

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: P399384

Luminaire Tested: **ARCH-L-PA3-130-827-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399384  
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-PA3-130-827-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 2700K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15482 lumens  
Efficiency: N/A  
Efficacy: 116.4 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

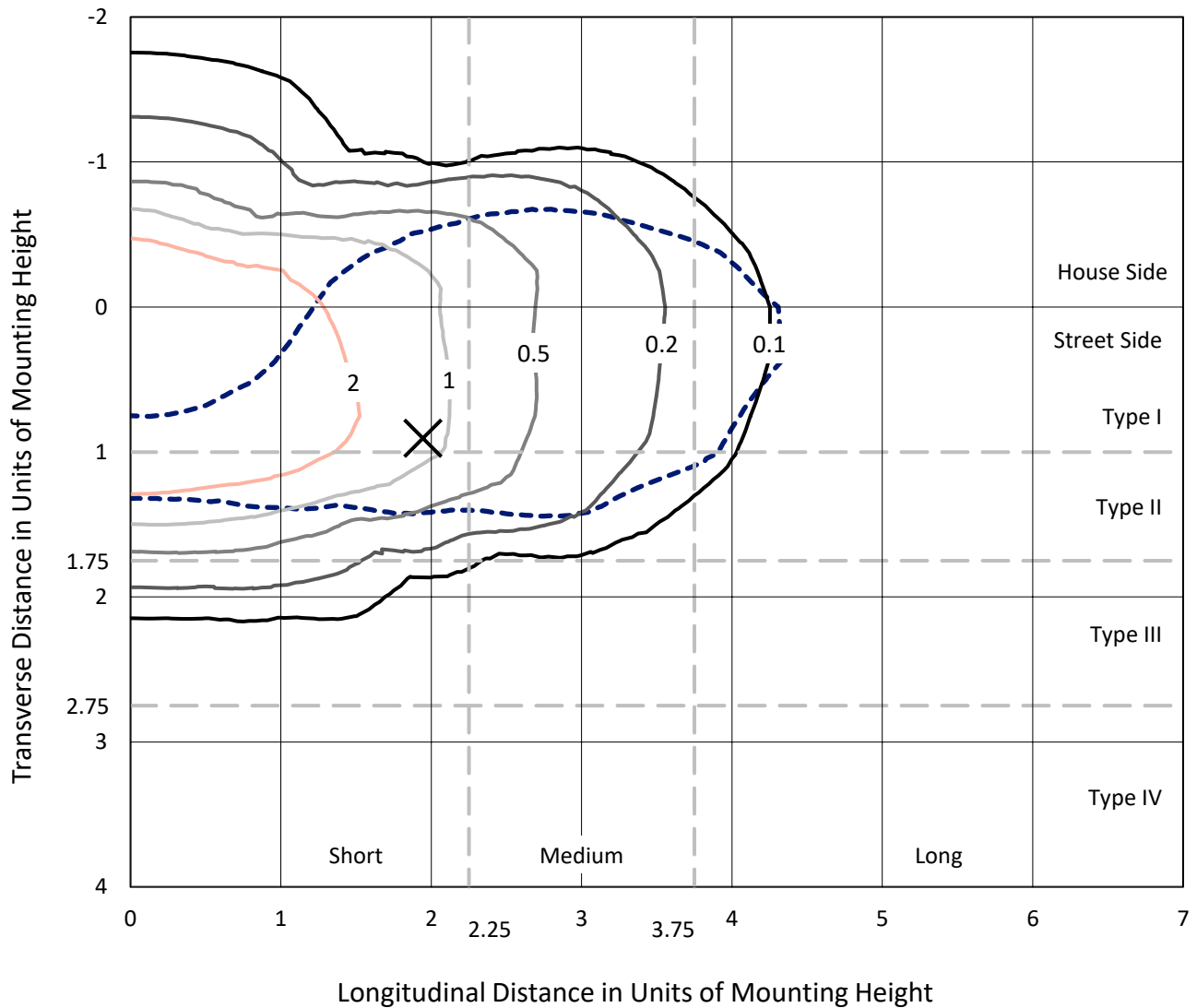
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

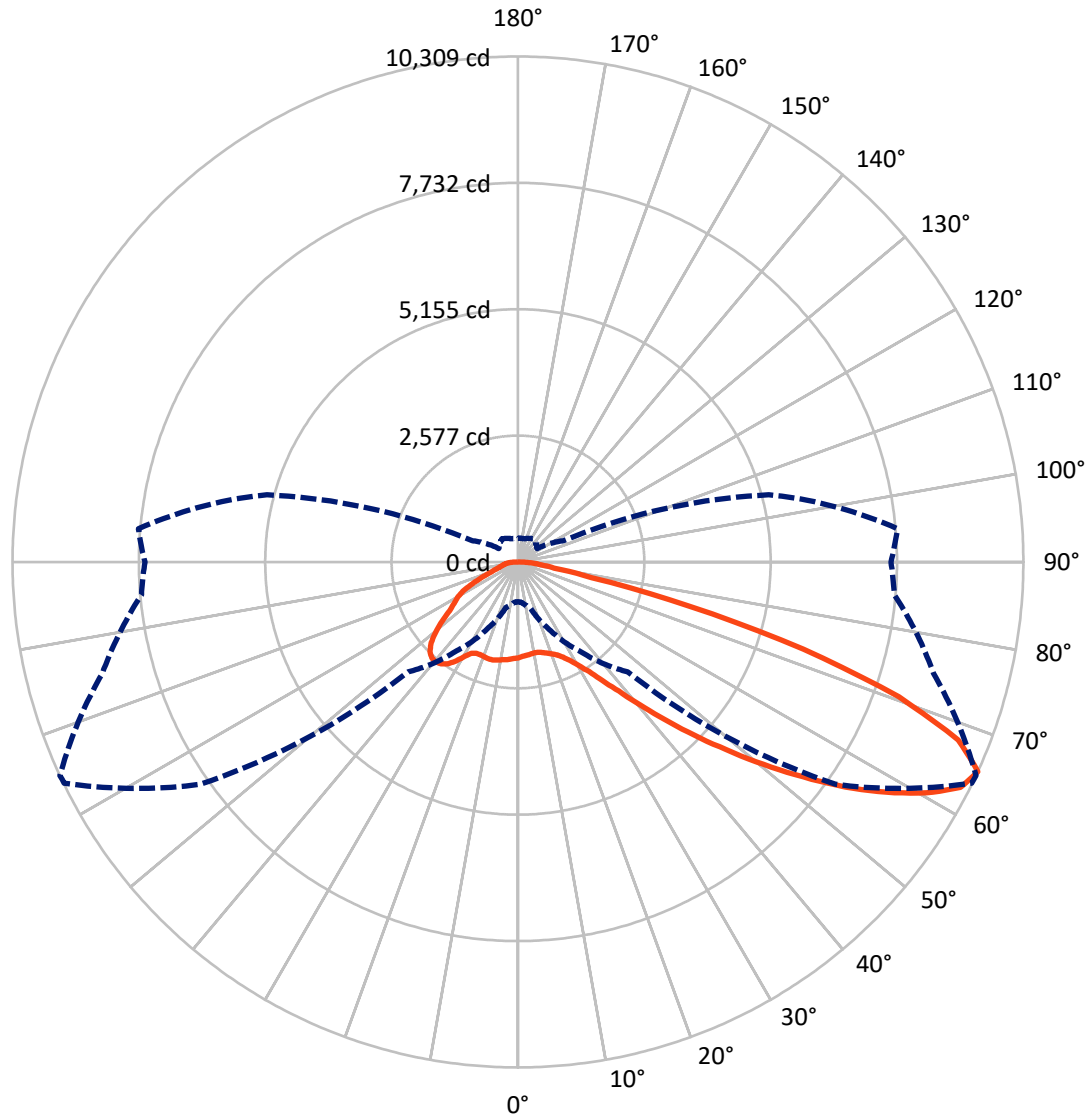
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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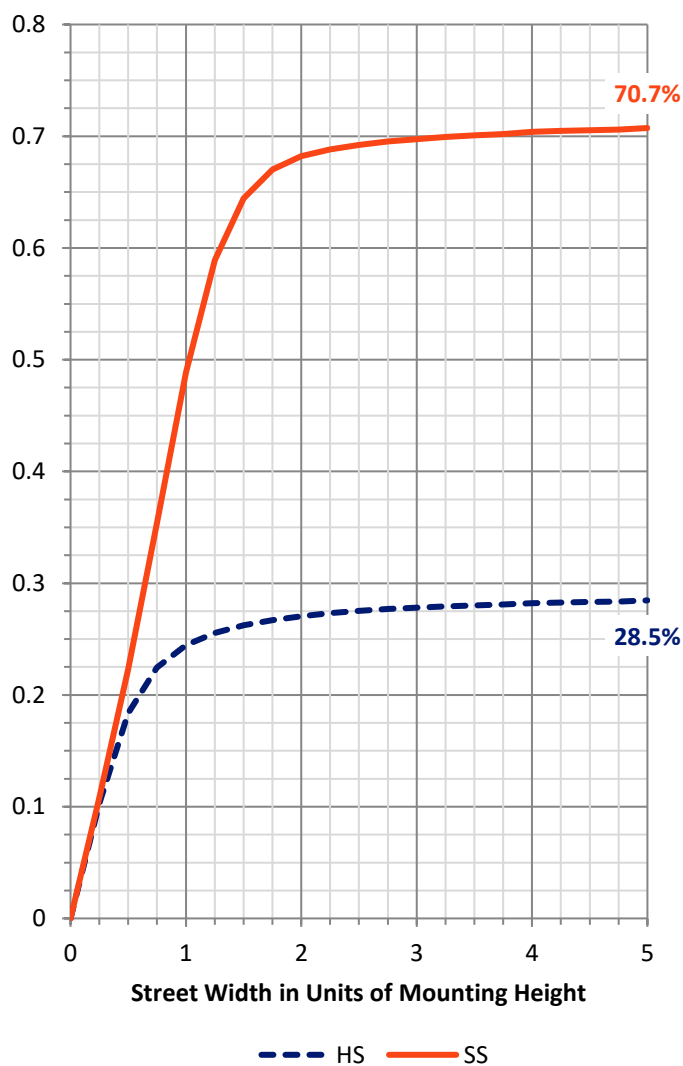
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4476.1	0.0	4476.1
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	11005.9	0.0	11005.9
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	15482.0	0.0	15482.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.4	1.2
10°-20°	556.5	3.6
20°-30°	988.4	6.4
30°-40°	1672.2	10.8
40°-50°	2910.9	18.8
50°-60°	3761.8	24.3
60°-70°	3291.8	21.3
70°-80°	1790.5	11.6
80°-90°	323.5	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°	15482.0	100.0
0°-180°	15482.0	100.0

