

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: P399235

Luminaire Tested: **ARCH-L-PA3-110-760-U-T4W**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399235  
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-PA3-110-760-U-T4W  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18211 lumens  
Efficiency: N/A  
Efficacy: 161.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

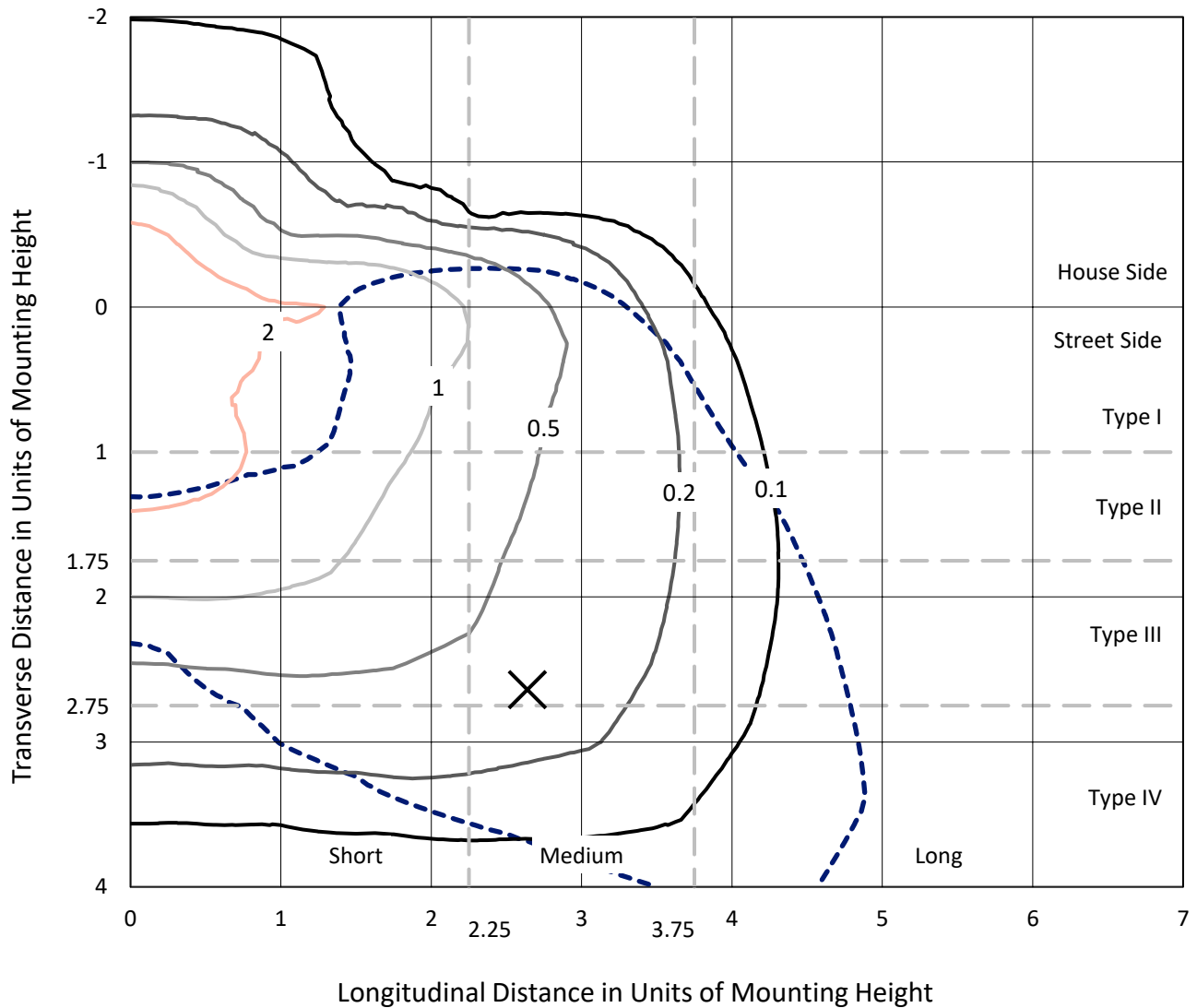
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

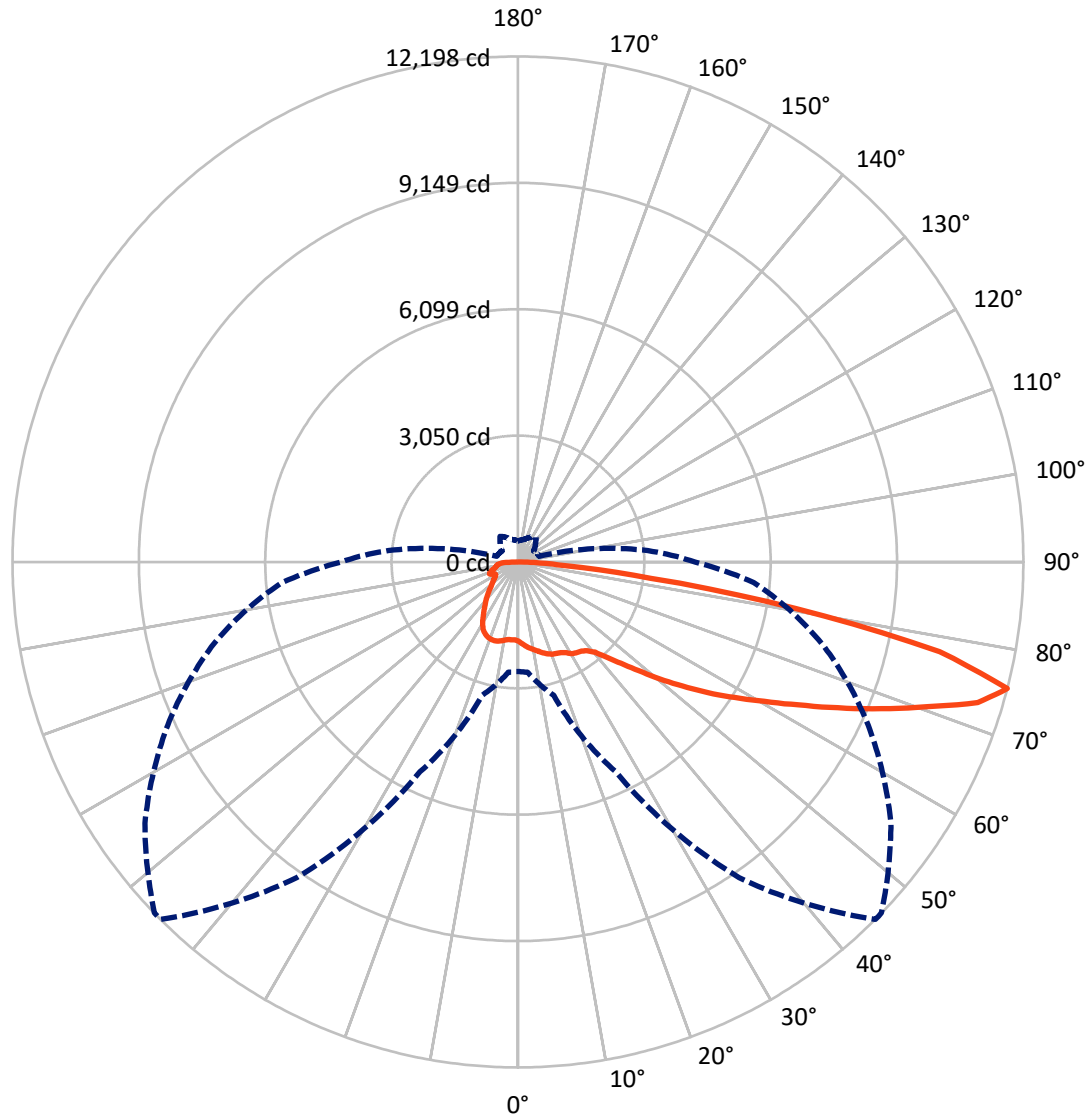
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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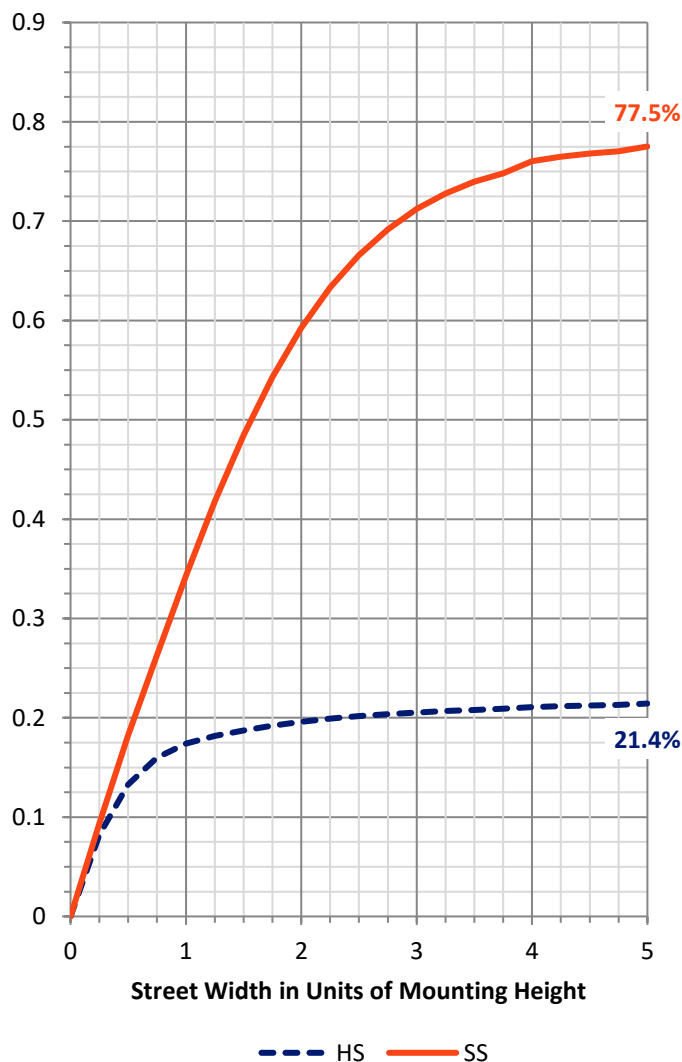
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4024.6	0.0	4024.6
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	14186.5	0.0	14186.5
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	18211.0	0.0	18211.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.2	1.0
10°-20°	601.9	3.3
20°-30°	1026.2	5.6
30°-40°	1437.9	7.9
40°-50°	2112.4	11.6
50°-60°	3361.9	18.5
60°-70°	4782.3	26.3
70°-80°	4004.2	22.0
80°-90°	694.9	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°	18211.0	100.0
0°-180°	18211.0	100.0

**Coefficient of Utilization**



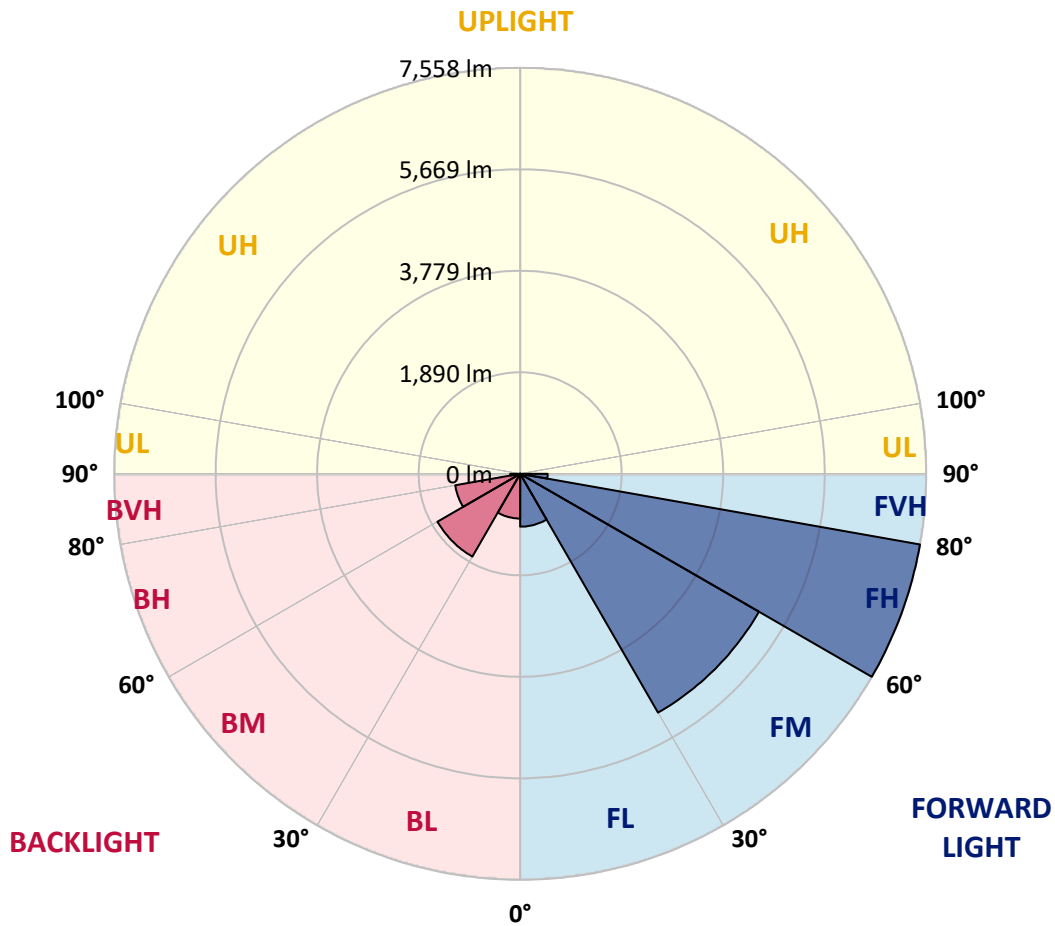
