

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: P399280

Luminaire Tested: **ARCH-L-PA3-120-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399280
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-PA3-120-730-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17875 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

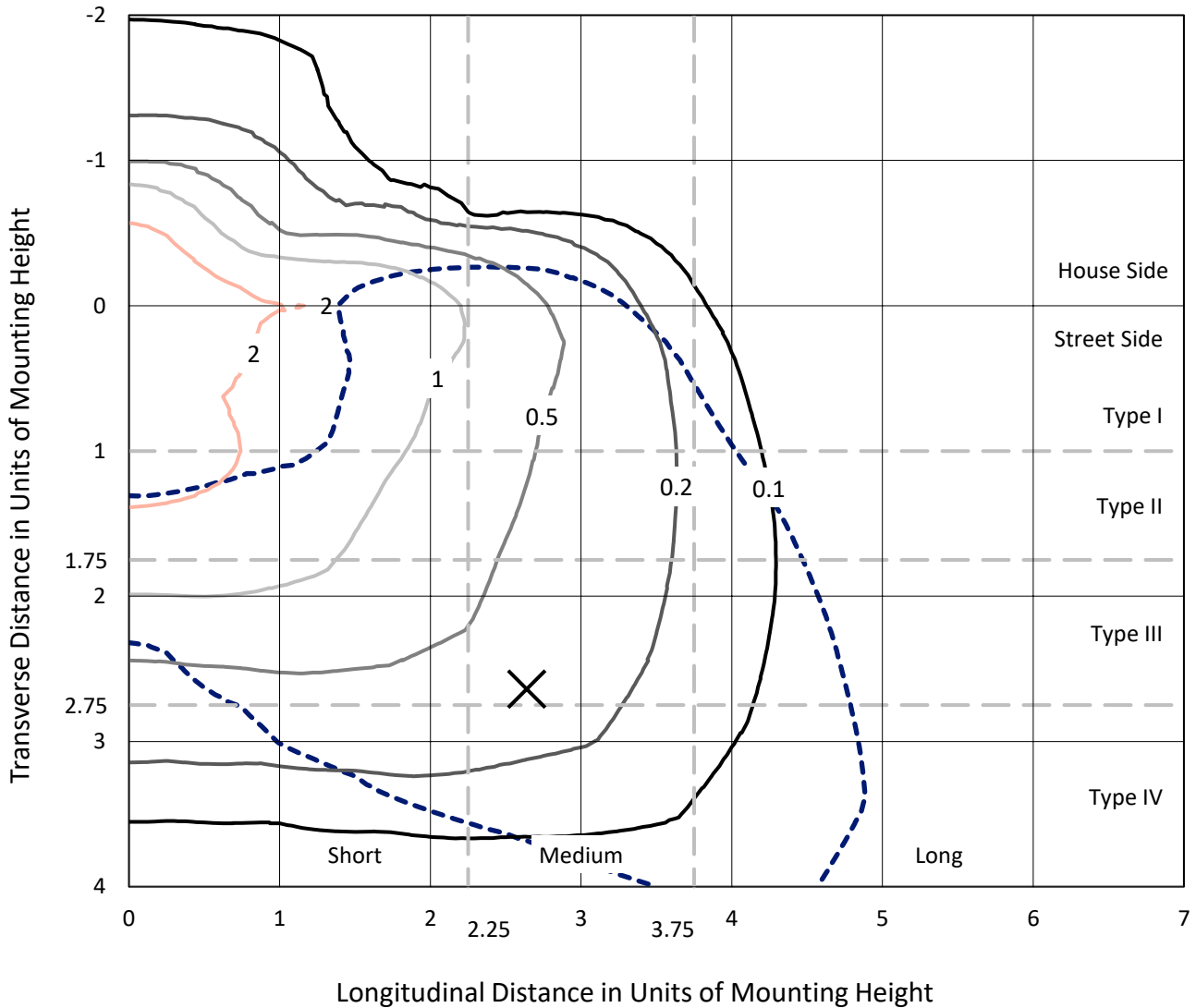
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

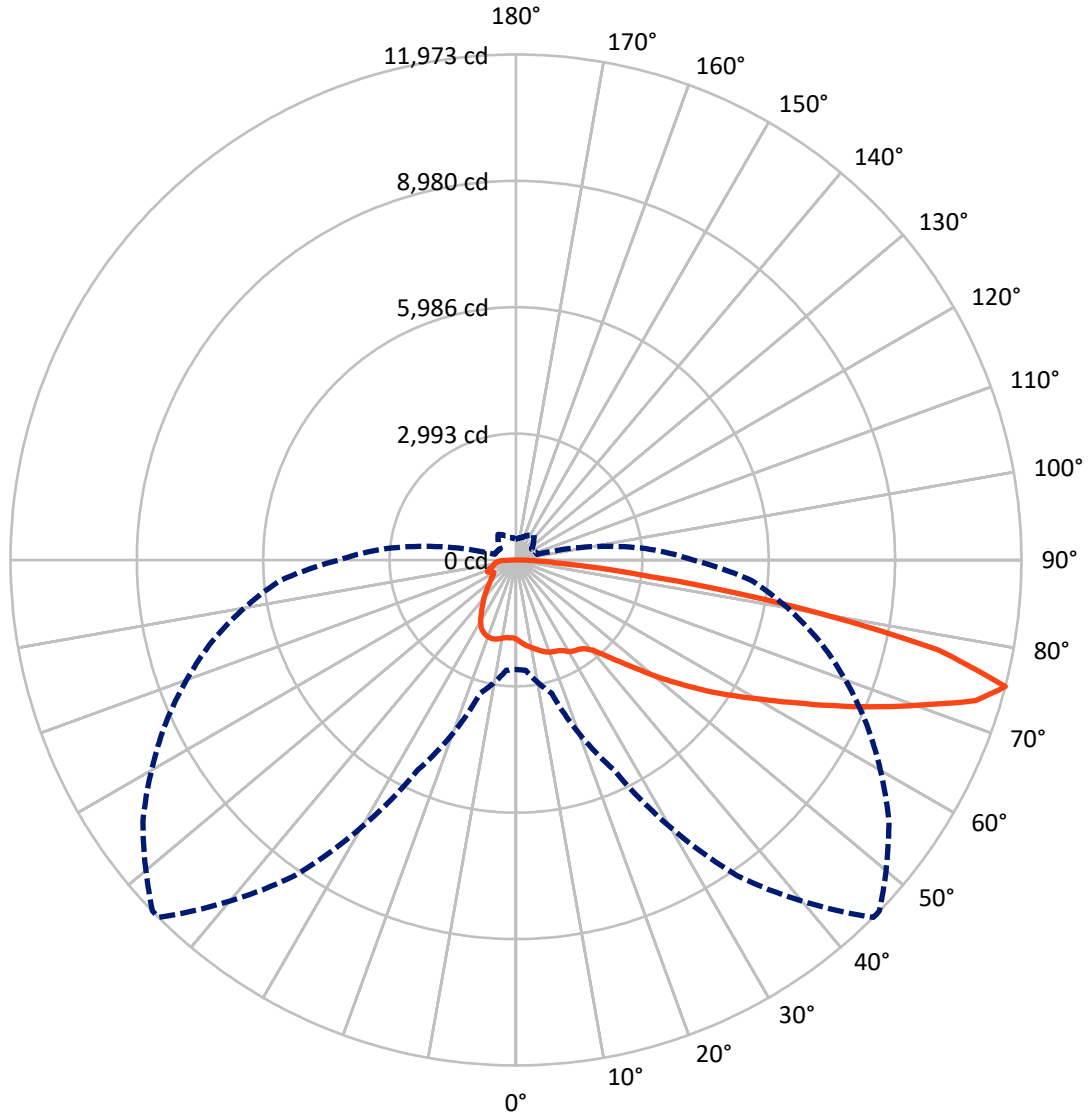
× Max cd
 - - - 1/2 Max cd



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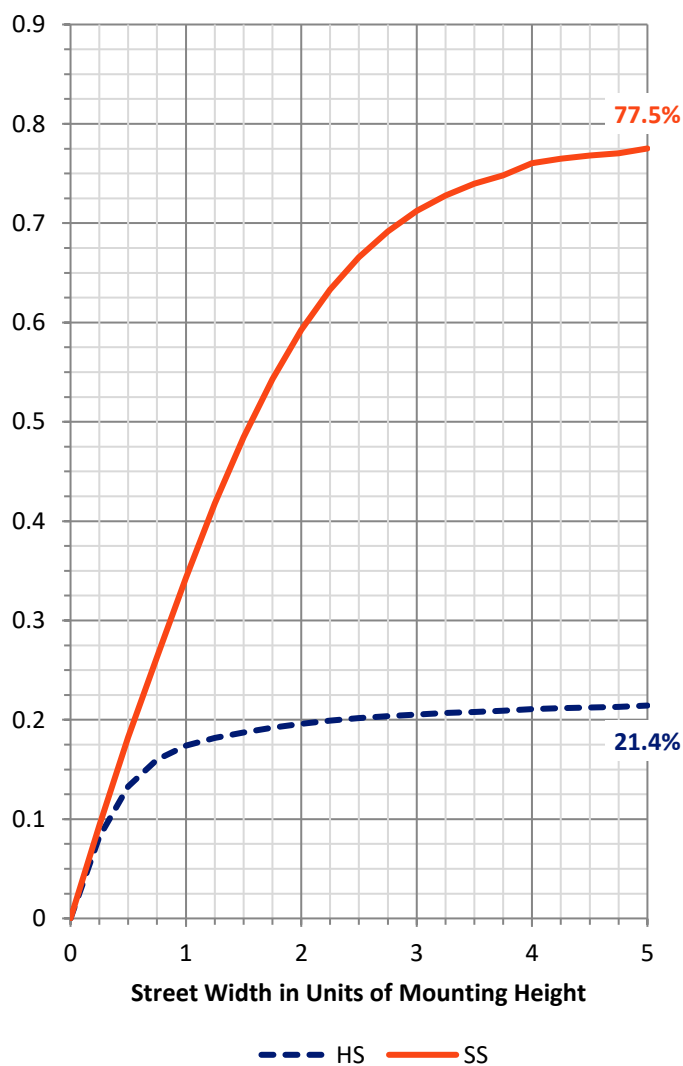
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3950.3	0.0	3950.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	13924.7	0.0	13924.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	17875.0	0.0	17875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	1.0
10°-20°	590.8	3.3
20°-30°	1007.3	5.6
30°-40°	1411.3	7.9
40°-50°	2073.4	11.6
50°-60°	3299.9	18.5
60°-70°	4694.1	26.3
70°-80°	3930.4	22.0
80°-90°	682.1	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°	17875.0	100.0
0°-180°	17875.0	100.0

Coefficient of Utilization

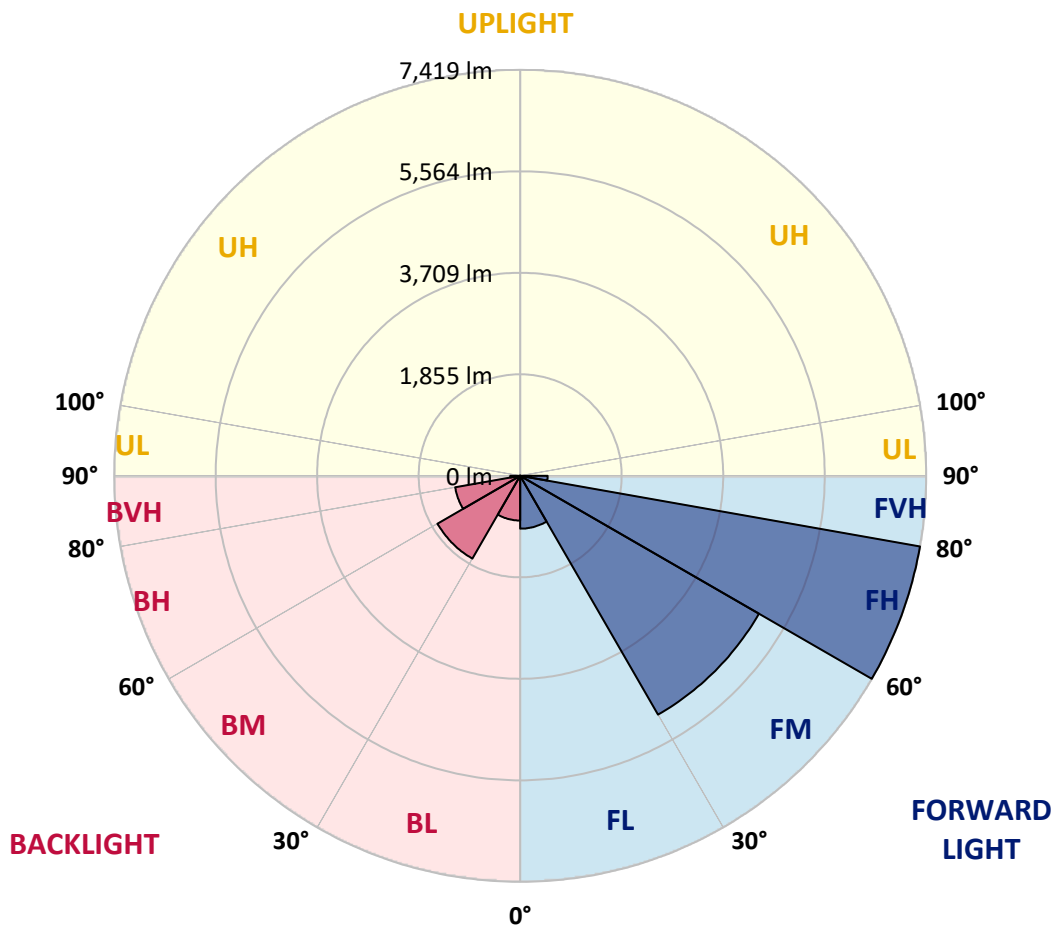