**Coefficient of Utilization**



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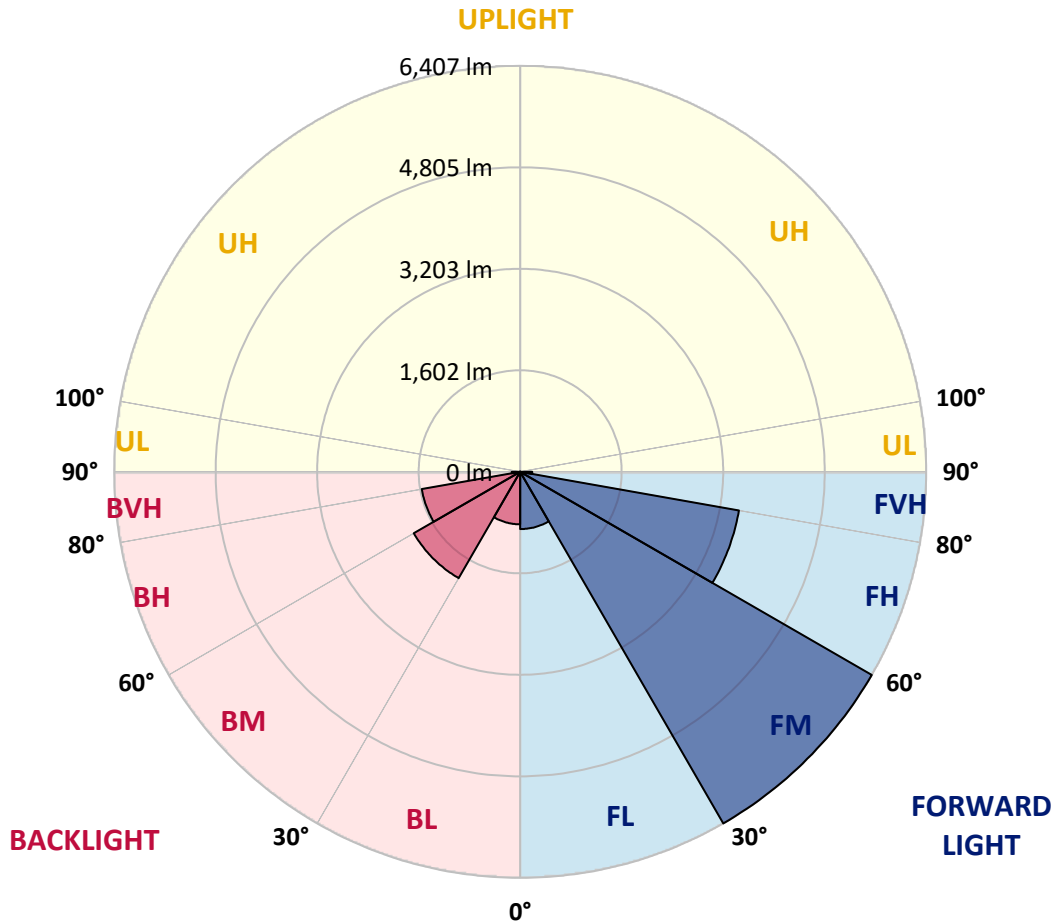
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	903.3	5.8			
FM (30°-60°)	6406.9	41.4			
FH (60°-80°)	3505.3	22.6			G2/5000
FVH (80°-90°)	190.4	1.2			G2/225
BL (0°-30°)	827.9	5.3	B2/1000		
BM (30°-60°)	1938.0	12.5	B2/2500		
BH (60°-80°)	1577.0	10.2	B3/2500		G3/2500
BVH (80°-90°)	133.1	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°	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3
2.5°	1921.7	1919.6	1915.5	1919.6	1921.7	1925.7	1923.7	1927.8	1925.7	1931.8	1942.0
5°	1872.7	1868.7	1866.6	1876.8	1882.9	1893.1	1897.2	1911.5	1909.4	1919.6	1935.9
7.5°	1817.7	1817.7	1815.7	1827.9	1836.1	1854.4	1868.7	1893.1	1895.2	1913.5	1931.8
10°	1774.9	1777.0	1774.9	1785.1	1797.4	1819.8	1844.2	1878.9	1880.9	1907.4	1925.7
12.5°	1758.6	1758.6	1758.6	1772.9	1789.2	1819.8	1848.3	1885.0	1889.1	1917.6	1933.9
15°	1781.0	1783.1	1779.0	1793.3	1811.6	1848.3	1874.8	1913.5	1917.6	1944.1	1954.3
17.5°	1860.5	1868.7	1858.5	1866.6	1862.6	1891.1	1915.5	1954.3	1956.3	1978.7	1982.8
20°	2017.4	2025.6	2009.3	1999.1	1962.4	1960.4	1970.6	2001.1	2001.1	2015.4	2005.2
22.5°	2259.9	2268.1	2239.6	2200.8	2113.2	2070.4	2048.0	2062.3	2060.2	2066.3	2039.9
