

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: P400509

Luminaire Tested: **ARCH-L-PA3-90-740-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400509
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-PA3-90-740-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15490 lumens
Efficiency: N/A
Efficacy: 166.6 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

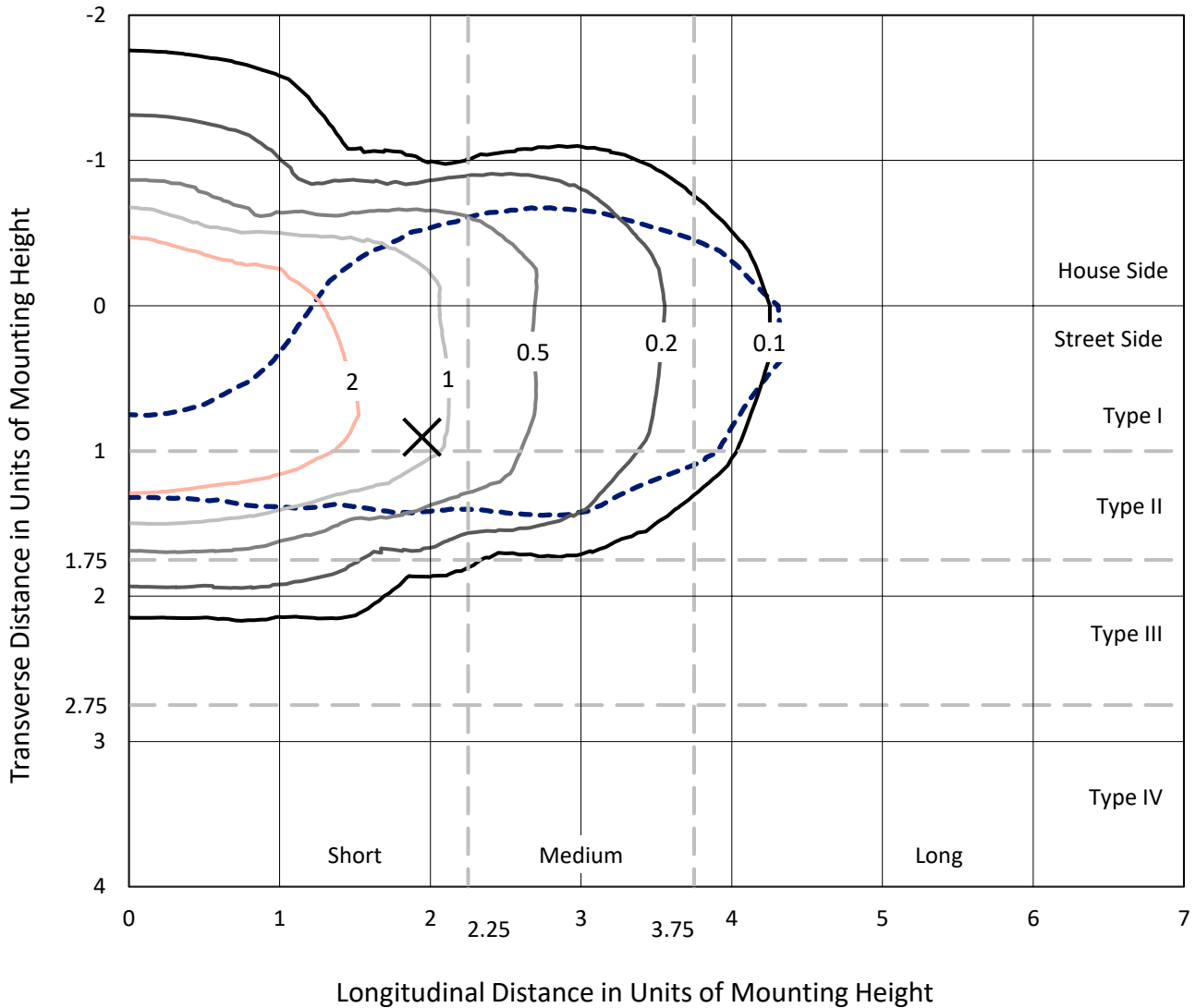
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

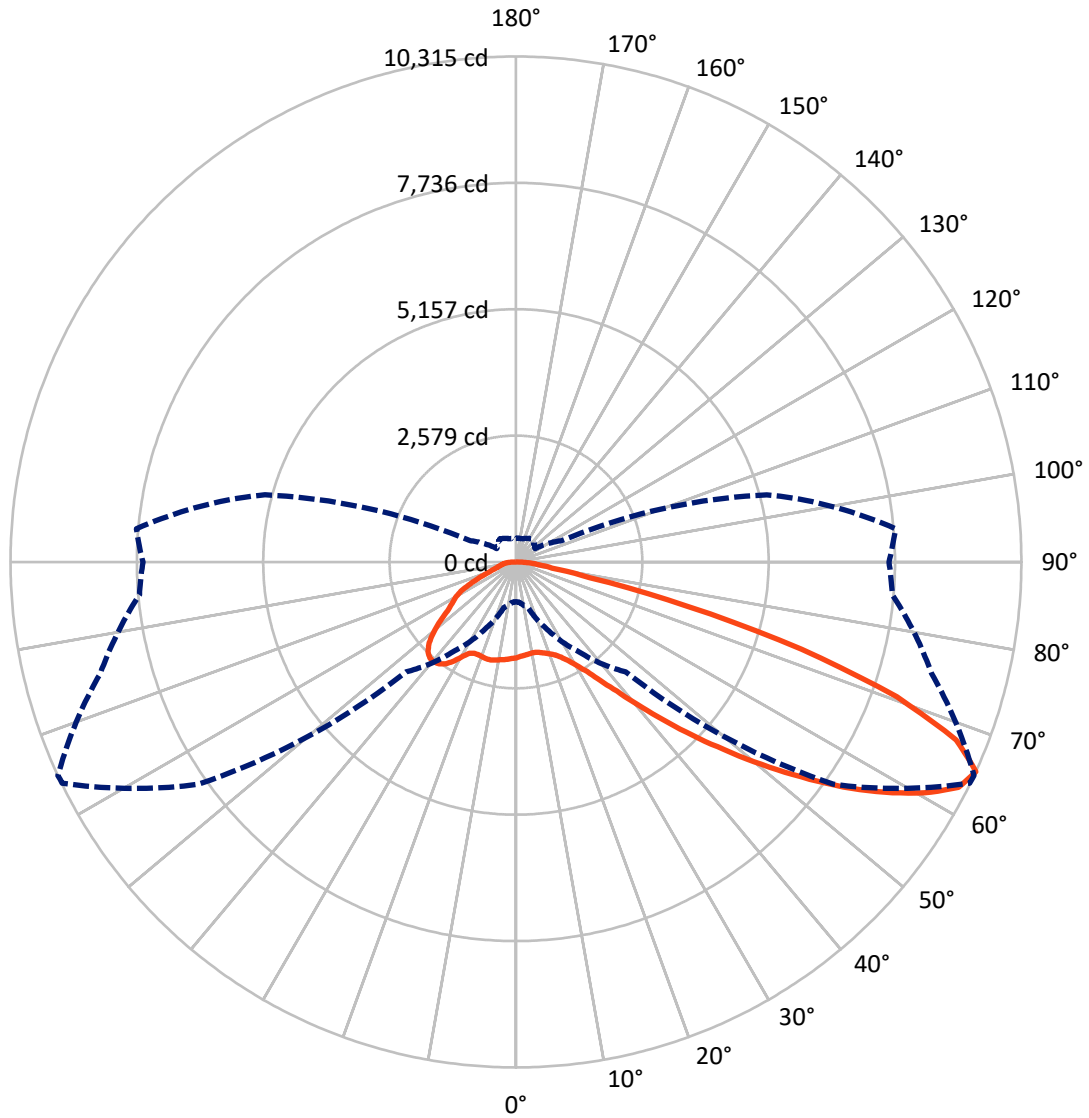
✕ Max cd
 - - - 1/2 Max cd



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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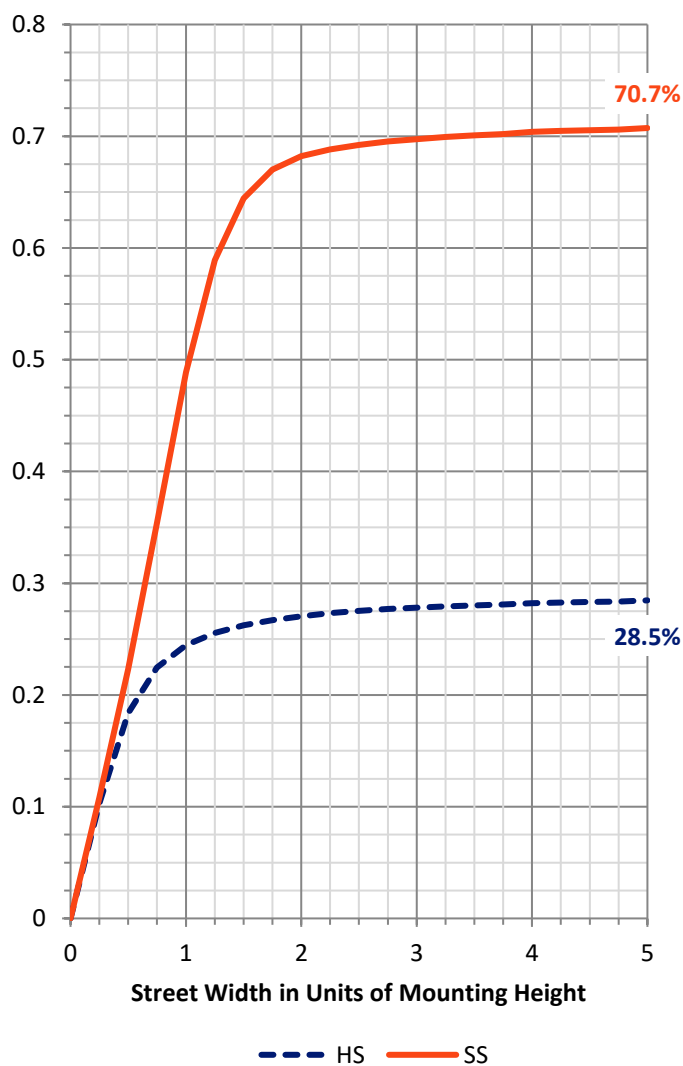
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4478.4	0.0	4478.4
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	11011.6	0.0	11011.6
	% Fixture	71.1	0.0	71.1
Total	Lumens	15490.0	0.0	15490.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	1.2
10°-20°	556.7	3.6
20°-30°	988.9	6.4
30°-40°	1673.0	10.8
40°-50°	2912.4	18.8
50°-60°	3763.8	24.3
60°-70°	3293.5	21.3
70°-80°	1791.4	11.6
80°-90°	323.7	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°	15490.0	100.0
0°-180°	15490.0	100.0

Coefficient of Utilization