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	966.3	5.4			
FM (30°-60°)	5038.4	28.2			
FH (60°-80°)	7418.6	41.5			G3/7500
FVH (80°-90°)	501.5	2.8			G4/750
BL (0°-30°)	817.6	4.6	B2/1000		
BM (30°-60°)	1746.2	9.8	B2/2500		
BH (60°-80°)	1205.9	6.7	B3/2500		G3/2500
BVH (80°-90°)	180.6	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°	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3
2.5°	1984.7	1975.2	1970.4	1970.4	1951.3	1939.4	1937.0	1920.3	1905.9	1891.6	1879.7
5°	2099.4	2092.2	2077.9	2065.9	2039.7	2006.2	2001.5	1965.6	1929.8	1896.4	1867.7
7.5°	2204.5	2190.1	2173.4	2149.5	2106.6	2061.2	2054.0	2003.9	1953.7	1903.5	1865.3
10°	2292.8	2278.5	2254.6	2221.2	2166.3	2111.3	2104.2	2051.6	1999.1	1939.4	1884.4
12.5°	2376.4	2364.5	2328.7	2283.3	2218.8	2168.6	2161.5	2116.1	2061.2	1994.3	1922.6
15°	2448.1	2436.1	2397.9	2345.4	2271.3	2233.1	2223.6	2180.6	2125.7	2054.0	1980.0
17.5°	2483.9	2483.9	2443.3	2386.0	2316.7	2288.1	2280.9	2228.4	2178.2	2108.9	2034.9
20°	2495.9	2500.6	2472.0	2402.7	2343.0	2331.1	2323.9	2280.9	2223.6	2156.7	2087.4
22.5°	2503.0	2512.6	2488.7	2409.9	2359.7	2352.6	2347.8	2319.1	2273.7	2209.3	2140.0
25°	2526.9	2526.9	2510.2	2421.8	2381.2	2378.8	2378.8	2362.1	2331.1	2276.1	2206.9