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	984.4	5.4			
FM (30°-60°)	5133.1	28.2			
FH (60°-80°)	7558.0	41.5			G4/12000
FVH (80°-90°)	510.9	2.8			G4/750
BL (0°-30°)	832.9	4.6	B2/1000		
BM (30°-60°)	1779.0	9.8	B2/2500		
BH (60°-80°)	1228.5	6.7	B3/2500		G3/2500
BVH (80°-90°)	184.0	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-G4**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1912.6	1912.6	1912.6	1912.6	1912.6	1912.6	1912.6	1912.6	1912.6	1912.6	1912.6
2.5°	2022.1	2012.3	2007.5	2007.5	1988.0	1975.8	1973.4	1956.4	1941.8	1927.2	1915.0
5°	2138.8	2131.5	2116.9	2104.8	2078.0	2044.0	2039.1	2002.6	1966.1	1932.0	1902.8
7.5°	2245.9	2231.3	2214.3	2189.9	2146.1	2099.9	2092.6	2041.5	1990.4	1939.3	1900.4
10°	2335.9	2321.3	2297.0	2262.9	2207.0	2151.0	2143.7	2090.2	2036.7	1975.8	1919.9
12.5°	2421.1	2408.9	2372.4	2326.2	2260.5	2209.4	2202.1	2155.9	2099.9	2031.8	1958.8
15°	2494.1	2481.9	2443.0	2389.5	2314.0	2275.1	2265.4	2221.6	2165.6	2092.6	2017.2
17.5°	2530.6	2530.6	2489.2	2430.8	2360.3	2331.1	2323.8	2270.2	2219.1	2148.6	2073.1
20°	2542.8	2547.6	2518.4	2447.9	2387.0	2374.9	2367.6	2323.8	2265.4	2197.2	2126.7
22.5°	2550.1	2559.8	2535.5	2455.2	2404.1	2396.8	2391.9	2362.7	2316.5	2250.8	2180.2