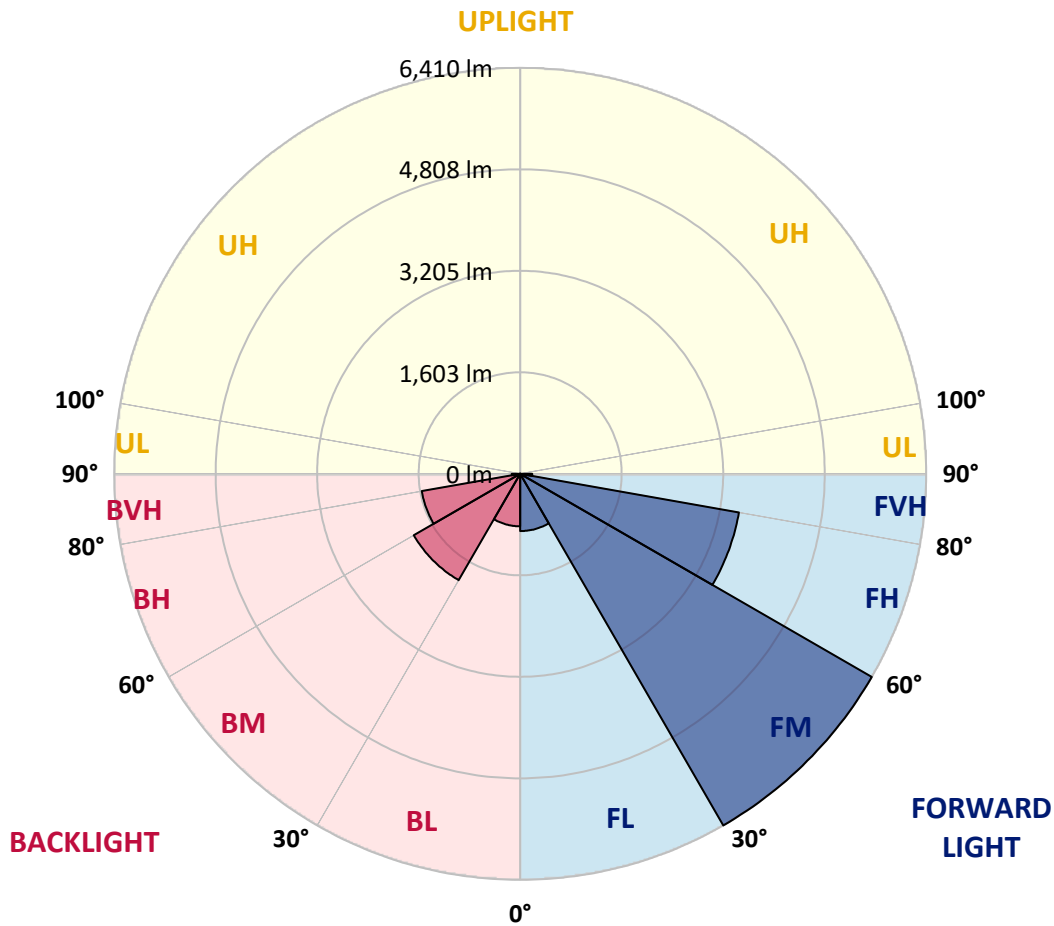
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	903.8	5.8			
FM (30°-60°)	6410.2	41.4			
FH (60°-80°)	3507.2	22.6			G2/5000
FVH (80°-90°)	190.5	1.2			G2/225
BL (0°-30°)	828.3	5.3	B2/1000		
BM (30°-60°)	1939.0	12.5	B2/2500		
BH (60°-80°)	1577.8	10.2	B3/2500		G3/2500
BVH (80°-90°)	133.2	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°	1957.3	1957.3	1957.3	1957.3	1957.3	1957.3	1957.3	1957.3	1957.3	1957.3	1957.3
2.5°	1922.7	1920.6	1916.5	1920.6	1922.7	1926.7	1924.7	1928.8	1926.7	1932.8	1943.0
5°	1873.7	1869.6	1867.6	1877.8	1883.9	1894.1	1898.2	1912.5	1910.4	1920.6	1936.9
7.5°	1818.7	1818.7	1816.6	1828.9	1837.0	1855.4	1869.6	1894.1	1896.1	1914.5	1932.8
10°	1775.9	1777.9	1775.9	1786.0	1798.3	1820.7	1845.2	1879.8	1881.9	1908.4	1926.7
12.5°	1759.5	1759.5	1759.5	1773.8	1790.1	1820.7	1849.3	1886.0	1890.0	1918.6	1934.9
15°	1782.0	1784.0	1779.9	1794.2	1812.6	1849.3	1875.8	1914.5	1918.6	1945.1	1955.3
17.5°	1861.5	1869.6	1859.4	1867.6	1863.5	1892.1	1916.5	1955.3	1957.3	1979.7	1983.8
20°	2018.5	2026.6	2010.3	2000.1	1963.4	1961.4	1971.6	2002.2	2002.2	2016.4	2006.2
22.5°	2261.1	2269.3	2240.7	2202.0	2114.3	2071.5	2049.1	2063.3	2061.3	2067.4	2040.9
