

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: P399195

Luminaire Tested: **ARCH-L-PA3-110-727-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399195  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-110-727-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15247 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

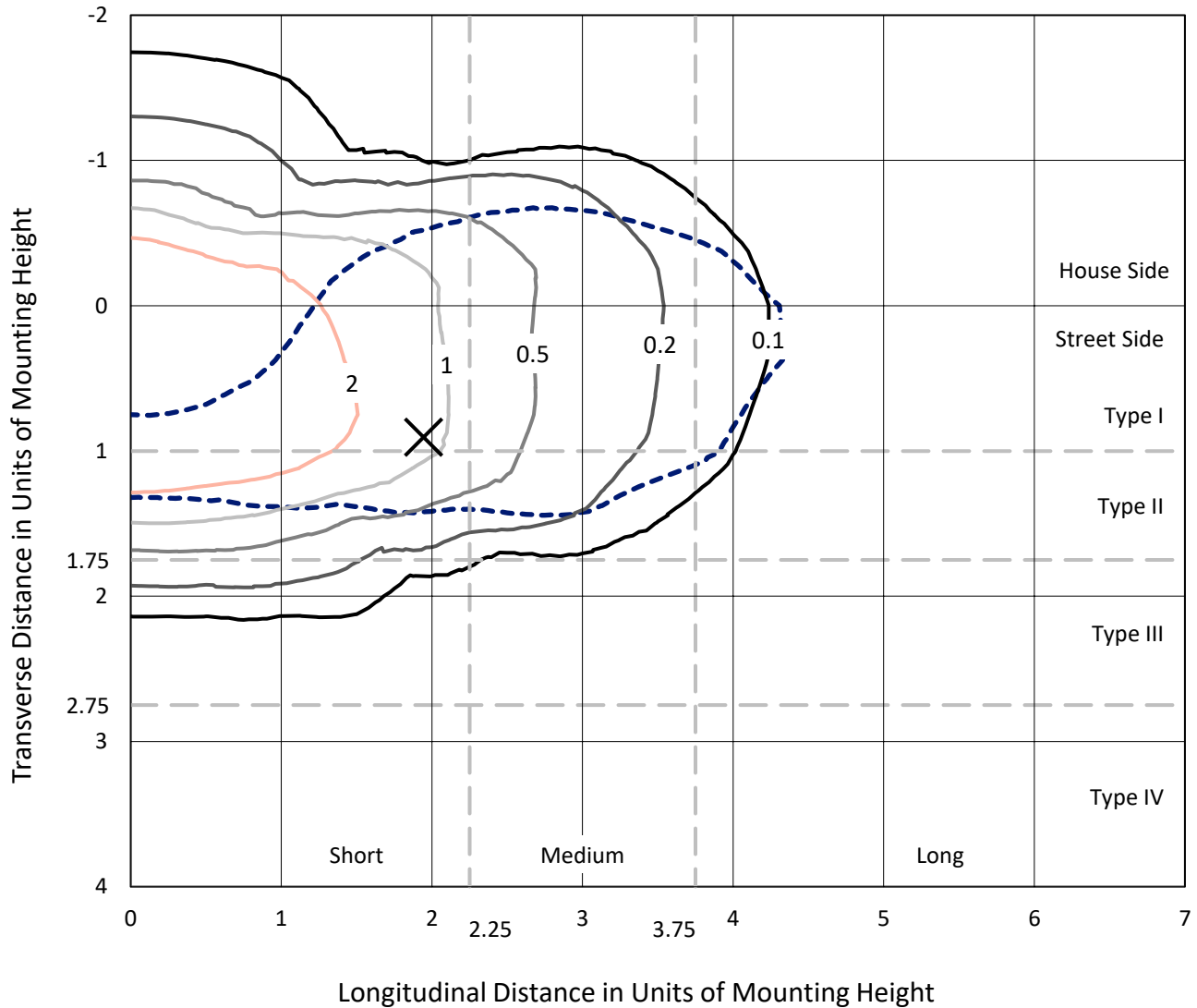
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

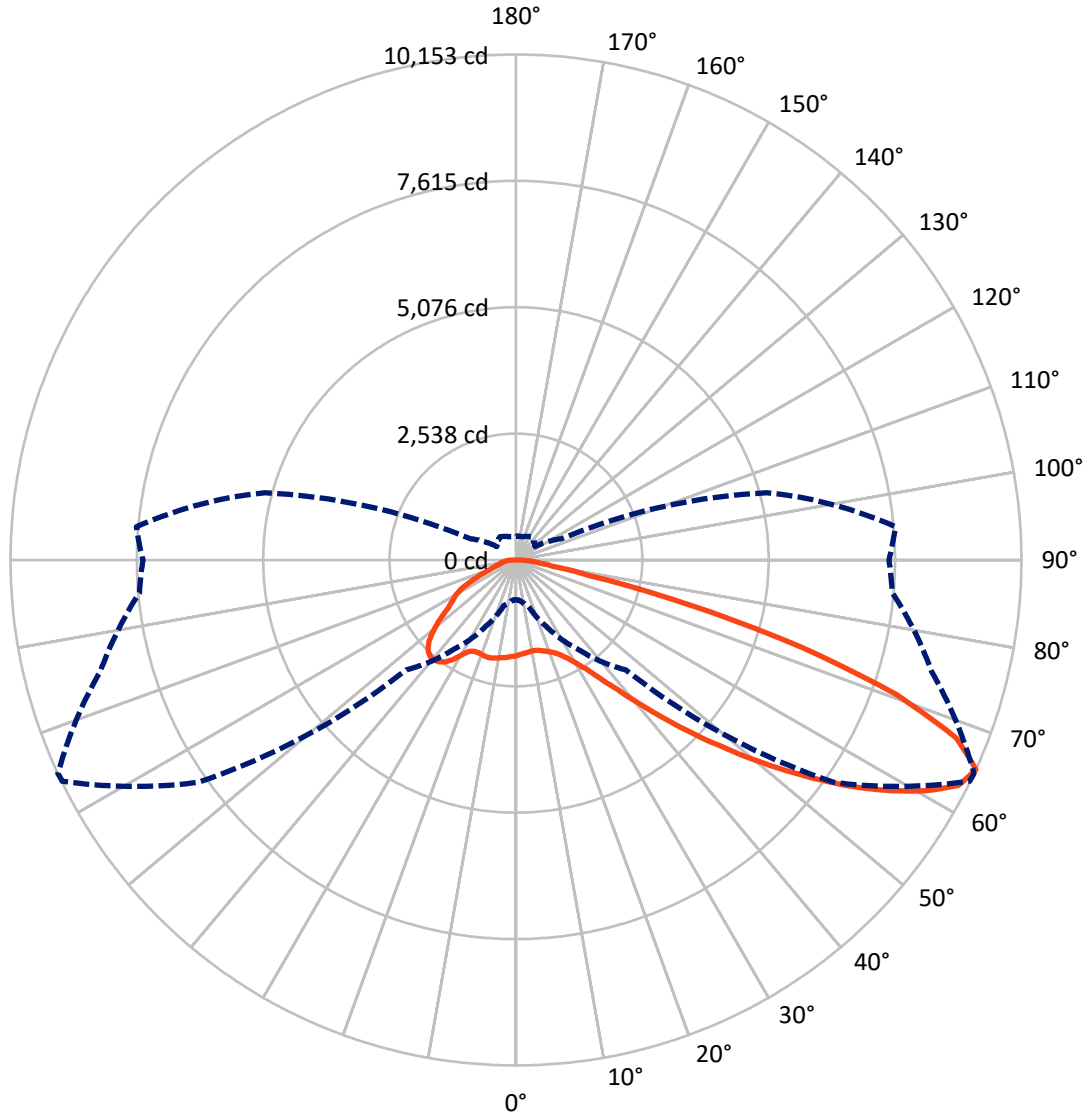
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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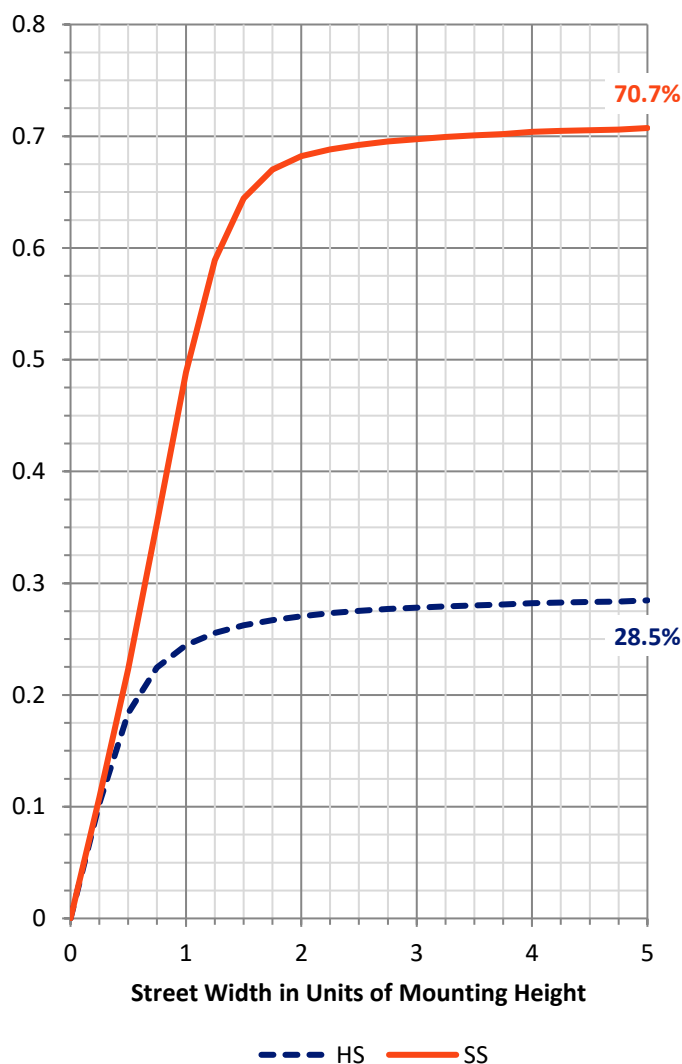
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4408.1	0.0	4408.1
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	10838.9	0.0	10838.9
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	15247.0	0.0	15247.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.5	1.2
10°-20°	548.0	3.6
20°-30°	973.4	6.4
30°-40°	1646.8	10.8
40°-50°	2866.7	18.8
50°-60°	3704.7	24.3
60°-70°	3241.8	21.3
70°-80°	1763.3	11.6
80°-90°	318.6	2.1
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°	15247.0	100.0
0°-180°	15247.0	100.0

**Coefficient of Utilization**



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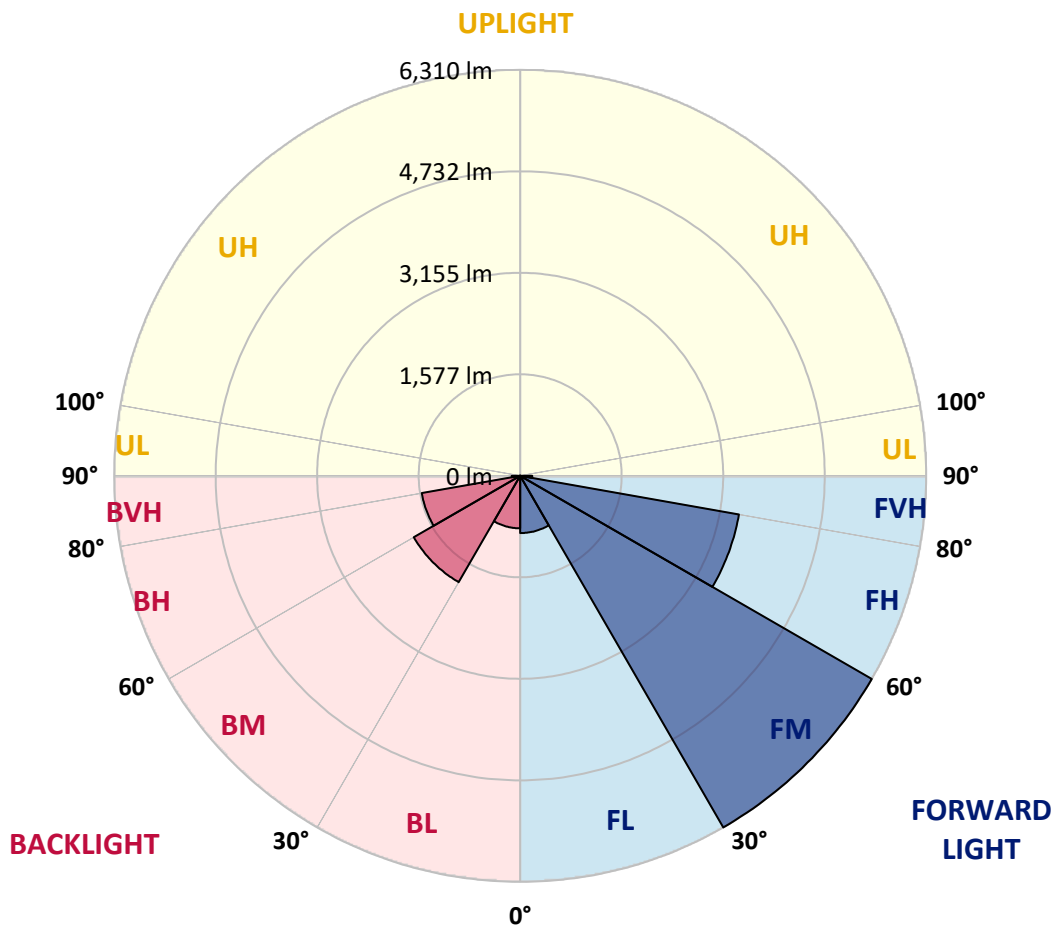