25°	2574.4	2574.4	2557.4	2467.3	2426.0	2423.5	2423.5	2406.5	2374.9	2318.9	2248.3
27.5°	2610.9	2608.5	2586.6	2494.1	2474.6	2481.9	2479.5	2477.1	2455.2	2399.2	2323.8
30°	2671.7	2671.7	2647.4	2547.6	2535.5	2567.1	2569.5	2574.4	2540.3	2452.7	2391.9
32.5°	2764.2	2754.5	2730.1	2601.2	2581.7	2610.9	2615.8	2613.3	2584.1	2501.4	2472.2
35°	3048.9	3027.0	2939.4	2720.4	2623.1	2640.1	2642.5	2654.7	2659.6	2593.9	2579.3
37.5°	3547.7	3518.5	3384.7	3002.7	2754.5	2713.1	2710.7	2742.3	2769.1	2710.7	2710.7
40°	4090.3	4066.0	3988.1	3489.3	2997.8	2861.5	2851.8	2881.0	2915.1	2873.7	2885.9
42.5°	4557.5	4577.0	4584.3	4005.2	3362.8	3138.9	3112.2	3070.8	3124.3	3087.8	3136.5
45°	4907.9	4898.2	5032.0	4533.2	3834.8	3486.9	3450.4	3338.5	3406.6	3404.2	3511.2
47.5°	5280.2	5263.2	5319.1	5029.6	4372.6	3912.7	3856.7	3691.3	3793.5	3864.0	4041.7
50°	5633.0	5637.9	5657.4	5421.3	4956.6	4431.0	4360.4	4139.0	4285.0	4433.4	4684.1
52.5°	6092.9	6058.9	6034.5	5878.8	5611.1	4971.2	4924.9	4671.9	4876.3	5051.5	5384.8
55°	6494.4	6472.5	6457.9	6450.6	6158.6	5567.3	5518.7	5255.9	5550.3	5674.4	6165.9
57.5°	6922.7	6910.5	6988.4	7112.5	6995.7	6173.2	6122.1	5869.1	6197.5	6285.1	7012.7
60°	7236.6	7243.9	7458.0	7774.3	7694.0	6830.2	6769.4	6545.5	6827.8	6905.6	7859.5
