

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: P399249

Luminaire Tested: **ARCH-L-PA3-110-830-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399249
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-PA3-110-830-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 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: 14488 lumens
Efficiency: N/A
Efficacy: 128.2 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

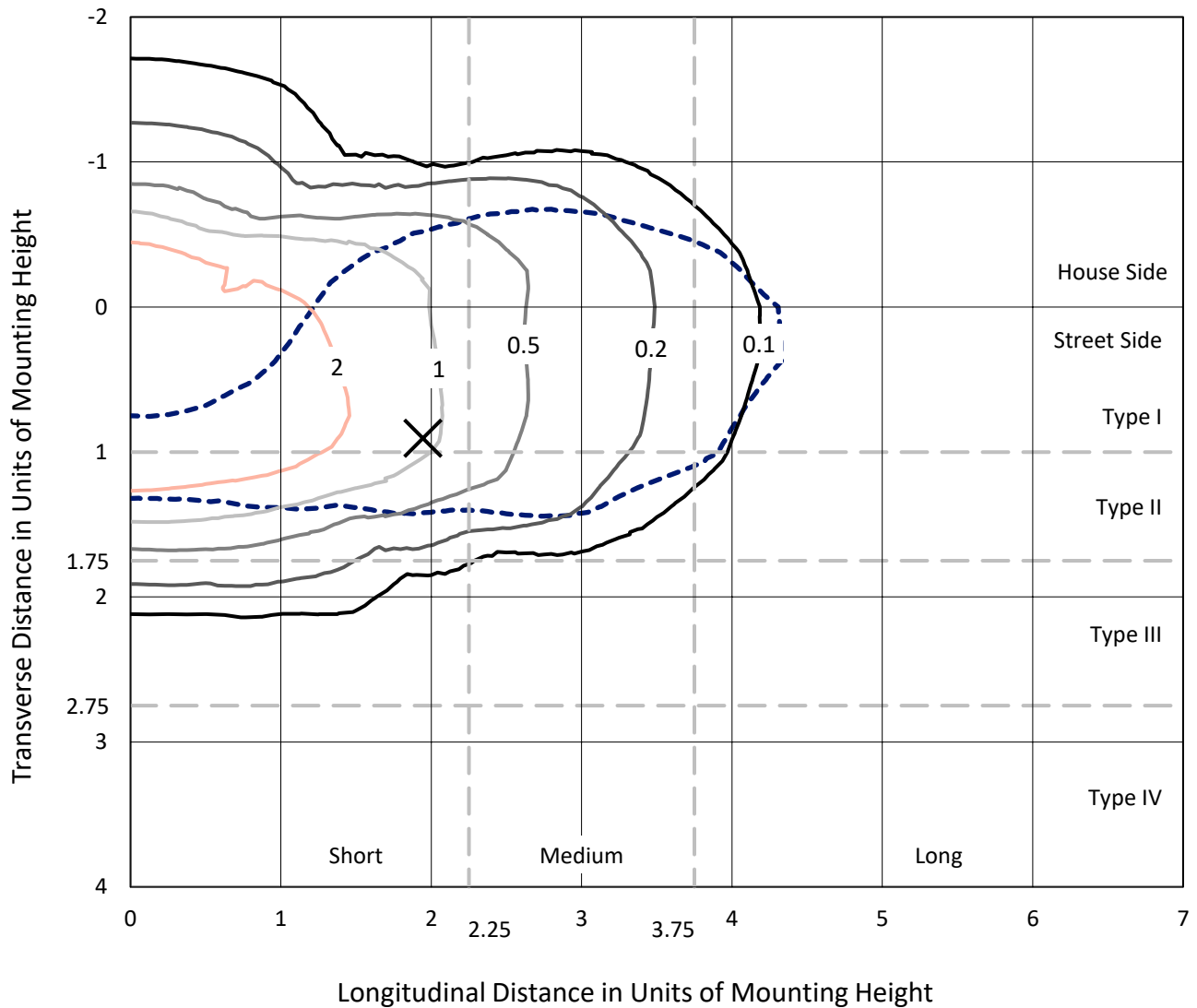
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

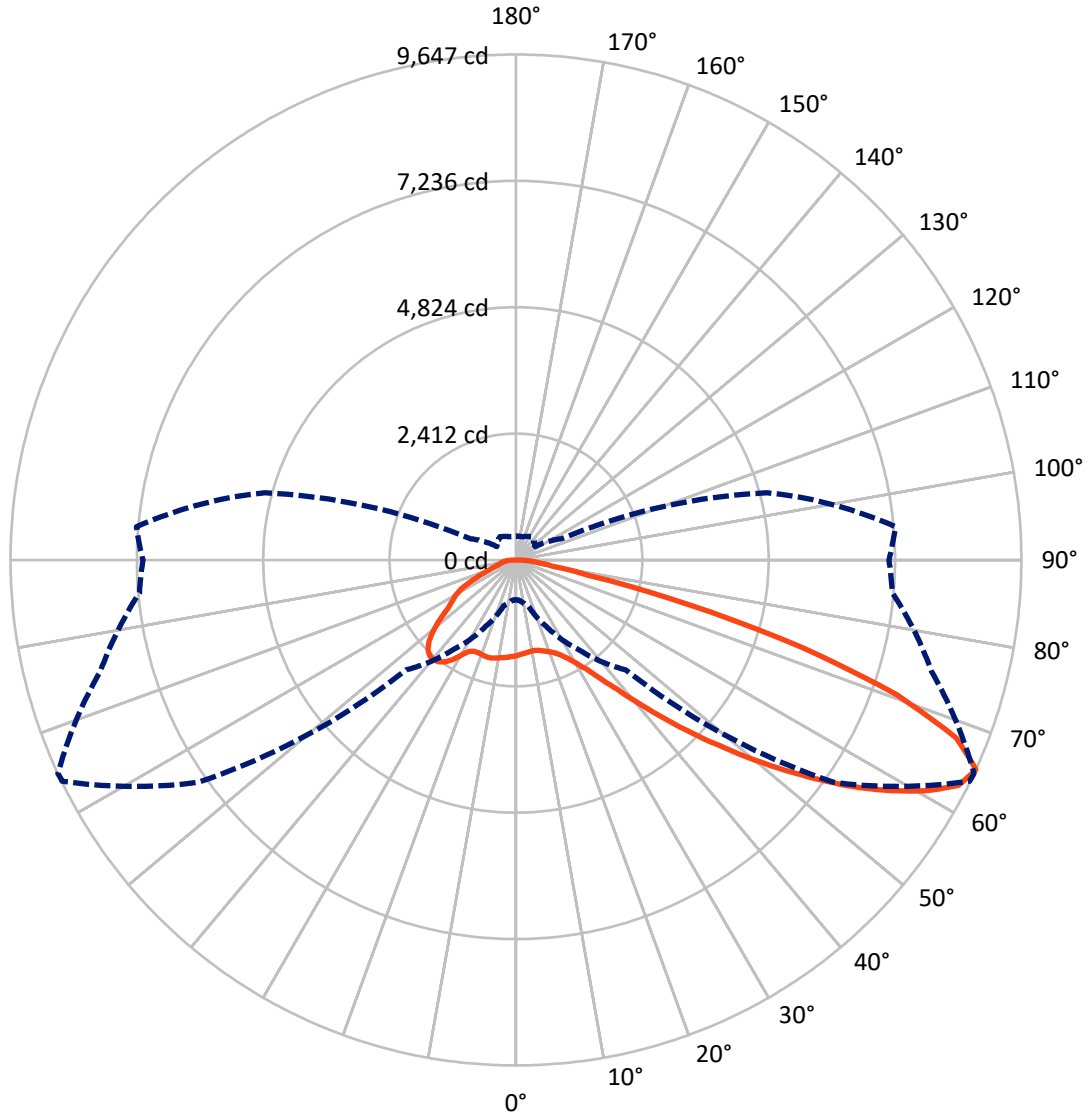
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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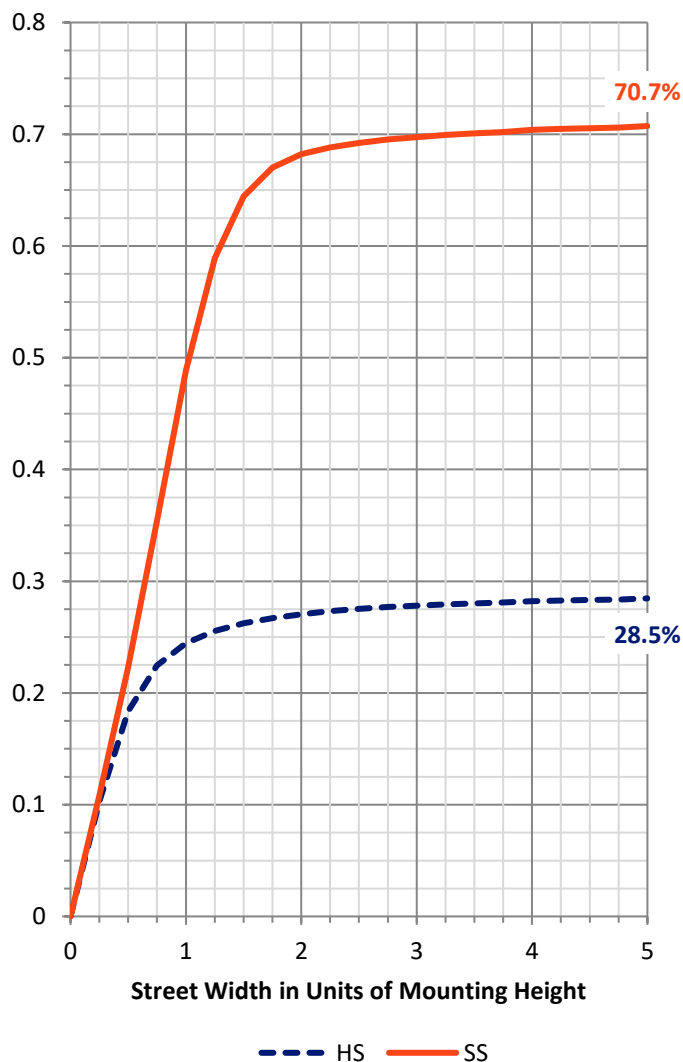
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4188.7	0.0	4188.7
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	10299.3	0.0	10299.3
	% Fixture	71.1	0.0	71.1
Total	Lumens	14488.0	0.0	14488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	1.2
10°-20°	520.7	3.6
20°-30°	925.0	6.4
30°-40°	1564.8	10.8
40°-50°	2724.0	18.8
50°-60°	3520.3	24.3
60°-70°	3080.5	21.3
70°-80°	1675.6	11.6
80°-90°	302.7	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°	14488.0	100.0
0°-180°	14488.0	100.0