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	889.6	5.8			
FM (30°-60°)	6309.6	41.4			
FH (60°-80°)	3452.1	22.6			G2/5000
FVH (80°-90°)	187.5	1.2			G2/225
BL (0°-30°)	815.3	5.3	B2/1000		
BM (30°-60°)	1908.6	12.5	B2/2500		
BH (60°-80°)	1553.0	10.2	B3/2500		G3/2500
BVH (80°-90°)	131.1	0.9			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6
2.5°	1892.5	1890.5	1886.5	1890.5	1892.5	1896.5	1894.5	1898.5	1896.5	1902.5	1912.6
5°	1844.3	1840.3	1838.3	1848.3	1854.4	1864.4	1868.4	1882.5	1880.4	1890.5	1906.5
7.5°	1790.1	1790.1	1788.1	1800.2	1808.2	1826.3	1840.3	1864.4	1866.4	1884.5	1902.5
10°	1748.0	1750.0	1748.0	1758.0	1770.1	1792.1	1816.2	1850.3	1852.4	1878.4	1896.5
12.5°	1731.9	1731.9	1731.9	1746.0	1762.0	1792.1	1820.2	1856.4	1860.4	1888.5	1904.5
15°	1754.0	1756.0	1752.0	1766.1	1784.1	1820.2	1846.3	1884.5	1888.5	1914.6	1924.6
17.5°	1832.3	1840.3	1830.3	1838.3	1834.3	1862.4	1886.5	1924.6	1926.6	1948.7	1952.7
20°	1986.8	1994.8	1978.8	1968.7	1932.6	1930.6	1940.7	1970.8	1970.8	1984.8	1974.8
22.5°	2225.6	2233.7	2205.6	2167.4	2081.1	2039.0	2016.9	2031.0	2029.0	2035.0	2008.9
25°	2542.7	2540.7	2506.6	2436.4	2297.9	2195.5	2141.3	2119.3	2119.3	2107.2	2075.1
