

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: P237103

Luminaire Tested: **ARCH-L-AF72-100-D-U-T3-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-100-D-U-T3-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14079 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

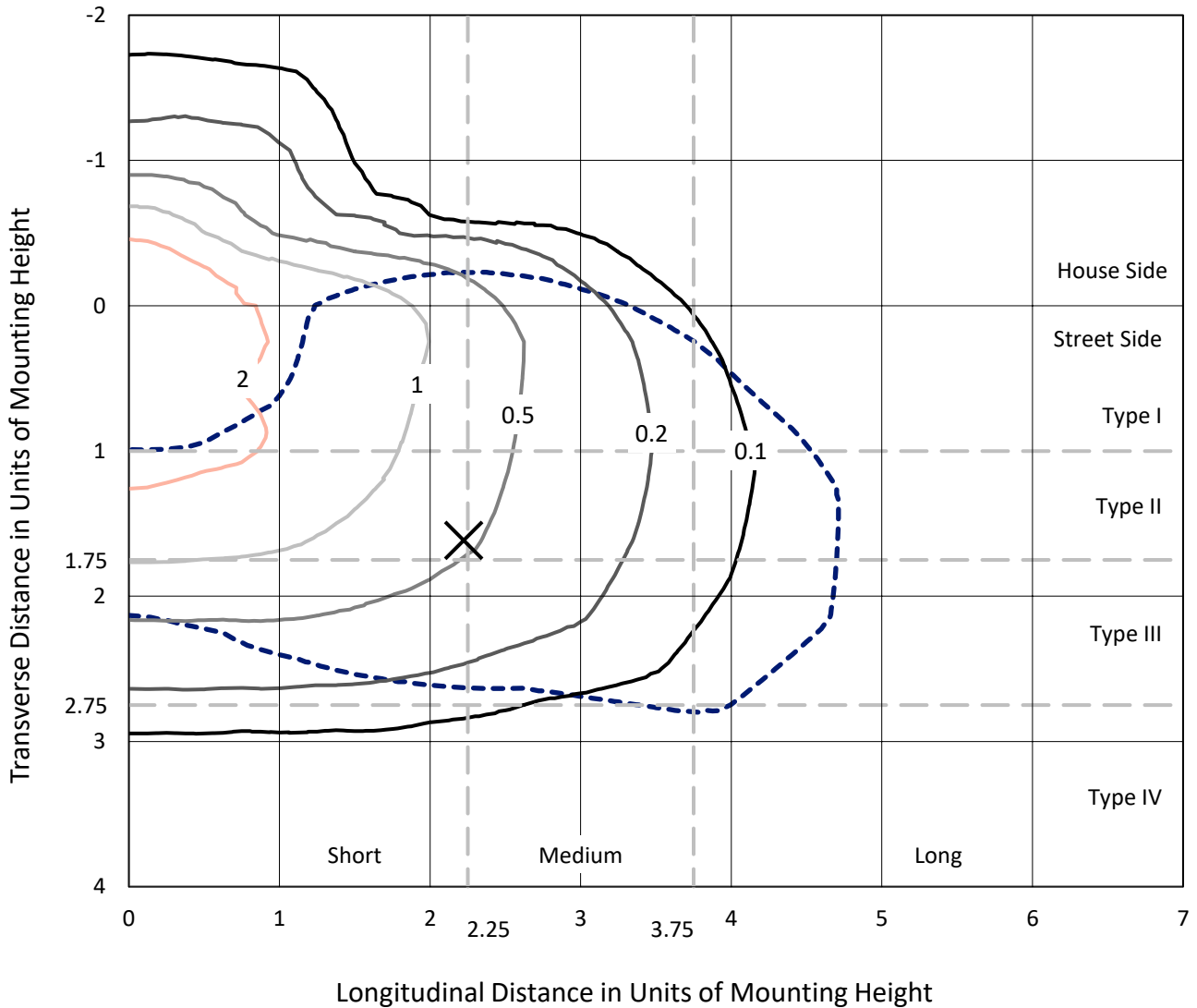
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

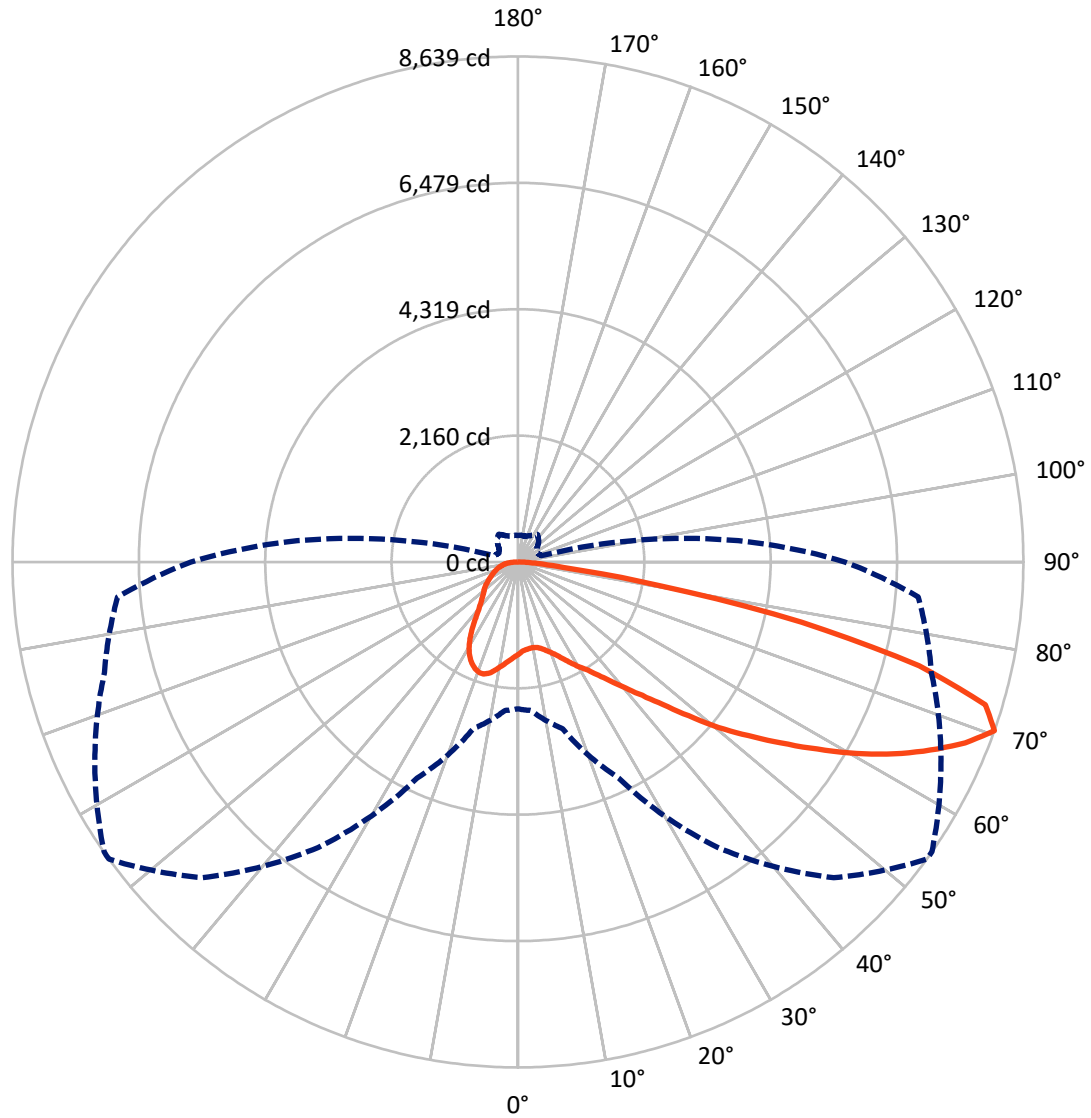
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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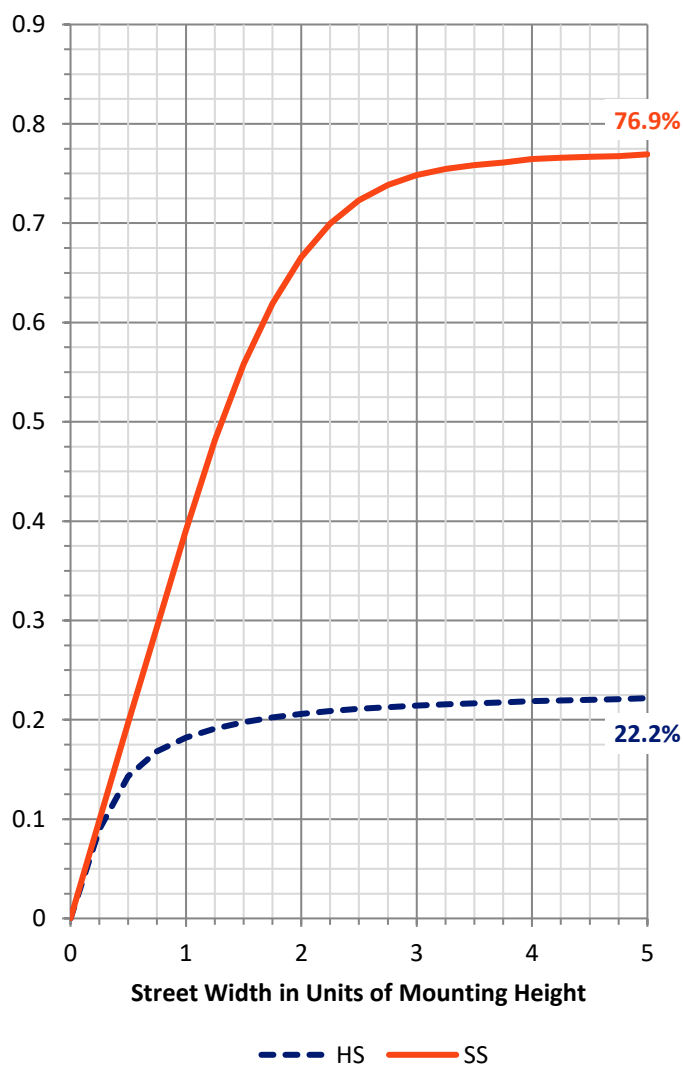
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3193.1	0.0	3193.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	10885.9	0.0	10885.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	14079.0	0.0	14079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	1.1
10°-20°	493.9	3.5
20°-30°	858.1	6.1
30°-40°	1254.1	8.9
40°-50°	1968.2	14.0
50°-60°	3026.6	21.5
60°-70°	3697.8	26.3
70°-80°	2292.6	16.3
80°-90°	333.1	2.4
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°	14079.0	100.0
0°-180°	14079.0	100.0

Coefficient of Utilization

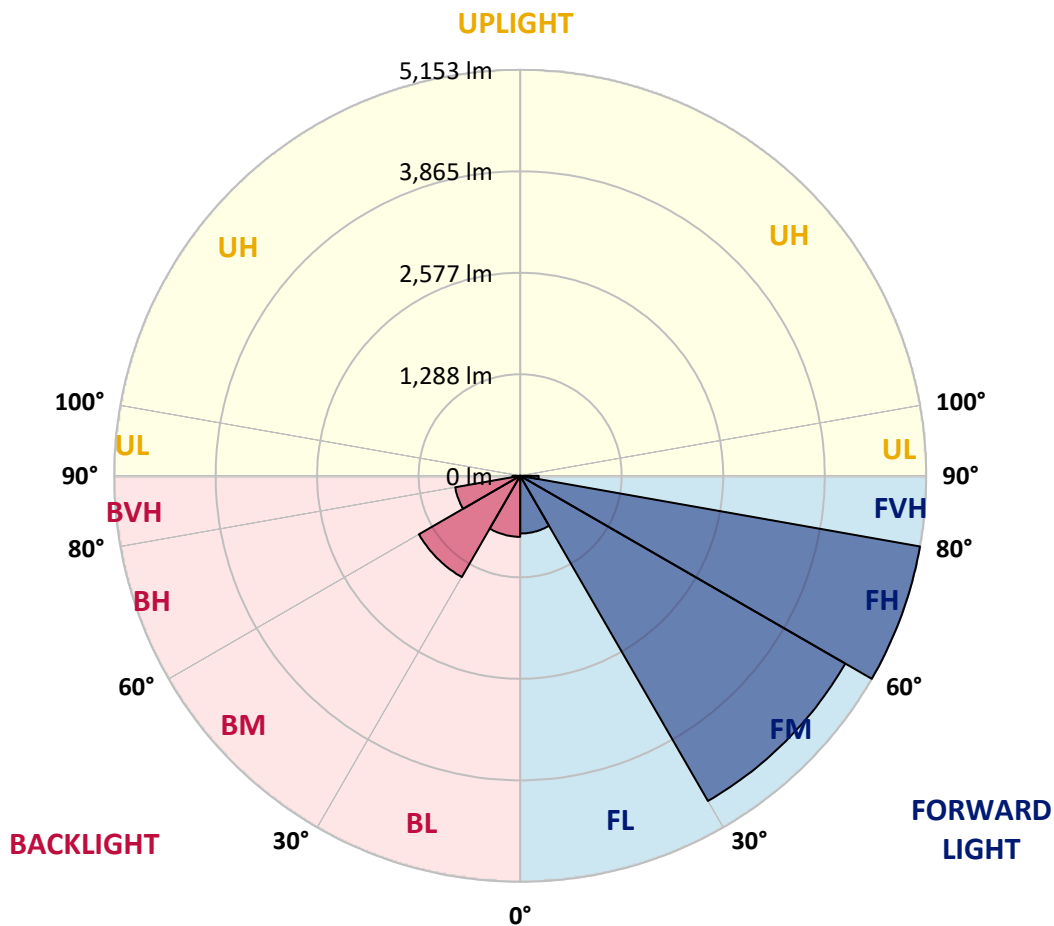


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	732.5	5.2			