27.5°	2562.7	2560.3	2538.8	2448.1	2429.0	2436.1	2433.8	2431.4	2409.9	2354.9	2280.9
30°	2622.4	2622.4	2598.6	2500.6	2488.7	2519.7	2522.1	2526.9	2493.5	2407.5	2347.8
32.5°	2713.2	2703.6	2679.8	2553.2	2534.1	2562.7	2567.5	2565.1	2536.5	2455.3	2426.6
35°	2992.6	2971.1	2885.2	2670.2	2574.7	2591.4	2593.8	2605.7	2610.5	2546.0	2531.7
37.5°	3482.3	3453.6	3322.2	2947.3	2703.6	2663.0	2660.7	2691.7	2718.0	2660.7	2660.7
40°	4014.9	3991.0	3914.6	3424.9	2942.5	2808.7	2799.2	2827.8	2861.3	2820.7	2832.6
42.5°	4473.4	4492.5	4499.7	3931.3	3300.7	3081.0	3054.7	3014.1	3066.7	3030.9	3078.6
45°	4817.4	4807.8	4939.2	4449.6	3764.1	3422.5	3386.7	3276.9	3343.7	3341.3	3446.4
47.5°	5182.8	5166.1	5221.0	4936.8	4291.9	3840.5	3785.6	3623.2	3723.5	3792.7	3967.1
50°	5529.1	5533.9	5553.0	5321.3	4865.1	4349.2	4280.0	4062.6	4205.9	4351.6	4597.6
52.5°	5980.5	5947.1	5923.2	5770.3	5507.6	4879.5	4834.1	4585.7	4786.3	4958.3	5285.5
55°	6374.6	6353.1	6338.8	6331.6	6045.0	5464.6	5416.8	5158.9	5447.9	5569.7	6052.2
57.5°	6794.9	6783.0	6859.4	6981.2	6866.6	6059.3	6009.2	5760.8	6083.2	6169.2	6883.3
60°	7103.0	7110.2	7320.4	7630.9	7552.1	6704.2	6644.5	6424.7	6701.8	6778.2	7714.5
62.5°	7105.4	7177.1	7664.3	8220.8	8311.6	7447.0	7377.7	7138.9	7337.1	7337.1	8459.6
