 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: 17705 lumens  
Efficiency: N/A  
Efficacy: 133.1 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

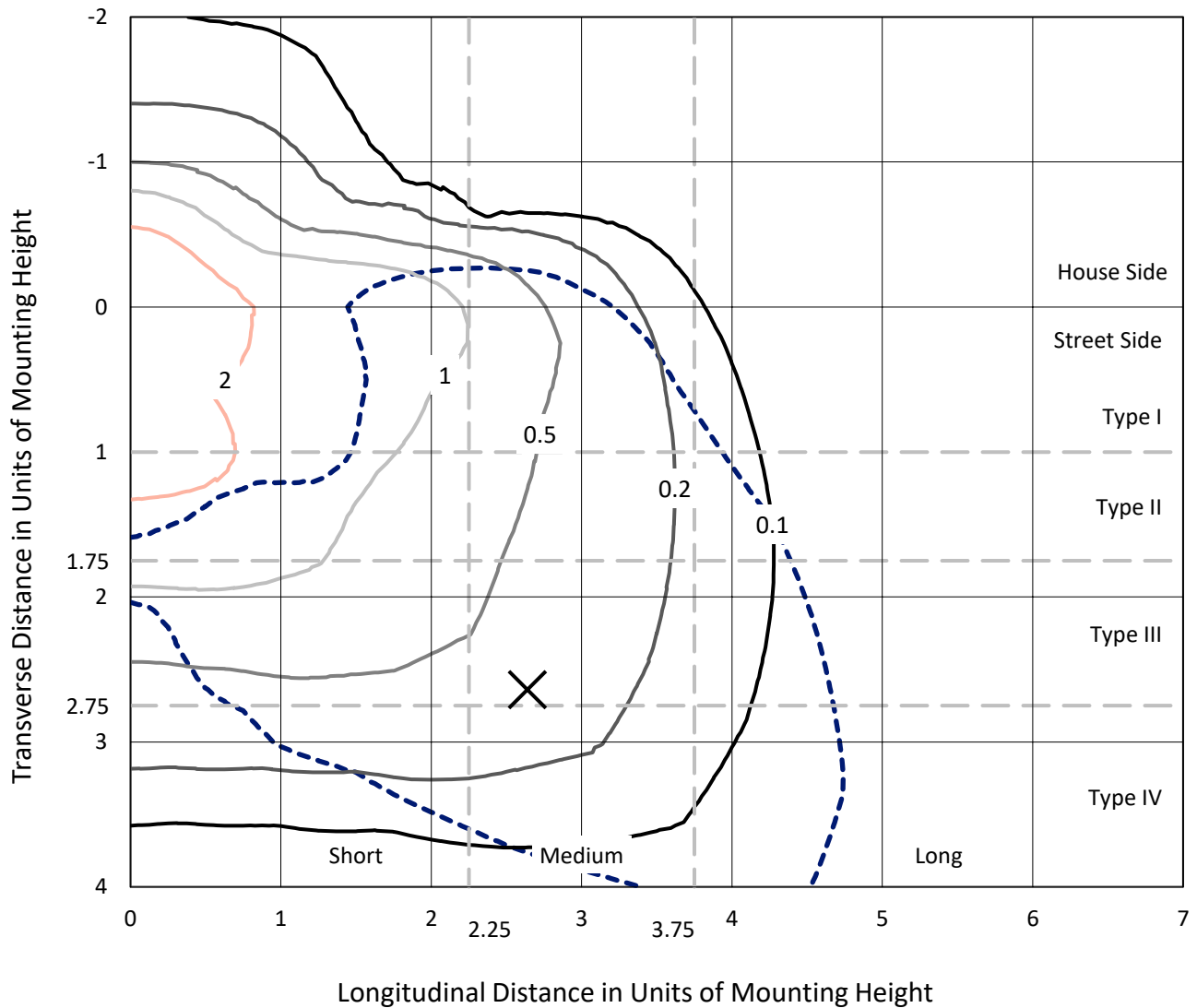
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

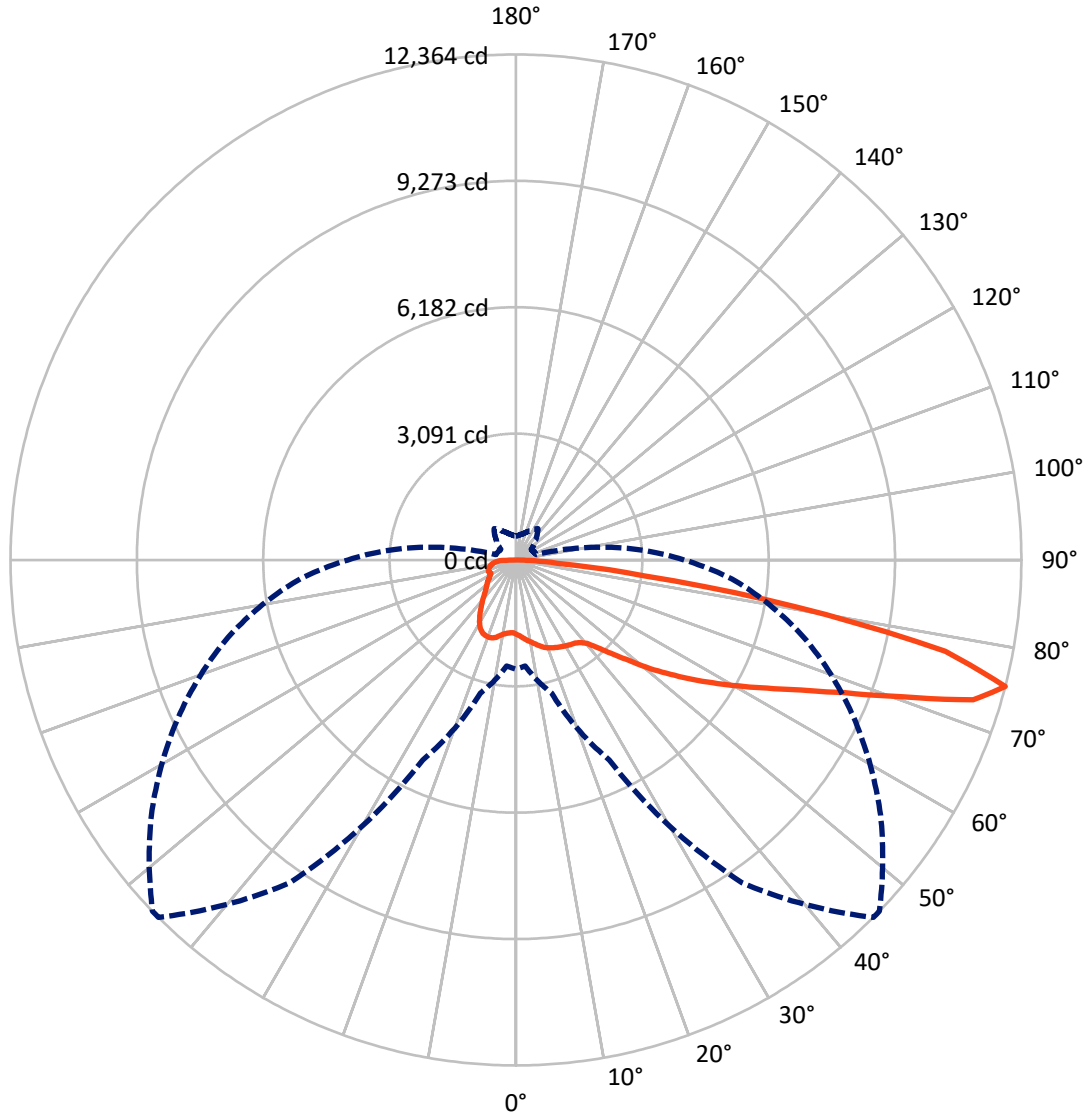
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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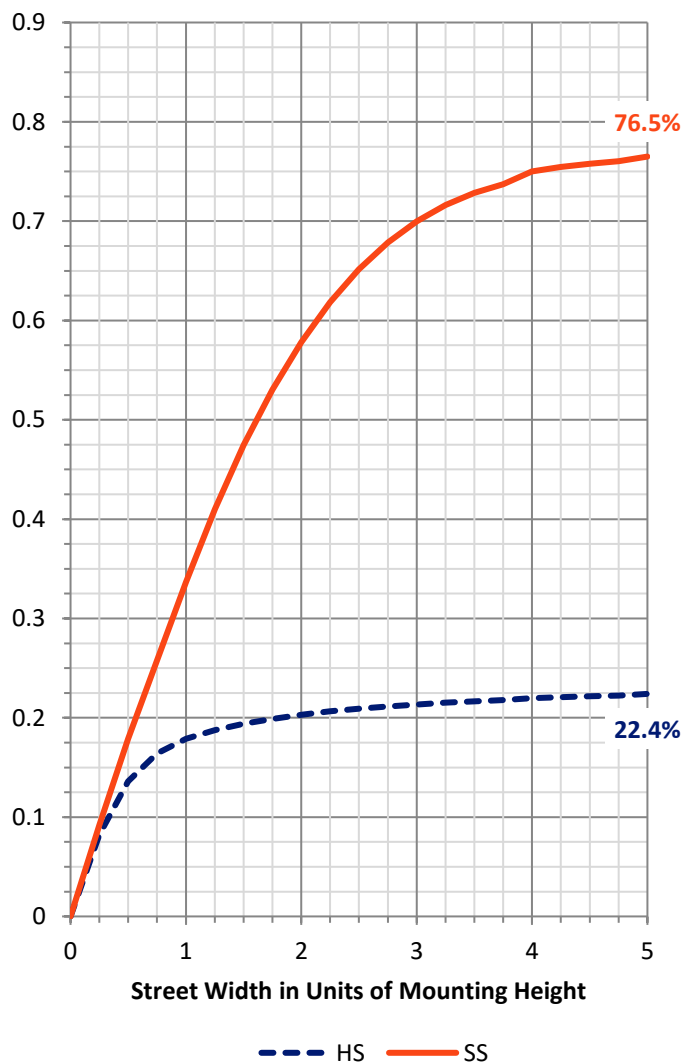
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4101.5	0.0	4101.5
	% Fixture	23.2	0.0	23.2
<b>Street Side</b>	Lumens	13603.5	0.0	13603.5
	% Fixture	76.8	0.0	76.8
<b>Total</b>	Lumens	17705.0	0.0	17705.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.9	1.0
10°-20°	582.9	3.3
20°-30°	1000.2	5.6
30°-40°	1398.9	7.9
40°-50°	2052.1	11.6
50°-60°	3196.6	18.1
60°-70°	4599.6	26.0
70°-80°	4006.8	22.6
80°-90°	688.1	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°	17705.0	100.0
0°-180°	17705.0	100.0

**Coefficient of Utilization**



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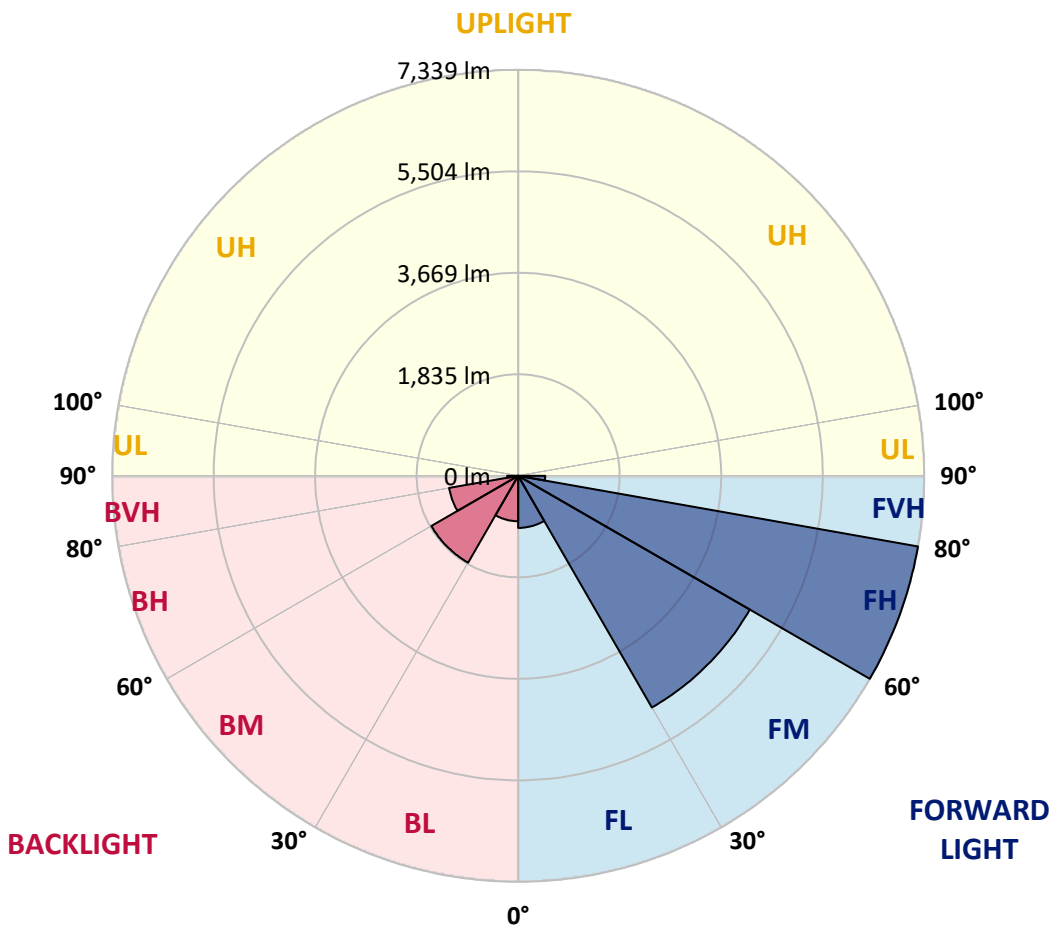
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	941.5	5.3			
FM (30°-60°)	4834.9	27.3			
FH (60°-80°)	7338.9	41.5			G3/7500