62.5°	7239.0	7312.0	7808.4	8375.3	8467.8	7586.9	7516.4	7273.1	7475.0	7475.0	8618.7
65°	6547.9	6630.7	7745.1	8523.8	9251.3	8487.3	8419.1	8037.1	8112.5	8010.3	9331.6
67.5°	5859.3	5956.7	7005.4	8535.9	9801.2	9450.8	9370.5	8801.2	8672.2	8414.3	9830.4
70°	5401.9	5470.0	6346.0	8377.8	10132.2	10458.2	10397.4	9526.3	9112.6	8752.5	9725.8
72.5°	4547.8	4523.5	5360.5	7625.9	10317.1	11601.9	11550.8	10314.6	9494.6	8591.9	8295.0
75°	2640.1	2669.3	3326.3	5586.8	9300.0	12198.0	12193.1	10988.7	9326.7	7589.4	5715.8
77.5°	761.6	783.5	1092.5	2455.2	5881.2	10404.7	10738.0	10049.4	7883.8	5409.2	2963.7
80°	333.4	350.4	474.5	817.6	2533.0	6796.1	7088.1	6796.1	4754.6	2481.9	1163.1
82.5°	197.1	209.3	309.0	506.1	1214.2	3233.8	3628.0	3168.1	2051.3	1053.6	481.8
85°	111.9	116.8	177.6	321.2	764.0	1131.5	1270.2	1189.9	1000.1	598.6	253.1
87.5°	51.1	53.5	87.6	150.9	428.3	382.0	396.6	525.6	579.1	365.0	126.5
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°	1912.6	1912.6	1912.6	1912.6	1912.6	1912.6	1912.6	1912.6	1912.6	1912.6	1912.6
2.5°	1910.1	1902.8	1888.2	1883.4	1876.1	1878.5	1880.9	1880.9	1883.4	1876.1	1876.1
5°	1890.7	1878.5	1863.9	1863.9	1863.9	1883.4	1900.4	1910.1	1915.0	1915.0	1910.1
7.5°	1883.4	1868.8	1851.7	1856.6	1861.5	1885.8	1917.4	1949.1	1958.8	1958.8	1953.9
