

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: P399343

Luminaire Tested: **ARCH-L-PA3-130-727-U-T4W**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399343  
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-PA3-130-727-U-T4W  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 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: 17594 lumens  
Efficiency: N/A  
Efficacy: 132.3 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

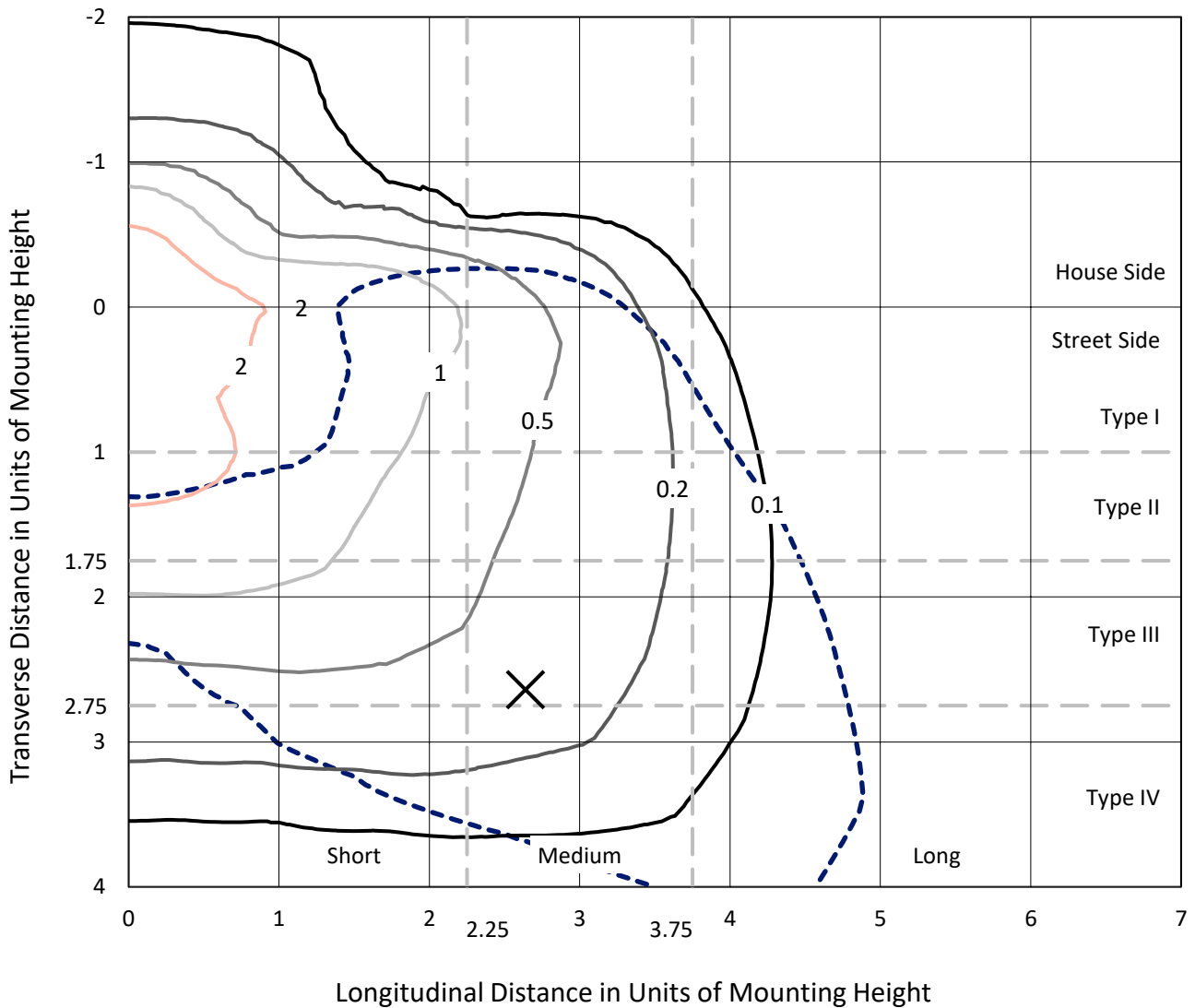
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

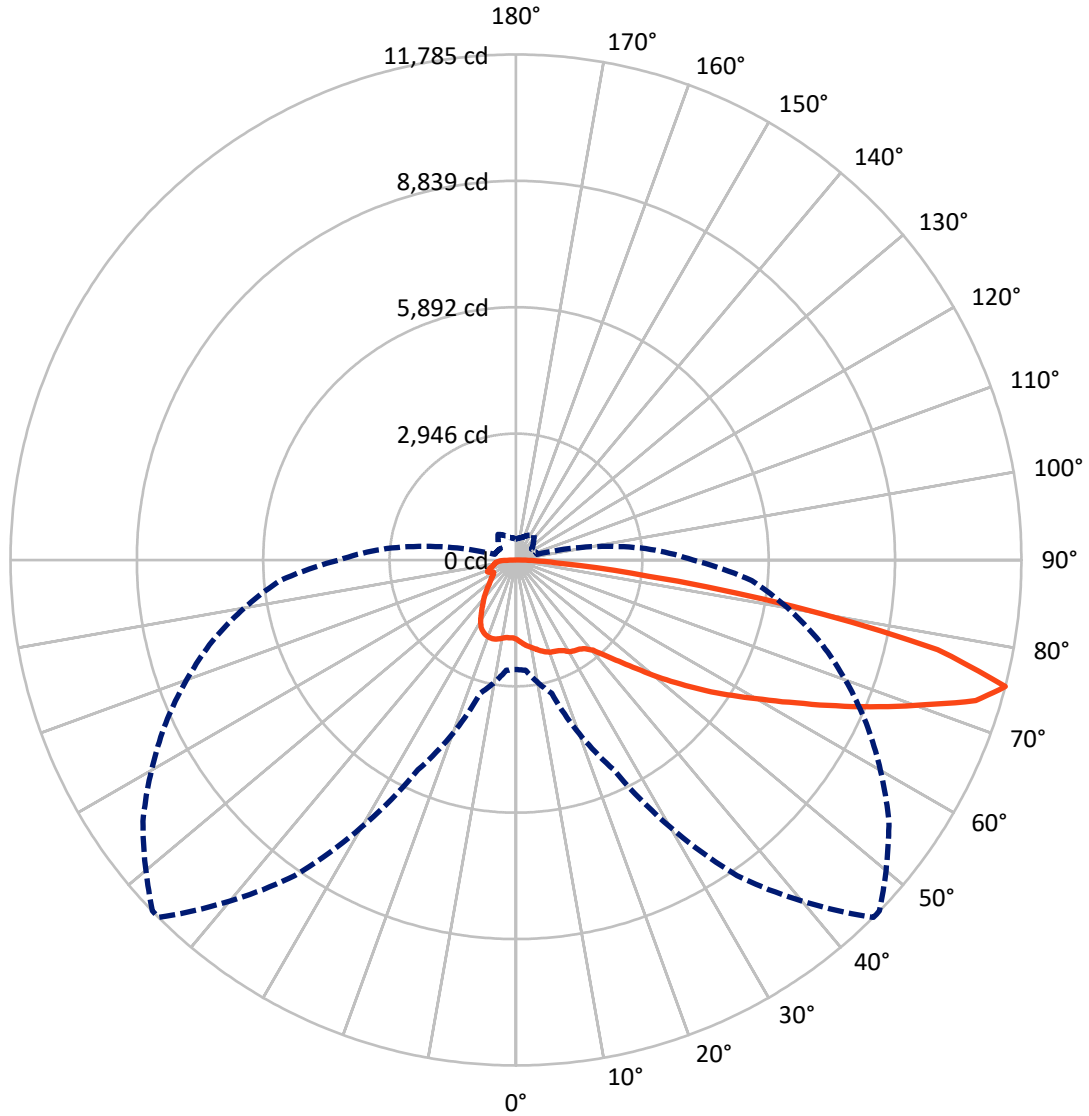
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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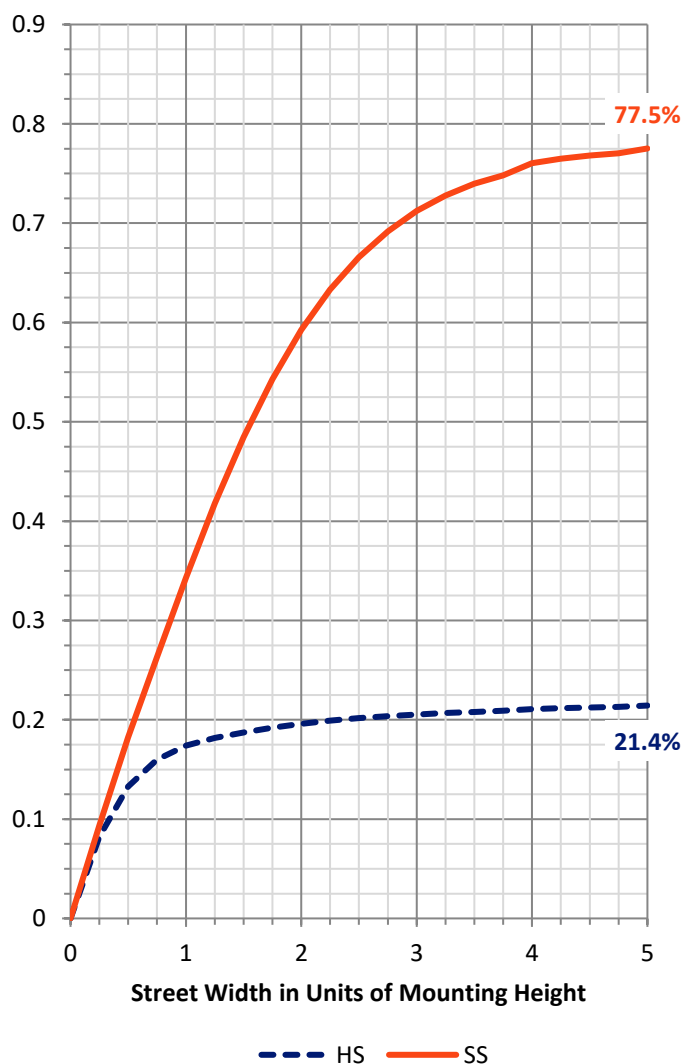
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3888.2	0.0	3888.2
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	13705.8	0.0	13705.8
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	17594.0	0.0	17594.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.8	1.0
10°-20°	581.5	3.3
20°-30°	991.4	5.6
30°-40°	1389.1	7.9
40°-50°	2040.8	11.6
50°-60°	3248.0	18.5
60°-70°	4620.3	26.3
70°-80°	3868.6	22.0
80°-90°	671.4	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°	17594.0	100.0