FVH (80°-90°)	488.2	2.8			G3/500
BL (0°-30°)	821.5	4.6	B2/1000		
BM (30°-60°)	1812.6	10.2	B2/2500		
BH (60°-80°)	1267.5	7.2	B3/2500		G3/2500
BVH (80°-90°)	199.9	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°	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0
2.5°	1904.6	1890.8	1890.8	1880.5	1880.5	1863.2	1856.3	1852.9	1835.7	1825.3	1815.0
5°	2014.8	1997.5	1994.1	1970.0	1959.7	1921.8	1918.3	1894.2	1863.2	1832.2	1808.1
7.5°	2114.6	2104.3	2087.1	2063.0	2032.0	1983.8	1980.3	1942.4	1890.8	1849.5	1815.0
10°	2187.0	2180.1	2156.0	2125.0	2090.5	2042.3	2038.9	1997.5	1935.6	1887.3	1839.1
12.5°	2273.1	2262.7	2231.7	2190.4	2152.5	2107.8	2104.3	2069.9	2001.0	1939.0	1877.0
15°	2355.7	2342.0	2304.1	2262.7	2221.4	2183.5	2183.5	2145.6	2073.3	2001.0	1928.7
17.5°	2397.1	2390.2	2352.3	2307.5	2273.1	2245.5	2242.1	2207.6	2135.3	2059.5	1980.3
20°	2410.8	2414.3	2379.8	2331.6	2307.5	2293.7	2290.3	2266.2	2187.0	2114.6	2038.9
22.5°	2407.4	2417.7	2390.2	2338.5	2331.6	2331.6	2331.6	2304.1	2242.1	2169.8	2094.0
25°	2421.2	2434.9	2414.3	2352.3	2352.3	2366.1	2366.1	2352.3	2297.2	2235.2	2159.4
27.5°	2469.4	2479.7	2462.5	2376.4	2379.8	2400.5	2397.1	2400.5	2366.1	2307.5	2231.7