FM (30°-60°)	4765.1	33.8			
FH (60°-80°)	5153.1	36.6			G3/7500
FVH (80°-90°)	235.2	1.7			G3/500
BL (0°-30°)	774.1	5.5	B2/1000		
BM (30°-60°)	1483.8	10.5	B2/2500		
BH (60°-80°)	837.3	5.9	B2/1000		G2/1000
BVH (80°-90°)	97.9	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1575.2	1575.2	1575.2	1575.2	1575.2	1575.2	1575.2	1575.2	1575.2	1575.2	1575.2
2.5°	1513.3	1508.1	1508.1	1515.9	1518.4	1526.2	1526.2	1528.8	1536.5	1549.4	1564.8
5°	1466.9	1464.3	1466.9	1477.2	1482.3	1497.8	1503.0	1505.5	1521.0	1541.6	1564.8
7.5°	1420.5	1417.9	1423.1	1438.5	1454.0	1477.2	1490.1	1492.7	1515.9	1544.2	1575.2
10°	1405.0	1402.4	1410.2	1423.1	1438.5	1464.3	1484.9	1487.5	1521.0	1554.5	1598.4
12.5°	1425.6	1423.1	1430.8	1443.7	1459.1	1477.2	1500.4	1503.0	1546.8	1590.6	1637.0
15°	1477.2	1477.2	1479.8	1487.5	1503.0	1518.4	1539.1	1541.6	1588.0	1639.6	1686.0
17.5°	1557.1	1552.0	1552.0	1549.4	1559.7	1567.4	1593.2	1595.8	1644.8	1691.2	1737.6
20°	1655.1	1652.5	1642.2	1629.3	1626.7	1631.9	1657.7	1660.2	1709.2	1747.9	1791.7
22.5°	1773.7	1776.2	1753.0	1724.7	1711.8	1719.5	1742.7	1745.3	1781.4	1814.9	1853.6
25°	1930.9	1923.2	1889.7	1848.4	1822.6	1822.6	1845.8	1845.8	1879.4	1900.0	1925.8