10°	1898.0	1883.4	1871.2	1878.5	1890.7	1910.1	1934.5	1963.7	1988.0	1990.4	1988.0
12.5°	1932.0	1915.0	1902.8	1917.4	1932.0	1944.2	1956.4	1968.5	2000.2	2005.0	2005.0
15°	1988.0	1971.0	1956.4	1968.5	1973.4	1973.4	1973.4	1973.4	2005.0	2009.9	2009.9
17.5°	2044.0	2029.4	2014.8	2017.2	2002.6	1983.1	1975.8	1973.4	1990.4	2005.0	2007.5
20°	2097.5	2085.3	2070.7	2046.4	2009.9	1973.4	1961.2	1961.2	1971.0	1992.9	1992.9
22.5°	2155.9	2141.3	2116.9	2061.0	2000.2	1949.1	1936.9	1944.2	1956.4	1985.6	1983.1
25°	2221.6	2202.1	2160.7	2056.1	1968.5	1907.7	1910.1	1932.0	1953.9	1985.6	1985.6
27.5°	2294.6	2267.8	2185.1	2017.2	1898.0	1839.6	1861.5	1912.6	1944.2	1978.3	1983.1
30°	2374.9	2350.5	2204.5	1949.1	1783.6	1730.1	1783.6	1866.3	1915.0	1946.6	1953.9
32.5°	2472.2	2452.7	2221.6	1861.5	1635.2	1588.9	1666.8	1769.0	1846.9	1883.4	1890.7
35°	2593.9	2574.4	2243.5	1761.7	1496.5	1447.8	1518.4	1623.0	1725.2	1771.4	1786.0
37.5°	2752.0	2722.8	2262.9	1654.6	1379.7	1323.7	1357.8	1452.7	1545.1	1608.4	1625.4
40°	2954.0	2907.8	2280.0	1533.0	1277.5	1214.2	1226.4	1272.6	1326.1	1382.1	1404.0
42.5°	3238.7	3146.2	2282.4	1404.0	1172.8	1114.4	1109.6	1124.2	1124.2	1124.2	1131.5
45°	3635.3	3460.1	2287.3	1282.3	1065.8	1004.9	990.3	985.5	949.0	878.4	873.5
47.5°	4136.6	3871.3	2309.2	1180.1	953.8	900.3	880.8	861.4	793.2	720.2	705.6
