

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: P237104

Luminaire Tested: **ARCH-L-AF72-110-D-U-T3-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237104
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-AF72-110-D-U-T3-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15390 lumens
Efficiency: N/A
Efficacy: 136.2 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

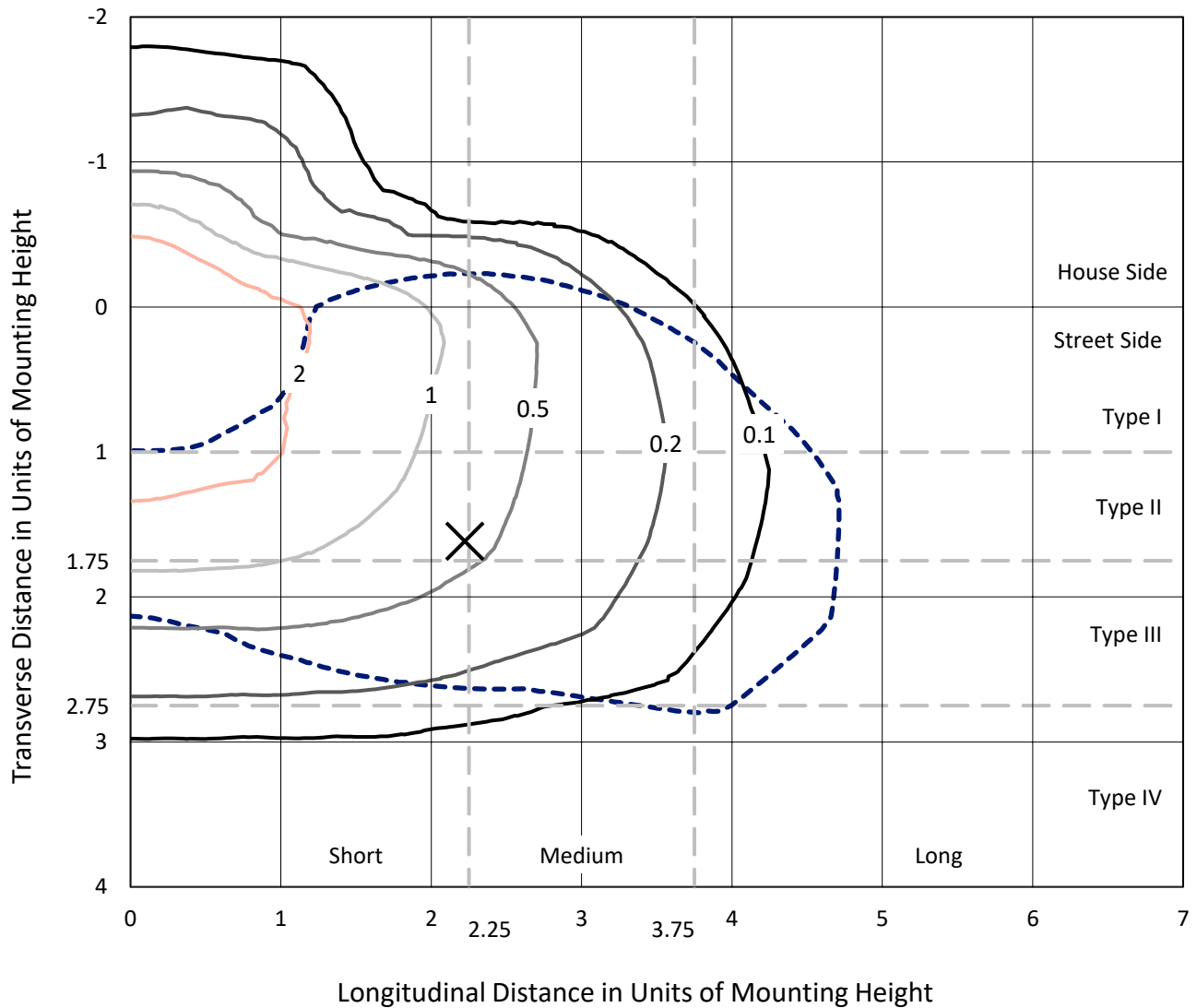
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P237104
 CATALOG NUMBER: ARCH-L-AF72-110-D-U-T3-7050