27.5°	2080.4	2065.0	2034.0	1974.7	1933.5	1941.2	1964.4	1964.4	1995.4	2003.1	2016.0
30°	2242.9	2227.4	2188.7	2114.0	2059.8	2054.7	2083.0	2080.4	2121.7	2119.1	2108.8
32.5°	2441.4	2433.6	2369.2	2273.8	2201.6	2183.6	2209.3	2211.9	2237.7	2230.0	2196.5
35°	2719.8	2717.2	2657.9	2490.3	2395.0	2361.4	2376.9	2376.9	2395.0	2374.3	2317.6
37.5°	3070.4	3075.5	3024.0	2776.5	2642.4	2585.7	2588.3	2585.7	2590.9	2567.7	2508.4
40°	3421.0	3433.9	3431.3	3132.3	2962.1	2864.2	2828.1	2822.9	2835.8	2825.5	2768.8
42.5°	3882.5	3913.4	3841.2	3570.5	3379.8	3214.8	3116.8	3103.9	3132.3	3145.2	3091.0
45°	4362.0	4351.7	4238.2	4042.3	3869.6	3658.2	3472.6	3451.9	3472.6	3511.2	3454.5
47.5°	4612.0	4604.3	4575.9	4478.0	4452.2	4209.9	3928.9	3910.8	3872.2	3926.3	3859.3
50°	5024.5	5032.2	4916.2	4905.9	5014.2	4880.1	4444.5	4403.2	4333.6	4377.4	4320.7
52.5°	5323.6	5290.0	5217.9	5308.1	5645.8	5573.6	4929.1	4911.1	4846.6	4836.3	4810.5
55°	5444.7	5444.7	5457.6	5666.4	6148.5	6053.1	5455.0	5473.1	5385.4	5313.3	5346.8
57.5°	5480.8	5496.3	5607.1	5952.6	6738.9	6426.9	6035.1	6060.9	5934.5	5790.2	5895.9
60°	5302.9	5349.3	5614.9	6115.0	7071.4	6824.0	6646.1	6653.8	6470.8	6259.4	6445.0
62.5°	4846.6	4903.3	5377.7	6182.0	7017.3	7231.3	7223.5	7241.6	6991.5	6728.6	6960.6