25°	2581.9	2579.9	2545.2	2473.9	2333.3	2229.4	2174.3	2151.9	2151.9	2139.7	2107.1
27.5°	2981.3	2950.8	2889.6	2804.0	2608.4	2463.7	2345.5	2288.5	2278.3	2241.6	2180.5
30°	3407.2	3384.8	3297.2	3172.9	2946.7	2761.2	2565.6	2451.5	2445.4	2365.9	2274.2
32.5°	3908.5	3871.8	3774.0	3625.3	3354.2	3093.4	2848.9	2675.6	2665.5	2539.1	2412.8
35°	4552.5	4521.9	4332.4	4183.6	3835.2	3492.8	3203.4	2973.2	2965.0	2810.1	2649.2
37.5°	5324.8	5245.3	5061.9	4782.7	4415.9	4010.4	3643.6	3354.2	3344.1	3172.9	2969.1
40°	6013.6	5942.3	5779.2	5522.5	5129.2	4678.8	4181.6	3831.1	3820.9	3613.0	3356.3
42.5°	6523.0	6474.1	6368.2	6219.4	5938.2	5665.1	4868.3	4407.8	4389.4	4120.5	3800.5
45°	6818.5	6779.8	6718.7	6755.3	6751.3	6700.3	5687.5	5094.5	5035.4	4687.0	4295.7
47.5°	6747.2	6712.6	6737.0	7022.3	7415.6	7711.1	6641.2	5797.6	5718.1	5263.7	4823.5
50°	6231.6	6245.9	6374.3	6920.4	7802.8	8459.0	7698.9	6598.4	6492.5	5844.4	5324.8
52.5°	5292.2	5326.8	5638.6	6402.8	7760.0	8944.0	8654.6	7425.8	7285.2	6411.0	5781.3
55°	4204.0	4291.6	4695.1	5498.0	7201.6	8978.6	9376.0	8257.2	8102.3	6942.8	6178.6
57.5°	3109.7	3240.1	3706.8	4444.5	6131.8	8430.4	9736.7	9052.0	8864.5	7470.6	6598.4
60°	1972.6	2052.1	2590.1	3460.2	4693.1	7089.5	9689.8	9728.5	9565.5	7996.4	7036.6