Coefficient of Utilization



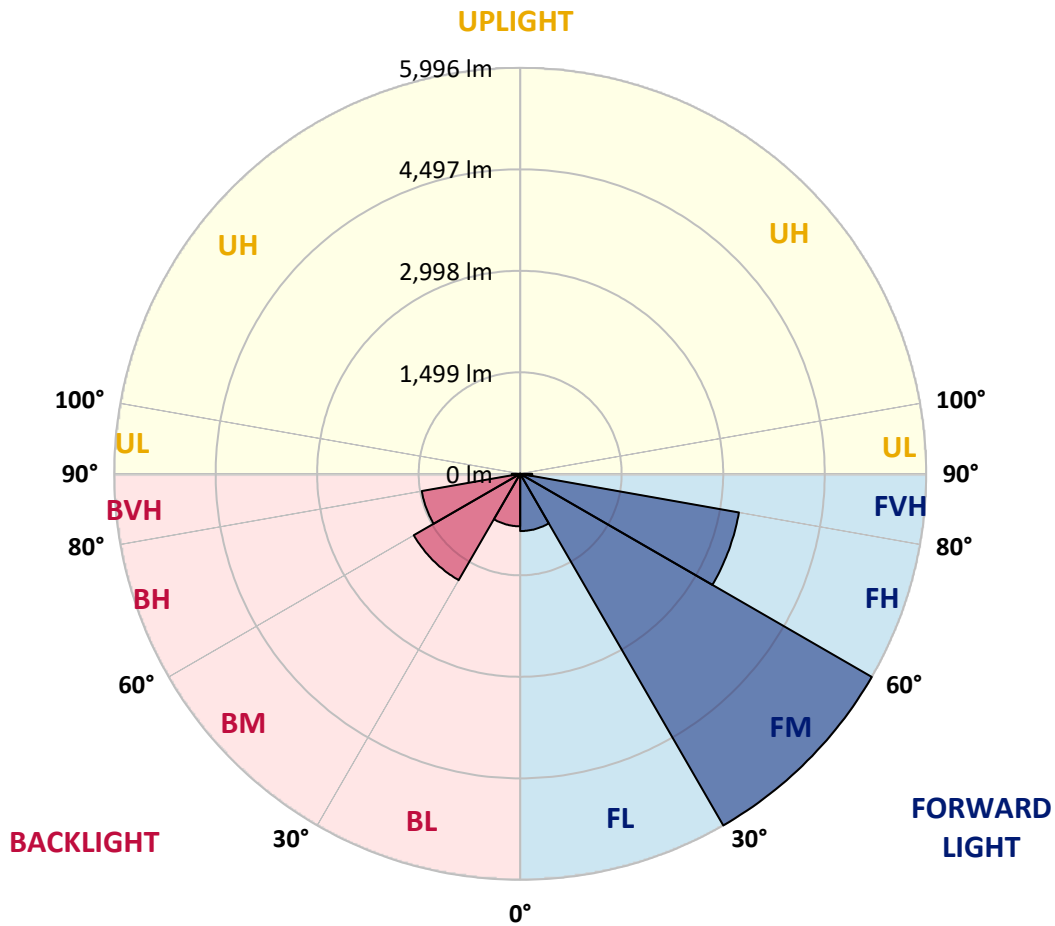
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	845.3	5.8			
FM (30°-60°)	5995.5	41.4			
FH (60°-80°)	3280.3	22.6			G2/5000
FVH (80°-90°)	178.1	1.2			G2/225
BL (0°-30°)	774.8	5.3	B2/1000		
BM (30°-60°)	1813.6	12.5	B2/2500		
BH (60°-80°)	1475.7	10.2	B3/2500		G3/2500
BVH (80°-90°)	124.6	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°	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7
2.5°	1798.3	1796.4	1792.6	1796.4	1798.3	1802.1	1800.2	1804.0	1802.1	1807.8	1817.3
5°	1752.5	1748.7	1746.8	1756.3	1762.0	1771.6	1775.4	1788.7	1786.8	1796.4	1811.6
7.5°	1701.0	1701.0	1699.1	1710.6	1718.2	1735.3	1748.7	1771.6	1773.5	1790.7	1807.8
10°	1661.0	1662.9	1661.0	1670.5	1682.0	1702.9	1725.8	1758.2	1760.1	1784.9	1802.1
12.5°	1645.7	1645.7	1645.7	1659.1	1674.3	1702.9	1729.6	1764.0	1767.8	1794.5	1809.7
15°	1666.7	1668.6	1664.8	1678.1	1695.3	1729.6	1754.4	1790.7	1794.5	1819.3	1828.8
17.5°	1741.1	1748.7	1739.2	1746.8	1743.0	1769.7	1792.6	1828.8	1830.7	1851.7	1855.5
20°	1887.9	1895.5	1880.3	1870.7	1836.4	1834.5	1844.0	1872.7	1872.7	1886.0	1876.5
22.5°	2114.8	2122.5	2095.8	2059.5	1977.5	1937.5	1916.5	1929.9	1928.0	1933.7	1908.9