65°	4287.2	4343.9	4849.2	5993.8	6976.1	7522.6	7752.0	7801.0	7478.8	7125.6	7282.8
67.5°	3464.8	3539.6	4019.1	5359.7	6775.0	7762.3	8247.0	8298.6	7855.2	7331.8	7254.5
70°	2511.0	2547.1	2949.2	4073.2	5955.2	7630.9	8638.9	8636.3	7978.9	7316.4	6867.8
72.5°	1209.1	1237.4	1585.5	2529.0	4258.8	6475.9	8355.3	8404.3	7808.8	7092.1	5983.5
75°	497.6	525.9	641.9	1067.3	2235.1	4279.5	7081.8	7197.8	7092.1	6365.1	4681.6
77.5°	309.4	319.7	376.4	551.7	1020.9	1997.9	4957.5	5114.7	5620.0	5099.3	3091.0
80°	232.0	239.8	281.0	386.7	644.5	737.3	2462.0	2660.5	3405.5	2926.0	1399.9
82.5°	193.3	195.9	224.3	281.0	438.3	422.8	788.9	879.1	1588.0	1116.3	482.1
85°	180.5	185.6	201.1	201.1	278.4	265.5	327.4	342.9	461.5	381.5	167.6
87.5°	92.8	87.7	177.9	157.3	144.4	128.9	139.2	149.5	172.7	183.0	74.8
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°	1575.2	1575.2	1575.2	1575.2	1575.2	1575.2	1575.2	1575.2	1575.2	1575.2	1575.2
2.5°	1570.0	1577.7	1590.6	1603.5	1619.0	1637.0	1647.3	1660.2	1670.5	1665.4	1662.8
5°	1577.7	1590.6	1619.0	1644.8	1675.7	1711.8	1735.0	1760.8	1781.4	1786.6	1778.8
7.5°	1590.6	1613.8	1652.5	1698.9	1740.1	1786.6	1822.6	1858.7	1884.5	1889.7	1889.7
10°	1621.6	1647.3	1698.9	1760.8	1809.8	1858.7	1900.0	1928.3	1951.5	1961.9	1961.9