25°	2583.2	2581.2	2546.5	2475.2	2334.5	2230.5	2175.5	2153.0	2153.0	2140.8	2108.2
27.5°	2982.9	2952.3	2891.1	2805.5	2609.7	2465.0	2346.7	2289.6	2279.5	2242.8	2181.6
30°	3409.0	3386.6	3298.9	3174.5	2948.2	2762.7	2566.9	2452.8	2446.6	2367.1	2275.4
32.5°	3910.5	3873.8	3776.0	3627.1	3356.0	3095.0	2850.3	2677.0	2666.8	2540.4	2414.0
35°	4554.8	4524.2	4334.6	4185.8	3837.1	3494.6	3205.1	2974.7	2966.5	2811.6	2650.5
37.5°	5327.6	5248.0	5064.5	4785.2	4418.2	4012.5	3645.5	3356.0	3345.8	3174.5	2970.6
40°	6016.7	5945.3	5782.2	5525.3	5131.8	4681.2	4183.8	3833.1	3822.9	3614.9	3358.0
42.5°	6526.4	6477.5	6371.5	6222.6	5941.3	5668.0	4870.8	4410.1	4391.7	4122.6	3802.5
45°	6822.0	6783.3	6722.1	6758.8	6754.8	6703.8	5690.5	5097.2	5038.0	4689.4	4297.9
47.5°	6750.7	6716.0	6740.5	7025.9	7419.4	7715.1	6644.7	5800.6	5721.1	5266.4	4826.0
50°	6234.9	6249.1	6377.6	6924.0	7806.8	8463.3	7702.8	6601.8	6495.8	5847.5	5327.6
52.5°	5294.9	5329.6	5641.5	6406.1	7764.0	8948.6	8659.1	7429.6	7288.9	6414.3	5784.3
55°	4206.2	4293.9	4697.5	5500.9	7205.4	8983.2	9380.8	8261.5	8106.5	6946.4	6181.8
57.5°	3111.3	3241.8	3708.7	4446.8	6134.9	8434.8	9741.7	9056.6	8869.1	7474.5	6601.8
60°	1973.6	2053.1	2591.4	3462.0	4695.5	7093.2	9694.8	9733.5	9570.4	8000.5	7040.2