Iso-Footcandle Lines of Horizontal Illumination

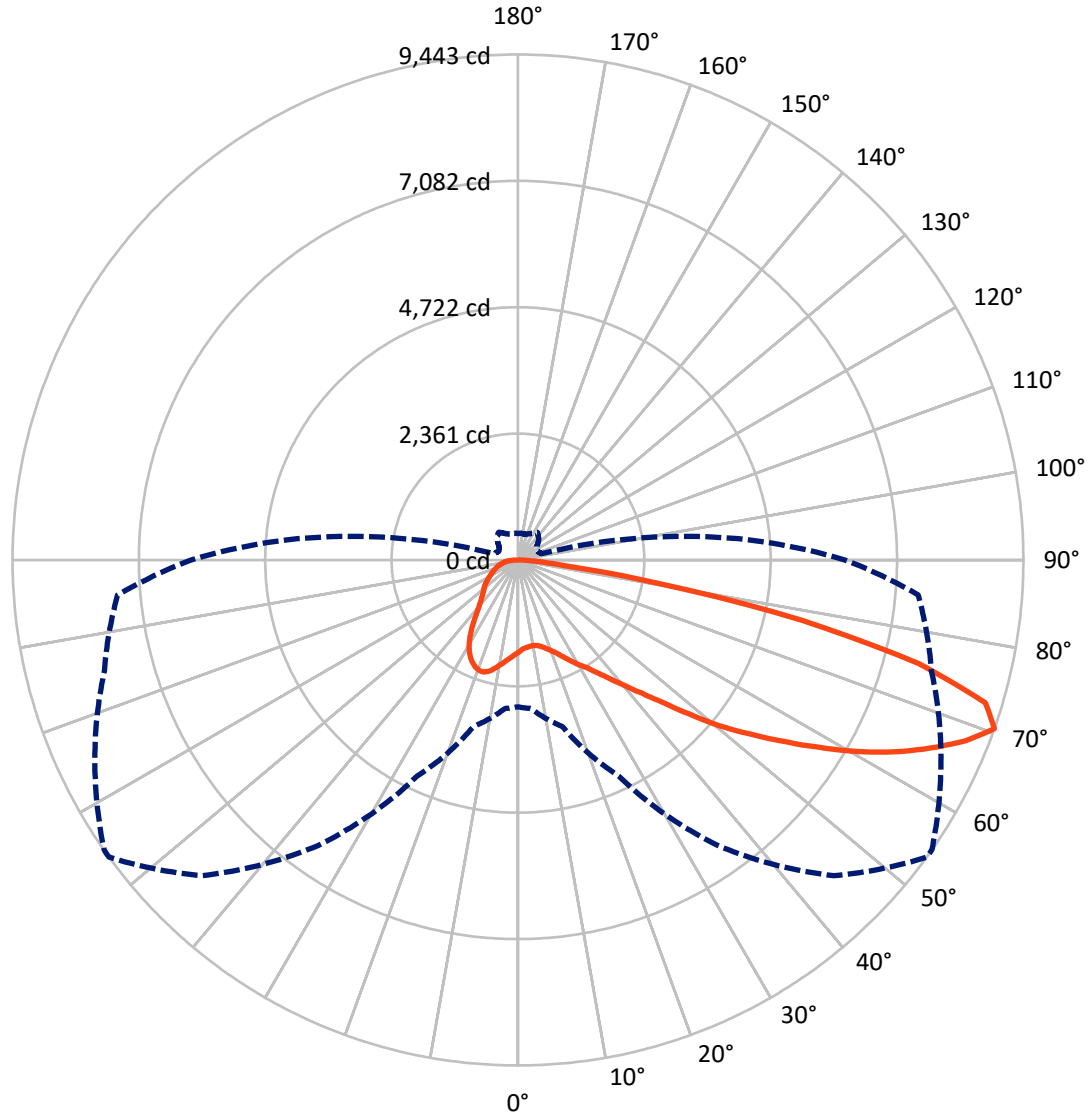
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