12.5°	1665.4	1696.3	1758.2	1833.0	1887.1	1933.5	1956.7	1969.6	1979.9	1990.2	1992.8
15°	1716.9	1750.5	1825.2	1905.1	1961.9	1985.1	1985.1	1982.5	1982.5	1987.6	1992.8
17.5°	1768.5	1804.6	1881.9	1967.0	2003.1	1990.2	1972.2	1964.4	1959.3	1956.7	1964.4
20°	1822.6	1858.7	1936.1	2016.0	2005.7	1951.5	1925.8	1907.7	1892.2	1884.5	1894.8
22.5°	1881.9	1915.5	1995.4	2049.5	1972.2	1889.7	1840.7	1812.3	1786.6	1771.1	1781.4
25°	1951.5	1985.1	2062.4	2059.8	1912.9	1796.9	1719.5	1673.1	1644.8	1629.3	1629.3
27.5°	2034.0	2062.4	2137.2	2034.0	1830.4	1673.1	1559.7	1515.9	1508.1	1495.2	1495.2
30°	2119.1	2142.3	2206.8	1974.7	1716.9	1510.7	1387.0	1366.3	1368.9	1356.0	1358.6
32.5°	2206.8	2230.0	2248.0	1887.1	1570.0	1327.7	1245.2	1229.7	1227.1	1216.8	1206.5
35°	2330.5	2364.0	2253.2	1768.5	1392.1	1175.6	1116.3	1100.8	1085.3	1049.2	1049.2
37.5°	2518.7	2554.8	2240.3	1621.6	1209.1	1057.0	1002.8	982.2	956.4	920.3	907.5
40°	2776.5	2776.5	2211.9	1456.6	1062.1	961.6	910.0	884.3	855.9	819.8	812.1
42.5°	3080.7	3008.5	2168.1	1289.0	953.9	897.1	850.7	822.4	788.9	747.6	742.5
45°	3436.5	3240.5	2106.2	1139.5	873.9	858.5	830.1	781.1	724.4	680.6	672.9
47.5°	3781.9	3449.4	2046.9	1033.8	806.9	843.0	819.8	737.3	660.0	598.1	590.4