25°	2416.1	2414.2	2381.8	2315.1	2183.5	2086.2	2034.7	2013.8	2013.8	2002.3	1971.8
27.5°	2789.9	2761.3	2704.1	2624.0	2440.9	2305.5	2194.9	2141.5	2132.0	2097.7	2040.5
30°	3188.5	3167.5	3085.5	2969.2	2757.5	2584.0	2400.9	2294.1	2288.4	2214.0	2128.2
32.5°	3657.6	3623.3	3531.7	3392.5	3138.9	2894.8	2666.0	2503.9	2494.3	2376.1	2257.9
35°	4260.2	4231.6	4054.2	3915.0	3588.9	3268.6	2997.8	2782.3	2774.7	2629.7	2479.1
37.5°	4982.9	4908.6	4736.9	4475.7	4132.4	3752.9	3409.7	3138.9	3129.4	2969.2	2778.5
40°	5627.5	5560.7	5408.2	5167.9	4799.9	4378.4	3913.1	3585.1	3575.6	3381.1	3140.8
42.5°	6104.2	6058.5	5959.3	5820.1	5556.9	5301.4	4555.8	4124.8	4107.6	3855.9	3556.5
45°	6380.7	6344.5	6287.3	6321.6	6317.8	6270.1	5322.4	4767.4	4712.1	4386.0	4019.9
47.5°	6314.0	6281.6	6304.5	6571.4	6939.5	7216.0	6214.8	5425.4	5351.0	4925.7	4513.8
50°	5831.5	5844.9	5965.0	6476.1	7301.8	7915.9	7204.6	6174.8	6075.6	5469.2	4982.9
52.5°	4952.4	4984.8	5276.6	5991.7	7261.8	8369.7	8098.9	6949.0	6817.4	5999.4	5410.1
55°	3934.1	4016.1	4393.7	5145.0	6739.3	8402.1	8774.0	7727.1	7582.1	6497.1	5782.0
57.5°	2910.0	3032.1	3468.8	4159.1	5738.1	7889.2	9111.5	8470.8	8295.4	6991.0	6174.8
60°	1846.0	1920.3	2423.8	3238.0	4391.8	6634.4	9067.7	9103.9	8951.4	7483.0	6584.8