REPORT NUMBER: P237104
CATALOG NUMBER: ARCH-L-AF72-110-D-U-T3-7050

Luminous Intensity Polar Plot



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

REPORT NUMBER: P237104
 CATALOG NUMBER: ARCH-L-AF72-110-D-U-T3-7050

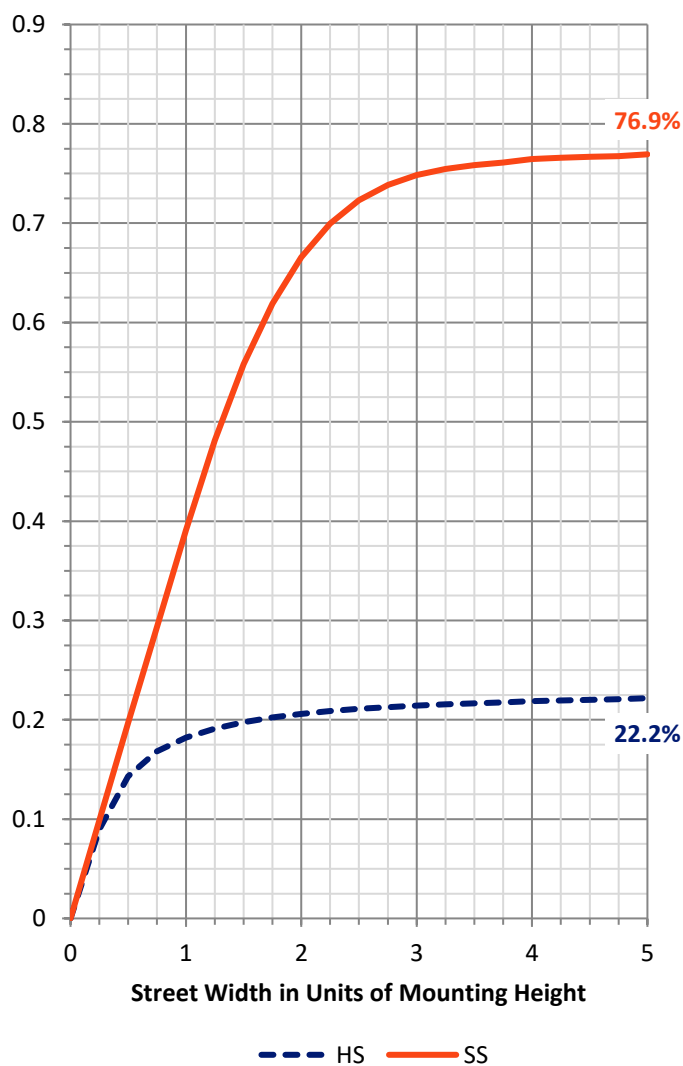
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3490.4	0.0	3490.4
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	11899.6	0.0	11899.6
	% Fixture	77.3	0.0	77.3
Total	Lumens	15390.0	0.0	15390.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	1.1
10°-20°	539.9	3.5
20°-30°	938.0	6.1
30°-40°	1370.8	8.9
40°-50°	2151.5	14.0
50°-60°	3308.5	21.5
60°-70°	4042.1	26.3
70°-80°	2506.1	16.3
80°-90°	364.1	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°	15390.0	100.0
0°-180°	15390.0	100.0