30°	2527.9	2541.7	2521.0	2414.3	2410.8	2431.5	2431.5	2448.7	2424.6	2362.6	2300.6
32.5°	2686.4	2682.9	2617.5	2455.6	2445.3	2465.9	2465.9	2483.2	2469.4	2421.2	2362.6
35°	3158.2	3106.5	2961.9	2589.9	2486.6	2496.9	2496.9	2527.9	2534.8	2496.9	2445.3
37.5°	3640.4	3623.1	3512.9	2948.1	2638.1	2562.4	2558.9	2603.7	2634.7	2603.7	2569.3
40°	4126.0	4112.2	4088.1	3426.8	2955.0	2679.5	2669.1	2707.0	2762.1	2741.5	2720.8
42.5°	4577.1	4570.3	4594.4	3898.7	3357.9	2930.9	2899.9	2855.1	2934.3	2927.4	2927.4
45°	4931.9	4949.1	4962.9	4339.5	3795.3	3254.6	3216.7	3065.2	3172.0	3199.5	3220.2
47.5°	5131.6	5145.4	5193.6	4770.0	4232.7	3630.0	3602.5	3354.5	3495.7	3578.4	3636.9
50°	5417.5	5379.6	5420.9	5190.2	4759.7	4119.1	4043.3	3743.7	3922.8	4067.4	4205.2
52.5°	5693.0	5631.0	5665.5	5675.8	5358.9	4597.8	4518.6	4201.7	4425.6	4652.9	4897.4
55°	5941.0	5937.5	5972.0	6147.6	5937.5	5111.0	5021.4	4708.0	5031.8	5276.3	5689.6
57.5°	6140.7	6175.2	6326.7	6695.2	6605.7	5668.9	5569.0	5296.9	5679.2	5923.8	6609.1
60°	6374.9	6430.0	6681.5	7160.2	7215.3	6254.4	6151.1	5954.8	6343.9	6591.9	7673.3
62.5°	6454.1	6533.4	7050.0	7649.2	7852.4	6895.0	6802.0	6671.1	7043.1	7266.9	8734.1
65°	5927.2	6078.7	7253.2	7900.6	8537.8	7666.5	7587.2	7473.6	7738.8	7886.9	9453.9