65°	6427.1	6508.3	7602.2	8366.5	9080.6	8330.7	8263.8	7888.8	7962.9	7862.5	9159.4
67.5°	5751.2	5846.8	6876.1	8378.4	9620.4	9276.5	9197.6	8638.8	8512.2	8259.0	9649.1
70°	5302.2	5369.1	6228.9	8223.2	9945.2	10265.3	10205.5	9350.5	8944.5	8591.0	9546.4
72.5°	4463.9	4440.0	5261.6	7485.2	10126.7	11387.8	11337.6	10124.3	9319.5	8433.4	8142.0
75°	2591.4	2620.1	3264.9	5483.7	9128.4	11972.9	11968.2	10785.9	9154.7	7449.4	5610.3
77.5°	747.6	769.1	1072.4	2409.9	5772.7	10212.7	10539.9	9864.0	7738.3	5309.4	2909.0
80°	327.2	343.9	465.7	802.5	2486.3	6670.7	6957.3	6670.7	4666.9	2436.1	1141.6
82.5°	193.5	205.4	303.3	496.8	1191.8	3174.2	3561.1	3109.7	2013.4	1034.2	472.9
85°	109.9	114.6	174.4	315.3	750.0	1110.6	1246.7	1167.9	981.6	587.5	248.4
87.5°	50.2	52.5	86.0	148.1	420.4	375.0	389.3	515.9	568.4	358.3	124.2
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°	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3
2.5°	1874.9	1867.7	1853.4	1848.6	1841.4	1843.8	1846.2	1846.2	1848.6	1841.4	1841.4
5°	1855.8	1843.8	1829.5	1829.5	1829.5	1848.6	1865.3	1874.9	1879.7	1879.7	1874.9
7.5°	1848.6	1834.3	1817.6	1822.3	1827.1	1851.0	1882.0	1913.1	1922.6	1922.6	1917.9
10°	1862.9	1848.6	1836.7	1843.8	1855.8	1874.9	1898.8	1927.4	1951.3	1953.7	1951.3