Coefficient of Utilization



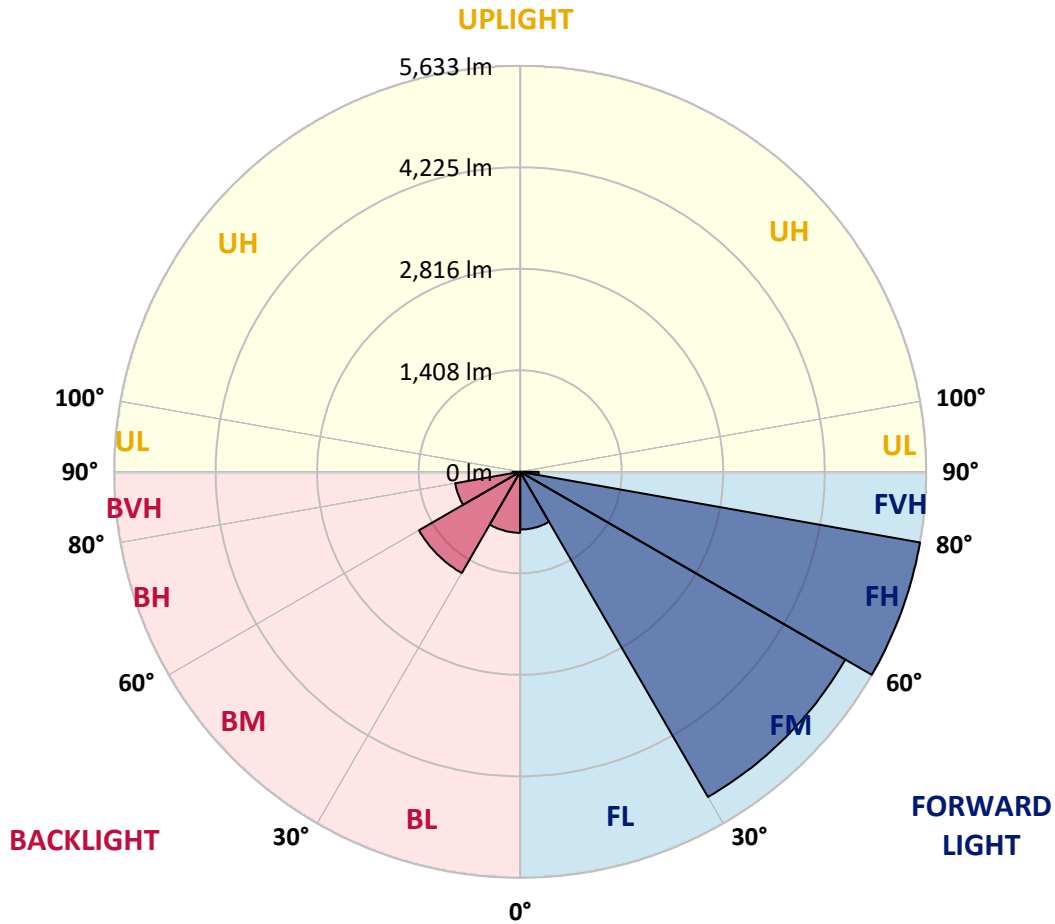
REPORT NUMBER: P237104
 CATALOG NUMBER: ARCH-L-AF72-110-D-U-T3-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	800.7	5.2			
FM (30°-60°)	5208.8	33.8			
FH (60°-80°)	5633.0	36.6			G3/7500
FVH (80°-90°)	257.1	1.7			G3/500
BL (0°-30°)	846.2	5.5	B2/1000		
BM (30°-60°)	1621.9	10.5	B2/2500		
BH (60°-80°)	915.3	5.9	B2/1000		G2/1000
BVH (80°-90°)	107.0	0.7			G2/225
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