67.5°	5782.6	5851.4	6857.1	8262.3	9181.8	8658.3	8579.1	8382.8	8389.7	8327.7	9688.1
70°	5579.4	5655.1	6450.7	8534.4	10104.8	10015.3	9918.9	9340.3	8985.5	8610.1	9226.6
72.5°	4752.8	4728.7	5558.7	7800.8	10549.1	11696.0	11582.3	10370.0	9426.4	8365.6	7787.0
75°	2669.1	2600.3	3371.7	5396.8	9633.0	12364.1	12360.7	10890.1	9116.4	7287.6	5300.4
77.5°	774.9	754.2	1112.4	2262.7	6485.1	10742.0	10872.9	9822.4	7607.9	5235.0	2910.2
80°	365.1	372.0	478.7	747.4	2769.0	6932.9	7308.3	6467.9	4546.1	2414.3	1202.0
82.5°	230.8	234.2	327.2	482.2	1171.0	3147.9	3457.8	2910.2	1801.2	1043.5	530.4
85°	144.7	144.7	217.0	316.9	699.1	1005.7	1091.8	991.9	771.5	568.3	289.3
87.5°	79.2	79.2	130.9	182.5	382.3	323.7	334.1	396.1	482.2	347.8	144.7
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°	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0
2.5°	1811.6	1804.7	1794.3	1790.9	1787.5	1784.0	1787.5	1794.3	1787.5	1787.5	1790.9
5°	1801.2	1794.3	1780.6	1780.6	1784.0	1787.5	1804.7	1815.0	1818.5	1818.5	1818.5
7.5°	1801.2	1790.9	1780.6	1784.0	1790.9	1804.7	1832.2	1849.5	1863.2	1866.7	1866.7
10°	1818.5	1804.7	1797.8	1804.7	1825.3	1835.7	1863.2	1890.8	1908.0	1914.9	1914.9
12.5°	1849.5	1835.7	1835.7	1849.5	1877.0	1890.8	1914.9	1935.6	1956.2	1966.6	1966.6