62.5°	1178.5	1214.7	1468.4	2309.3	3070.2	4912.4	8589.0	9582.6	9479.6	7931.1	6973.8
65°	757.1	772.3	902.0	1420.7	2090.0	2965.3	7397.2	9634.1	9647.4	8211.4	7214.1
67.5°	616.0	623.6	671.3	877.2	1477.9	1638.1	5152.7	8901.8	9063.9	8139.0	7132.1
70°	560.7	570.2	619.8	699.9	1144.2	1130.8	2494.3	7448.7	7713.7	7721.4	6767.9
72.5°	472.9	486.3	553.0	661.7	884.8	892.5	1056.5	5305.2	5696.1	6901.4	6220.6
75°	394.7	402.4	459.6	583.5	749.4	713.2	741.8	2812.8	3377.3	5534.0	5638.9
77.5°	320.4	328.0	370.0	465.3	665.5	554.9	583.5	1165.2	1439.8	3756.7	4609.2
80°	228.8	236.5	284.1	362.3	503.4	499.6	432.9	642.7	698.0	2030.9	2994.0
82.5°	164.0	169.7	215.5	259.3	349.0	501.5	326.1	436.7	457.7	900.1	1207.1
85°	110.6	110.6	148.7	171.6	225.0	316.6	263.2	295.6	308.9	427.2	326.1
87.5°	47.7	47.7	80.1	87.7	118.2	146.8	196.4	148.7	152.6	230.7	133.5
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°	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7
2.5°	1823.1	1825.0	1828.8	1840.2	1847.9	1859.3	1865.0	1872.7	1872.7	1868.8	1870.7
5°	1819.3	1825.0	1838.3	1859.3	1872.7	1893.6	1908.9	1920.3	1924.1	1920.3	1922.2
7.5°	1817.3	1826.9	1849.8	1880.3	1899.3	1926.0	1947.0	1960.4	1969.9	1966.1	1968.0
10°	1811.6	1826.9	1855.5	1893.6	1922.2	1948.9	1968.0	1973.7	1979.4	1975.6	1973.7