0°-180°	17594.0	100.0

**Coefficient of Utilization**

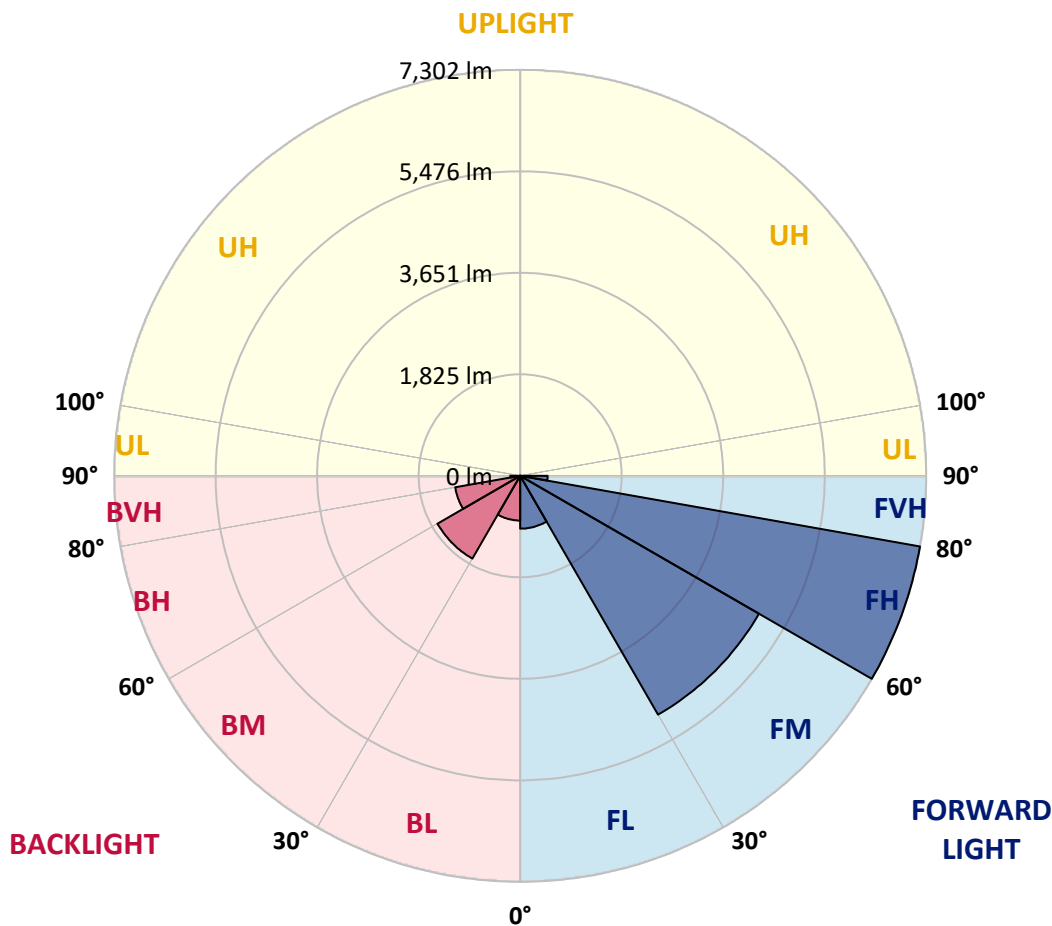


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	951.1	5.4			
FM (30°-60°)	4959.2	28.2			
FH (60°-80°)	7301.9	41.5			G3/7500
FVH (80°-90°)	493.6	2.8			G3/500
BL (0°-30°)	804.7	4.6	B2/1000		
BM (30°-60°)	1718.8	9.8	B2/2500		
BH (60°-80°)	1186.9	6.7	B3/2500		G3/2500
BVH (80°-90°)	177.8	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°	1847.8	1847.8	1847.8	1847.8	1847.8	1847.8	1847.8	1847.8	1847.8	1847.8	1847.8
2.5°	1953.5	1944.1	1939.4	1939.4	1920.6	1908.9	1906.5	1890.1	1876.0	1861.9	1850.1
5°	2066.4	2059.3	2045.2	2033.5	2007.6	1974.7	1970.0	1934.7	1899.5	1866.6	1838.4
7.5°	2169.8	2155.7	2139.3	2115.7	2073.4	2028.8	2021.7	1972.3	1923.0	1873.6	1836.0
10°	2256.8	2242.7	2219.2	2186.3	2132.2	2078.1	2071.1	2019.4	1967.6	1908.9	1854.8
12.5°	2339.1	2327.3	2292.1	2247.4	2183.9	2134.6	2127.5	2082.8	2028.8	1962.9	1892.4
15°	2409.6	2397.8	2360.2	2308.5	2235.6	2198.0	2188.6	2146.3	2092.2	2021.7	1948.8
17.5°	2444.9	2444.9	2404.9	2348.5	2280.3	2252.1	2245.0	2193.3	2144.0	2075.8	2002.9
20°	2456.6	2461.3	2433.1	2364.9	2306.2	2294.4	2287.4	2245.0	2188.6	2122.8	2054.6
22.5°	2463.7	2473.1	2449.6	2372.0	2322.6	2315.6	2310.9	2282.7	2238.0	2174.5	2106.3