62.5°	1260.0	1298.8	1569.9	2469.1	3282.6	5252.1	9183.0	10245.3	10135.2	8479.6	7456.1
65°	809.4	825.7	964.4	1519.0	2234.6	3170.4	7908.8	10300.3	10314.6	8779.4	7713.0
67.5°	658.6	666.7	717.7	937.9	1580.1	1751.4	5509.0	9517.4	9690.7	8701.9	7625.4
70°	599.4	609.6	662.6	748.3	1223.3	1209.0	2666.8	7963.8	8247.2	8255.4	7235.9
72.5°	505.6	519.9	591.3	707.5	946.0	954.2	1129.5	5672.1	6090.1	7378.7	6650.8
75°	422.0	430.2	491.4	623.9	801.3	762.5	793.1	3007.3	3610.8	5916.8	6028.9
77.5°	342.5	350.7	395.5	497.5	711.6	593.3	623.9	1245.7	1539.3	4016.6	4927.9
80°	244.7	252.8	303.8	387.4	538.3	534.2	462.8	687.1	746.2	2171.4	3201.0
82.5°	175.3	181.5	230.4	277.3	373.1	536.2	348.6	466.9	489.3	962.3	1290.6
85°	118.3	118.3	159.0	183.5	240.6	338.5	281.4	316.0	330.3	456.7	348.6
87.5°	51.0	51.0	85.6	93.8	126.4	157.0	210.0	159.0	163.1	246.7	142.7
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°	1957.3	1957.3	1957.3	1957.3	1957.3	1957.3	1957.3	1957.3	1957.3	1957.3	1957.3
2.5°	1949.2	1951.2	1955.3	1967.5	1975.7	1987.9	1994.0	2002.2	2002.2	1998.1	2000.1
5°	1945.1	1951.2	1965.5	1987.9	2002.2	2024.6	2040.9	2053.1	2057.2	2053.1	2055.2
7.5°	1943.0	1953.2	1977.7	2010.3	2030.7	2059.3	2081.7	2096.0	2106.1	2102.1	2104.1
10°	1936.9	1953.2	1983.8	2024.6	2055.2	2083.7	2104.1	2110.2	2116.3	2112.3	2110.2