62.5°	1259.4	1298.1	1569.1	2467.8	3280.9	5249.4	9178.3	10240.0	10130.0	8475.3	7452.3
65°	809.0	825.3	963.9	1518.2	2233.4	3168.8	7904.7	10295.0	10309.3	8774.8	7709.0
67.5°	658.2	666.4	717.3	937.4	1579.3	1750.5	5506.2	9512.5	9685.7	8697.4	7621.4
70°	599.1	609.3	662.3	747.9	1222.7	1208.4	2665.5	7959.7	8243.0	8251.1	7232.2
72.5°	505.4	519.6	591.0	707.1	945.5	953.7	1128.9	5669.2	6086.9	7374.8	6647.3
75°	421.8	430.0	491.1	623.6	800.9	762.1	792.7	3005.8	3609.0	5913.7	6025.8
77.5°	342.4	350.5	395.3	497.2	711.2	593.0	623.6	1245.1	1538.5	4014.5	4925.4
80°	244.5	252.7	303.6	387.2	538.0	533.9	462.6	686.7	745.8	2170.3	3199.4
82.5°	175.3	181.4	230.3	277.1	372.9	535.9	348.5	466.7	489.1	961.8	1289.9
85°	118.2	118.2	158.9	183.4	240.5	338.3	281.2	315.9	330.1	456.5	348.5
87.5°	50.9	50.9	85.6	93.7	126.3	156.9	209.9	158.9	163.0	246.6	142.6
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°	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3
2.5°	1948.1	1950.2	1954.3	1966.5	1974.6	1986.9	1993.0	2001.1	2001.1	1997.1	1999.1
5°	1944.1	1950.2	1964.5	1986.9	2001.1	2023.5	2039.9	2052.1	2056.2	2052.1	2054.1
7.5°	1942.0	1952.2	1976.7	2009.3	2029.7	2058.2	2080.6	2094.9	2105.1	2101.0	2103.0