50°	4160.9	3635.0	1977.3	946.1	755.4	832.7	806.9	672.9	587.8	544.0	538.8
52.5°	4539.9	3823.2	1902.6	853.3	711.5	812.1	776.0	626.5	585.2	525.9	518.2
55°	4939.4	4042.3	1814.9	750.2	660.0	770.8	734.7	623.9	603.3	525.9	507.9
57.5°	5328.7	4284.6	1673.1	649.7	603.3	708.9	719.3	608.4	564.6	520.8	500.1
60°	5759.2	4542.4	1438.5	564.6	554.3	657.4	698.6	574.9	520.8	505.3	495.0
62.5°	6104.7	4774.4	1124.0	505.3	513.0	616.1	672.9	554.3	502.7	489.8	487.2
65°	6254.2	4779.6	806.9	453.7	471.8	577.5	647.1	536.2	487.2	482.1	479.5
67.5°	6097.0	4516.6	567.2	404.7	427.9	541.4	613.6	518.2	471.8	474.4	469.2
70°	5589.1	3962.4	415.1	358.3	386.7	502.7	577.5	495.0	453.7	458.9	451.1
72.5°	4676.5	3088.4	332.6	319.7	353.2	461.5	541.4	469.2	425.4	427.9	412.5
75°	3454.5	2046.9	278.4	286.2	314.5	422.8	495.0	435.7	394.4	384.1	373.8
77.5°	2054.7	1051.8	229.4	250.1	281.0	376.4	443.4	394.4	360.9	342.9	335.1
80°	848.2	425.4	188.2	211.4	244.9	335.1	391.9	345.5	322.2	304.2	293.9
82.5°	337.7	208.8	149.5	172.7	206.2	291.3	342.9	304.2	281.0	268.1	239.8
85°	128.9	103.1	100.5	121.2	154.7	224.3	283.6	255.2	237.2	203.7	195.9
87.5°	51.6	46.4	46.4	59.3	87.7	141.8	203.7	177.9	185.6	146.9	149.5
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)