27.5°	2936.1	2906.0	2845.8	2761.5	2568.8	2426.3	2309.9	2253.7	2243.7	2207.6	2147.4
30°	3355.5	3333.4	3247.1	3124.7	2901.9	2719.3	2526.7	2414.3	2408.3	2330.0	2239.7
32.5°	3849.2	3813.1	3716.7	3570.2	3303.3	3046.4	2805.6	2635.0	2625.0	2500.6	2376.1
35°	4483.4	4453.3	4266.6	4120.1	3776.9	3439.8	3154.8	2928.0	2920.0	2767.5	2608.9
37.5°	5244.0	5165.7	4985.1	4710.1	4348.9	3949.5	3588.3	3303.3	3293.3	3124.7	2924.0
40°	5922.3	5852.1	5691.5	5438.6	5051.3	4607.8	4118.1	3772.9	3762.9	3558.2	3305.3
42.5°	6424.0	6375.9	6271.5	6125.0	5848.0	5579.1	4794.4	4340.9	4322.8	4057.9	3742.8
45°	6715.0	6676.9	6616.7	6652.8	6648.8	6598.6	5601.2	5017.2	4959.0	4615.8	4230.5
47.5°	6644.8	6610.7	6634.7	6915.7	7303.0	7594.0	6540.4	5709.6	5631.3	5183.8	4750.3
50°	6137.0	6151.1	6277.5	6815.4	7684.3	8330.6	7582.0	6498.3	6393.9	5755.7	5244.0
52.5°	5211.9	5246.0	5553.0	6305.6	7642.2	8808.2	8523.2	7313.1	7174.6	6313.6	5693.5
55°	4140.2	4226.5	4623.9	5414.6	7092.3	8842.3	9233.7	8131.9	7979.4	6837.4	6084.9
57.5°	3062.5	3190.9	3650.5	4377.0	6038.7	8302.5	9588.9	8914.6	8729.9	7357.2	6498.3
60°	1942.7	2020.9	2550.7	3407.7	4621.8	6981.9	9542.7	9580.8	9420.3	7875.0	6929.8
62.5°	1240.3	1278.4	1545.3	2430.3	3231.1	5169.7	9039.0	10084.6	9976.2	8346.6	7339.2