12.5°	1819.3	1836.4	1866.9	1912.7	1945.1	1966.1	1971.8	1962.3	1948.9	1941.3	1939.4
15°	1834.5	1851.7	1882.2	1929.9	1958.5	1966.1	1952.7	1922.2	1891.7	1874.6	1872.7
17.5°	1855.5	1866.9	1891.7	1933.7	1956.6	1947.0	1920.3	1884.1	1861.2	1847.9	1849.8
20°	1868.8	1868.8	1887.9	1920.3	1939.4	1931.8	1899.3	1859.3	1823.1	1805.9	1800.2
22.5°	1887.9	1878.4	1880.3	1908.9	1935.6	1924.1	1855.5	1784.9	1733.4	1714.4	1712.5
25°	1939.4	1912.7	1895.5	1912.7	1975.6	1882.2	1744.9	1662.9	1615.2	1598.0	1600.0
27.5°	2002.3	1966.1	1929.9	1958.5	2008.0	1786.8	1603.8	1510.3	1481.7	1468.4	1474.1
30°	2065.3	2017.6	1969.9	2072.9	1985.2	1638.1	1422.6	1331.1	1306.3	1296.7	1304.4
32.5°	2181.6	2103.4	2046.2	2225.4	1914.6	1468.4	1226.2	1142.3	1119.4	1108.0	1104.1
35°	2376.1	2276.9	2219.7	2358.9	1815.4	1279.6	1046.9	987.8	963.0	938.2	934.4
37.5°	2656.4	2536.3	2484.8	2435.2	1676.2	1092.7	909.6	869.6	833.3	795.2	793.3
40°	2992.0	2835.7	2797.5	2469.5	1483.6	917.3	814.3	776.1	730.4	694.1	696.0
42.5°	3379.2	3178.9	3096.9	2460.0	1245.3	823.8	745.6	703.7	663.6	631.2	629.3
45°	3793.0	3566.0	3377.3	2393.3	1008.8	759.0	703.7	654.1	614.0	577.8	574.0
47.5°	4250.7	3997.0	3636.6	2263.6	833.3	713.2	678.9	608.3	572.1	549.2	549.2