25°	2487.2	2487.2	2470.7	2383.7	2343.8	2341.4	2341.4	2325.0	2294.4	2240.3	2172.2
27.5°	2522.4	2520.1	2498.9	2409.6	2390.8	2397.8	2395.5	2393.1	2372.0	2317.9	2245.0
30°	2581.2	2581.2	2557.7	2461.3	2449.6	2480.1	2482.5	2487.2	2454.3	2369.6	2310.9
32.5°	2670.5	2661.1	2637.6	2513.0	2494.2	2522.4	2527.1	2524.8	2496.6	2416.7	2388.4
35°	2945.6	2924.4	2839.8	2628.2	2534.2	2550.7	2553.0	2564.8	2569.5	2506.0	2491.9
37.5°	3427.5	3399.3	3270.0	2900.9	2661.1	2621.2	2618.8	2649.4	2675.2	2618.8	2618.8
40°	3951.8	3928.2	3853.0	3371.1	2896.2	2764.6	2755.2	2783.4	2816.3	2776.3	2788.1
42.5°	4403.1	4421.9	4429.0	3869.5	3248.9	3032.6	3006.7	2966.8	3018.5	2983.2	3030.2
45°	4741.6	4732.2	4861.5	4379.6	3704.9	3368.7	3333.5	3225.3	3291.2	3288.8	3392.3
47.5°	5101.3	5084.9	5138.9	4859.2	4224.4	3780.1	3726.1	3566.2	3664.9	3733.1	3904.7
50°	5442.2	5446.9	5465.7	5237.7	4788.6	4280.9	4212.7	3998.8	4139.8	4283.2	4525.4
52.5°	5886.5	5853.6	5830.1	5679.6	5421.0	4802.8	4758.1	4513.6	4711.1	4880.3	5202.4
55°	6274.4	6253.2	6239.1	6232.1	5950.0	5378.7	5331.7	5077.8	5362.3	5482.1	5957.0
57.5°	6688.1	6676.4	6751.6	6871.5	6758.6	5964.1	5914.7	5670.2	5987.6	6072.2	6775.1
60°	6991.4	6998.4	7205.3	7510.9	7433.3	6598.8	6540.0	6323.7	6596.4	6671.7	7593.2