REPORT NUMBER: P237104

CATALOG NUMBER: ARCH-L-AF72-110-D-U-T3-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1721.8	1721.8	1721.8	1721.8	1721.8	1721.8	1721.8	1721.8	1721.8	1721.8	1721.8
2.5°	1654.2	1648.6	1648.6	1657.0	1659.8	1668.3	1668.3	1671.1	1679.6	1693.6	1710.6
5°	1603.5	1600.7	1603.5	1614.7	1620.4	1637.3	1642.9	1645.7	1662.7	1685.2	1710.6
7.5°	1552.7	1549.9	1555.6	1572.5	1589.4	1614.7	1628.8	1631.7	1657.0	1688.0	1721.8
10°	1535.8	1533.0	1541.5	1555.6	1572.5	1600.7	1623.2	1626.0	1662.7	1699.3	1747.2
12.5°	1558.4	1555.6	1564.0	1578.1	1595.0	1614.7	1640.1	1642.9	1690.8	1738.7	1789.5
15°	1614.7	1614.7	1617.6	1626.0	1642.9	1659.8	1682.4	1685.2	1735.9	1792.3	1843.0
17.5°	1702.1	1696.5	1696.5	1693.6	1704.9	1713.4	1741.6	1744.4	1797.9	1848.6	1899.4
20°	1809.2	1806.4	1795.1	1781.0	1778.2	1783.8	1812.0	1814.8	1868.4	1910.6	1958.5
22.5°	1938.8	1941.6	1916.3	1885.3	1871.2	1879.6	1905.0	1907.8	1947.3	1983.9	2026.2
25°	2110.7	2102.3	2065.6	2020.5	1992.4	1992.4	2017.7	2017.7	2054.4	2076.9	2105.1
27.5°	2274.2	2257.3	2223.4	2158.6	2113.5	2122.0	2147.4	2147.4	2181.2	2189.6	2203.7
30°	2451.7	2434.8	2392.5	2310.8	2251.6	2246.0	2277.0	2274.2	2319.3	2316.4	2305.2
32.5°	2668.7	2660.2	2589.8	2485.5	2406.6	2386.9	2415.1	2417.9	2446.1	2437.6	2401.0
35°	2973.0	2970.2	2905.4	2722.2	2618.0	2581.3	2598.2	2598.2	2618.0	2595.4	2533.4
37.5°	3356.3	3361.9	3305.6	3035.0	2888.5	2826.5	2829.3	2826.5	2832.1	2806.8	2742.0
40°	3739.6	3753.6	3750.8	3423.9	3237.9	3130.9	3091.4	3085.8	3099.9	3088.6	3026.6
42.5°	4244.0	4277.8	4198.9	3903.0	3694.5	3514.1	3407.0	3392.9	3423.9	3438.0	3378.8
45°	4768.1	4756.9	4632.9	4418.7	4229.9	3998.8	3795.9	3773.4	3795.9	3838.2	3776.2
47.5°	5041.5	5033.0	5002.0	4895.0	4866.8	4601.9	4294.7	4275.0	4232.7	4291.9	4218.6
50°	5492.4	5500.8	5374.0	5362.8	5481.1	5334.6	4858.3	4813.2	4737.1	4785.1	4723.1
52.5°	5819.3	5782.6	5703.7	5802.4	6171.5	6092.6	5388.1	5368.4	5297.9	5286.7	5258.5
55°	5951.7	5951.7	5965.8	6194.1	6721.1	6616.8	5963.0	5982.7	5886.9	5808.0	5844.6
57.5°	5991.2	6008.1	6129.3	6506.9	7366.4	7025.4	6597.1	6625.2	6487.2	6329.3	6444.9
60°	5796.7	5847.5	6137.7	6684.4	7729.9	7459.4	7264.9	7273.4	7073.3	6842.2	7045.1
62.5°	5297.9	5359.9	5878.5	6757.7	7670.7	7904.6	7896.2	7915.9	7642.6	7355.1	7608.7
65°	4686.4	4748.4	5300.8	6552.0	7625.7	8223.1	8473.9	8527.4	8175.2	7789.1	7961.0
67.5°	3787.5	3869.2	4393.3	5858.7	7405.8	8485.2	9015.0	9071.3	8586.6	8014.5	7930.0
70°	2744.8	2784.2	3223.9	4452.5	6509.7	8341.4	9443.3	9440.5	8721.9	7997.6	7507.3
72.5°	1321.7	1352.7	1733.1	2764.5	4655.4	7078.9	9133.3	9186.9	8535.9	7752.5	6540.7
75°	543.9	574.9	701.7	1166.7	2443.3	4678.0	7741.2	7868.0	7752.5	6957.8	5117.6
77.5°	338.2	349.4	411.4	603.1	1115.9	2184.0	5419.1	5591.0	6143.4	5574.1	3378.8
80°	253.6	262.1	307.2	422.7	704.5	806.0	2691.2	2908.2	3722.6	3198.5	1530.2
82.5°	211.4	214.2	245.2	307.2	479.1	462.2	862.3	961.0	1735.9	1220.2	527.0
85°	197.3	202.9	219.8	219.8	304.3	290.3	357.9	374.8	504.4	417.1	183.2
87.5°	101.4	95.8	194.4	171.9	157.8	140.9	152.2	163.4	188.8	200.1	81.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P237104