15°	1901.1	1883.9	1887.3	1911.4	1942.4	1956.2	1973.4	1980.3	1997.5	2011.3	2011.3
17.5°	1949.3	1932.1	1939.0	1966.6	1987.2	1994.1	2004.4	2001.0	2007.9	2018.2	2021.7
20°	2004.4	1987.2	1990.7	2007.9	2011.3	2004.4	2004.4	1994.1	1990.7	2007.9	2014.8
22.5°	2059.5	2042.3	2038.9	2028.5	2011.3	1994.1	1983.8	1973.4	1966.6	1983.8	1990.7
25°	2125.0	2100.9	2083.6	2038.9	1994.1	1963.1	1949.3	1942.4	1939.0	1956.2	1963.1
27.5°	2197.3	2173.2	2121.5	2025.1	1952.8	1901.1	1890.8	1890.8	1897.7	1908.0	1914.9
30°	2266.2	2242.1	2149.1	1994.1	1880.5	1804.7	1794.3	1804.7	1821.9	1832.2	1842.6
32.5°	2335.1	2311.0	2166.3	1945.9	1773.7	1677.3	1670.4	1687.6	1715.1	1722.0	1728.9
35°	2428.1	2403.9	2187.0	1877.0	1639.4	1536.0	1529.2	1539.5	1563.6	1573.9	1584.3
37.5°	2558.9	2545.2	2218.0	1801.2	1515.4	1401.7	1381.1	1374.2	1388.0	1384.5	1398.3
40°	2731.1	2741.5	2273.1	1701.4	1394.8	1277.7	1233.0	1212.3	1198.5	1171.0	1184.8
42.5°	2982.5	2989.4	2335.1	1587.7	1291.5	1160.6	1102.1	1064.2	1036.7	991.9	998.8
45°	3351.1	3292.5	2407.4	1467.2	1198.5	1067.7	998.8	954.0	916.1	878.2	881.7
47.5°	3840.1	3661.0	2486.6	1367.3	1105.5	991.9	929.9	878.2	833.5	802.5	805.9