65°	796.7	812.8	949.3	1495.1	2199.5	3120.7	7784.7	10138.8	10152.8	8641.6	7592.0
67.5°	648.2	656.2	706.4	923.2	1555.3	1723.9	5422.6	9368.1	9538.7	8565.4	7505.7
70°	590.0	600.1	652.2	736.5	1204.1	1190.1	2625.0	7838.9	8117.8	8125.9	7122.4
72.5°	497.7	511.8	582.0	696.4	931.2	939.2	1111.8	5583.1	5994.6	7262.9	6546.4
75°	415.4	423.5	483.7	614.1	788.7	750.6	780.7	2960.1	3554.2	5824.0	5934.3
77.5°	337.2	345.2	389.3	489.7	700.4	584.0	614.1	1226.2	1515.2	3953.6	4850.6
80°	240.8	248.9	299.0	381.3	529.8	525.8	455.6	676.3	734.5	2137.3	3150.8
82.5°	172.6	178.6	226.8	272.9	367.3	527.8	343.2	459.6	481.7	947.2	1270.4
85°	116.4	116.4	156.5	180.6	236.8	333.1	276.9	311.1	325.1	449.5	343.2
87.5°	50.2	50.2	84.3	92.3	124.4	154.5	206.7	156.5	160.6	242.8	140.5
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°	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6
2.5°	1918.6	1920.6	1924.6	1936.6	1944.7	1956.7	1962.7	1970.8	1970.8	1966.7	1968.7
5°	1914.6	1920.6	1934.6	1956.7	1970.8	1992.8	2008.9	2020.9	2024.9	2020.9	2022.9
7.5°	1912.6	1922.6	1946.7	1978.8	1998.9	2026.9	2049.0	2063.1	2073.1	2069.1	2071.1
10°	1906.5	1922.6	1952.7	1992.8	2022.9	2051.0	2071.1	2077.1	2083.1	2079.1	2077.1