12.5°	1896.4	1879.7	1867.7	1882.0	1896.4	1908.3	1920.3	1932.2	1963.2	1968.0	1968.0
15°	1951.3	1934.6	1920.3	1932.2	1937.0	1937.0	1937.0	1937.0	1968.0	1972.8	1972.8
17.5°	2006.2	1991.9	1977.6	1980.0	1965.6	1946.5	1939.4	1937.0	1953.7	1968.0	1970.4
20°	2058.8	2046.8	2032.5	2008.6	1972.8	1937.0	1925.0	1925.0	1934.6	1956.1	1956.1
22.5°	2116.1	2101.8	2077.9	2023.0	1963.2	1913.1	1901.1	1908.3	1920.3	1948.9	1946.5
25°	2180.6	2161.5	2120.9	2018.2	1932.2	1872.5	1874.9	1896.4	1917.9	1948.9	1948.9
27.5°	2252.2	2226.0	2144.8	1980.0	1862.9	1805.6	1827.1	1877.3	1908.3	1941.8	1946.5
30°	2331.1	2307.2	2163.9	1913.1	1750.7	1698.1	1750.7	1831.9	1879.7	1910.7	1917.9
32.5°	2426.6	2407.5	2180.6	1827.1	1605.0	1559.6	1636.0	1736.4	1812.8	1848.6	1855.8
35°	2546.0	2526.9	2202.1	1729.2	1468.9	1421.1	1490.3	1593.0	1693.4	1738.7	1753.1
37.5°	2701.3	2672.6	2221.2	1624.1	1354.2	1299.3	1332.7	1425.9	1516.6	1578.7	1595.4
40°	2899.5	2854.1	2237.9	1504.7	1253.9	1191.8	1203.7	1249.1	1301.7	1356.6	1378.1
42.5°	3178.9	3088.2	2240.3	1378.1	1151.2	1093.9	1089.1	1103.4	1103.4	1103.4	1110.6
45°	3568.2	3396.3	2245.1	1258.7	1046.1	986.4	972.1	967.3	931.5	862.2	857.4
47.5°	4060.2	3799.9	2266.6	1158.4	936.2	883.7	864.6	845.5	778.6	707.0	692.6