10°	1935.9	1952.2	1982.8	2023.5	2054.1	2082.6	2103.0	2109.1	2115.2	2111.2	2109.1
12.5°	1944.1	1962.4	1995.0	2043.9	2078.6	2101.0	2107.1	2096.9	2082.6	2074.5	2072.5
15°	1960.4	1978.7	2011.3	2062.3	2092.8	2101.0	2086.7	2054.1	2021.5	2003.2	2001.1
17.5°	1982.8	1995.0	2021.5	2066.3	2090.8	2080.6	2052.1	2013.4	1988.9	1974.6	1976.7
20°	1997.1	1997.1	2017.4	2052.1	2072.5	2064.3	2029.7	1986.9	1948.1	1929.8	1923.7
22.5°	2017.4	2007.2	2009.3	2039.9	2068.4	2056.2	1982.8	1907.4	1852.4	1832.0	1830.0
25°	2072.5	2043.9	2025.6	2043.9	2111.2	2011.3	1864.6	1777.0	1726.0	1707.7	1709.7
27.5°	2139.7	2101.0	2062.3	2092.8	2145.8	1909.4	1713.8	1613.9	1583.4	1569.1	1575.2
30°	2207.0	2156.0	2105.1	2215.1	2121.4	1750.5	1520.2	1422.4	1395.9	1385.7	1393.9
32.5°	2331.3	2247.7	2186.6	2378.1	2046.0	1569.1	1310.3	1220.6	1196.2	1184.0	1179.9
35°	2539.1	2433.1	2372.0	2520.8	1940.0	1367.4	1118.8	1055.6	1029.1	1002.6	998.5
37.5°	2838.7	2710.3	2655.3	2602.3	1791.2	1167.7	972.0	929.2	890.5	849.8	847.7
40°	3197.3	3030.2	2989.5	2639.0	1585.4	980.2	870.1	829.4	780.5	741.8	743.8
42.5°	3611.0	3397.0	3309.4	2628.8	1330.7	880.3	796.8	752.0	709.2	674.5	672.5
45°	4053.2	3810.7	3609.0	2557.5	1078.0	811.0	752.0	699.0	656.2	617.5	613.4
47.5°	4542.3	4271.3	3886.1	2418.9	890.5	762.1	725.5	650.1	611.3	586.9	586.9