12.5°	1914.6	1932.6	1964.7	2012.9	2047.0	2069.1	2075.1	2065.1	2051.0	2043.0	2041.0
15°	1930.6	1948.7	1980.8	2031.0	2061.1	2069.1	2055.0	2022.9	1990.8	1972.8	1970.8
17.5°	1952.7	1964.7	1990.8	2035.0	2059.1	2049.0	2020.9	1982.8	1958.7	1944.7	1946.7
20°	1966.7	1966.7	1986.8	2020.9	2041.0	2033.0	1998.9	1956.7	1918.6	1900.5	1894.5
22.5°	1986.8	1976.8	1978.8	2008.9	2037.0	2024.9	1952.7	1878.4	1824.3	1804.2	1802.2
25°	2041.0	2012.9	1994.8	2012.9	2079.1	1980.8	1836.3	1750.0	1699.8	1681.8	1683.8
27.5°	2107.2	2069.1	2031.0	2061.1	2113.2	1880.4	1687.8	1589.4	1559.3	1545.3	1551.3
30°	2173.5	2123.3	2073.1	2181.5	2089.2	1723.9	1497.1	1400.8	1374.7	1364.7	1372.7
32.5°	2295.9	2213.6	2153.4	2342.0	2014.9	1545.3	1290.4	1202.1	1178.0	1166.0	1162.0
35°	2500.6	2396.2	2336.0	2482.5	1910.6	1346.6	1101.8	1039.6	1013.5	987.4	983.4
37.5°	2795.6	2669.2	2615.0	2562.8	1764.0	1149.9	957.3	915.1	877.0	836.9	834.9
40°	3148.8	2984.2	2944.1	2598.9	1561.4	965.3	856.9	816.8	768.6	730.5	732.5
42.5°	3556.2	3345.5	3259.2	2588.9	1310.5	867.0	784.7	740.5	698.4	664.3	662.3
45°	3991.7	3752.9	3554.2	2518.6	1061.6	798.7	740.5	688.4	646.2	608.1	604.1
47.5°	4473.3	4206.4	3827.1	2382.2	877.0	750.6	714.4	640.2	602.1	578.0	578.0