50°	4690.8	4268.0	2309.6	1062.8	843.1	807.3	783.4	738.0	664.0	609.0	594.7
52.5°	5416.8	4824.5	2350.2	962.5	773.8	750.0	721.3	666.4	587.5	554.1	549.3
55°	6250.4	5445.5	2431.4	874.1	714.1	697.4	671.1	618.6	558.9	535.0	532.6
57.5°	7103.0	6140.5	2546.0	795.3	656.8	647.3	647.3	601.9	563.7	554.1	554.1
60°	7924.6	6737.6	2457.6	721.3	604.3	609.0	654.4	642.5	613.8	625.8	632.9
62.5°	8562.3	7088.7	1994.3	661.6	566.0	609.0	726.1	726.1	692.6	687.9	687.9
65°	8834.6	7083.9	1402.0	616.2	551.7	668.7	809.7	771.4	683.1	649.6	642.5
67.5°	8765.4	6773.4	967.3	585.2	546.9	730.8	847.9	740.4	640.1	611.4	589.9
70°	8156.3	6116.6	745.2	556.5	539.8	704.6	835.9	704.6	606.6	580.4	561.3
72.5°	6580.0	4905.7	618.6	527.8	511.1	652.0	795.3	671.1	580.4	551.7	532.6
75°	4196.4	3085.8	523.1	489.6	456.2	585.2	740.4	637.7	551.7	513.5	499.2
77.5°	2018.2	1330.3	456.2	444.2	410.8	542.2	685.5	594.7	513.5	482.5	472.9
80°	816.8	609.0	396.5	398.9	377.4	515.9	647.3	554.1	475.3	441.9	425.1
82.5°	425.1	353.5	334.4	343.9	343.9	492.0	618.6	520.7	441.9	427.5	372.6
85°	229.3	219.7	257.9	277.1	298.5	444.2	575.6	484.8	403.6	346.3	334.4
87.5°	112.3	143.3	145.7	167.2	207.8	355.9	484.8	406.0	336.8	279.4	274.7
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)