50°	4442.8	4119.1	2565.8	1274.3	1012.6	933.3	878.2	823.1	778.4	747.4	743.9
52.5°	5238.4	4670.1	2617.5	1171.0	919.6	881.7	833.5	781.8	726.7	688.8	685.4
55°	6065.0	5310.7	2662.2	1047.0	830.0	823.1	799.0	740.5	675.0	626.8	619.9
57.5°	6974.2	5996.1	2696.7	926.4	761.1	774.9	768.0	699.1	626.8	582.0	578.6
60°	7800.8	6705.6	2586.5	819.7	699.1	726.7	733.6	675.0	637.1	647.5	650.9
62.5°	8634.2	7253.2	2166.3	740.5	657.8	695.7	754.2	750.8	733.6	750.8	754.2
65°	8933.9	7366.8	1536.0	675.0	616.5	709.5	819.7	812.8	733.6	702.6	695.7
67.5°	8765.1	7029.3	1033.2	623.4	585.5	726.7	888.6	812.8	706.0	664.7	650.9
70°	7962.6	6199.3	757.7	571.7	557.9	723.3	926.4	809.4	692.3	647.5	630.3
72.5°	6350.8	4783.8	609.6	523.5	516.6	706.0	947.1	802.5	678.5	630.3	609.6
75°	4112.2	2975.7	513.2	475.3	454.6	678.5	936.8	781.8	661.3	599.3	585.5
77.5°	1908.0	1281.2	437.4	420.2	396.1	637.1	905.8	740.5	623.4	564.8	547.6
80°	888.6	606.2	368.5	365.1	354.7	602.7	864.5	692.3	578.6	530.4	502.8
82.5°	475.3	365.1	299.6	299.6	310.0	561.4	812.8	633.7	520.1	495.9	423.6
85°	251.4	210.1	217.0	234.2	265.2	495.9	743.9	571.7	454.6	378.8	368.5
87.5°	127.4	134.3	134.3	158.4	203.2	403.0	613.0	471.8	385.7	310.0	303.1
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)