12.5°	1945.1	1963.4	1996.0	2045.0	2079.6	2102.1	2108.2	2098.0	2083.7	2075.6	2073.5
15°	1961.4	1979.7	2012.4	2063.3	2093.9	2102.1	2087.8	2055.2	2022.6	2004.2	2002.2
17.5°	1983.8	1996.0	2022.6	2067.4	2091.9	2081.7	2053.1	2014.4	1989.9	1975.7	1977.7
20°	1998.1	1998.1	2018.5	2053.1	2073.5	2065.4	2030.7	1987.9	1949.2	1930.8	1924.7
22.5°	2018.5	2008.3	2010.3	2040.9	2069.4	2057.2	1983.8	1908.4	1853.3	1832.9	1830.9
25°	2073.5	2045.0	2026.6	2045.0	2112.3	2012.4	1865.6	1777.9	1726.9	1708.6	1710.6
27.5°	2140.8	2102.1	2063.3	2093.9	2146.9	1910.4	1714.7	1614.8	1584.2	1569.9	1576.0
30°	2208.1	2157.1	2106.1	2216.2	2122.5	1751.4	1521.0	1423.1	1396.6	1386.4	1394.6
32.5°	2332.5	2248.9	2187.7	2379.4	2047.0	1569.9	1311.0	1221.3	1196.8	1184.6	1180.5
35°	2540.4	2434.4	2373.2	2522.1	1941.0	1368.1	1119.3	1056.1	1029.6	1003.1	999.0
37.5°	2840.1	2711.7	2656.6	2603.6	1792.2	1168.3	972.5	929.7	891.0	850.2	848.2
40°	3199.0	3031.8	2991.0	2640.3	1586.2	980.7	870.6	829.8	780.9	742.1	744.2
42.5°	3612.9	3398.8	3311.1	2630.1	1331.4	880.8	797.2	752.3	709.5	674.9	672.8
45°	4055.3	3812.7	3610.8	2558.8	1078.6	811.5	752.3	699.3	656.5	617.8	613.7
47.5°	4544.6	4273.5	3888.1	2420.1	891.0	762.5	725.8	650.4	611.7	587.2	587.2