50°	4779.0	4348.3	2353.0	1082.8	858.9	822.4	798.1	751.9	676.5	620.5	605.9
52.5°	5518.7	4915.2	2394.3	980.6	788.4	764.0	734.8	678.9	598.6	564.5	559.7
55°	6367.9	5547.9	2477.1	890.6	727.5	710.5	683.8	630.2	569.4	545.1	542.6
57.5°	7236.6	6255.9	2593.9	810.3	669.2	659.4	659.4	613.2	574.3	564.5	564.5
60°	8073.6	6864.3	2503.8	734.8	615.6	620.5	666.7	654.6	625.4	637.5	644.8
62.5°	8723.3	7222.0	2031.8	674.0	576.7	620.5	739.7	739.7	705.6	700.8	700.8
65°	9000.7	7217.1	1428.3	627.8	562.1	681.3	824.9	785.9	695.9	661.9	654.6
67.5°	8930.1	6900.8	985.5	596.2	557.2	744.6	863.8	754.3	652.1	622.9	601.0
70°	8309.6	6231.6	759.2	567.0	549.9	717.8	851.6	717.8	618.1	591.3	571.8
72.5°	6703.7	4997.9	630.2	537.8	520.7	664.3	810.3	683.8	591.3	562.1	542.6
75°	4275.3	3143.8	532.9	498.8	464.8	596.2	754.3	649.7	562.1	523.2	508.6
77.5°	2056.1	1355.3	464.8	452.6	418.5	552.4	698.3	605.9	523.2	491.5	481.8
80°	832.2	620.5	403.9	406.4	384.5	525.6	659.4	564.5	484.2	450.2	433.1
82.5°	433.1	360.1	340.7	350.4	350.4	501.3	630.2	530.5	450.2	435.6	379.6
85°	233.6	223.9	262.8	282.3	304.2	452.6	586.4	494.0	411.2	352.8	340.7
87.5°	114.4	146.0	148.4	170.3	211.7	362.6	494.0	413.7	343.1	284.7	279.8
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)