62.5°	6993.7	7064.3	7543.8	8091.6	8180.9	7329.9	7261.7	7026.6	7221.8	7221.8	8326.7
65°	6326.1	6406.0	7482.7	8235.0	8937.9	8199.7	8133.9	7764.8	7837.7	7738.9	9015.4
67.5°	5660.8	5754.8	6768.0	8246.7	9469.2	9130.6	9053.1	8503.0	8378.4	8129.2	9497.4
70°	5218.8	5284.7	6131.0	8093.9	9788.9	10103.9	10045.1	9203.5	8803.9	8455.9	9396.3
72.5°	4393.7	4370.2	5178.9	7367.5	9967.5	11208.8	11159.4	9965.2	9173.0	8300.8	8014.0
75°	2550.7	2578.9	3213.6	5397.5	8984.9	11784.7	11780.0	10616.4	9010.7	7332.2	5522.1
77.5°	735.8	757.0	1055.5	2372.0	5682.0	10052.2	10374.2	9708.9	7616.7	5225.9	2863.3
80°	322.1	338.5	458.4	789.9	2447.2	6565.9	6848.0	6565.9	4593.5	2397.8	1123.7
82.5°	190.4	202.2	298.6	489.0	1173.1	3124.3	3505.1	3060.8	1981.8	1017.9	465.5
85°	108.1	112.8	171.6	310.3	738.2	1093.1	1227.1	1149.6	966.2	578.3	244.5
87.5°	49.4	51.7	84.6	145.8	413.7	369.1	383.2	507.8	559.5	352.6	122.2
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°	1847.8	1847.8	1847.8	1847.8	1847.8	1847.8	1847.8	1847.8	1847.8	1847.8	1847.8
2.5°	1845.4	1838.4	1824.2	1819.5	1812.5	1814.8	1817.2	1817.2	1819.5	1812.5	1812.5
5°	1826.6	1814.8	1800.7	1800.7	1800.7	1819.5	1836.0	1845.4	1850.1	1850.1	1845.4
7.5°	1819.5	1805.4	1789.0	1793.7	1798.4	1821.9	1852.5	1883.0	1892.4	1892.4	1887.7