CATALOG NUMBER: ARCH-L-AF72-110-D-U-T3-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1721.8	1721.8	1721.8	1721.8	1721.8	1721.8	1721.8	1721.8	1721.8	1721.8	1721.8
2.5°	1716.2	1724.6	1738.7	1752.8	1769.7	1789.5	1800.7	1814.8	1826.1	1820.5	1817.6
5°	1724.6	1738.7	1769.7	1797.9	1831.7	1871.2	1896.5	1924.7	1947.3	1952.9	1944.5
7.5°	1738.7	1764.1	1806.4	1857.1	1902.2	1952.9	1992.4	2031.8	2060.0	2065.6	2065.6
10°	1772.6	1800.7	1857.1	1924.7	1978.3	2031.8	2076.9	2107.9	2133.3	2144.5	2144.5
12.5°	1820.5	1854.3	1921.9	2003.6	2062.8	2113.5	2138.9	2153.0	2164.3	2175.5	2178.4
15°	1876.8	1913.5	1995.2	2082.5	2144.5	2169.9	2169.9	2167.1	2167.1	2172.7	2178.4
17.5°	1933.2	1972.6	2057.2	2150.2	2189.6	2175.5	2155.8	2147.4	2141.7	2138.9	2147.4
20°	1992.4	2031.8	2116.4	2203.7	2192.4	2133.3	2105.1	2085.4	2068.5	2060.0	2071.3
22.5°	2057.2	2093.8	2181.2	2240.4	2155.8	2065.6	2012.1	1981.1	1952.9	1936.0	1947.3
25°	2133.3	2169.9	2254.4	2251.6	2091.0	1964.2	1879.6	1828.9	1797.9	1781.0	1781.0
27.5°	2223.4	2254.4	2336.2	2223.4	2000.8	1828.9	1704.9	1657.0	1648.6	1634.5	1634.5
30°	2316.4	2341.8	2412.3	2158.6	1876.8	1651.4	1516.1	1493.6	1496.4	1482.3	1485.1
32.5°	2412.3	2437.6	2457.3	2062.8	1716.2	1451.3	1361.1	1344.2	1341.4	1330.1	1318.8
35°	2547.5	2584.2	2463.0	1933.2	1521.7	1285.0	1220.2	1203.3	1186.4	1146.9	1146.9
37.5°	2753.2	2792.7	2448.9	1772.6	1321.7	1155.4	1096.2	1073.7	1045.5	1006.0	992.0
40°	3035.0	3035.0	2417.9	1592.2	1161.0	1051.1	994.8	966.6	935.6	896.1	887.7
42.5°	3367.6	3288.7	2370.0	1409.0	1042.7	980.7	930.0	899.0	862.3	817.2	811.6
45°	3756.5	3542.3	2302.3	1245.6	955.3	938.4	907.4	853.9	791.9	744.0	735.5
47.5°	4134.1	3770.6	2237.5	1130.0	882.1	921.5	896.1	806.0	721.4	653.8	645.3
50°	4548.3	3973.5	2161.4	1034.2	825.7	910.2	882.1	735.5	642.5	594.6	589.0
52.5°	4962.6	4179.2	2079.7	932.8	777.8	887.7	848.2	684.8	639.7	574.9	566.4
55°	5399.4	4418.7	1983.9	820.1	721.4	842.6	803.1	682.0	659.4	574.9	555.2
57.5°	5824.9	4683.6	1828.9	710.1	659.4	775.0	786.2	665.1	617.2	569.2	546.7
60°	6295.5	4965.4	1572.5	617.2	605.9	718.6	763.7	628.4	569.2	552.3	541.1
62.5°	6673.1	5219.0	1228.7	552.3	560.8	673.5	735.5	605.9	549.5	535.4	532.6
65°	6836.6	5224.7	882.1	496.0	515.7	631.2	707.3	586.2	532.6	527.0	524.2
67.5°	6664.7	4937.2	620.0	442.4	467.8	591.8	670.7	566.4	515.7	518.5	512.9
70°	6109.5	4331.3	453.7	391.7	422.7	549.5	631.2	541.1	496.0	501.6	493.2
72.5°	5111.9	3376.0	363.5	349.4	386.1	504.4	591.8	512.9	465.0	467.8	450.9
75°	3776.2	2237.5	304.3	312.8	343.8	462.2	541.1	476.3	431.2	419.9	408.6
77.5°	2246.0	1149.8	250.8	273.4	307.2	411.4	484.7	431.2	394.5	374.8	366.3
80°	927.1	465.0	205.7	231.1	267.7	366.3	428.3	377.6	352.3	332.5	321.3
82.5°	369.2	228.3	163.4	188.8	225.4	318.4	374.8	332.5	307.2	293.1	262.1
85°	140.9	112.7	109.9	132.4	169.1	245.2	310.0	279.0	259.3	222.6	214.2
87.5°	56.4	50.7	50.7	64.8	95.8	155.0	222.6	194.4	202.9	160.6	163.4
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)