50°	4959.0	4639.9	4078.0	2175.5	768.6	714.4	676.3	614.1	584.0	563.9	563.9
52.5°	5374.4	5091.5	4284.7	1928.6	700.4	684.3	650.2	602.1	570.0	551.9	549.9
55°	5777.8	5510.9	4469.3	1683.8	644.2	644.2	644.2	592.0	555.9	539.9	537.8
57.5°	6179.2	5952.4	4662.0	1523.2	594.0	610.1	632.2	580.0	543.9	529.8	527.8
60°	6632.7	6482.2	4884.7	1410.8	549.9	574.0	616.1	565.9	523.8	511.8	509.7
62.5°	7114.4	7114.4	5087.4	1252.3	509.7	543.9	592.0	547.9	505.7	495.7	493.7
65°	7491.7	7654.2	5217.9	1015.5	469.6	513.8	563.9	523.8	481.7	479.6	475.6
67.5°	7535.8	7790.7	5135.6	766.6	433.5	481.7	535.8	497.7	457.6	457.6	451.5
70°	7218.7	7477.6	4878.7	574.0	407.4	449.5	499.7	465.6	427.5	431.5	421.4
72.5°	6688.9	6753.2	4240.5	453.6	377.3	415.4	455.6	429.5	395.4	395.4	381.3
75°	5990.5	5633.3	3080.6	379.3	341.2	375.3	411.4	389.3	359.2	349.2	341.2
77.5°	4768.3	4082.0	1790.1	327.1	311.1	337.2	361.2	345.2	319.1	297.0	297.0
80°	2906.0	2392.2	790.7	283.0	274.9	295.0	311.1	293.0	270.9	248.9	242.8
82.5°	1105.8	923.2	383.3	242.8	240.8	252.9	264.9	246.8	230.8	220.8	190.7
85°	303.0	279.0	262.9	202.7	198.7	196.7	210.7	202.7	180.6	148.5	132.5
87.5°	114.4	130.4	142.5	124.4	132.5	122.4	140.5	128.4	114.4	74.3	66.2
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)