10°	1833.6	1819.5	1807.8	1814.8	1826.6	1845.4	1868.9	1897.1	1920.6	1923.0	1920.6
12.5°	1866.6	1850.1	1838.4	1852.5	1866.6	1878.3	1890.1	1901.8	1932.4	1937.1	1937.1
15°	1920.6	1904.2	1890.1	1901.8	1906.5	1906.5	1906.5	1906.5	1937.1	1941.8	1941.8
17.5°	1974.7	1960.6	1946.5	1948.8	1934.7	1915.9	1908.9	1906.5	1923.0	1937.1	1939.4
20°	2026.4	2014.7	2000.6	1977.1	1941.8	1906.5	1894.8	1894.8	1904.2	1925.3	1925.3
22.5°	2082.8	2068.7	2045.2	1991.2	1932.4	1883.0	1871.3	1878.3	1890.1	1918.3	1915.9
25°	2146.3	2127.5	2087.5	1986.5	1901.8	1843.1	1845.4	1866.6	1887.7	1918.3	1918.3
27.5°	2216.8	2191.0	2111.0	1948.8	1833.6	1777.2	1798.4	1847.8	1878.3	1911.2	1915.9
30°	2294.4	2270.9	2129.9	1883.0	1723.2	1671.4	1723.2	1803.1	1850.1	1880.7	1887.7
32.5°	2388.4	2369.6	2146.3	1798.4	1579.8	1535.1	1610.3	1709.1	1784.3	1819.5	1826.6
35°	2506.0	2487.2	2167.5	1702.0	1445.8	1398.7	1466.9	1568.0	1666.7	1711.4	1725.5
37.5°	2658.8	2630.6	2186.3	1598.6	1332.9	1278.9	1311.8	1403.4	1492.8	1553.9	1570.4
40°	2853.9	2809.2	2202.7	1481.0	1234.2	1173.1	1184.8	1229.5	1281.2	1335.3	1356.4
42.5°	3129.0	3039.6	2205.1	1356.4	1133.1	1076.7	1072.0	1086.1	1086.1	1086.1	1093.1
45°	3512.1	3342.9	2209.8	1238.9	1029.7	970.9	956.8	952.1	916.8	848.7	843.9
47.5°	3996.4	3740.2	2230.9	1140.2	921.5	869.8	851.0	832.2	766.4	695.8	681.7