50°	5038.0	4713.9	4143.0	2210.1	780.9	725.8	687.1	623.9	593.3	572.9	572.9
52.5°	5460.1	5172.6	4353.0	1959.3	711.6	695.3	660.6	611.7	579.0	560.7	558.6
55°	5869.9	5598.7	4540.6	1710.6	654.5	654.5	654.5	601.5	564.8	548.5	546.4
57.5°	6277.7	6047.3	4736.3	1547.5	603.5	619.8	642.2	589.2	552.5	538.3	536.2
60°	6738.4	6585.5	4962.6	1433.3	558.6	583.1	625.9	575.0	532.1	519.9	517.9
62.5°	7227.8	7227.8	5168.5	1272.3	517.9	552.5	601.5	556.6	513.8	503.6	501.6
65°	7611.1	7776.2	5301.0	1031.7	477.1	521.9	572.9	532.1	489.3	487.3	483.2
67.5°	7655.9	7914.9	5217.5	778.8	440.4	489.3	544.4	505.6	464.9	464.9	458.7
70°	7333.8	7596.8	4956.5	583.1	413.9	456.7	507.7	473.0	434.3	438.4	428.2
72.5°	6795.5	6860.8	4308.1	460.8	383.3	422.0	462.8	436.3	401.7	401.7	387.4
75°	6086.0	5723.1	3129.7	385.3	346.6	381.3	418.0	395.5	365.0	354.8	346.6
77.5°	4844.3	4147.1	1818.7	332.3	316.0	342.5	367.0	350.7	324.2	301.8	301.8
80°	2952.3	2430.3	803.3	287.5	279.3	299.7	316.0	297.7	275.2	252.8	246.7
82.5°	1123.4	937.9	389.4	246.7	244.7	256.9	269.1	250.8	234.5	224.3	193.7
85°	307.9	283.4	267.1	205.9	201.8	199.8	214.1	205.9	183.5	150.9	134.6
87.5°	116.2	132.5	144.8	126.4	134.6	124.4	142.7	130.5	116.2	75.4	67.3
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)