50°	4712.1	4408.9	3875.0	2067.2	730.4	678.9	642.7	583.5	554.9	535.9	535.9
52.5°	5106.9	4838.0	4071.4	1832.6	665.5	650.3	617.9	572.1	541.6	524.4	522.5
55°	5490.2	5236.6	4246.8	1600.0	612.1	612.1	612.1	562.6	528.2	513.0	511.1
57.5°	5871.6	5656.1	4429.9	1447.4	564.5	579.7	600.7	551.1	516.8	503.4	501.5
60°	6302.6	6159.5	4641.6	1340.6	522.5	545.4	585.4	537.8	497.7	486.3	484.4
62.5°	6760.2	6760.2	4834.2	1190.0	484.4	516.8	562.6	520.6	480.6	471.0	469.1
65°	7118.7	7273.2	4958.1	964.9	446.2	488.2	535.9	497.7	457.7	455.8	452.0
67.5°	7160.7	7402.9	4880.0	728.5	411.9	457.7	509.2	472.9	434.8	434.8	429.1
70°	6859.4	7105.4	4635.9	545.4	387.1	427.2	474.8	442.4	406.2	410.0	400.5
72.5°	6356.0	6417.0	4029.4	431.0	358.5	394.7	432.9	408.1	375.7	375.7	362.3
75°	5692.3	5352.9	2927.2	360.4	324.2	356.6	390.9	370.0	341.3	331.8	324.2
77.5°	4531.0	3878.8	1701.0	310.8	295.6	320.4	343.3	328.0	303.2	282.2	282.2
80°	2761.3	2273.1	751.3	268.9	261.3	280.3	295.6	278.4	257.4	236.5	230.7
82.5°	1050.7	877.2	364.2	230.7	228.8	240.3	251.7	234.6	219.3	209.8	181.2
85°	288.0	265.1	249.8	192.6	188.8	186.9	200.2	192.6	171.6	141.1	125.9
87.5°	108.7	124.0	135.4	118.2	125.9	116.3	133.5	122.0	108.7	70.6	62.9
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)