50°	4617.0	4200.9	2273.3	1046.1	829.8	794.6	771.1	726.4	653.5	599.5	585.4
52.5°	5331.7	4748.7	2313.2	947.4	761.7	738.2	710.0	655.9	578.3	545.4	540.7
55°	6152.1	5359.9	2393.1	860.4	702.9	686.4	660.6	608.9	550.1	526.6	524.2
57.5°	6991.4	6044.0	2506.0	782.8	646.5	637.1	637.1	592.4	554.8	545.4	545.4
60°	7800.1	6631.7	2419.0	710.0	594.8	599.5	644.1	632.4	604.2	615.9	623.0
62.5°	8427.7	6977.3	1962.9	651.2	557.1	599.5	714.7	714.7	681.7	677.0	677.0
65°	8695.7	6972.6	1379.9	606.5	543.0	658.2	796.9	759.3	672.3	639.4	632.4
67.5°	8627.6	6667.0	952.1	576.0	538.3	719.4	834.5	728.8	630.0	601.8	580.7
70°	8028.1	6020.5	733.5	547.7	531.3	693.5	822.8	693.5	597.1	571.3	552.4
72.5°	6476.5	4828.6	608.9	519.5	503.1	641.8	782.8	660.6	571.3	543.0	524.2
75°	4130.4	3037.3	514.8	481.9	449.0	576.0	728.8	627.7	543.0	505.4	491.3
77.5°	1986.5	1309.4	449.0	437.3	404.3	533.6	674.7	585.4	505.4	474.9	465.5
80°	804.0	599.5	390.2	392.6	371.4	507.8	637.1	545.4	467.8	434.9	418.4
82.5°	418.4	347.9	329.1	338.5	338.5	484.3	608.9	512.5	434.9	420.8	366.7
85°	225.7	216.3	253.9	272.7	293.9	437.3	566.6	477.2	397.3	340.9	329.1
87.5°	110.5	141.0	143.4	164.6	204.5	350.3	477.2	399.6	331.5	275.0	270.3
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)