50°	5035.4	4711.4	4140.8	2209.0	780.5	725.5	686.7	623.6	593.0	572.6	572.6
52.5°	5457.3	5169.9	4350.7	1958.3	711.2	694.9	660.3	611.3	578.7	560.4	558.4
55°	5866.9	5595.8	4538.2	1709.7	654.1	654.1	654.1	601.2	564.5	548.2	546.1
57.5°	6274.4	6044.2	4733.8	1546.7	603.2	619.5	641.9	588.9	552.2	538.0	535.9
60°	6735.0	6582.1	4960.0	1432.6	558.4	582.8	625.6	574.7	531.9	519.6	517.6
62.5°	7224.0	7224.0	5165.9	1271.6	517.6	552.2	601.2	556.3	513.5	503.3	501.3
65°	7607.2	7772.2	5298.3	1031.1	476.8	521.7	572.6	531.9	489.1	487.0	483.0
67.5°	7652.0	7910.8	5214.8	778.4	440.2	489.1	544.1	505.4	464.6	464.6	458.5
70°	7330.0	7592.9	4953.9	582.8	413.7	456.5	507.4	472.8	434.1	438.1	427.9
72.5°	6792.0	6857.2	4305.9	460.5	383.1	421.8	462.6	436.1	401.4	401.4	387.2
75°	6082.9	5720.1	3128.0	385.1	346.4	381.1	417.8	395.3	364.8	354.6	346.4
77.5°	4841.8	4144.9	1817.7	332.2	315.9	342.4	366.8	350.5	324.0	301.6	301.6
80°	2950.8	2429.1	802.9	287.3	279.2	299.6	315.9	297.5	275.1	252.7	246.6
82.5°	1122.8	937.4	389.2	246.6	244.5	256.8	269.0	250.7	234.3	224.2	193.6
85°	307.7	283.3	267.0	205.8	201.7	199.7	214.0	205.8	183.4	150.8	134.5
87.5°	116.2	132.5	144.7	126.3	134.5	124.3	142.6	130.4	116.2	75.4	67.2
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)